



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
AMEC Environmental and Infrastructure
107 Audubon Road, Suite 301
Wakefield, MA 01880

Checked for Completeness
of Parameters Ordered By:

[Signature]

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112281

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

[Signature]
Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 1:11 pm, Jan 26, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

- | | |
|--|----------------------|
| CTS - Cranston, RI | Grain Size Analysis |
| Pace Analytical - Minneapolis, MN | Dioxin - Full List |
| TestAmerica Laboratories, Inc. - Westfield, MA | Total Organic Carbon |



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

SAMPLE RECEIPT

The following samples were received on December 14, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112281-01	SED-50-08	Sediment	§
1112281-02	SED-49-08	Sediment	§
1112281-03	SED-51-08	Sediment	§
1112281-04	SED-38-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-05	SED-38-18	Sediment	§
1112281-06	SED-42-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-07	SED-42-18	Sediment	§
1112281-08	SED-36-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-09	SED-36-18	Sediment	§
1112281-10	SED-36-01 Dup	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-11	SED-39-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-12	SED-39-18	Sediment	§
1112281-13	SED-48-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-14	SED-48-18	Sediment	§
1112281-15	SED-45-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112281-16	SED-45-18	Sediment	§



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ESS Laboratory Work Order: 1112281

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

- CL12316-MS1 [Due to high target values, matrix spike compound\(s\) is masked \(MT\).](#)
Zinc (63% @ 75-125%)
- CL12316-MS1 [Matrix Spike recovery is below lower control limit \(M-\).](#)
Antimony (53% @ 75-125%)

Acid Volatile Sulfide / Simultaneous Extracted Metals

- CL12835-DUP1 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)
Arsenic (38%), Beryllium (102%), Lead (72%), Nickel (57%), Zinc (70%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-50-08
Date Sampled: 12/13/11 10:30

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	22000 (1000)	§			§	12/21/11 16:06	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-49-08
Date Sampled: 12/13/11 11:50

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-02
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	110000 (1000)	§			§	12/22/11 8:44	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-51-08
Date Sampled: 12/13/11 12:10

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-03
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	14000 (1000)	§			§	12/22/11 9:15	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-38-01
Date Sampled: 12/13/11 15:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-04
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-38-01
Date Sampled: 12/13/11 15:20
Percent Solids: 84

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-04
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Arsenic	4.1 (1.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Beryllium	0.10 (0.08)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Cadmium	ND (0.39)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Chromium	3.7 (0.8)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Copper	6.6 (1.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Lead	6.6 (3.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Mercury	ND (0.019)	7471A		1	KJK	12/30/11 15:33	1.22	40	CL12825
Nickel	7.0 (1.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Selenium	ND (3.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Silver	ND (0.39)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316
Thallium	ND (0.96)	7841		5	SVD	12/30/11 19:13	3.07	100	CL12316
Zinc	37.8 (1.9)	6010B		1	JP	12/29/11 20:22	3.07	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-38-01
Date Sampled: 12/13/11 15:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-04
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	5400 (1000)	§			§	12/22/11 11:16	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-38-01
Date Sampled: 12/13/11 15:20
Percent Solids: 84

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-04
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (24.4)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Arsenic	44.6 (39.7)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Beryllium	ND (6.60)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Cadmium	ND (2.65)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Chromium	ND (22.9)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Copper	48.7 (18.7)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Lead	18.4 (5.74)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Mercury	ND (0.148)	AVS/SEM		1	KJK	01/03/12 17:21 5.004	250	CL12920	
Nickel	138 (50.7)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Selenium	ND (37.7)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Silver	ND (5.51)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Thallium	ND (29.1)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
Zinc	775 (45.5)	AVS/SEM		1	SVD	12/30/11 22:02 5.004	250	CL12835	
AVS	14.8 (1.86)	AVS/SEM		1	EEM	12/27/11 11:45 5.004	100	CL12701	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-38-18
Date Sampled: 12/13/11 15:30

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-05
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	3800 (1000)	§			§	12/22/11 11:44	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-42-01
Date Sampled: 12/14/11 10:00

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-06
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-42-01
Date Sampled: 12/14/11 10:00
Percent Solids: 81

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-06
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (4.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Arsenic	ND (2.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Beryllium	ND (0.08)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Cadmium	ND (0.40)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Chromium	1.8 (0.8)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Copper	ND (2.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Lead	ND (4.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Mercury	ND (0.016)	7471A		1	KJK	12/30/11 15:35	1.51	40	CL12825
Nickel	2.1 (2.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Selenium	ND (4.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Silver	ND (0.40)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316
Thallium	ND (0.99)	7841		5	SVD	12/30/11 19:19	3.09	100	CL12316
Zinc	10.7 (2.0)	6010B		1	JP	12/29/11 20:26	3.09	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-42-01
Date Sampled: 12/14/11 10:00

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-06
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	4300 (1000)	§			§	12/22/11 12:16	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-42-01
Date Sampled: 12/14/11 10:00
Percent Solids: 81

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-06
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (25.0)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Arsenic	ND (40.7)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Beryllium	7.69 (6.76)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Cadmium	ND (2.71)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Chromium	24.1 (23.4)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Copper	27.6 (19.2)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Lead	12.3 (5.88)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Mercury	ND (0.152)	AVS/SEM		1	KJK	01/03/12 17:33	5.065	250	CL12920
Nickel	ND (51.9)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Selenium	ND (38.6)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Silver	ND (5.65)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Thallium	ND (29.8)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
Zinc	319 (46.6)	AVS/SEM		1	SVD	12/30/11 22:27	5.065	250	CL12835
AVS	ND (1.93)	AVS/SEM		1	EEM	12/27/11 11:45	5.065	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-42-18
Date Sampled: 12/14/11 10:15

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-07
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1200 (1000)	§			§	12/22/11 12:43	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01
Date Sampled: 12/14/11 11:40

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-08
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01
Date Sampled: 12/14/11 11:40
Percent Solids: 46

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-08
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (7.1)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Arsenic	16.3 (3.5)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Beryllium	0.32 (0.15)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Cadmium	ND (0.71)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Chromium	27.9 (1.4)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Copper	82.7 (3.5)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Lead	88.1 (7.1)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Mercury	0.141 (0.030)	7471A		1	KJK	12/30/11 15:38	1.44	40	CL12825
Nickel	18.7 (3.5)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Selenium	ND (7.1)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Silver	6.38 (0.71)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316
Thallium	ND (1.75)	7841		5	SVD	12/30/11 19:25	3.08	100	CL12316
Zinc	157 (3.5)	6010B		1	JP	12/29/11 20:31	3.08	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01
Date Sampled: 12/14/11 11:40

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-08
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	37000 (1000)	§			§	12/22/11 13:09	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01
Date Sampled: 12/14/11 11:40
Percent Solids: 46

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-08
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (43.9)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Arsenic	125 (71.3)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Beryllium	21.7 (11.9)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Cadmium	5.01 (4.75)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Chromium	229 (41.1)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Copper	674 (33.6)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Lead	313 (10.3)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Mercury	ND (0.266)	AVS/SEM		1	KJK	01/03/12 17:35	5.087	250	CL12920
Nickel	149 (91.0)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Selenium	ND (67.7)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Silver	19.4 (9.90)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Thallium	ND (52.3)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
Zinc	1880 (81.7)	AVS/SEM		1	SVD	12/30/11 22:31	5.087	250	CL12835
AVS	ND (3.39)	AVS/SEM		1	EEM	12/27/11 11:45	5.087	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-18
Date Sampled: 12/14/11 11:50

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-09
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	130000 (1000)	§			§	12/22/11 13:37	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01 Dup
Date Sampled: 12/14/11 11:40

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-10
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01 Dup
Date Sampled: 12/14/11 11:40
Percent Solids: 47

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-10
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (7.2)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Arsenic	18.8 (3.6)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Beryllium	0.33 (0.15)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Cadmium	ND (0.72)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Chromium	22.5 (1.4)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Copper	68.6 (3.6)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Lead	75.9 (7.2)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Mercury	0.119 (0.037)	7471A		1	KJK	12/30/11 15:41	1.15	40	CL12825
Nickel	16.0 (3.6)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Selenium	ND (7.2)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Silver	4.65 (0.72)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316
Thallium	ND (1.78)	7841		5	SVD	12/30/11 19:42	2.96	100	CL12316
Zinc	135 (3.6)	6010B		1	JP	12/29/11 20:35	2.96	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01 Dup
Date Sampled: 12/14/11 11:40

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-10
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	49000 (1000)	§			§	12/22/11 14:39	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-36-01 Dup
Date Sampled: 12/14/11 11:40
Percent Solids: 47

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-10
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (43.2)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Arsenic	94.0 (70.2)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Beryllium	22.2 (11.7)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Cadmium	5.39 (4.68)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Chromium	257 (40.4)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Copper	614 (33.1)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Lead	327 (10.1)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Mercury	ND (0.262)	AVS/SEM		1	KJK	01/03/12 17:42	5.059	250	CL12920
Nickel	144 (89.6)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Selenium	ND (66.6)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Silver	21.0 (9.75)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Thallium	ND (51.4)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
Zinc	2050 (80.4)	AVS/SEM		1	SVD	12/30/11 22:36	5.059	250	CL12835
AVS	424 (16.6)	AVS/SEM		5	EEM	12/27/11 11:45	5.059	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-39-01
Date Sampled: 12/14/11 12:10

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-11
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-39-01
Date Sampled: 12/14/11 12:10
Percent Solids: 24

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-11
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (12.4)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Arsenic	24.7 (6.2)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Beryllium	0.77 (0.26)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Cadmium	2.11 (1.25)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Chromium	127 (2.5)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Copper	328 (6.2)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Lead	475 (12.4)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Mercury	1.32 (0.073)	7471A		1	KJK	12/30/11 16:00	1.13	40	CL12825
Nickel	50.7 (6.2)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Selenium	ND (12.4)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Silver	23.8 (1.25)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316
Thallium	ND (3.07)	7841		5	SVD	12/30/11 20:12	3.36	100	CL12316
Zinc	491 (6.2)	6010B		1	JP	12/29/11 21:07	3.36	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-39-01
Date Sampled: 12/14/11 12:10

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-11
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	140000 (1000)	§			§	12/22/11 15:24	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-39-01
Date Sampled: 12/14/11 12:10
Percent Solids: 24

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-11
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (84.4)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Arsenic	186 (137)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Beryllium	60.9 (22.8)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Cadmium	20.2 (9.15)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Chromium	1370 (79.1)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Copper	3870 (64.7)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Lead	2320 (19.8)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Mercury	ND (0.513)	AVS/SEM		1	KJK	01/03/12 17:45	5.066	250	CL12920
Nickel	416 (175)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Selenium	ND (130)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Silver	64.2 (19.1)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Thallium	ND (101)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
Zinc	7640 (157)	AVS/SEM		1	SVD	12/30/11 22:40	5.066	250	CL12835
AVS	4160 (325)	AVS/SEM		50	EEM	12/27/11 13:05	5.066	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-39-18
Date Sampled: 12/14/11 12:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-12
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	39000 (1000)	§			§	12/23/11 8:54	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-48-01
Date Sampled: 12/14/11 14:15

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-13
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-48-01
Date Sampled: 12/14/11 14:15
Percent Solids: 18

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-13
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (18.3)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Arsenic	23.7 (9.2)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Beryllium	0.91 (0.39)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Cadmium	2.66 (1.84)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Chromium	189 (3.7)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Copper	327 (9.2)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Lead	611 (18.3)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Mercury	1.22 (0.108)	7471A		1	KJK	12/30/11 16:02	1.02	40	CL12825
Nickel	69.2 (9.2)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Selenium	ND (18.3)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Silver	16.0 (1.84)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316
Thallium	ND (4.54)	7841		5	SVD	12/30/11 20:18	3.03	100	CL12316
Zinc	501 (9.2)	6010B		1	JP	12/29/11 21:11	3.03	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-48-01
Date Sampled: 12/14/11 14:15

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-13
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	110000 (1000)	§			§	12/23/11 9:21	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-48-01
Date Sampled: 12/14/11 14:15
Percent Solids: 18

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-13
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (113)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Arsenic	223 (184)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Beryllium	75.4 (30.6)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Cadmium	24.5 (12.3)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Chromium	1730 (106)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Copper	3510 (86.7)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Lead	3070 (26.6)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Mercury	ND (0.687)	AVS/SEM		1	KJK	01/03/12 17:47 5.041	250	CL12920	
Nickel	498 (235)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Selenium	ND (174)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Silver	33.8 (25.5)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Thallium	ND (135)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
Zinc	7410 (211)	AVS/SEM		1	SVD	12/30/11 22:44 5.041	250	CL12835	
AVS	4970 (433)	AVS/SEM		50	EEM	12/27/11 13:05 5.041	100	CL12701	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-48-18
Date Sampled: 12/14/11 14:30

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-14
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	84000 (1000)	§			§	12/23/11 10:10	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-45-01
Date Sampled: 12/14/11 15:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-15
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-45-01
Date Sampled: 12/14/11 15:20
Percent Solids: 52

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-15
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (6.1)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Arsenic	7.1 (3.0)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Beryllium	0.16 (0.13)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Cadmium	ND (0.61)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Chromium	8.0 (1.2)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Copper	14.0 (3.0)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Lead	25.1 (6.1)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Mercury	0.070 (0.028)	7471A		1	KJK	12/30/11 16:05	1.35	40	CL12825
Nickel	4.1 (3.0)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Selenium	ND (6.1)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Silver	0.66 (0.61)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316
Thallium	ND (1.50)	7841		5	SVD	12/30/11 20:23	3.18	100	CL12316
Zinc	31.8 (3.0)	6010B		1	JP	12/29/11 21:16	3.18	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-45-01
Date Sampled: 12/14/11 15:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-15
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	19000 (1000)	§			§	12/23/11 10:54	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-45-01
Date Sampled: 12/14/11 15:20
Percent Solids: 52

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-15
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (38.6)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Arsenic	63.3 (62.7)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Beryllium	11.0 (10.4)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Cadmium	ND (4.18)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Chromium	72.3 (36.1)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Copper	172 (29.6)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Lead	138 (9.07)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Mercury	ND (0.234)	AVS/SEM		1	KJK	01/03/12 17:50	5.118	250	CL12920
Nickel	ND (80.0)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Selenium	ND (59.5)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Silver	ND (8.71)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Thallium	ND (46.0)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
Zinc	525 (71.8)	AVS/SEM		1	SVD	12/30/11 22:49	5.118	250	CL12835
AVS	205 (3.00)	AVS/SEM		1	EEM	12/27/11 13:05	5.118	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-45-18
Date Sampled: 12/14/11 15:20

ESS Laboratory Work Order: 1112281
ESS Laboratory Sample ID: 1112281-16
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	24000 (1000)	§			§	12/23/11 11:21	mg/kg	CL12715



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12316 - 3050B

Blank

Antimony	ND	5.0	mg/kg wet
Arsenic	ND	2.5	mg/kg wet
Beryllium	ND	0.10	mg/kg wet
Cadmium	ND	0.50	mg/kg wet
Chromium	ND	1.0	mg/kg wet
Copper	ND	2.5	mg/kg wet
Lead	ND	5.0	mg/kg wet
Nickel	ND	2.5	mg/kg wet
Selenium	ND	5.0	mg/kg wet
Silver	ND	0.50	mg/kg wet
Thallium	ND	0.25	mg/kg wet
Zinc	ND	2.5	mg/kg wet

LCS

Antimony	119	17.6	mg/kg wet	120.0	99	80-120
Arsenic	106	8.8	mg/kg wet	124.0	85	80-120
Beryllium	81.9	0.37	mg/kg wet	95.00	86	80-120
Cadmium	99.6	1.76	mg/kg wet	116.0	86	80-120
Chromium	87.9	3.5	mg/kg wet	95.90	92	80-120
Copper	78.3	8.8	mg/kg wet	82.80	95	80-120
Lead	123	17.6	mg/kg wet	137.0	90	80-120
Nickel	109	8.8	mg/kg wet	121.0	90	80-120
Selenium	185	17.6	mg/kg wet	202.0	92	80-120
Silver	47.2	1.76	mg/kg wet	53.50	88	80-120
Thallium	186	43.4	mg/kg wet	231.0	80	80-120
Zinc	227	8.8	mg/kg wet	275.0	83	80-120

LCS Dup

Antimony	123	19.6	mg/kg wet	120.0	102	80-120	3	20
Arsenic	105	9.8	mg/kg wet	124.0	84	80-120	0.9	20
Beryllium	80.7	0.41	mg/kg wet	95.00	85	80-120	1	20
Cadmium	96.2	1.97	mg/kg wet	116.0	83	80-120	4	20
Chromium	87.8	3.9	mg/kg wet	95.90	92	80-120	0.1	20
Copper	79.3	9.8	mg/kg wet	82.80	96	80-120	1	20
Lead	124	19.6	mg/kg wet	137.0	90	80-120	0.1	20
Nickel	108	9.8	mg/kg wet	121.0	89	80-120	1	20
Selenium	182	19.6	mg/kg wet	202.0	90	80-120	2	20
Silver	47.7	1.97	mg/kg wet	53.50	89	80-120	1	20
Thallium	192	48.5	mg/kg wet	231.0	83	80-120	3	20
Zinc	227	9.8	mg/kg wet	275.0	82	80-120	0.2	20

Duplicate

Source: 1112281-10

Antimony	ND	6.2	mg/kg dry	ND				35
Arsenic	17.5	3.1	mg/kg dry	18.8			7	35
Beryllium	0.317	0.13	mg/kg dry	0.331			4	35
Cadmium	0.528	0.62	mg/kg dry	0.570			8	35
Chromium	20.1	1.2	mg/kg dry	22.5			11	35



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12316 - 3050B

Copper	68.5	3.1	mg/kg dry		68.6			0.09	35	
Lead	69.7	6.2	mg/kg dry		75.9			9	35	
Nickel	14.0	3.1	mg/kg dry		16.0			13	35	
Selenium	3.91	6.2	mg/kg dry		4.09			5	35	
Silver	4.52	0.62	mg/kg dry		4.65			3	35	
Thallium	ND	1.53	mg/kg dry		ND				35	
Zinc	121	3.1	mg/kg dry		135			11	35	

Matrix Spike Source: 1112281-10

Antimony	15.9	6.0	mg/kg dry	29.88	ND	53	75-125			M-
Arsenic	44.3	3.0	mg/kg dry	29.88	18.8	85	75-125			
Beryllium	2.87	0.13	mg/kg dry	2.988	0.331	85	75-125			
Cadmium	13.0	0.60	mg/kg dry	14.94	0.570	83	75-125			
Chromium	46.5	1.2	mg/kg dry	29.88	22.5	80	75-125			
Copper	99.6	3.0	mg/kg dry	29.88	68.6	104	75-125			
Lead	109	6.0	mg/kg dry	29.88	75.9	111	75-125			
Nickel	40.6	3.0	mg/kg dry	29.88	16.0	82	75-125			
Selenium	55.5	6.0	mg/kg dry	59.77	4.09	86	75-125			
Silver	18.4	0.60	mg/kg dry	14.94	4.65	92	75-125			
Thallium	25.6	5.92	mg/kg dry	29.88	ND	86	75-125			
Zinc	154	3.0	mg/kg dry	29.88	135	63	75-125			MT

Batch CL12825 - 245.1/7470A

Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	14.1	1.55	mg/kg wet	15.20		93	80-120			
LCS Dup										
Mercury	12.4	1.55	mg/kg wet	15.20		82	80-120	13	20	
Duplicate Source: 1112281-10										
Mercury	0.151	0.038	mg/kg dry		0.119			23	35	
Matrix Spike Source: 1112281-10										
Mercury	0.364	0.041	mg/kg dry	0.2479	0.119	99	75-125			

Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CL12701 - General Preparation

Blank										
AVS	ND	1.56	umol/kg dry							
Duplicate Source: 1112281-04										
AVS	15.3	1.86	umol/kg dry		14.8			3	20	

Batch CL12835 - SEM Prep

Blank										
Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Acid Volatile Sulfide / Simultaneous Extracted Metals										
Batch CL12835 - SEM Prep										
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							
Blank										
Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							
Duplicate Source: 1112281-04										
Antimony	ND	24.2	umol/kg dry		ND			35		
Arsenic	65.2	39.3	umol/kg dry		44.6			38	20	D+
Beryllium	9.02	6.54	umol/kg dry		2.95			102	35	D+
Cadmium	0.944	2.62	umol/kg dry		0.843			11	35	
Chromium	11.1	22.7	umol/kg dry		17.3			44	20	
Copper	17.4	18.5	umol/kg dry		48.7			95	35	
Lead	8.68	5.69	umol/kg dry		18.4			72	35	D+
Nickel	248	50.2	umol/kg dry		138			57	35	D+
Selenium	0.302	37.3	umol/kg dry		ND			200	35	
Silver	0.200	5.46	umol/kg dry		1.29			147	20	
Thallium	ND	28.8	umol/kg dry		ND				35	
Zinc	1610	45.0	umol/kg dry		775			70	35	D+
Batch CL12920 - 245.1/7470A										
Blank										
Mercury	ND	0.0312	umol/kg dry							
Blank										
Mercury	ND	0.0312	umol/kg dry							
LCS										
Mercury	0.0301	0.0312	umol/kg dry	0.02991		101	80-120			
LCS Dup										



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Acid Volatile Sulfide / Simultaneous Extracted Metals										
Batch CL12920 - 245.1/7470A										
Mercury	0.0303	0.0312	umol/kg dry	0.02991		101	80-120	0.8	20	
Duplicate Source: 1112281-04										
Mercury	ND	0.0371	umol/kg dry		0.0221			200	35	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

Notes and Definitions

- Z-08 See Attached
- U Analyte included in the analysis, but not detected
- MT Due to high target values, matrix spike compound(s) is masked (MT).
- M- Matrix Spike recovery is below lower control limit (M-).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112281

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

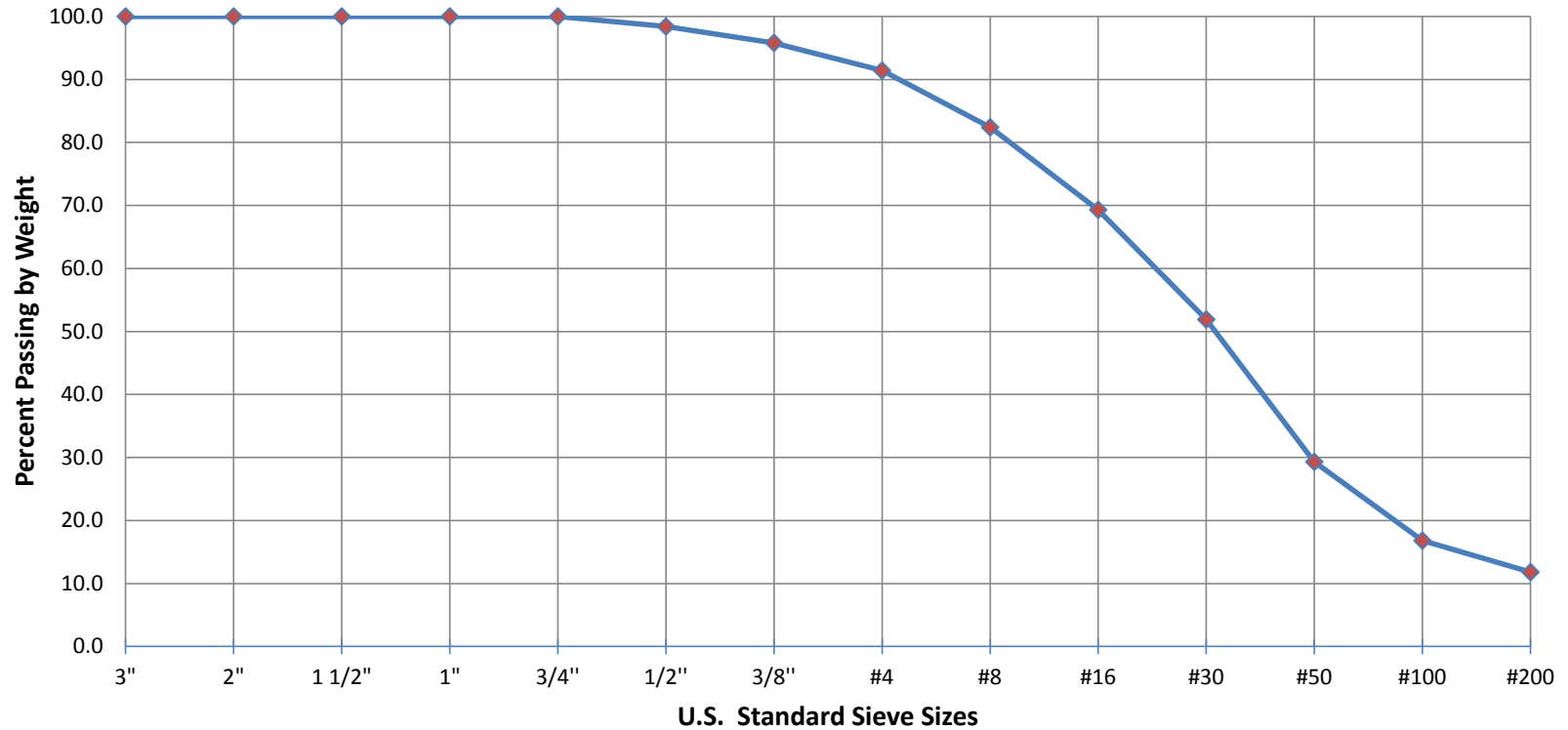
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

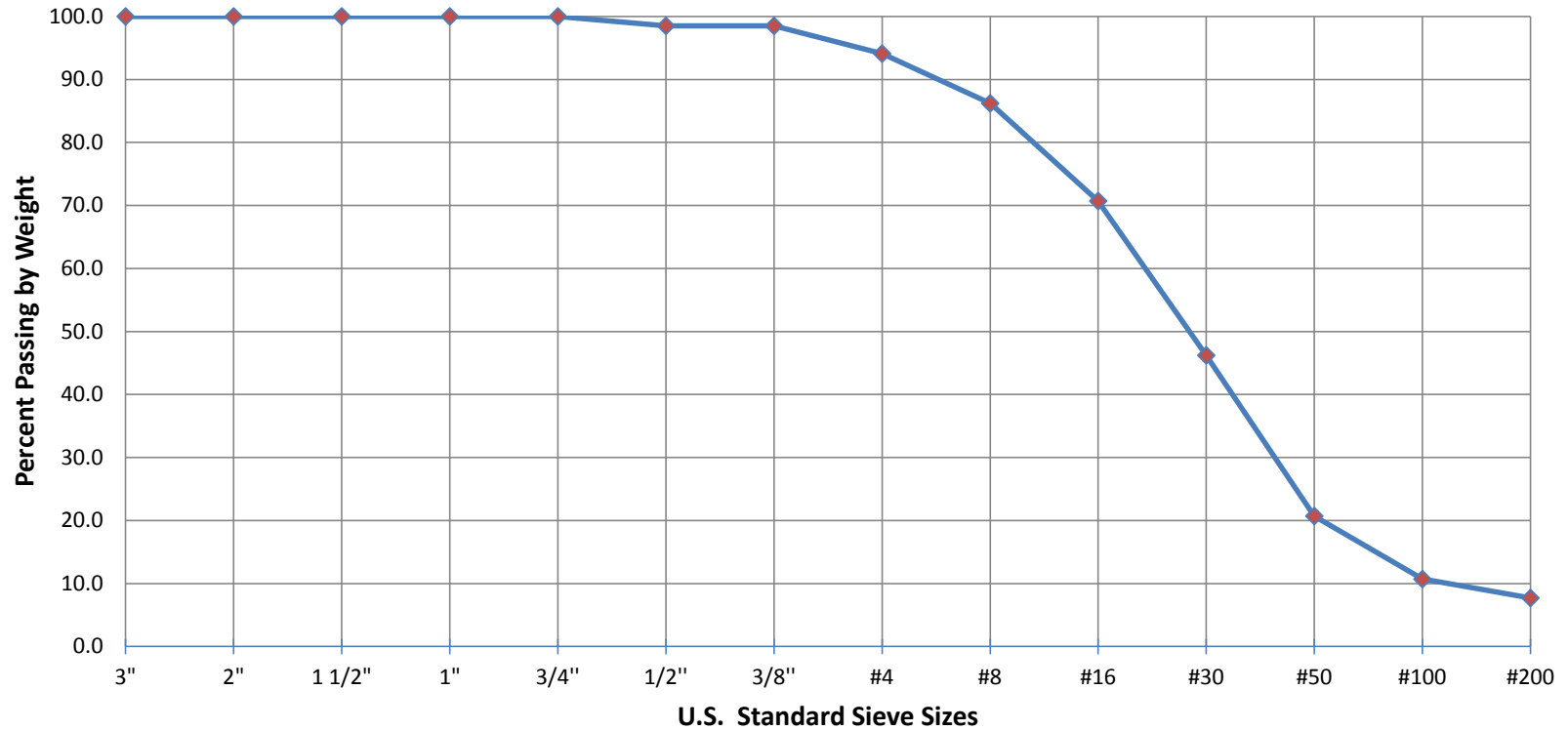
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
8.6	79.6	11.8

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-610		

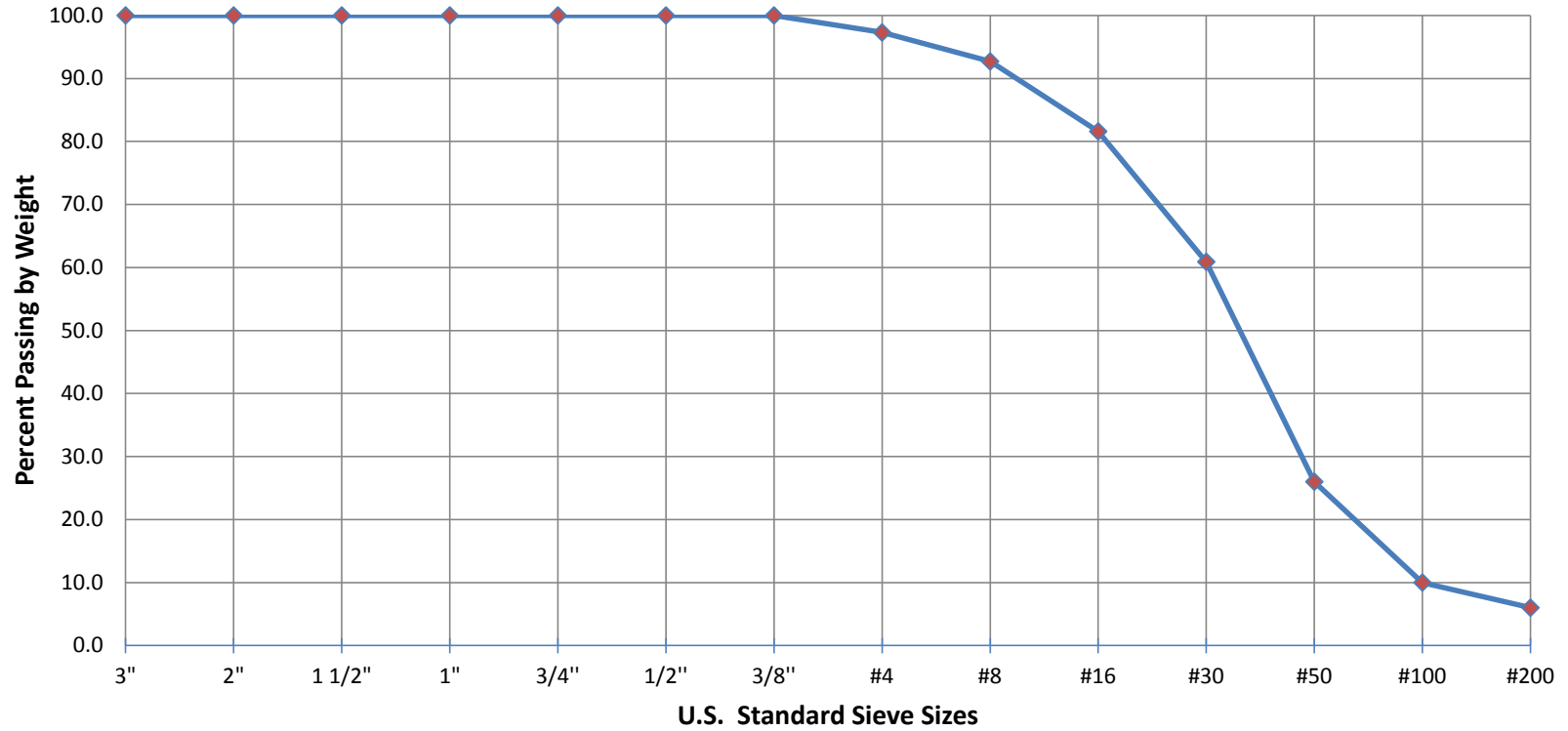
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
5.9	86.4	7.7

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-611		

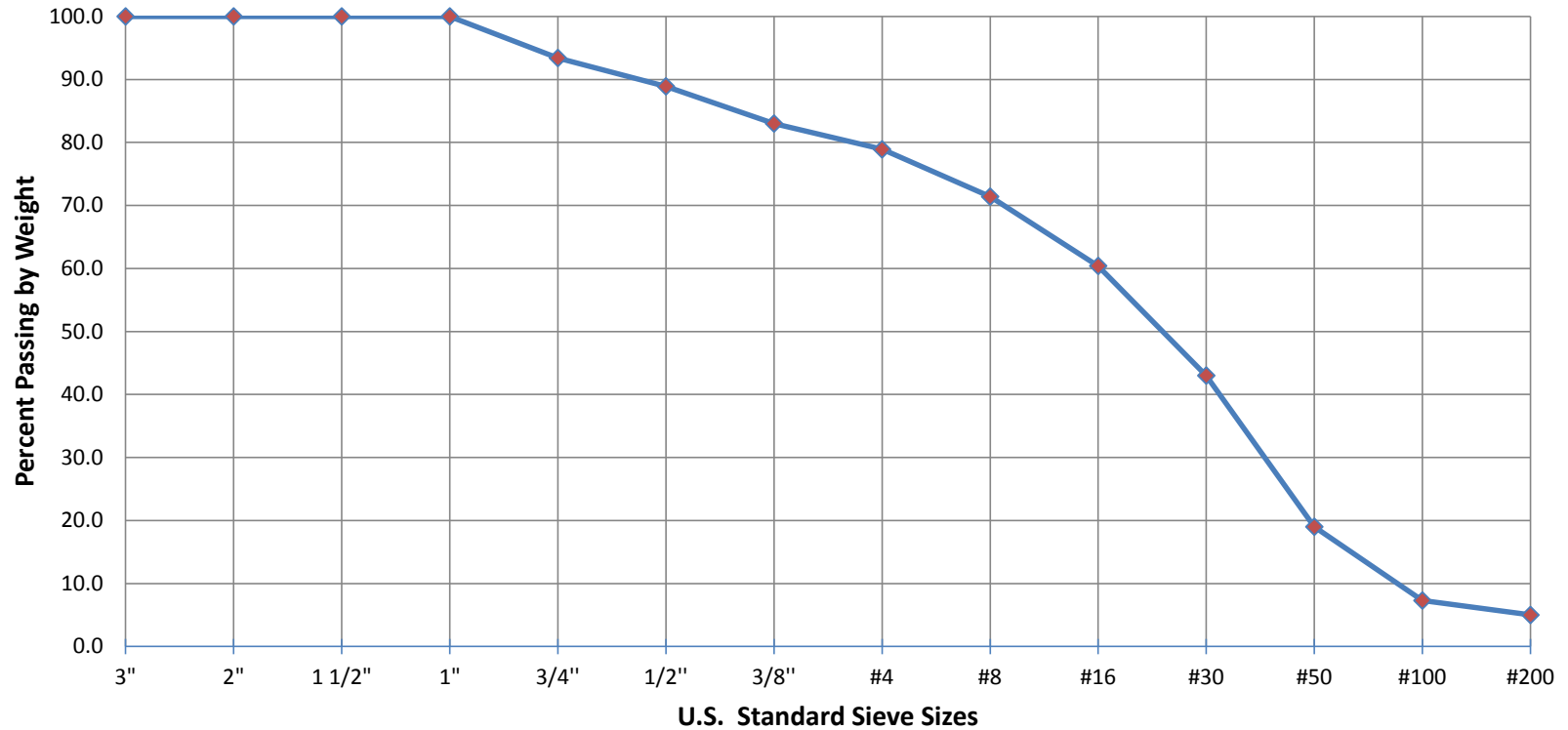
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
2.7	91.3	6

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-612		

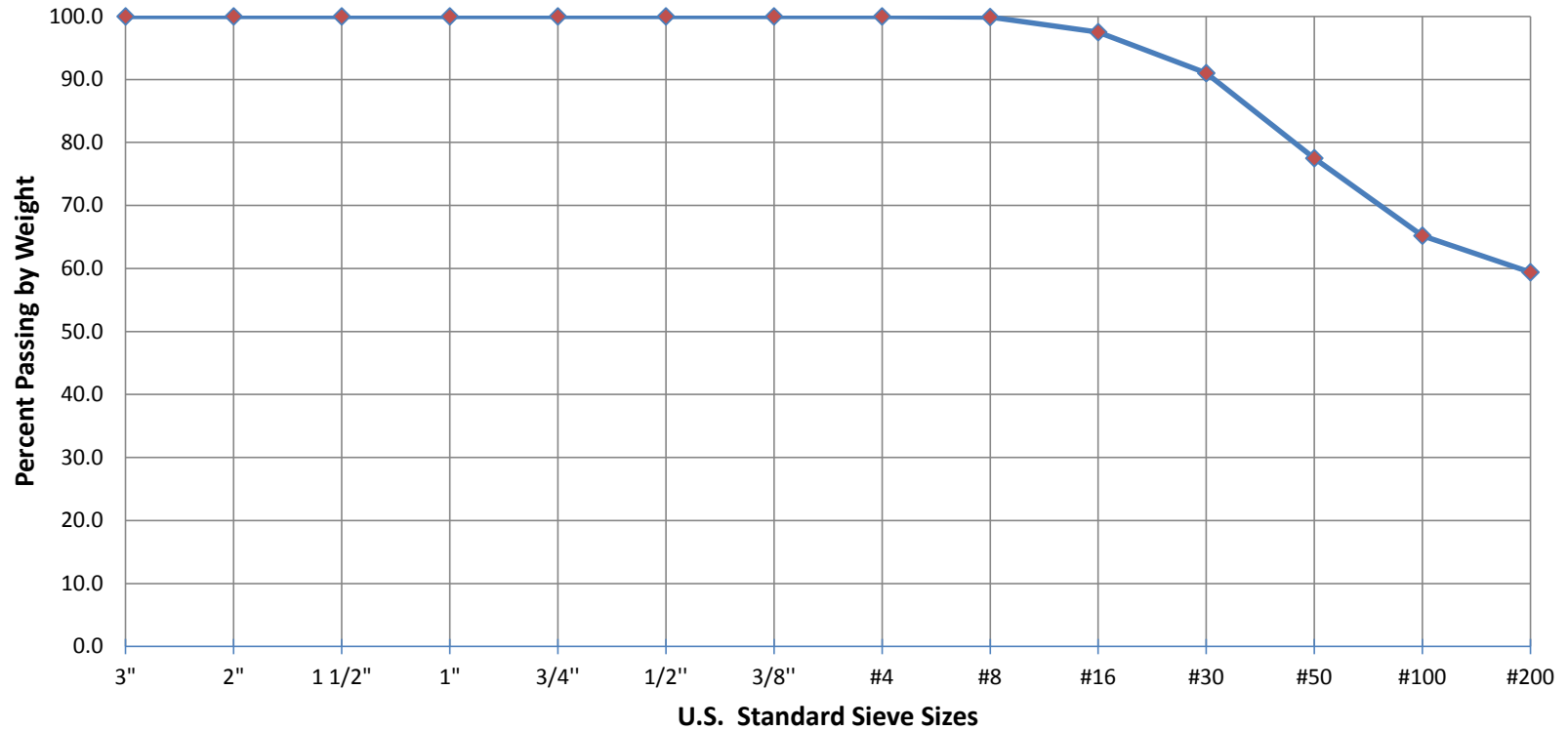
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
21.1	73.9	5

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-613		

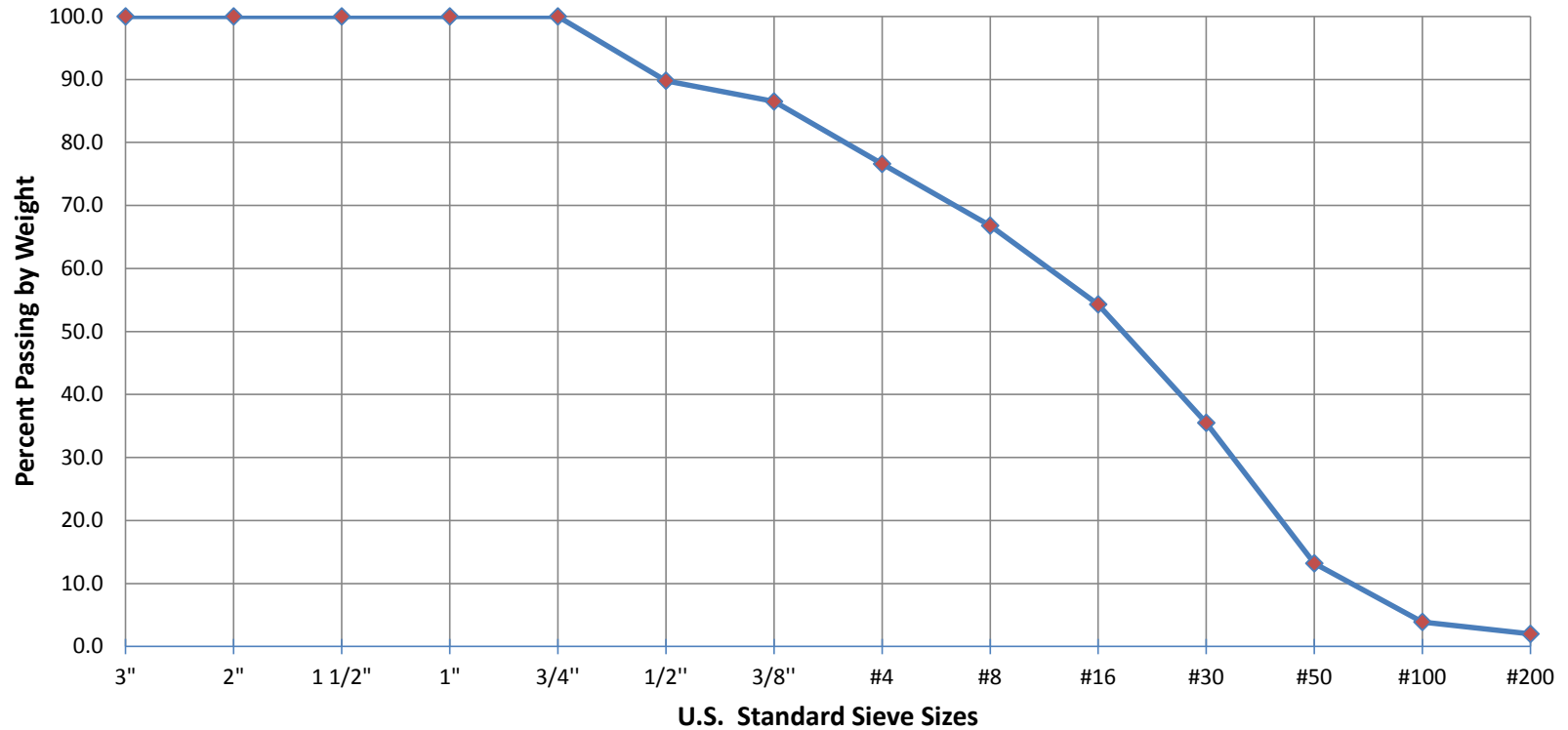
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	40.6	59.4

Client:	ESS	Date Recieved:	12/16/2011
Project:	1112281.00	Date Tested:	12/20/2011
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL
T.E.I. Sample/Report #:	11-S-614	Soil Description:	Sandy Material
		Comments:	

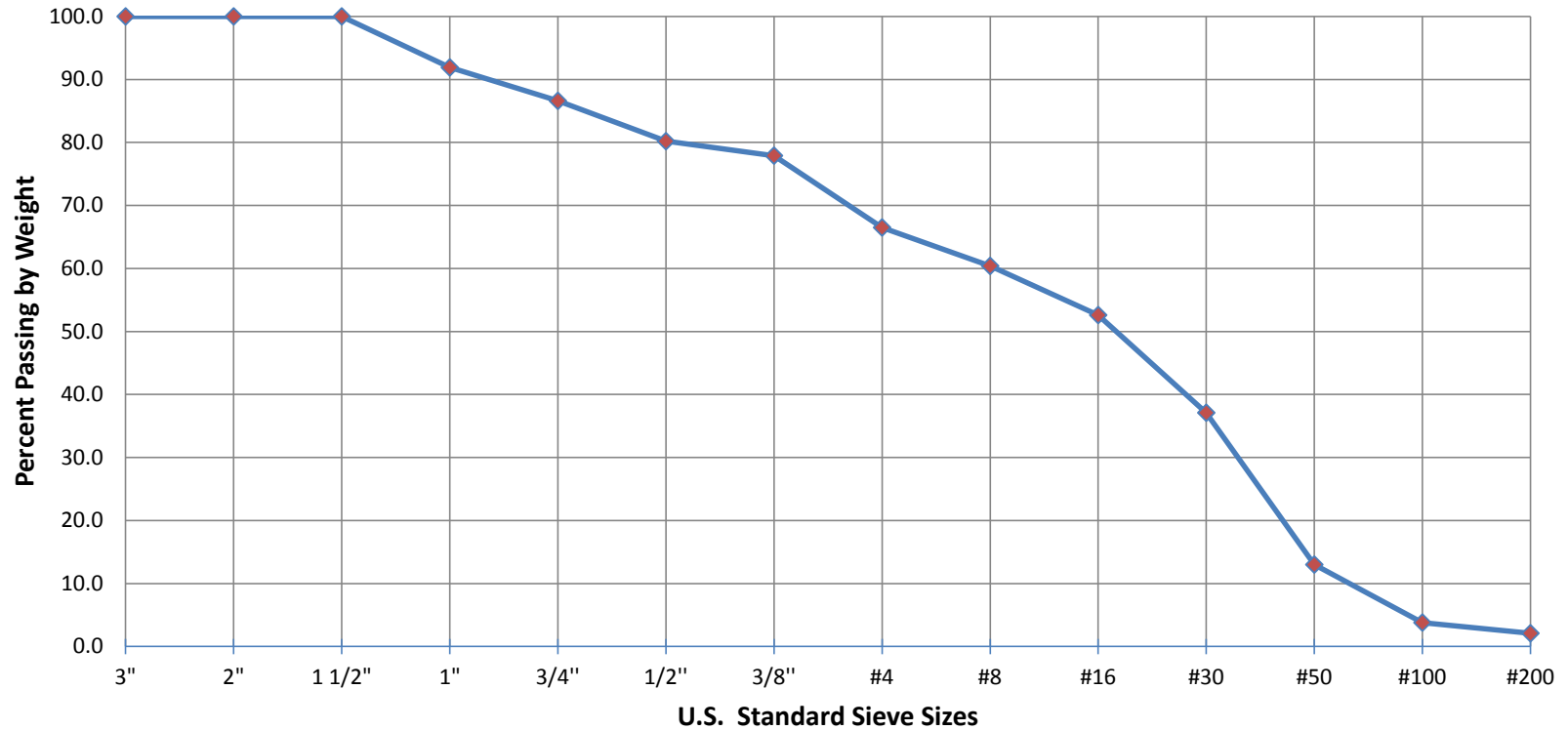
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
23.4	74.6	2

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-615		

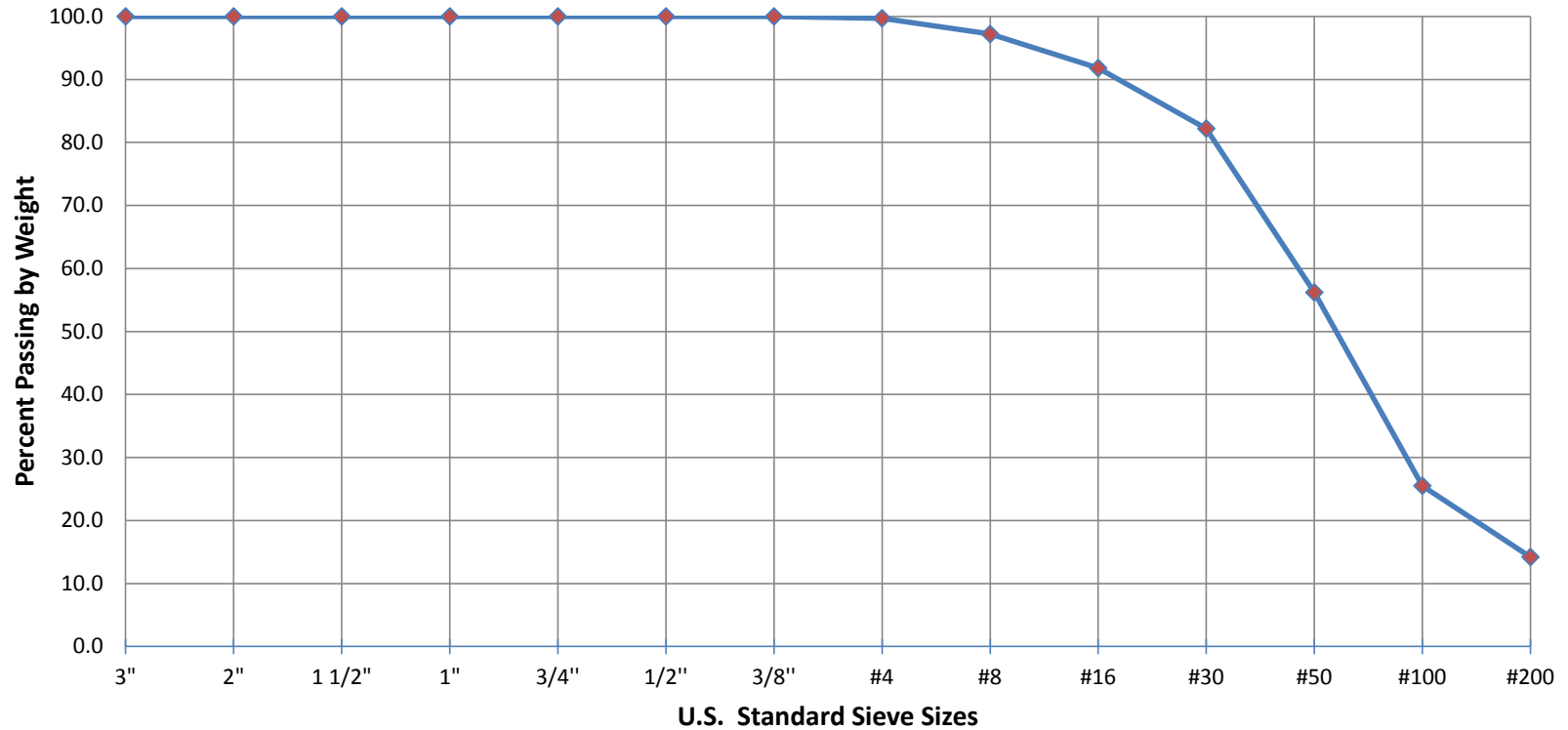
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
33.5	64.4	2.1

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-616		

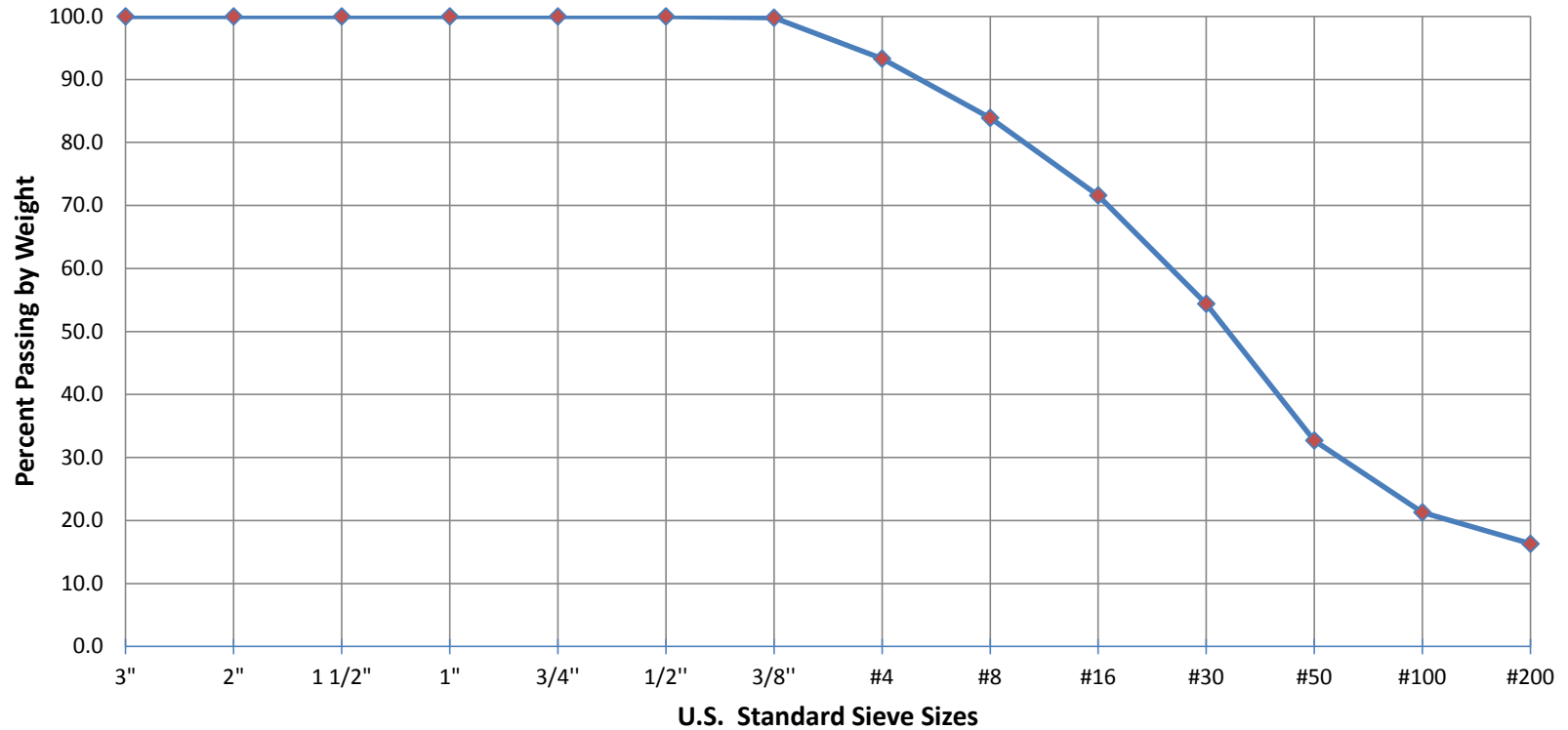
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.3	85.5	14.2

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-617		

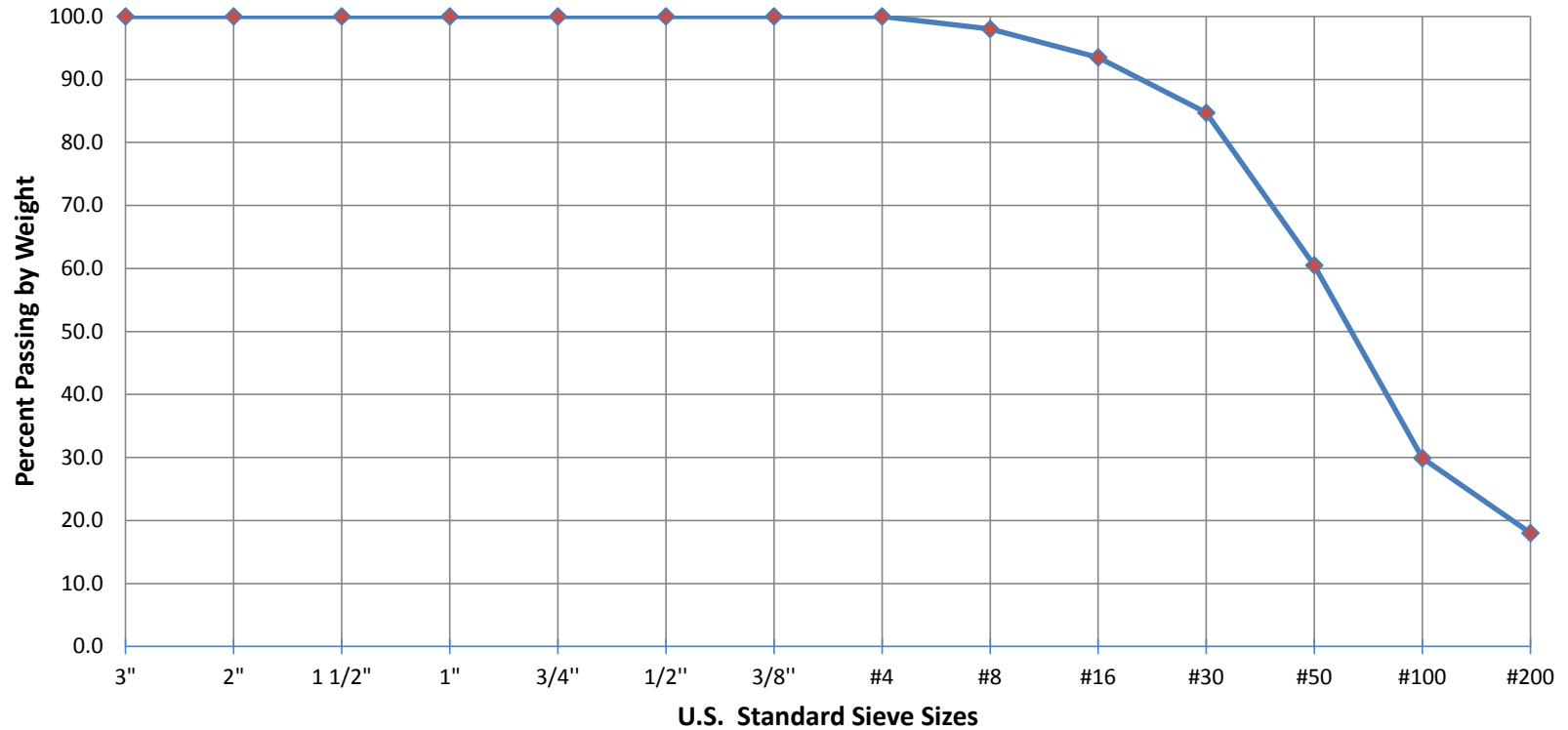
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
6.7	77.0	16.3

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-618		

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	82.0	18.0

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-619		

Sieve Analysis Test Report

Client: ESS
 Project: 1112281
 Client Sample I.D. #: 1112281-11
 Soil Description: Sandy Material

Date Recieved: 12/16/2011
 Date Tested: 12/20/2011
 T.E.I. Project #: 74-11-0002-1
 T.E.I. Sample/Report #: 11-S-620
 Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	741.5
Original Dry Mass (D):	161.0
Moisture Loss (W - D):	580.5
% Moisture (100 x (W - D) / D):	360.6

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	39.5
Mass of fines lost by wash (D - Dw):	121.5
% -75 µm Sieve (100 x (D - Dw)/D):	75.5

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.5		0.3		99.7		
#16		2.5		1.6		98.4		
#30		5.5		3.4		96.6		
#50		9.0		5.6		94.4		
#100		15.5		9.6		90.4		
#200		38.0		23.6		76.4		
Pan		39.5		24.5				
Sub Total		39.5						
Loss on Wash (D - Dw)		121.5						
Total		161.0						

Calculate Fineness Modulus? No

Comments:

Cherif Laloui

Henry J. Soares III

Tested By: Cherif Laloui

Reviewed By: Henry J. Soares III, P.E.
 Senior Engineer

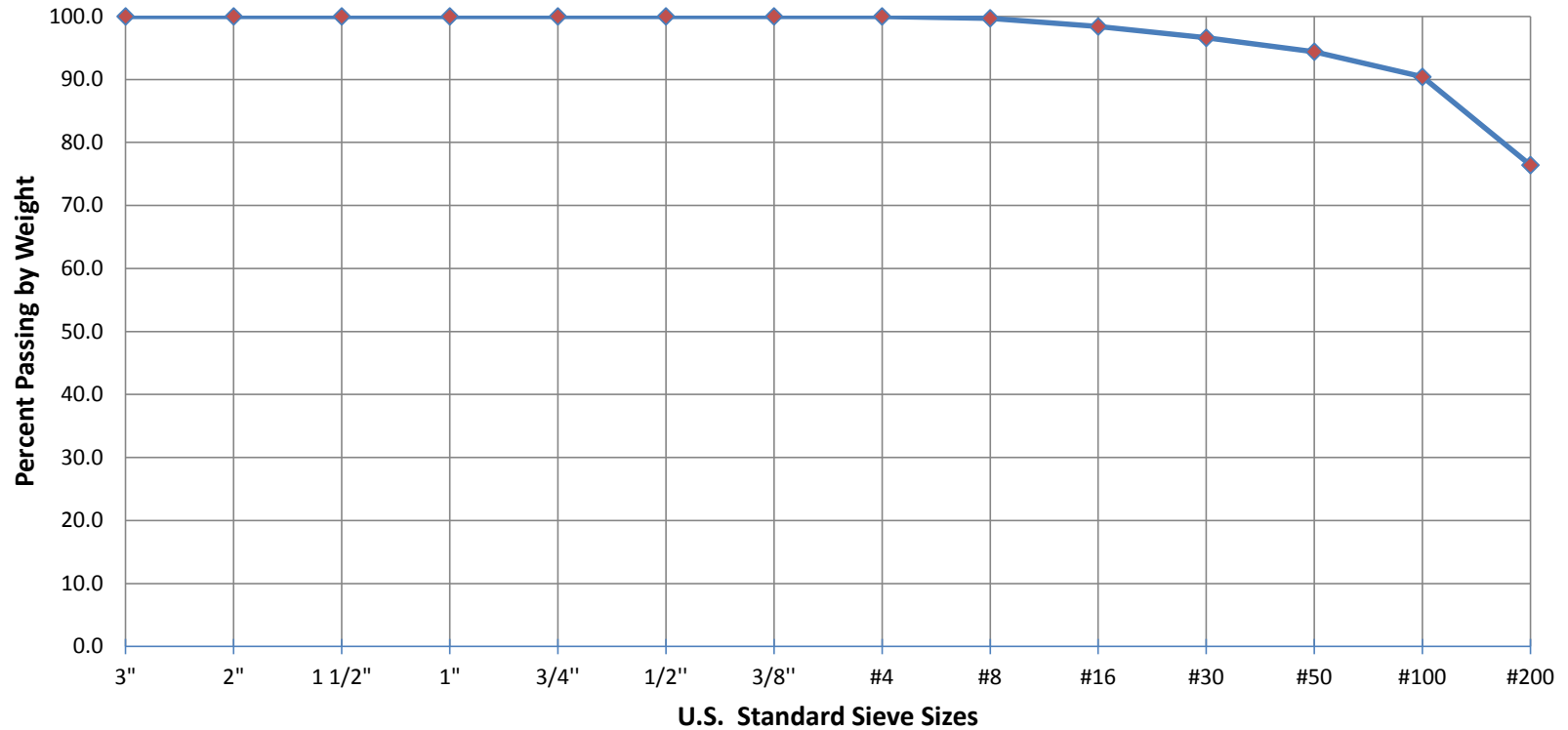
Date: 12/20/2011

Date: 12/20/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	23.6	76.4

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/20/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-620		

Sieve Analysis Test Report

Client: ESS
 Project: 1112281
 Client Sample I.D. #: 1112281-12
 Soil Description: Sandy Material

Date Recieved: 12/16/2011
 Date Tested: 12/21/2011
 T.E.I. Project #: 74-11-0002-1
 T.E.I. Sample/Report #: 11-S-621
 Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	656.4
Original Dry Mass (D):	288.0
Moisture Loss (W - D):	368.4
% Moisture (100 x (W - D) / D):	127.9

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	250.0
Mass of fines lost by wash (D - Dw):	38.0
% -75 µm Sieve (100 x (D - Dw)/D):	13.2

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.5		0.2		99.8		
#8		5.5		1.9		98.1		
#16		19.0		6.6		93.4		
#30		51.0		17.7		82.3		
#50		130.5		45.3		54.7		
#100		213.0		74.0		26.0		
#200		248.5		86.3		13.7		
Pan		250.0		86.8	Calculate Fineness Modulus?		No	▼
Sub Total		250.0						
Loss on Wash (D - Dw)		38.0						
Total		288.0						

Comments:

Cherif Laloui

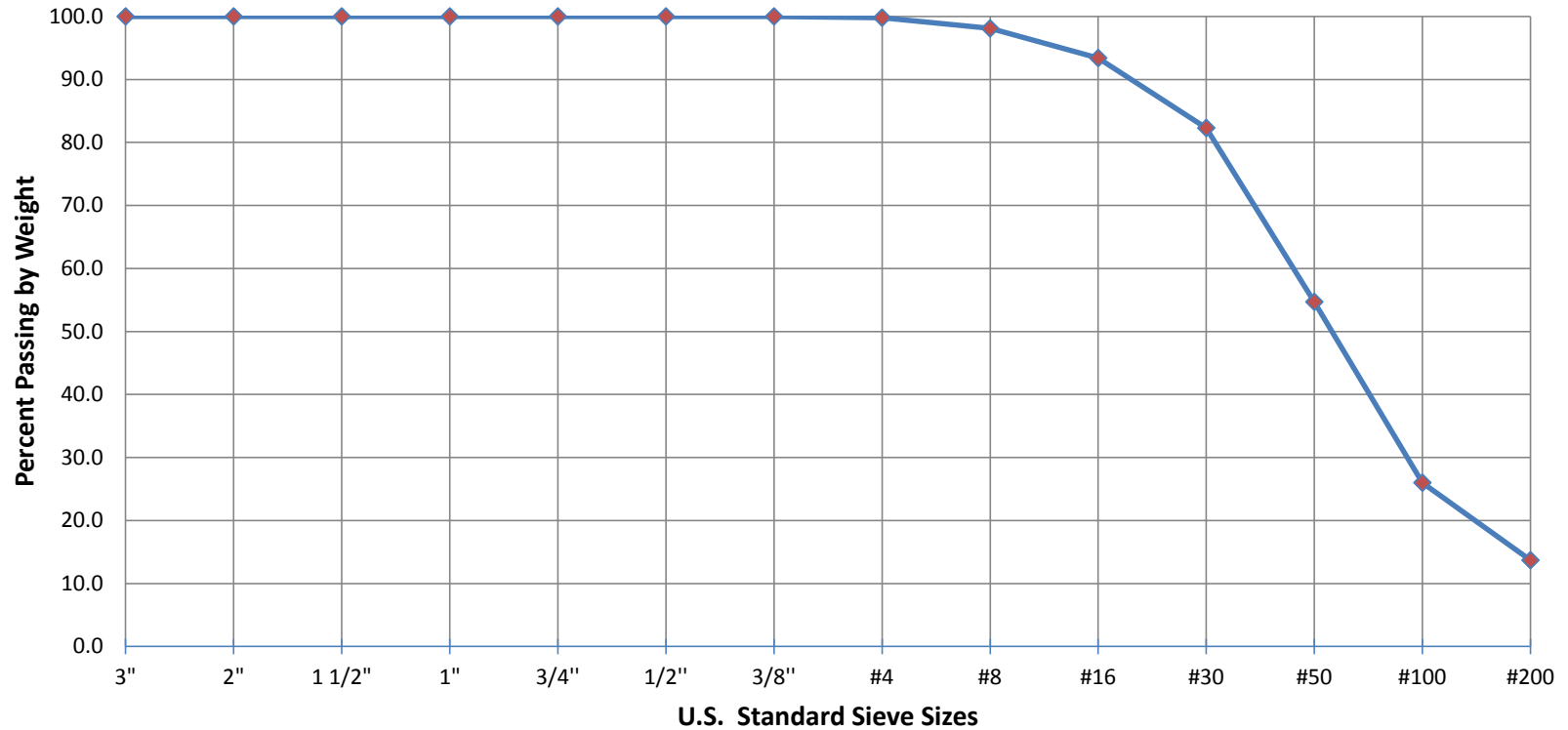
Henry J. Soares III

Tested By: Cherif Laloui	Reviewed By: Henry J. Soares III, P.E. Senior Engineer
Date: 12/21/2011	Date: 12/21/2011

Results Within Specification Limits:

Results Outside Specification Limits:

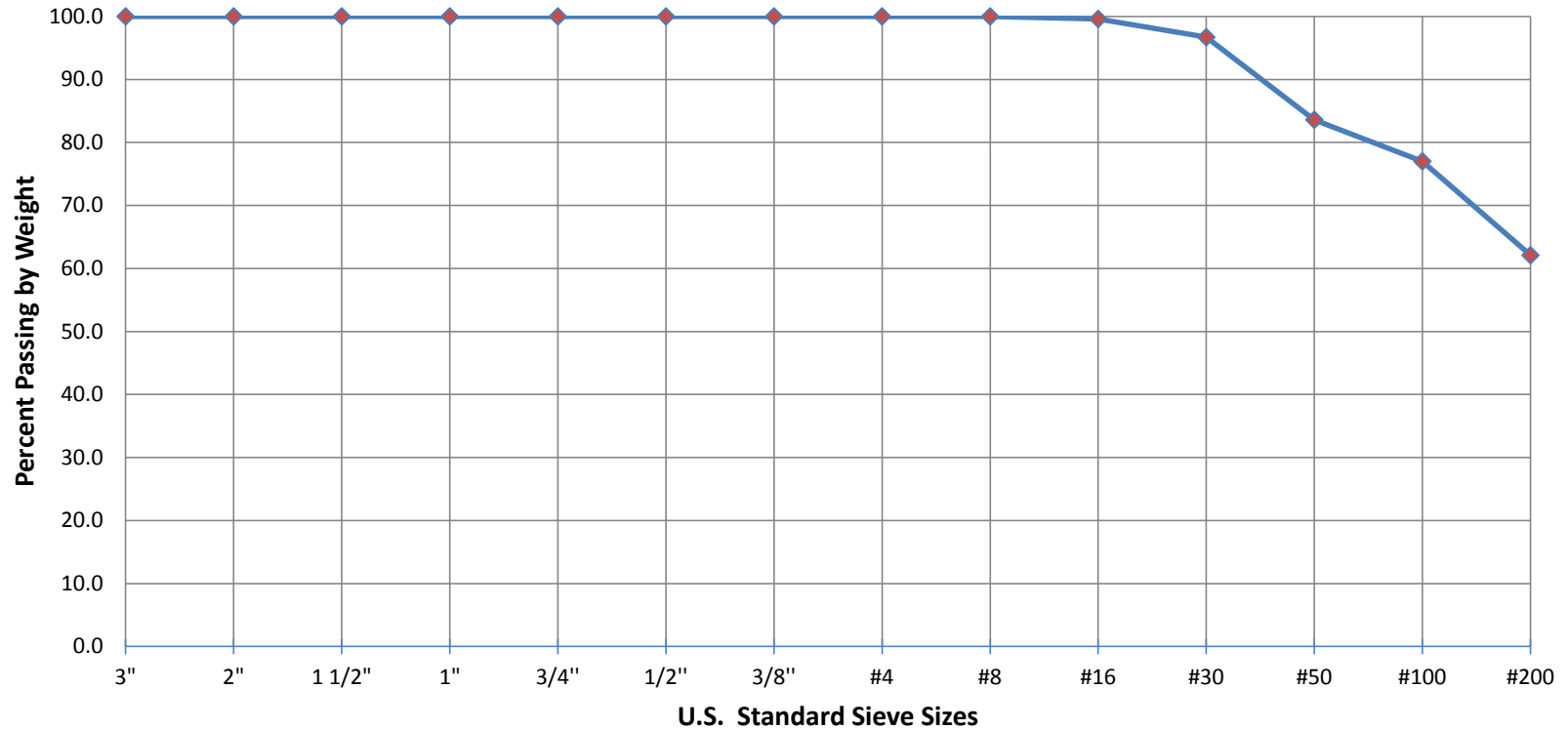
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.2	86.1	13.7

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/21/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-621		

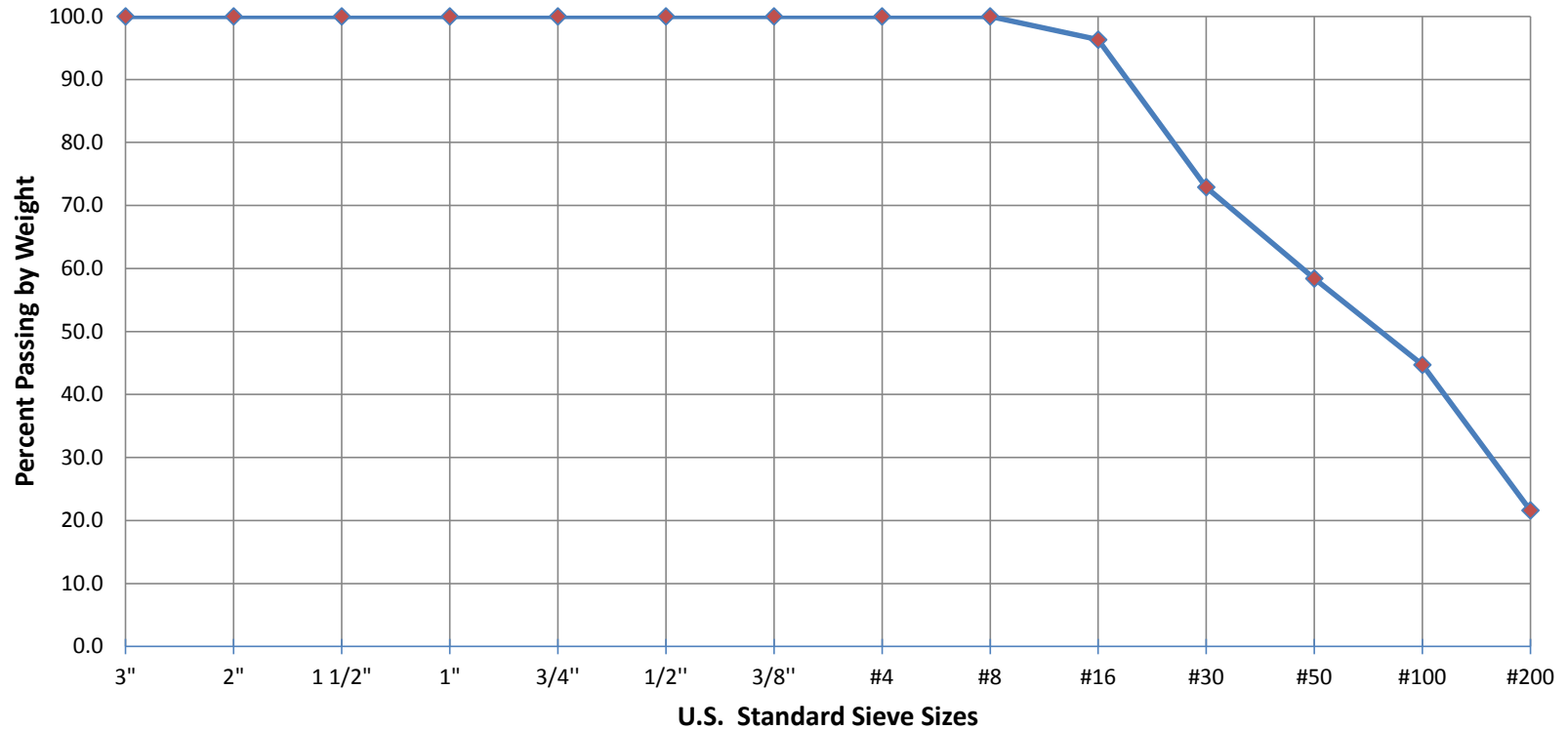
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	37.9	62.1

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/21/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-622		

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	78.4	21.6

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/21/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-623		

Sieve Analysis Test Report

Client: ESS
 Project: 1112281
 Client Sample I.D. #: 1112281-15
 Soil Description: Sandy Material

Date Recieved: 12/16/2011
 Date Tested: 12/21/2011
 T.E.I. Project #: 74-11-0002-1
 T.E.I. Sample/Report #: 11-S-624
 Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	556.5
Original Dry Mass (D):	257.5
Moisture Loss (W - D):	299.0
% Moisture (100 x (W - D) / D):	116.1

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	242.0
Mass of fines lost by wash (D - Dw):	15.5
% -75 µm Sieve (100 x (D - Dw)/D):	6.0

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		5.0		1.9		98.1		
#8		21.5		8.3		91.7		
#16		46.5		18.1		81.9		
#30		91.5		35.5		64.5		
#50		164.0		63.7		36.3		
#100		216.0		83.9		16.1		
#200		240.5		93.4		6.6		
Pan		242.0		94.0	Calculate Fineness Modulus?		No	▼
Sub Total		242.0						
Loss on Wash (D - Dw)		15.5						
Total		257.5						

Comments:

Cherif Laloui

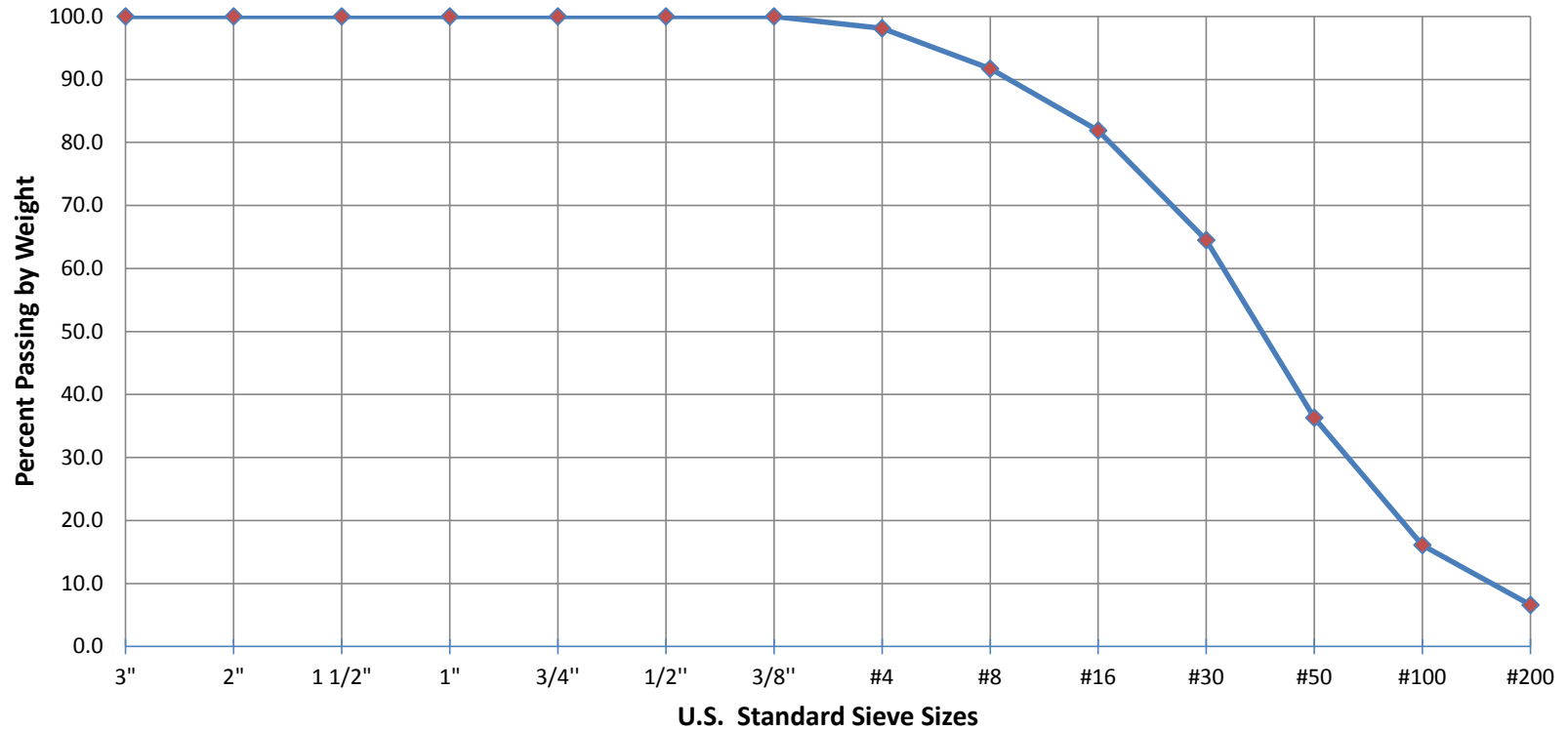
Henry J. Soares III

Tested By: Cherif Laloui	Reviewed By: Henry J. Soares III, P.E. Senior Engineer
Date: 12/21/2011	Date: 12/21/2011

Results Within Specification Limits:

Results Outside Specification Limits:

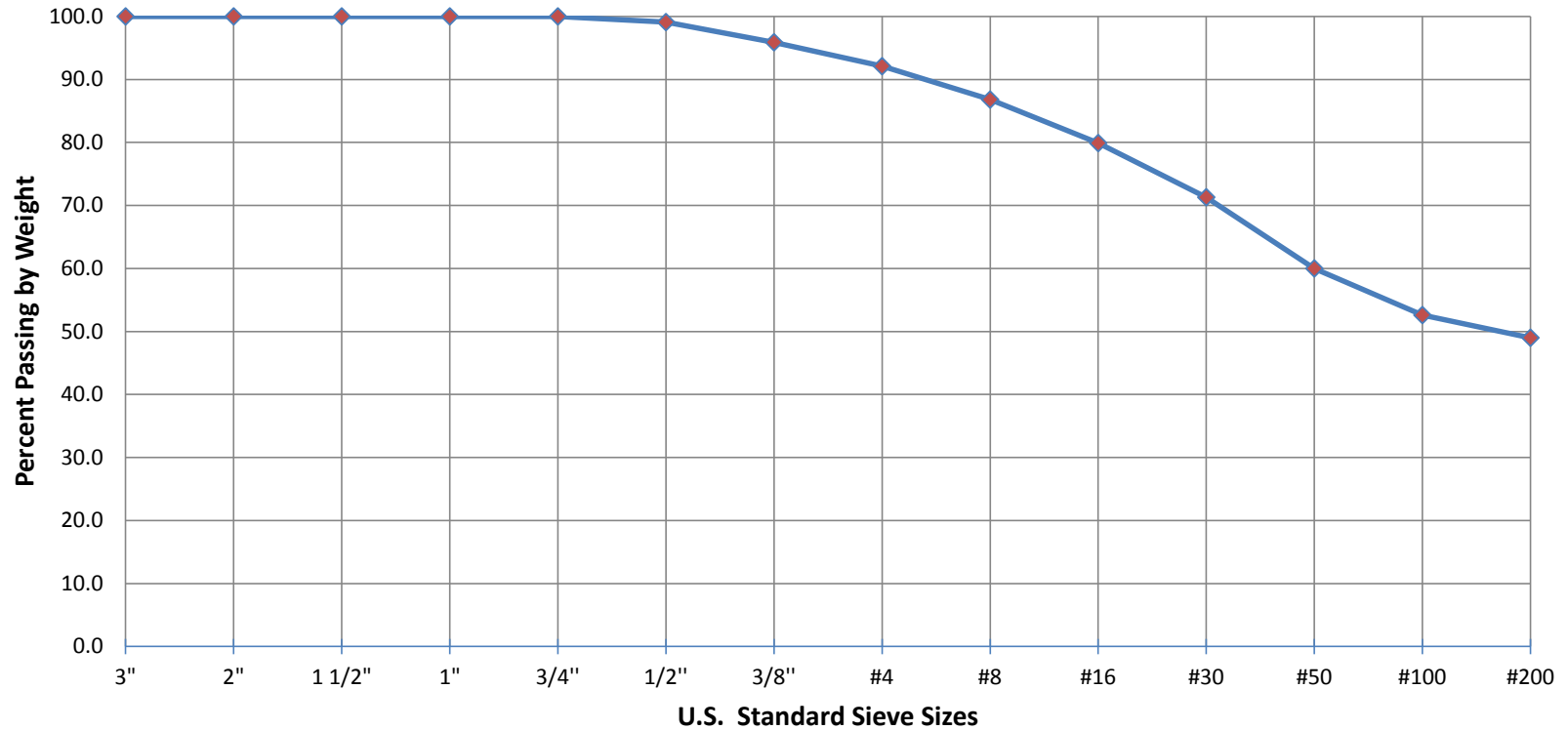
Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
1.9	91.5	6.6

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/21/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-624		

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
7.9	43.1	49.0

Client: ESS	Date Recieved: 12/16/2011	Soil Description: Sandy Material
Project: 1112281.00	Date Tested: 12/21/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-625		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-38246-1
Client Project/Site: 1112281

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk



Authorized for release by:
12/26/2011 9:39:07 AM

Joe Chimi
Report Production Representative
joe.chimi@testamericainc.com

Designee for
Becky Mason
Project Manager II
becky.mason@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Job ID: 360-38246-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/17/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

TOTAL ORGANIC CARBON

Samples 1112281-01 (360-38246-1), 1112281-02 (360-38246-2), 1112281-03 (360-38246-3), 1112281-04 (360-38246-4), 1112281-05 (360-38246-5), 1112281-06 (360-38246-6), 1112281-07 (360-38246-7), 1112281-08 (360-38246-8), 1112281-09 (360-38246-9), 1112281-10 (360-38246-10), 1112281-11 (360-38246-11), 1112281-12 (360-38246-12), 1112281-13 (360-38246-13), 1112281-14 (360-38246-14), 1112281-15 (360-38246-15) and 1112281-16 (360-38246-16) were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 12/21/2011, 12/22/2011 and 12/23/2011.

Total Organic Carbon exceeded the rpd limit for the duplicate of sample 1112281-03 (360-38246-3). Refer to the QC report for details.

No other difficulties were encountered during the TOC analyses.

All other quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-01

Lab Sample ID: 360-38246-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	22000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-02

Lab Sample ID: 360-38246-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	110000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-03

Lab Sample ID: 360-38246-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	14000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-04

Lab Sample ID: 360-38246-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	5400		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-05

Lab Sample ID: 360-38246-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	3800		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-06

Lab Sample ID: 360-38246-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	4300		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-07

Lab Sample ID: 360-38246-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	1200		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-08

Lab Sample ID: 360-38246-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	37000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-09

Lab Sample ID: 360-38246-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	130000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-10

Lab Sample ID: 360-38246-10

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	49000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-11

Lab Sample ID: 360-38246-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	140000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-12

Lab Sample ID: 360-38246-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	140000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Detection Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-12 (Continued)

Lab Sample ID: 360-38246-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	39000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-13

Lab Sample ID: 360-38246-13

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	110000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-14

Lab Sample ID: 360-38246-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	84000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-15

Lab Sample ID: 360-38246-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	19000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112281-16

Lab Sample ID: 360-38246-16

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	24000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Method Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL WFD

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

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Sample Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-38246-1	1112281-01	Solid	12/13/11 10:30	12/17/11 11:00
360-38246-2	1112281-02	Solid	12/13/11 11:50	12/17/11 11:00
360-38246-3	1112281-03	Solid	12/13/11 12:10	12/17/11 11:00
360-38246-4	1112281-04	Solid	12/13/11 15:20	12/17/11 11:00
360-38246-5	1112281-05	Solid	12/13/11 15:30	12/17/11 11:00
360-38246-6	1112281-06	Solid	12/14/11 10:00	12/17/11 11:00
360-38246-7	1112281-07	Solid	12/14/11 10:15	12/17/11 11:00
360-38246-8	1112281-08	Solid	12/14/11 11:40	12/17/11 11:00
360-38246-9	1112281-09	Solid	12/14/11 11:50	12/17/11 11:00
360-38246-10	1112281-10	Solid	12/14/11 11:40	12/17/11 11:00
360-38246-11	1112281-11	Solid	12/14/11 12:10	12/17/11 11:00
360-38246-12	1112281-12	Solid	12/14/11 12:20	12/17/11 11:00
360-38246-13	1112281-13	Solid	12/14/11 14:15	12/17/11 11:00
360-38246-14	1112281-14	Solid	12/14/11 14:30	12/17/11 11:00
360-38246-15	1112281-15	Solid	12/14/11 15:20	12/17/11 11:00
360-38246-16	1112281-16	Solid	12/14/11 15:20	12/17/11 11:00

Client Sample Results

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

General Chemistry

Client Sample ID: 1112281-01
Date Collected: 12/13/11 10:30
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-1
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	22000		1000		mg/Kg			12/21/11 16:06	1

Client Sample ID: 1112281-02
Date Collected: 12/13/11 11:50
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-2
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	110000		1000		mg/Kg			12/22/11 08:44	1

Client Sample ID: 1112281-03
Date Collected: 12/13/11 12:10
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-3
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	14000		1000		mg/Kg			12/22/11 09:15	1

Client Sample ID: 1112281-04
Date Collected: 12/13/11 15:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-4
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	5400		1000		mg/Kg			12/22/11 11:16	1

Client Sample ID: 1112281-05
Date Collected: 12/13/11 15:30
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-5
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3800		1000		mg/Kg			12/22/11 11:44	1

Client Sample ID: 1112281-06
Date Collected: 12/14/11 10:00
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-6
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	4300		1000		mg/Kg			12/22/11 12:16	1

Client Sample ID: 1112281-07
Date Collected: 12/14/11 10:15
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-7
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	1200		1000		mg/Kg			12/22/11 12:43	1

Client Sample Results

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

General Chemistry

Client Sample ID: 1112281-08
Date Collected: 12/14/11 11:40
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-8
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	37000		1000		mg/Kg			12/22/11 13:09	1

Client Sample ID: 1112281-09
Date Collected: 12/14/11 11:50
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-9
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	130000		1000		mg/Kg			12/22/11 13:37	1

Client Sample ID: 1112281-10
Date Collected: 12/14/11 11:40
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-10
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	49000		1000		mg/Kg			12/22/11 14:39	1

Client Sample ID: 1112281-11
Date Collected: 12/14/11 12:10
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-11
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	140000		1000		mg/Kg			12/22/11 15:24	1

Client Sample ID: 1112281-12
Date Collected: 12/14/11 12:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-12
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	39000		1000		mg/Kg			12/23/11 08:54	1

Client Sample ID: 1112281-13
Date Collected: 12/14/11 14:15
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-13
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	110000		1000		mg/Kg			12/23/11 09:21	1

Client Sample ID: 1112281-14
Date Collected: 12/14/11 14:30
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-14
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	84000		1000		mg/Kg			12/23/11 10:10	1

Client Sample ID: 1112281-15
Date Collected: 12/14/11 15:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-15
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19000		1000		mg/Kg			12/23/11 10:54	1

Client Sample Results

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-16
Date Collected: 12/14/11 15:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38246-16
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	24000		1000		mg/Kg			12/23/11 11:21	1

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Definitions/Glossary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

General Chemistry

Analysis Batch: 85237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38246-1	1112281-01	Total/NA	Solid	Lloyd Kahn	
360-38246-2	1112281-02	Total/NA	Solid	Lloyd Kahn	
360-38246-3	1112281-03	Total/NA	Solid	Lloyd Kahn	
360-38246-3 DU	1112281-03	Total/NA	Solid	Lloyd Kahn	
360-38246-4	1112281-04	Total/NA	Solid	Lloyd Kahn	
360-38246-5	1112281-05	Total/NA	Solid	Lloyd Kahn	
360-38246-6	1112281-06	Total/NA	Solid	Lloyd Kahn	
360-38246-7	1112281-07	Total/NA	Solid	Lloyd Kahn	
360-38246-8	1112281-08	Total/NA	Solid	Lloyd Kahn	
360-38246-9	1112281-09	Total/NA	Solid	Lloyd Kahn	
360-38246-10	1112281-10	Total/NA	Solid	Lloyd Kahn	
360-38246-11	1112281-11	Total/NA	Solid	Lloyd Kahn	
360-38246-12	1112281-12	Total/NA	Solid	Lloyd Kahn	
360-38246-13	1112281-13	Total/NA	Solid	Lloyd Kahn	
360-38246-14	1112281-14	Total/NA	Solid	Lloyd Kahn	
360-38246-15	1112281-15	Total/NA	Solid	Lloyd Kahn	
360-38246-16	1112281-16	Total/NA	Solid	Lloyd Kahn	
LCS 360-85237/4	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
MB 360-85237/3	Method Blank	Total/NA	Solid	Lloyd Kahn	

QC Sample Results

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 360-85237/3

Matrix: Solid

Analysis Batch: 85237

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000		mg/Kg			12/21/11 14:57	1

Lab Sample ID: LCS 360-85237/4

Matrix: Solid

Analysis Batch: 85237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	8600	8750		mg/Kg		102	80 - 120

Lab Sample ID: 360-38246-3 DU

Matrix: Solid

Analysis Batch: 85237

Client Sample ID: 1112281-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	14000		19100	F	mg/Kg		33	20.0

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-01

Lab Sample ID: 360-38246-1

Date Collected: 12/13/11 10:30

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/21/11 16:06	RWE	TAL WFD

Client Sample ID: 1112281-02

Lab Sample ID: 360-38246-2

Date Collected: 12/13/11 11:50

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 08:44	RWE	TAL WFD

Client Sample ID: 1112281-03

Lab Sample ID: 360-38246-3

Date Collected: 12/13/11 12:10

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 09:15	RWE	TAL WFD

Client Sample ID: 1112281-04

Lab Sample ID: 360-38246-4

Date Collected: 12/13/11 15:20

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 11:16	RWE	TAL WFD

Client Sample ID: 1112281-05

Lab Sample ID: 360-38246-5

Date Collected: 12/13/11 15:30

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 11:44	RWE	TAL WFD

Client Sample ID: 1112281-06

Lab Sample ID: 360-38246-6

Date Collected: 12/14/11 10:00

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 12:16	RWE	TAL WFD

Client Sample ID: 1112281-07

Lab Sample ID: 360-38246-7

Date Collected: 12/14/11 10:15

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 12:43	RWE	TAL WFD

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-08

Lab Sample ID: 360-38246-8

Date Collected: 12/14/11 11:40

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 13:09	RWE	TAL WFD

Client Sample ID: 1112281-09

Lab Sample ID: 360-38246-9

Date Collected: 12/14/11 11:50

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 13:37	RWE	TAL WFD

Client Sample ID: 1112281-10

Lab Sample ID: 360-38246-10

Date Collected: 12/14/11 11:40

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 14:39	RWE	TAL WFD

Client Sample ID: 1112281-11

Lab Sample ID: 360-38246-11

Date Collected: 12/14/11 12:10

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/22/11 15:24	RWE	TAL WFD

Client Sample ID: 1112281-12

Lab Sample ID: 360-38246-12

Date Collected: 12/14/11 12:20

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/23/11 08:54	RWE	TAL WFD

Client Sample ID: 1112281-13

Lab Sample ID: 360-38246-13

Date Collected: 12/14/11 14:15

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/23/11 09:21	RWE	TAL WFD

Client Sample ID: 1112281-14

Lab Sample ID: 360-38246-14

Date Collected: 12/14/11 14:30

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/23/11 10:10	RWE	TAL WFD

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Client Sample ID: 1112281-15

Lab Sample ID: 360-38246-15

Date Collected: 12/14/11 15:20

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/23/11 10:54	RWE	TAL WFD

Client Sample ID: 1112281-16

Lab Sample ID: 360-38246-16

Date Collected: 12/14/11 15:20

Matrix: Solid

Date Received: 12/17/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85237	12/23/11 11:21	RWE	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ESS Laboratory
Project/Site: 1112281

TestAmerica Job ID: 360-38246-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

- 1
- 2
- 3
- 4
- 5
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- 10
- 11
- 12
- 13
- 14

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 Cl F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli		ambient/ source	
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 360-38246-1

Login Number: 38246

List Number: 1

Creator: Ard, Vanessa L

List Source: TestAmerica Westfield

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report Prepared for:

Elizabeth Ouk
ESS Laboratory
185 Frances Avenue
Cranston RI 02910

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

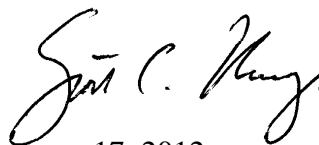
Pace Project #: 10179266
Sample Receipt Date: 12/23/2011
Client Project #: 1112281
Client Sub PO #: 1112281
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



January 17, 2012

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

January 17, 2012



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on seven samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 37-90%. Except for two low values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDF congeners; the affected values were flagged "P" where polychlorinated diphenyl ethers were present. Values above the calibration range were flagged "E" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits. These results indicate that the sample processing steps did not significantly impact the results reported for the field samples.

Laboratory spike samples were also prepared using clean sand that had been fortified with native standard materials. Recoveries of the native compounds ranged from 86-129%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE)	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP)	E87605	Ohio VAP	CL101 9507
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900015	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Report No.....10179266

Appendix A

Sample Management

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: Standard Other
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other
 Is this project for any of the following: USACE Other
 MA-MCP Navy
 Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB PROJECT ID: 1112281
 Write Required Analysis: 10179266

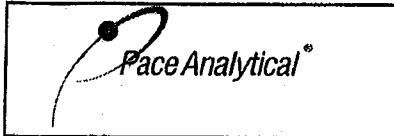
Project # _____ Project Name (20 Char. or less) _____
 Address _____ PO# 112281
 City _____ State _____ Zip _____
 Telephone # _____ Fax # _____
 Email Address _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
01	12/13/11	1520	X	S		112281-04	1	1	
02	12/14/11	1000				-06		6	by 8290
03		1140				-08			Dioxin + furans
04		1140				-10			
05		1210				-11			
06		1415				-13			
07	12/14/11	1520	X	S		112281-15	1	1	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes ___ No ___ Internal Use Only: Yes ___ No ___
 Seals Intact: ___ Yes ___ No NA: [] Pickup
 Cooler Temp: 2.7c
 Preservation Code: 1- NP; 2- HCl; 3- H₂SO₄; 4- HNO₃; 5- NaOH; 6- MeOH; 7- Asorbic Acid; 8- ZnAct; 9-
 Sampled by: _____
 Comments: * Please return cooler

Relinquished by: (Signature) <u>[Signature]</u>	Date/Time: <u>12/14/11 16:00</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time: _____
Relinquished by: (Signature) _____	Date/Time: _____	Received by: (Signature) _____	Date/Time: _____

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Please fax all changes to Chain of Custody in writing.
 1 (White) Lab Copy 2 (Yellow) Client Receipt



Document Name:
Sample Condition Upon Receipt Form
 Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition
 Upon Receipt

Client Name: ESS Lab

Project # 10179266

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 120374970146247421

Optional:
 Proj. Due/Date:
 Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____ Temp Blank: Yes _____ No

Thermometer Used 80344042 or 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.7 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12-23-11 MB

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: 12/23/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-04		
Lab Sample ID	10179266001		
Filename	F120113B_11		
Injected By	BAL		
Total Amount Extracted	13.0 g	Matrix	Solid
% Moisture	17.4	Dilution	NA
Dry Weight Extracted	10.7 g	Collected	12/13/2011 15:20
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 22:18

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	62
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	63
				1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	67
				1,2,3,4,7,8-HxCDF-13C	2.00	60
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	54
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-06		
Lab Sample ID	10179266002		
Filename	F120113B_12		
Injected By	BAL		
Total Amount Extracted	13.1 g	Matrix	Solid
% Moisture	16.3	Dilution	NA
Dry Weight Extracted	11.0 g	Collected	12/14/2011 10:00
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 23:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	65
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	65
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	58
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	65
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	69
				1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	52
				1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-08		
Lab Sample ID	10179266003		
Filename	F120114B_11		
Injected By	BAL		
Total Amount Extracted	22.4 g	Matrix	Solid
% Moisture	54.0	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/14/2011 11:40
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 00:49

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.1	---	1.0	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	130.0	---	1.0	2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	2.6	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	---	130	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	9.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	260.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	54
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	5.8	---	5.0	OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	5.6	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	140.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	7.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	13.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 6.4 ng/Kg		
Total HpCDF	21.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	14.0	---	5.0			
Total HpCDD	28.0	---	5.0			
OCDF	14.0	---	10.0			
OCDD	100.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-10			
Lab Sample ID	10179266004			
Filename	F120114B_12			
Injected By	BAL			
Total Amount Extracted	26.2 g	Matrix	Solid	
% Moisture	61.0	Dilution	NA	
Dry Weight Extracted	10.2 g	Collected	12/14/2011 11:40	
ICAL ID	F110926	Received	12/23/2011 09:53	
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 01:32	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	6.8	---	1.0	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	230.0	---	1.0	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	7.8	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	---	55	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	16.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	570.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	6.7	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	6.8	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	10.0	---	5.0	OCDD-13C	4.00	51
2,3,4,6,7,8-HxCDF	9.8	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	280.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	20.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	24.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 12 ng/Kg		
Total HpCDF	38.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	23.0	---	5.0			
Total HpCDD	47.0	---	5.0			
OCDF	29.0	---	10.0			
OCDD	170.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-11			
Lab Sample ID	10179266005			
Filename	F120114B_13			
Injected By	BAL			
Total Amount Extracted	52.0 g	Matrix	Solid	
% Moisture	79.5	Dilution	NA	
Dry Weight Extracted	10.7 g	Collected	12/14/2011 12:10	
ICAL ID	F110926	Received	12/23/2011 09:53	
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 02:15	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	54	---	1.0		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	2100	---	1.0	E	2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	10	---	1.0		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	110	---	1.0		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	---	150	5.0	P	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	110	---	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	7500	---	5.0	E	1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	20	---	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	230	---	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	---	200	5.0	P	1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	150	---	5.0		OCDD-13C	4.00	37 R
2,3,4,6,7,8-HxCDF	110	---	5.0				
1,2,3,7,8,9-HxCDF	13	---	5.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3800	---	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	10	---	5.0		2,3,7,8-TCDD-37Cl4	0.20	120
1,2,3,6,7,8-HxCDD	33	---	5.0				
1,2,3,7,8,9-HxCDD	21	---	5.0				
Total HxCDD	420	---	5.0				
1,2,3,4,6,7,8-HpCDF	180	---	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	23	---	5.0		Equivalence: 120 ng/Kg		
Total HpCDF	450	---	5.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	300	---	5.0				
Total HpCDD	710	---	5.0				
OCDF	140	---	10.0				
OCDD	2100	---	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
R = Recovery outside target range
P = PCDE Interference
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-13			
Lab Sample ID	10179266006			
Filename	F120114B_14			
Injected By	BAL			
Total Amount Extracted	29.2 g	Matrix	Solid	
% Moisture	82.7	Dilution	NA	
Dry Weight Extracted	5.05 g	Collected	12/14/2011 14:15	
ICAL ID	F110926	Received	12/23/2011 09:53	
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 02:59	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	120.0	---	2.6	A	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	1900.0	---	2.6		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	6.0	---	2.7	A	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	53.0	---	2.7		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	74
1,2,3,7,8-PeCDF	---	110	5.0	P	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	140.0	---	5.0		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	5400.0	---	5.0		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	22.0	---	5.0		1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	230.0	---	5.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	70.0	---	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	---	220	5.0	P	OCDD-13C	4.00	37 R
2,3,4,6,7,8-HxCDF	96.0	---	5.0				
1,2,3,7,8,9-HxCDF	---	44	5.0	P	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3000.0	---	5.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	14.0	---	5.0		2,3,7,8-TCDD-37Cl4	0.20	102
1,2,3,6,7,8-HxCDD	44.0	---	5.0				
1,2,3,7,8,9-HxCDD	31.0	---	5.0				
Total HxCDD	560.0	---	5.0				
1,2,3,4,6,7,8-HpCDF	280.0	---	5.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	24.0	---	5.0		Equivalence: 140 ng/Kg		
Total HpCDF	560.0	---	5.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	590.0	---	5.0				
Total HpCDD	1400.0	---	5.0				
OCDF	270.0	---	10.0				
OCDD	4500.0	---	10.0				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
A = Reporting Limit based on signal to noise
R = Recovery outside target range
P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112281-15		
Lab Sample ID	10179266007		
Filename	F120114B_15		
Injected By	BAL		
Total Amount Extracted	20.4 g	Matrix	Solid
% Moisture	50.2	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/14/2011 15:20
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 03:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.9	---	1.0	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	43.0	---	1.0	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	1.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	---	29	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	5.7	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	98.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	56
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	58.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	7.5	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 3.5 ng/Kg		
Total HpCDF	14.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	14.0	---	5.0			
Total HpCDD	31.0	---	5.0			
OCDF	ND	---	10.0			
OCDD	120.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31300	Matrix	Solid
Filename	F120113B_06	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 18:41
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31298	Matrix	Solid
Filename	F120114B_07	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/14/2012 21:58
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31301	Matrix	Solid
Filename	F120113B_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 15:06
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL
Method Blank ID	BLANK-31300		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	113	2,3,7,8-TCDF-13C	2.0	78
Total TCDF				2,3,7,8-TCDD-13C	2.0	76
				1,2,3,7,8-PeCDF-13C	2.0	84
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	87
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	88
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.2	115	1,2,3,6,7,8-HxCDF-13C	2.0	81
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	87
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	113
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	62
				1,2,3,4,7,8,9-HpCDF-13C	2.0	70
1,2,3,4,7,8-HxCDF	1.0	1.1	114	1,2,3,4,6,7,8-HpCDD-13C	2.0	66
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	68
2,3,4,6,7,8-HxCDF	1.0	1.1	114			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.2	119	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.1	106			
1,2,3,7,8,9-HxCDD	1.0	0.86	86			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.2	117			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.97	97			
Total HpCDD						
OCDF	2.0	2.6	129			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31299	Matrix	Solid
Filename	F120114B_16	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/15/2012 04:25
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL
Method Blank ID	BLANK-31298		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	73
Total TCDF				2,3,7,8-TCDD-13C	2.0	81
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	91
				1,2,3,4,7,8-HxCDF-13C	2.0	70
1,2,3,7,8-PeCDF	1.0	1.1	112	1,2,3,6,7,8-HxCDF-13C	2.0	78
2,3,4,7,8-PeCDF	1.0	1.1	109	2,3,4,6,7,8-HxCDF-13C	2.0	76
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	74
				1,2,3,4,7,8-HxCDD-13C	2.0	78
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	67
				1,2,3,4,7,8,9-HpCDF-13C	2.0	61
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	70
1,2,3,6,7,8-HxCDF	1.0	1.1	112	OCDD-13C	4.0	60
2,3,4,6,7,8-HxCDF	1.0	1.1	113			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	109	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.0	1.1	114			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109			
1,2,3,4,7,8,9-HpCDF	1.0	1.1	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.98	98			
Total HpCDD						
OCDF	2.0	2.2	108			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120281
Date Project Due: 12/21/11
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No

Air No.:

2. Were Custody Seals Present? No

3. Were Custody Seals Intact? N/A

4. Is Radiation count < 100 CPM? Yes

5. Is a cooler present? Yes

Cooler Temp:

Iced With: **Icepacks**

6. Was COC included with samples? Yes

7. Was COC signed and dated by client? Yes

8. Does the COC match the sample Yes

9. Is COC complete and correct? Yes

10. Are the samples properly preserved? Yes

11. Proper sample containers used? Yes

12. Any air bubbles in the VOA vials? N/A

13. Holding times exceeded? No

14. Sufficient sample volumes? Yes

15. Any Subcontracting needed? * Yes

16. Are ESS labels on correct containers? Yes|No

17. Were samples received intact? Yes|No

ESS Sample IDs: 0-16

Sub Lab: TA, GTS, Pace

Analysis: TC, Grain Size, Dioxin

TAT: std

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	Plastic Bag	1	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	Plastic Bag	1	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	Plastic Bag	1	NP
4	Yes	4 oz Soil Jar	3	NP
4	Yes	8 oz Soil Jar	1	NP
4	Yes	Plastic Bag	1	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	Plastic Bag	1	NP
6	Yes	4 oz Soil Jar	3	NP
6	Yes	8 oz Soil Jar	1	NP
6	Yes	Plastic Bag	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	Plastic Bag	1	NP
8	Yes	4 oz Soil Jar	3	NP
8	Yes	8 oz Soil Jar	1	NP
8	Yes	Plastic Bag	1	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	Plastic Bag	1	NP
10	Yes	4 oz Soil Jar	3	NP
10	Yes	8 oz Soil Jar	1	NP
10	Yes	Plastic Bag	1	NP
11	Yes	4 oz Soil Jar	3	NP

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental

ESS Project ID: 11120281

11	Yes	8 oz Soil Jar	1	NP
11	Yes	Plastic Bag	1	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	Plastic Bag	1	NP
13	Yes	4 oz Soil Jar	3	NP
13	Yes	8 oz Soil Jar	1	NP
13	Yes	Plastic Bag	1	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	Plastic Bag	1	NP
15	Yes	4 oz Soil Jar	3	NP
15	Yes	8 oz Soil Jar	1	NP
15	Yes	Plastic Bag	1	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	Plastic Bag	1	NP

Completed By: BC

Date/Time: 12/15/11

Reviewed By: [Signature]

Date/Time: 12/15/11

CHAIN OF CUSTODY

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

Turn Time: Standard Other
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other
 Is this project for any of the following: USACE Other
 MA-MCP Navy

ESS LAB PROJECT ID: _____

Project # _____ Project Name (20 Char. or less) _____

Contact Person: Ess Labs Address: _____

City: LA OAK State: _____ Zip: 11228 PO# _____

Telephone # _____ Fax # _____ Email Address: _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/13/11	1030	X	S		11228-01		1	P	
02		1150				-02				
03		1210				-03				
04		1520				-04				
05	12/13/11	1530				-05				
06	12/14/11	1000				-06				
07		1015				-07				
08		1140				-08				
09		1150				-09				
10	12/14/11	1140	X	S		11228-10		1	PX	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water G-W-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No ___ Internal Use Only: Yes ___ No ___

Seals Intact: Yes ___ No ___ NA: ___ [] Pickup

Cooler Temp: ___ [] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: _____

Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>[Signature]</u>	12/15/11 1644	<u>[Signature]</u>	12/15/11 1618
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

ESS Laboratory

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CHAIN OF CUSTODY

Page 2 of 2

Turn Time: Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
11	12/14/11	1210	X	S		11228-11	1	1	8	
12		1220				-12				
13		1415				-13				
14		1430				-14				
15		1520				-15				
16	12/14/11	1520	X	S		11228-16	1	1	P X	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes ___ No ___ Internal Use Only
 Seals Intact: Yes ___ No NA: ___ [] Pickup
 Cooler Temp: _____ [] Technicians _____
 Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____
 Sampled by: _____
 Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12-15-11 16:46	<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>	

ESS Laboratory

Division of Thielsch Engineering, Inc.
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 www.esslaboratory.com

Test America

CHAIN OF CUSTODY

360-38246 Page 1 of 2

Turn Time If faster than 5 days, prior approval by laboratory is required #		Reporting Limits Class B sw		ESS LAB PROJECT ID 112281	
State where samples were collected from: MA RI CT NH NJ NY ME Other		Electronic Deliverable Yes ___ No ___		Format: Excel ___ Access ___ PDF ___ Other ___	
Is this project for any of the following: MA-MCP Navy USACE Other		Project Name (20 Char. or less)		Write Required Analysis	
Project #		Address		Type of Containers	
City		State		Number of Containers	
Telephone #		Zip		Sample Identification (20 Char. or less)	
Fax #		PO#		Pres Code	
Email Address		Sample Identification (20 Char. or less)		Type of Containers	
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX
01	12/13/11	1030	XS	XS	XS
02		1130			
03		1210			
04		1520			
05	12/13/11	1530			
06	12/14/11	1000			
07		1015			
08		1140			
09		1150			
10	12/14/11	1140	XS	XS	XS

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only
 Seals Intact Yes ___ No NA: ___ [] Pickup
 Cooler Temp: 1.2°C 2.0°C

Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time
 Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time

Comments: Sent to Westfield office

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Please fax all changes to Chain of Custody in writing.
 425883854900
 1 (White) Lab Copy 2 (Yellow) Client Receipt
 12/26/2011

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Pace

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____ Navy Other _____ MA-MCP _____

Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB PROJECT ID: 112281

ESS LAB Sample #	Date	Collection Time	COMP	GNAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/13/11	1520	X	S	112281-04	1	1	6	X	by 1290 Dixie + Filians
02	12/14/11	1000			-06					
03	11/40	1140			-08					
04	11/40	1140			-10					
05	12/10	1210			-11					
06	12/15	1415			-13					
07	12/14/11	1520	X	S	112281-15	1	1	6	X	

Container Type: P-Poly G-Class S-Sterile V-VOA Marrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ___ Yes ___ No ___ Internal Use Only: ___ Yes ___ No ___
 Seals Intact: ___ Yes ___ No NA: ___ [] Pickup
 Cooler Temp: _____ [] Technicians _____

Preservation Code: 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: _____

Comments: * Please return cooler

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/14/11 10:00		

ESS Laboratory
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 185 Frances Avenue, Cranston, RI 02910-2211
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CHAIN OF CUSTODY

Page 2 of 7
 11/15/11

Turn Time: Standard, Other
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA, RI, CT, NH, NJ, NY, ME, Other _____
 Is this project for any of the following: USACE, Navy, Other _____
 Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other EQ 15 EDD

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Dioxins/Furans	PR-13 Metals	ALS: SEM	TOC	80-15 SINK	70 Solids	Hardness	Diss. Organic	Total PR-13 Metals	D-SS PR-13 Metals	
11	12-14-11	12:10	X	S	S	SED-39-01	1	5	P/G	1	1	1	1	1	1					
12	12-14-11	12:20	X	S	S	SED-39-18	1	2	P/G											
13	12-14-11	14:15	X	S	S	SED-48-01	1	5	P/G	1	1	1	1	1	1					
14	12-14-11	14:30	X	S	S	SED-48-18	1	2	P/G											
15	12-14-11	15:20	X	S	S	SED-45-01	1	5	P/G	1	1	1	1	1	1					
16	12-14-11	15:20	X	S	S	SED-45-18	1	2	P/G											
17	12-13-11	1330	X	W	W	SW-38	214	4	P/G											
18	12-13-11	1400	X	W	W	SW-42	214	4	P/G											
19	12-14-11	1020	X	W	W	SW-36	214	4	P/G											
20	12-14-11	1100	X	W	W	SW-39	214	4	P/G											

Container Type: P-Poly Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No ___ Internal Use Only: Yes ___ No ___
 Seals Intact: ___ Yes ___ No NA: ___
 Cooler Temp: 2.0C [] Technicians: _____

Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by: Dave Chapman
 Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>[Signature]</u>	12-14-11 16:50	<u>[Signature]</u>	
<u>[Signature]</u>		<u>[Signature]</u>	



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
AMEC Environmental and Infrastructure
107 Audubon Road, Suite 301
Wakefield, MA 01880

Checked for Completeness
of Parameters ordered By:

[Signature]

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112282

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

[Signature]

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 1:30 pm, Jan 10, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Westfield, MA Dissolved Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

SAMPLE RECEIPT

The following samples were received on December 14, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112282-01	SW-38	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-02	SW-42	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-03	SW-36	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-04	SW-39	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-05	SW-48	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-06	SW-45	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112282-07	SW-36 Dup	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

PROJECT NARRATIVE

3005A/3020A/6000/7000 Dissolved Metals

CL11619-BSD2 **Blank Spike recovery is above upper control limit (B+).**
Antimony (128% @ 80-120%)

3005A/3020A/6000/7000 Total Metals

CL11619-BSD2 **Blank Spike recovery is above upper control limit (B+).**
Antimony (128% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-38
Date Sampled: 12/13/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:30	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 19:54	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 19:47	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 12:47	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:03	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-38
Date Sampled: 12/13/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 1:32	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:13	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:42	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 11:55	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:33	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-38
Date Sampled: 12/13/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-01
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.8 (1.0)	§			§	12/20/11 13:27	mg/L	CL12314
Hardness	60.7 (0.662)	6010B		1	SVD	12/17/11 2:33	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-42
Date Sampled: 12/13/11 14:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:35	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:00	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 19:49	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 12:52	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:07	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-42
Date Sampled: 12/13/11 14:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 1:38	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:18	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:44	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:01	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:37	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-42
Date Sampled: 12/13/11 14:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-02
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.0 (1.0)	§			§	12/20/11 14:42	mg/L	CL12314
Hardness	60.1 (0.662)	6010B		1	SVD	12/17/11 2:37	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:41	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:05	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 19:51	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 12:58	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:12	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 1:44	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:24	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:47	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:07	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/19/11 16:57	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-03
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.8 (1.0)	§			§	12/20/11 15:07	mg/L	CL12314
Hardness	67.2 (0.662)	6010B		1	SVD	12/19/11 16:57	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-39
Date Sampled: 12/14/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:47	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:11	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 19:54	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 13:04	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:16	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-39
Date Sampled: 12/14/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 1:49	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:29	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:49	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:12	50	25	CL11619
Zinc	0.026 (0.025)	6010B		1	SVD	12/19/11 17:10	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-39
Date Sampled: 12/14/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-04
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.7 (1.0)	§			§	12/20/11 15:32	mg/L	CL12314
Hardness	65.7 (0.662)	6010B		1	SVD	12/19/11 17:10	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-48
Date Sampled: 12/14/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-05
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:53	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:17	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 19:56	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 13:09	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:20	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-48
Date Sampled: 12/14/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-05
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 1:55	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:35	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:51	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:18	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/19/11 17:13	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-48
Date Sampled: 12/14/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-05
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.0 (1.0)	§			§	12/20/11 15:57	mg/L	CL12314
Hardness	65.5 (0.662)	6010B		1	SVD	12/19/11 17:13	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-45
Date Sampled: 12/14/11 14:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-06
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:58	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:22	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 20:03	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 13:15	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:24	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-45
Date Sampled: 12/14/11 14:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-06
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:18	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/30/11 15:41	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 17:59	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:24	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/19/11 17:17	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-45
Date Sampled: 12/14/11 14:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-06
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.8 (1.0)	§			§	12/20/11 16:23	mg/L	CL12314
Hardness	65.6 (0.662)	6010B		1	SVD	12/19/11 17:17	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36 Dup
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-07
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 3:04	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 20:28	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/15/11 20:06	20	40	CL11513
Nickel	ND (0.025)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619
Thallium	ND (0.0015)	7841		1	JP	12/29/11 13:20	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/17/11 2:29	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36 Dup
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-07
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 2:24	50	25	CL11619
Arsenic	ND (0.0025)	7060A		1	JP	12/28/11 19:48	50	25	CL11619
Beryllium	ND (0.0005)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Cadmium	ND (0.0025)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Chromium	ND (0.010)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Copper	ND (0.010)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Lead	ND (0.010)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 18:01	20	40	CL12717
Nickel	ND (0.025)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Selenium	ND (0.025)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Silver	ND (0.005)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619
Thallium	ND (0.0010)	7841		1	JP	12/29/11 12:29	50	25	CL11619
Zinc	ND (0.025)	6010B		1	SVD	12/19/11 17:22	50	25	CL11619



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-36 Dup
Date Sampled: 12/14/11 10:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112282
ESS Laboratory Sample ID: 1112282-07
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.6 (1.0)	§			§	12/20/11 16:48	mg/L	CL12314
Hardness	69.3 (0.662)	6010B		1	SVD	12/19/11 17:22	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/3020A/6000/7000 Dissolved Metals										
Batch CL11513 - 245.1/7470A										
Blank										
Mercury	ND	0.00050	mg/L							
LCS										
Mercury	0.00574	0.00050	mg/L	0.006000		96	80-120			
LCS Dup										
Mercury	0.00563	0.00050	mg/L	0.006000		94	80-120	2	20	
Batch CL11619 - 3005A										
Blank										
Antimony	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0015	mg/L							
Zinc	ND	0.025	mg/L							
LCS										
Beryllium	0.0254	0.0005	mg/L	0.02500		102	80-120			
Cadmium	0.124	0.0025	mg/L	0.1250		99	80-120			
Chromium	0.250	0.010	mg/L	0.2500		100	80-120			
Copper	0.255	0.010	mg/L	0.2500		102	80-120			
Lead	0.246	0.010	mg/L	0.2500		98	80-120			
Nickel	0.251	0.025	mg/L	0.2500		100	80-120			
Selenium	0.488	0.025	mg/L	0.5000		98	80-120			
Silver	0.128	0.005	mg/L	0.1250		102	80-120			
Zinc	0.243	0.025	mg/L	0.2500		97	80-120			
LCS										
Antimony	0.0120	0.0025	mg/L	0.01000		120	80-120			
Thallium	0.0095	0.0015	mg/L	0.01000		95	80-120			
LCS Dup										
Beryllium	0.0255	0.0005	mg/L	0.02500		102	80-120	0.2	20	
Cadmium	0.123	0.0025	mg/L	0.1250		98	80-120	1	20	
Chromium	0.247	0.010	mg/L	0.2500		99	80-120	0.8	20	
Copper	0.253	0.010	mg/L	0.2500		101	80-120	0.7	20	
Lead	0.246	0.010	mg/L	0.2500		98	80-120	0.1	20	
Nickel	0.249	0.025	mg/L	0.2500		100	80-120	0.6	20	
Selenium	0.497	0.025	mg/L	0.5000		99	80-120	2	20	
Silver	0.127	0.005	mg/L	0.1250		101	80-120	0.8	20	
Zinc	0.241	0.025	mg/L	0.2500		96	80-120	0.8	20	
LCS Dup										



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CL11619 - 3005A

Antimony	0.0128	0.0025	mg/L	0.01000		128	80-120	6	20	B+
Thallium	0.0092	0.0015	mg/L	0.01000		92	80-120	4	20	

3005A/3020A/6000/7000 Total Metals

Batch CL11619 - 3005A

Blank										
Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0010	mg/L							
Zinc	ND	0.025	mg/L							

LCS										
Beryllium	0.0254	0.0005	mg/L	0.02500		102	80-120			
Cadmium	0.124	0.0025	mg/L	0.1250		99	80-120			
Chromium	0.250	0.010	mg/L	0.2500		100	80-120			
Copper	0.255	0.010	mg/L	0.2500		102	80-120			
Lead	0.246	0.010	mg/L	0.2500		98	80-120			
Nickel	0.251	0.025	mg/L	0.2500		100	80-120			
Selenium	0.488	0.025	mg/L	0.5000		98	80-120			
Silver	0.128	0.005	mg/L	0.1250		102	80-120			
Zinc	0.243	0.025	mg/L	0.2500		97	80-120			

LCS										
Antimony	0.0120	0.0025	mg/L	0.01000		120	80-120			
Arsenic	0.0105	0.0025	mg/L	0.01000		105	80-120			
Thallium	0.0095	0.0010	mg/L	0.01000		95	80-120			

LCS Dup										
Beryllium	0.0255	0.0005	mg/L	0.02500		102	80-120	0.2	20	
Cadmium	0.123	0.0025	mg/L	0.1250		98	80-120	1	20	
Chromium	0.247	0.010	mg/L	0.2500		99	80-120	0.8	20	
Copper	0.253	0.010	mg/L	0.2500		101	80-120	0.7	20	
Lead	0.246	0.010	mg/L	0.2500		98	80-120	0.1	20	
Nickel	0.249	0.025	mg/L	0.2500		100	80-120	0.6	20	
Selenium	0.497	0.025	mg/L	0.5000		99	80-120	2	20	
Silver	0.127	0.005	mg/L	0.1250		101	80-120	0.8	20	
Zinc	0.241	0.025	mg/L	0.2500		96	80-120	0.8	20	

LCS Dup										
Antimony	0.0128	0.0025	mg/L	0.01000		128	80-120	6	20	B+



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

3005A/3020A/6000/7000 Total Metals

Batch CL11619 - 3005A

Arsenic	0.0113	0.0025	mg/L	0.01000		113	80-120	7	20	
Thallium	0.0092	0.0010	mg/L	0.01000		92	80-120	4	20	

Batch CL12717 - 245.1/7470A

Blank										
Mercury	ND	0.00050	mg/L							
LCS										
Mercury	0.00555	0.00050	mg/L	0.006000		93	80-120			
LCS Dup										
Mercury	0.00577	0.00050	mg/L	0.006000		96	80-120	4	20	
Duplicate Source: 1112282-07										
Mercury	ND	0.00050	mg/L		ND				20	
Matrix Spike Source: 1112282-07										
Mercury	0.00515	0.00050	mg/L	0.006000	ND	86	75-125			

Classical Chemistry

Batch CL11619 - 3005A

Blank										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
LCS										
Calcium	2.49	0.100	mg/L	2.500		99	80-120			
Magnesium	2.52	0.100	mg/L	2.500		101	80-120			
LCS Dup										
Calcium	2.48	0.100	mg/L	2.500		99	80-120	0.3	20	
Magnesium	2.50	0.100	mg/L	2.500		100	80-120	0.7	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

Notes and Definitions

- U Analyte included in the analysis, but not detected
- B+ Blank Spike recovery is above upper control limit (B+).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112282

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-38255-1
Client Project/Site: 1112282

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk



Authorized for release by:
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www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Job ID: 360-38255-1

Laboratory: TestAmerica Westfield

Narrative

The following samples were filtered and preserved in the field by the client: 1112282-01 (360-38255-1), 1112282-02 (360-38255-2), 1112282-03 (360-38255-3), 1112282-04 (360-38255-4), 1112282-05 (360-38255-5), 1112282-06 (360-38255-6), 1112282-07 (360-38255-7).

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Detection Summary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Client Sample ID: 1112282-01

Lab Sample ID: 360-38255-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.8		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-02

Lab Sample ID: 360-38255-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.0		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-03

Lab Sample ID: 360-38255-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.8		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-04

Lab Sample ID: 360-38255-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.7		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-05

Lab Sample ID: 360-38255-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.0		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-06

Lab Sample ID: 360-38255-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.8		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112282-07

Lab Sample ID: 360-38255-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.6		1.0		mg/L	1		SM 5310B	Dissolved

Method Summary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Method	Method Description	Protocol	Laboratory
SM 5310B	Organic Carbon, Dissolved (DOC)	SM	TAL WFD

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

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Sample Summary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-38255-1	1112282-01	Water	12/14/11 13:30	12/17/11 11:00
360-38255-2	1112282-02	Water	12/14/11 14:00	12/17/11 11:00
360-38255-3	1112282-03	Water	12/14/11 10:20	12/17/11 11:00
360-38255-4	1112282-04	Water	12/14/11 11:00	12/17/11 11:00
360-38255-5	1112282-05	Water	12/14/11 13:30	12/17/11 11:00
360-38255-6	1112282-06	Water	12/14/11 14:15	12/17/11 11:00
360-38255-7	1112282-07	Water	12/14/11 10:20	12/17/11 11:00

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Client Sample Results

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

General Chemistry - Dissolved

Client Sample ID: 1112282-01
Date Collected: 12/14/11 13:30
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.8		1.0		mg/L			12/20/11 13:27	1

Client Sample ID: 1112282-02
Date Collected: 12/14/11 14:00
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0		mg/L			12/20/11 14:42	1

Client Sample ID: 1112282-03
Date Collected: 12/14/11 10:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.8		1.0		mg/L			12/20/11 15:07	1

Client Sample ID: 1112282-04
Date Collected: 12/14/11 11:00
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-4
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.7		1.0		mg/L			12/20/11 15:32	1

Client Sample ID: 1112282-05
Date Collected: 12/14/11 13:30
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-5
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0		mg/L			12/20/11 15:57	1

Client Sample ID: 1112282-06
Date Collected: 12/14/11 14:15
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-6
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.8		1.0		mg/L			12/20/11 16:23	1

Client Sample ID: 1112282-07
Date Collected: 12/14/11 10:20
Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-7
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.6		1.0		mg/L			12/20/11 16:48	1

Definitions/Glossary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

General Chemistry

Analysis Batch: 85078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38255-1	1112282-01	Dissolved	Water	SM 5310B	
360-38255-1 MS	1112282-01	Dissolved	Water	SM 5310B	
360-38255-1 MSD	1112282-01	Dissolved	Water	SM 5310B	
360-38255-2	1112282-02	Dissolved	Water	SM 5310B	
360-38255-3	1112282-03	Dissolved	Water	SM 5310B	
360-38255-4	1112282-04	Dissolved	Water	SM 5310B	
360-38255-5	1112282-05	Dissolved	Water	SM 5310B	
360-38255-6	1112282-06	Dissolved	Water	SM 5310B	
360-38255-7	1112282-07	Dissolved	Water	SM 5310B	
LCS 360-85068/2-A	Lab Control Sample	Dissolved	Water	SM 5310B	
MB 360-85068/1-A	Method Blank	Dissolved	Water	SM 5310B	

QC Sample Results

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Method: SM 5310B - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 360-85068/1-A
Matrix: Water
Analysis Batch: 85078

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.0		mg/L			12/20/11 12:41	1

Lab Sample ID: LCS 360-85068/2-A
Matrix: Water
Analysis Batch: 85078

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	32.0	31.8		mg/L		99	85 - 115

Lab Sample ID: 360-38255-1 MS
Matrix: Water
Analysis Batch: 85078

Client Sample ID: 1112282-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	4.8		10.0	13.6		mg/L		88	75 - 125

Lab Sample ID: 360-38255-1 MSD
Matrix: Water
Analysis Batch: 85078

Client Sample ID: 1112282-01
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Dissolved Organic Carbon	4.8		10.0	13.9		mg/L		90	75 - 125	2	20

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Client Sample ID: 1112282-01

Date Collected: 12/14/11 13:30

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 13:27	RWE	TAL WFD

Client Sample ID: 1112282-02

Date Collected: 12/14/11 14:00

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 14:42	RWE	TAL WFD

Client Sample ID: 1112282-03

Date Collected: 12/14/11 10:20

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 15:07	RWE	TAL WFD

Client Sample ID: 1112282-04

Date Collected: 12/14/11 11:00

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 15:32	RWE	TAL WFD

Client Sample ID: 1112282-05

Date Collected: 12/14/11 13:30

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 15:57	RWE	TAL WFD

Client Sample ID: 1112282-06

Date Collected: 12/14/11 14:15

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 16:23	RWE	TAL WFD

Client Sample ID: 1112282-07

Date Collected: 12/14/11 10:20

Date Received: 12/17/11 11:00

Lab Sample ID: 360-38255-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85078	12/20/11 16:48	RWE	TAL WFD

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

- 1
- 2
- 3
- 4
- 5
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- 13
- 14

Certification Summary

Client: ESS Laboratory
Project/Site: 1112282

TestAmerica Job ID: 360-38255-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 Cl F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli		ambient/ source	
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 360-38255-1

Login Number: 38255

List Source: TestAmerica Westfield

List Number: 1

Creator: Stewart, Alyse M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120282
Date Project Due: 12/21/11
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present? * No

Air No.: _____

2. Were Custody Seals Present? No

3. Were Custody Seals Intact? N/A

4. Is Radiation count < 100 CPM? Yes

5. Is a cooler present? Yes

Cooler Temp: _____

Iced With: **Icepacks**

6. Was COC included with samples? Yes

7. Was COC signed and dated by client? Yes

8. Does the COC match the sample Yes

9. Is COC complete and correct? Yes

10. Are the samples properly preserved? Yes

11. Proper sample containers used? Yes

12. Any air bubbles in the VOA vials? N/A

13. Holding times exceeded? No

14. Sufficient sample volumes? Yes

15. Any Subcontracting needed? * Yes

16. Are ESS labels on correct containers? Yes No

17. Were samples received intact? Yes No

ESS Sample IDs: 01 → 07

Sub Lab: Test America

Analysis: DOC

TAT: std

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	3	HNO3
1	Yes	Glass Jar	1	HCL
2	Yes	250 ml Plastic	3	HNO3
2	Yes	Glass Jar	1	HCL
3	Yes	250 ml Plastic	3	HNO3
3	Yes	Glass Jar	1	HCL
4	Yes	250 ml Plastic	3	HNO3
4	Yes	Glass Jar	1	HCL
5	Yes	250 ml Plastic	3	HNO3
5	Yes	Glass Jar	1	HCL
6	Yes	250 ml Plastic	3	HNO3
6	Yes	Glass Jar	1	HCL
7	Yes	250 ml Plastic	3	HNO3
7	Yes	Glass Jar	1	HCL

Completed By: _____

Date/Time: _____

Reviewed By: _____

Date/Time: 12/11/11

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Test America

CHAIN OF CUSTODY

360-38255 of 1

Turn Time: _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____
 Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)	Number of Containers	Type of Containers	Write Required Analysis				
ESS Labs									
Contact Person: Liz Ouk	Address:	PO# 112222							
City:	State:	Zip:							
Telephone #:	Fax #:	Email Address:							
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
01	12/14/11	1330	X	W		112222-01	2	1	6
02		1400				-02			
03		1020				-03			
04		1100				-04			
05		1330				-05			
06		1415				-06			
07	12/14/11	1000	X	V		112222-07	2	1	6

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge VW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes ___ No ___ Internal Use Only: [] Pickup [] Technicians ___
 Seals Intact: Yes ___ No NA: ___
 Cooler Temp: 1.2°C 2.0°C
 Relinquished by: (Signature) [Signature] Date/Time: 12/16/11 10:15
 Received by: (Signature) [Signature] Date/Time: 12/16/11 16:30
 Relinquished by: (Signature) M.C. Date/Time: 12/16/11 16:30
 Received by: (Signature) [Signature] Date/Time: 12/16/11 11:00
 Comments: to Westfield office Attention [Signature]

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Fed Ex Sat. 40588388
 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100
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ESS Laboratory
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 185 Frances Avenue, Cranston, RI-02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits
 Class B Sw
 Electronic Deliverable Yes ___ No EQ 018
 Format: Excel ___ Access ___ PDF ___ Other _____

Co. Name: **Amec E. + I**
 Project # **3650110272** Project Name (20 Char. or less) **Texton Gannett**
 Contact Person: **David Chepomen** Address: **107 Audubon Rd. Suite 301**
 City: **Wakefield** State: **MA** Zip: **01880** PO#: _____
 Telephone #: **781-245-6606** Fax #: **781-246-5060** Email Address: **DEHEIS@ESS.COM**

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pre Code	Number of Containers	Type of Containers	Write Required Analysis
01	12-14-11	1330	X	W	W	SW-48	214	4	PIC 1	Diss organic carbon
02	12-14-11	1415	X	W	W	SW-45	214	4	PIC 1	Total P-13 metals
03	12-14-11	1020	X	W	W	SW-36 DUP	214	4	PIC 1	Diss. P-13 metals

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only
 Seals Intact Yes ___ No NA: [] Pickup
 Cooler Temp: 2.0°C [] Technicians _____
 Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
 Sampled by: DAVE CHEPOMEN
 Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>Dave Chepomen</u>	12-14-11 16:50	<u>David Chepomen</u>	12/14/11 16:50



CERTIFICATE OF ANALYSIS

Dave Chapman
AMEC Environmental and Infrastructure
107 Audubon Road, Suite 301
Wakefield, MA 01880

Checked for Completeness
of Parameters Ordered By:



RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112350



This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 4:35 pm, Jan 31, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis
Pace Analytical - Minneapolis, MN	Dioxin - Full List
TestAmerica Laboratories, Inc. - Westfield, MA	Total Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

SAMPLE RECEIPT

The following samples were received on December 16, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Revision 1 January 31, 2012: This report has been revised to include Mercury for 1112350-13.

<u>Lab Number</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Analysis</u>
1112350-01	SED-41-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-02	SED-41-18	Sediment	§, SUB
1112350-03	SED-44-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-04	SED-44-18	Sediment	§, SUB
1112350-05	SED-37-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-06	SED-37-18	Sediment	§, SUB
1112350-07	SED-47-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-08	SED-47-18	Sediment	§, SUB
1112350-09	SED-35-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-10	SED-35-18	Sediment	§, SUB
1112350-11	SED-40-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-12	SED-40-18	Sediment	§, SUB
1112350-13	SED-52-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-14	SED-53-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-15	SED-54-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-16	SED-55-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-17	SED-56-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-18	SED-57-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112350-19	SED-58-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

1112350-13 Reported above the quantitation limit; Estimated value (E).

Mercury

CL12316-MS2 Matrix Spike recovery is below lower control limit (M-).

Antimony (71% @ 75-125%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-41-01
Date Sampled: 12/15/11 10:20

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-01
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-41-01
Date Sampled: 12/15/11 10:20
Percent Solids: 20

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-01
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (16.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Arsenic	25.2 (8.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Beryllium	0.83 (0.34)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Cadmium	2.27 (1.61)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Chromium	150 (3.2)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Copper	333 (8.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Lead	467 (16.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Mercury	1.01 (0.093)	7471A		1	KJK	12/30/11 16:08	1.06	40	CL12825
Nickel	58.8 (8.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Selenium	ND (16.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Silver	22.9 (1.61)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316
Thallium	ND (3.97)	7841		5	SVD	12/30/11 20:29	3.12	100	CL12316
Zinc	494 (8.0)	6010B		1	JP	12/29/11 21:21	3.12	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-41-01
Date Sampled: 12/15/11 10:20

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	130000 (1000)	SUB			§	12/23/11 15:39	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-41-01
Date Sampled: 12/15/11 10:20
Percent Solids: 20

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-01
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (101)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Arsenic	197 (164)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Beryllium	58.1 (27.3)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Cadmium	24.1 (11.0)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Chromium	1780 (94.7)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Copper	4130 (77.5)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Lead	2460 (23.8)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Mercury	ND (0.614)	AVS/SEM		1	KJK	01/03/12 17:52	5.076	250	CL12920
Nickel	502 (210)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Selenium	ND (156)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Silver	75.8 (22.8)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Thallium	ND (120)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
Zinc	8090 (188)	AVS/SEM		1	SVD	12/30/11 22:53	5.076	250	CL12835
AVS	6490 (390)	AVS/SEM		50	EEM	12/27/11 13:05	5.076	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-41-18
Date Sampled: 12/15/11 10:40

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-02
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	10000 (1000)	SUB			§	12/23/11 16:10	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-44-01
Date Sampled: 12/15/11 11:30

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-03
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-44-01
Date Sampled: 12/15/11 11:30
Percent Solids: 23

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-03
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (13.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Arsenic	23.0 (6.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Beryllium	0.82 (0.29)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Cadmium	1.57 (1.39)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Chromium	87.6 (2.8)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Copper	189 (6.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Lead	393 (13.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Mercury	0.972 (0.061)	7471A		1	KJK	12/30/11 16:11	1.4	40	CL12825
Nickel	34.2 (6.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Selenium	ND (13.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Silver	13.9 (1.39)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316
Thallium	ND (3.43)	7841		5	SVD	12/30/11 20:35	3.14	100	CL12316
Zinc	363 (6.9)	6010B		1	JP	12/29/11 21:26	3.14	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-44-01
Date Sampled: 12/15/11 11:30

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-03
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	99000 (1000)	SUB			§	12/27/11 11:00	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-44-01
Date Sampled: 12/15/11 11:30
Percent Solids: 23

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-03
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (88.4)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Arsenic	205 (144)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Beryllium	66.9 (23.9)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Cadmium	17.0 (9.57)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Chromium	1010 (82.8)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Copper	2680 (67.7)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Lead	2300 (20.8)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Mercury	ND (0.536)	AVS/SEM		1	KJK	01/03/12 17:54	5.052	250	CL12920
Nickel	291 (183)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Selenium	ND (136)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Silver	37.1 (19.9)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Thallium	ND (105)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
Zinc	6190 (165)	AVS/SEM		1	SVD	12/30/11 23:06	5.052	250	CL12835
AVS	6530 (136)	AVS/SEM		20	EEM	12/27/11 14:50	5.052	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-44-18
Date Sampled: 12/15/11 11:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-04
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	54000 (1000)	SUB			§	12/27/11 11:53	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-37-01
Date Sampled: 12/15/11 14:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-05
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-37-01
Date Sampled: 12/15/11 14:45
Percent Solids: 80

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-05
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.9)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Arsenic	4.6 (2.0)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Beryllium	0.13 (0.08)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Cadmium	ND (0.39)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Chromium	3.5 (0.8)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Copper	3.1 (2.0)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Lead	ND (3.9)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Mercury	ND (0.018)	7471A		1	KJK	12/30/11 16:13	1.35	40	CL12825
Nickel	3.3 (2.0)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Selenium	ND (3.9)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Silver	ND (0.39)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316
Thallium	ND (0.97)	7841		5	SVD	12/30/11 20:41	3.2	100	CL12316
Zinc	10.5 (2.0)	6010B		1	JP	12/29/11 21:30	3.2	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-37-01
Date Sampled: 12/15/11 14:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-05
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	6700 (1000)	SUB			§	12/27/11 12:58	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-37-01
Date Sampled: 12/15/11 14:45
Percent Solids: 80

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-05
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (25.6)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Arsenic	ND (41.6)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Beryllium	ND (6.92)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Cadmium	ND (2.77)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Chromium	ND (24.0)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Copper	26.0 (19.6)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Lead	12.9 (6.02)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Mercury	ND (0.155)	AVS/SEM		1	KJK	01/03/12 17:57	5.01	250	CL12920
Nickel	ND (53.1)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Selenium	ND (39.5)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Silver	ND (5.78)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Thallium	ND (30.5)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
Zinc	94.4 (47.7)	AVS/SEM		1	SVD	12/30/11 23:10	5.01	250	CL12835
AVS	7.91 (1.95)	AVS/SEM		1	EEM	12/27/11 14:50	5.01	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-37-18
Date Sampled: 12/15/11 14:55

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-06
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	2800 (1000)	SUB			§	12/27/11 13:25	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-47-01
Date Sampled: 12/15/11 15:05

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-07
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-47-01
Date Sampled: 12/15/11 15:05
Percent Solids: 16

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-07
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (18.2)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Arsenic	26.4 (9.1)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Beryllium	0.90 (0.38)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Cadmium	2.83 (1.83)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Chromium	196 (3.6)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Copper	342 (9.1)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Lead	580 (18.2)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Mercury	1.03 (0.072)	7471A		1	KJK	12/30/11 16:16	1.73	40	CL12825
Nickel	77.3 (9.1)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Selenium	ND (18.2)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Silver	16.7 (1.83)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316
Thallium	ND (4.50)	7841		5	SVD	12/30/11 20:59	3.44	100	CL12316
Zinc	496 (9.1)	6010B		1	JP	12/29/11 21:34	3.44	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-47-01
Date Sampled: 12/15/11 15:05

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-07
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	130000 (1000)	SUB			§	12/27/11 13:58	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-47-01
Date Sampled: 12/15/11 15:05
Percent Solids: 16

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-07
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (126)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Arsenic	235 (205)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Beryllium	67.6 (34.2)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Cadmium	27.6 (13.7)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Chromium	1730 (118)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Copper	4480 (96.9)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Lead	2950 (29.7)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Mercury	ND (0.767)	AVS/SEM		1	KJK	01/03/12 17:59	5.077	250	CL12920
Nickel	737 (262)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Selenium	ND (195)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Silver	61.7 (28.5)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Thallium	ND (151)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
Zinc	7640 (235)	AVS/SEM		1	SVD	12/30/11 23:15	5.077	250	CL12835
AVS	5300 (195)	AVS/SEM		20	EEM	12/27/11 14:50	5.077	100	CL12701



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-47-18
Date Sampled: 12/15/11 15:25

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-08
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	150000 (1000)	SUB			§	12/27/11 14:35	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-35-01
Date Sampled: 12/16/11 11:25

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-09
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-35-01
Date Sampled: 12/16/11 11:25
Percent Solids: 80

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-09
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (5.8)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Arsenic	18.5 (2.9)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Beryllium	0.18 (0.12)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Cadmium	ND (0.58)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Chromium	7.6 (1.2)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Copper	5.9 (2.9)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Lead	8.1 (5.8)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Mercury	ND (0.023)	7471A		1	KJK	12/30/11 16:18	1.07	40	CL12825
Nickel	8.5 (2.9)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Selenium	ND (5.8)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Silver	ND (0.58)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316
Thallium	ND (1.43)	7841		5	SVD	12/30/11 21:05	2.16	100	CL12316
Zinc	17.4 (2.9)	6010B		1	JP	12/29/11 21:39	2.16	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-35-01
Date Sampled: 12/16/11 11:25

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-09
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	10000 (1000)	SUB			§	12/27/11 15:05	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-35-01
Date Sampled: 12/16/11 11:25
Percent Solids: 80

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-09
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (25.2)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Arsenic	104 (40.9)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Beryllium	ND (6.80)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Cadmium	ND (2.73)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Chromium	28.1 (23.6)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Copper	47.6 (19.3)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Lead	17.4 (5.92)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Mercury	ND (0.153)	AVS/SEM		1	KJK	01/03/12 18:02 5.096	250	CL12920	
Nickel	ND (52.2)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Selenium	ND (38.8)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Silver	ND (5.68)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Thallium	ND (30.0)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
Zinc	157 (46.9)	AVS/SEM		1	SVD	12/30/11 23:19 5.096	250	CL12835	
AVS	8.46 (1.95)	AVS/SEM		1	EEM	12/27/11 14:50 5.096	100	CL12701	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-35-18
Date Sampled: 12/16/11 11:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-10
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	ND (1000)	SUB			§	12/27/11 15:36	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-40-01
Date Sampled: 12/16/11 12:00

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-11
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-40-01
Date Sampled: 12/16/11 12:00
Percent Solids: 85

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-11
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (5.4)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Arsenic	5.6 (2.7)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Beryllium	0.17 (0.11)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Cadmium	ND (0.54)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Chromium	3.2 (1.1)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Copper	4.6 (2.7)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Lead	ND (5.4)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Mercury	ND (0.020)	7471A		1	KJK	12/30/11 16:21	1.15	40	CL12825
Nickel	3.2 (2.7)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Selenium	ND (5.4)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Silver	ND (0.54)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316
Thallium	ND (1.32)	7841		5	SVD	12/30/11 21:10	2.2	100	CL12316
Zinc	13.1 (2.7)	6010B		1	JP	12/29/11 21:43	2.2	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-40-01
Date Sampled: 12/16/11 12:00

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-11
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	2000 (1000)	SUB			§	12/28/11 10:16	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-40-01
Date Sampled: 12/16/11 12:00
Percent Solids: 85

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-11
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (23.9)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Arsenic	ND (38.8)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Beryllium	ND (6.44)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Cadmium	ND (2.58)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Chromium	ND (22.3)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Copper	33.0 (18.3)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Lead	13.2 (5.61)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Mercury	ND (0.145)	AVS/SEM		1	KJK	01/03/12 18:11 5.064	250	CL12920	
Nickel	ND (49.5)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Selenium	ND (36.8)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Silver	ND (5.38)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Thallium	ND (28.4)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
Zinc	123 (44.4)	AVS/SEM		1	SVD	12/30/11 23:27 5.064	250	CL12835	
AVS	ND (1.83)	AVS/SEM		1	EEM	12/28/11 11:40 5.064	100	CL12803	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-40-18
Date Sampled: 12/16/11 12:15

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-12
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	7100 (1000)	SUB			§	12/28/11 10:43	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-52-01
Date Sampled: 12/16/11 13:15

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-13
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-52-01
Date Sampled: 12/16/11 13:15
Percent Solids: 35

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-13
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (9.2)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Arsenic	13.2 (4.6)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Beryllium	0.56 (0.19)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Cadmium	0.96 (0.93)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Chromium	52.0 (1.8)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Copper	115 (4.6)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Lead	287 (9.2)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Mercury	E 0.871 (0.041)	7471A		1	KJK	12/30/11 16:24	1.37	40	CL12825
Nickel	21.3 (4.6)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Selenium	ND (9.2)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Silver	7.25 (0.93)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316
Thallium	ND (2.28)	7841		5	SVD	12/30/11 21:16	3.1	100	CL12316
Zinc	232 (4.6)	6010B		1	JP	12/29/11 21:48	3.1	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-52-01
Date Sampled: 12/16/11 13:15

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-13
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	84000 (1000)	SUB			§	12/28/11 11:24	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-52-01
Date Sampled: 12/16/11 13:15
Percent Solids: 35

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-13
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (58.2)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Arsenic	96.1 (94.6)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Beryllium	40.7 (15.7)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Cadmium	10.2 (6.30)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Chromium	459 (54.5)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Copper	1210 (44.6)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Lead	1650 (13.7)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Mercury	ND (0.353)	AVS/SEM		1	KJK	01/03/12 18:23	5.04	250	CL12920
Nickel	137 (121)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Selenium	ND (89.7)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Silver	ND (13.1)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Thallium	ND (69.3)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
Zinc	3680 (108)	AVS/SEM		1	SVD	12/30/11 23:44	5.04	250	CL12835
AVS	3230 (89.1)	AVS/SEM		20	EEM	12/28/11 11:40	5.04	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-53-01
Date Sampled: 12/16/11 13:35

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-14
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-53-01
Date Sampled: 12/16/11 13:35
Percent Solids: 38

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-14
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (7.8)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Arsenic	11.4 (3.9)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Beryllium	0.49 (0.16)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Cadmium	ND (0.78)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Chromium	39.4 (1.6)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Copper	88.6 (3.9)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Lead	229 (7.8)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Mercury	0.660 (0.047)	7471A		1	KJK	12/30/11 16:32	1.11	40	CL12825
Nickel	19.2 (3.9)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Selenium	ND (7.8)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Silver	5.06 (0.78)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316
Thallium	ND (1.93)	7841		5	SVD	12/30/11 21:21	3.38	100	CL12316
Zinc	175 (3.9)	6010B		1	JP	12/29/11 22:01	3.38	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-53-01
Date Sampled: 12/16/11 13:35

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-14
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	99000 (1000)	SUB			§	12/28/11 11:58	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-53-01
Date Sampled: 12/16/11 13:35
Percent Solids: 38

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-14
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (53.6)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Arsenic	ND (87.1)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Beryllium	32.0 (14.5)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Cadmium	6.83 (5.80)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Chromium	257 (50.2)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Copper	797 (41.1)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Lead	1210 (12.6)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Mercury	ND (0.325)	AVS/SEM		1	KJK	01/03/12 18:26	5.042	250	CL12920
Nickel	114 (111)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Selenium	ND (82.6)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Silver	ND (12.1)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Thallium	ND (63.8)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
Zinc	2700 (99.8)	AVS/SEM		1	SVD	12/30/11 23:57	5.042	250	CL12835
AVS	4160 (82.1)	AVS/SEM		20	EEM	12/28/11 11:40	5.042	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-54-01
Date Sampled: 12/16/11 13:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-15
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-54-01
Date Sampled: 12/16/11 13:45
Percent Solids: 26

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-15
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (10.6)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Arsenic	17.3 (5.3)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Beryllium	0.70 (0.22)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Cadmium	1.41 (1.06)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Chromium	70.4 (2.1)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Copper	211 (5.3)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Lead	419 (10.6)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Mercury	0.737 (0.068)	7471A		1	KJK	12/30/11 16:35	1.12	40	CL12825
Nickel	36.1 (5.3)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Selenium	ND (10.6)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Silver	7.49 (1.06)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316
Thallium	ND (2.62)	7841		5	SVD	12/30/11 21:27	3.64	100	CL12316
Zinc	308 (5.3)	6010B		1	JP	12/29/11 22:06	3.64	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-54-01
Date Sampled: 12/16/11 13:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-15
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	110000 (1000)	SUB			§	12/28/11 12:32	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-54-01
Date Sampled: 12/16/11 13:45
Percent Solids: 26

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-15
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (78.8)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Arsenic	161 (128)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Beryllium	44.7 (21.3)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Cadmium	15.5 (8.54)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Chromium	753 (73.9)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Copper	2370 (60.4)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Lead	2210 (18.5)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Mercury	ND (0.479)	AVS/SEM		1	KJK	01/03/12 18:28	5.008	250	CL12920
Nickel	404 (164)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Selenium	ND (122)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Silver	24.0 (17.8)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Thallium	ND (93.9)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
Zinc	4810 (147)	AVS/SEM		1	SVD	12/31/11 0:01	5.008	250	CL12835
AVS	1850 (120)	AVS/SEM		20	EEM	12/28/11 14:30	5.008	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-55-01
Date Sampled: 12/16/11 14:30

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-16
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-55-01
Date Sampled: 12/16/11 14:30
Percent Solids: 16

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-16
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (20.4)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Arsenic	57.0 (10.2)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Beryllium	0.72 (0.43)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Cadmium	ND (2.05)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Chromium	11.9 (4.1)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Copper	14.9 (10.2)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Lead	ND (20.4)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Mercury	ND (0.110)	7471A		1	KJK	12/30/11 16:37	1.12	40	CL12825
Nickel	12.5 (10.2)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Selenium	ND (20.4)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Silver	ND (2.05)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316
Thallium	ND (5.04)	7841		5	SVD	12/30/11 21:33	3.07	100	CL12316
Zinc	ND (10.2)	6010B		1	JP	12/29/11 22:10	3.07	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-55-01
Date Sampled: 12/16/11 14:30

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-16
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	140000 (1000)	SUB			§	12/28/11 14:40	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-55-01
Date Sampled: 12/16/11 14:30
Percent Solids: 16

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-16
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (128)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Arsenic	520 (208)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Beryllium	55.5 (34.5)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Cadmium	ND (13.8)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Chromium	ND (120)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Copper	99.8 (97.9)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Lead	ND (30.0)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Mercury	ND (0.775)	AVS/SEM		1	KJK	01/03/12 18:30	5.024	250	CL12920
Nickel	ND (265)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Selenium	ND (197)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Silver	ND (28.8)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Thallium	ND (152)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
Zinc	ND (238)	AVS/SEM		1	SVD	12/31/11 0:05	5.024	250	CL12835
AVS	718 (9.75)	AVS/SEM		1	EEM	12/28/11 14:30	5.024	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-56-01
Date Sampled: 12/16/11 14:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-17
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-56-01
Date Sampled: 12/16/11 14:45
Percent Solids: 18

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-17
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (16.3)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Arsenic	43.7 (8.2)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Beryllium	0.69 (0.34)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Cadmium	ND (1.64)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Chromium	13.7 (3.3)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Copper	19.7 (8.2)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Lead	24.2 (16.3)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Mercury	ND (0.088)	7471A		1	KJK	12/30/11 16:40	1.25	40	CL12825
Nickel	13.6 (8.2)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Selenium	ND (16.3)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Silver	ND (1.64)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316
Thallium	ND (4.04)	7841		5	SVD	12/30/11 21:39	3.4	100	CL12316
Zinc	31.7 (8.2)	6010B		1	JP	12/29/11 22:15	3.4	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-56-01
Date Sampled: 12/16/11 14:45

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-17
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	130000 (1000)	SUB			§	12/28/11 15:12	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-56-01
Date Sampled: 12/16/11 14:45
Percent Solids: 18

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-17
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (114)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Arsenic	532 (185)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Beryllium	54.9 (30.7)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Cadmium	ND (12.3)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Chromium	ND (107)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Copper	157 (87.2)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Lead	82.3 (26.7)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Mercury	ND (0.691)	AVS/SEM		1	KJK	01/03/12 18:33	5.013	250	CL12920
Nickel	ND (236)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Selenium	ND (175)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Silver	ND (25.7)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Thallium	ND (136)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
Zinc	ND (212)	AVS/SEM		1	SVD	12/31/11 0:10	5.013	250	CL12835
AVS	720 (8.66)	AVS/SEM		1	EEM	12/28/11 14:30	5.013	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-57-01
Date Sampled: 12/16/11 14:55

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-18
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-57-01
Date Sampled: 12/16/11 14:55
Percent Solids: 28

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-18
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (9.6)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Arsenic	17.1 (4.8)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Beryllium	0.60 (0.20)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Cadmium	ND (0.96)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Chromium	45.9 (1.9)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Copper	71.8 (4.8)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Lead	177 (9.6)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Mercury	1.35 (0.182)	7471A		4	KJK	12/30/11 17:42	1.55	40	CL12825
Nickel	18.6 (4.8)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Selenium	ND (9.6)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Silver	2.00 (0.96)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316
Thallium	ND (2.36)	7841		5	SVD	12/30/11 21:44	3.74	100	CL12316
Zinc	196 (4.8)	6010B		1	JP	12/29/11 22:20	3.74	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-57-01
Date Sampled: 12/16/11 14:55

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-18
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	63000 (1000)	SUB			§	12/28/11 15:41	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-57-01
Date Sampled: 12/16/11 14:55
Percent Solids: 28

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-18
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (72.4)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Arsenic	148 (118)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Beryllium	47.9 (19.6)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Cadmium	9.43 (7.84)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Chromium	427 (67.8)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Copper	995 (55.5)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Lead	1130 (17.0)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Mercury	ND (0.439)	AVS/SEM		1	KJK	01/03/12 18:40	5.064	250	CL12920
Nickel	ND (150)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Selenium	ND (112)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Silver	ND (16.3)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Thallium	ND (86.3)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
Zinc	3680 (135)	AVS/SEM		1	SVD	12/31/11 0:14	5.064	250	CL12835
AVS	6250 (111)	AVS/SEM		20	EEM	12/28/11 14:30	5.064	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-58-01
Date Sampled: 12/16/11 15:10

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-19
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-58-01
Date Sampled: 12/16/11 15:10
Percent Solids: 91

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-19
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.5)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Arsenic	ND (1.7)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Beryllium	0.14 (0.07)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Cadmium	ND (0.35)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Chromium	3.6 (0.7)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Copper	4.5 (1.7)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Lead	4.1 (3.5)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Mercury	ND (0.021)	7471A		1	KJK	12/30/11 16:45	1.03	40	CL12825
Nickel	3.6 (1.7)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Selenium	ND (3.5)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Silver	ND (0.35)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316
Thallium	ND (0.86)	7841		5	SVD	12/30/11 21:50	3.15	100	CL12316
Zinc	16.1 (1.7)	6010B		1	JP	12/29/11 22:25	3.15	100	CL12316



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-58-01
Date Sampled: 12/16/11 15:10

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-19
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	ND (1000)	SUB			§	12/28/11 16:10	mg/kg	CL13014



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-58-01
Date Sampled: 12/16/11 15:10
Percent Solids: 91

ESS Laboratory Work Order: 1112350
ESS Laboratory Sample ID: 1112350-19
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (22.4)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Arsenic	ND (36.4)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Beryllium	ND (6.05)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Cadmium	ND (2.43)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Chromium	30.1 (21.0)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Copper	34.7 (17.2)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Lead	16.9 (5.27)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Mercury	ND (0.136)	AVS/SEM		1	KJK	01/03/12 18:42	5.035	250	CL12920
Nickel	ND (46.5)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Selenium	ND (34.6)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Silver	ND (5.06)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Thallium	ND (26.7)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
Zinc	141 (41.7)	AVS/SEM		1	SVD	12/31/11 0:18	5.035	250	CL12835
AVS	ND (1.71)	AVS/SEM		1	EEM	12/28/11 16:00	5.035	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12316 - 3050B

Blank

Antimony	ND	5.0	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Copper	ND	2.5	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							

LCS

Antimony	119	17.6	mg/kg wet	120.0		99	80-120			
Arsenic	106	8.8	mg/kg wet	124.0		85	80-120			
Beryllium	81.9	0.37	mg/kg wet	95.00		86	80-120			
Cadmium	99.6	1.76	mg/kg wet	116.0		86	80-120			
Chromium	87.9	3.5	mg/kg wet	95.90		92	80-120			
Copper	78.3	8.8	mg/kg wet	82.80		95	80-120			
Lead	123	17.6	mg/kg wet	137.0		90	80-120			
Nickel	109	8.8	mg/kg wet	121.0		90	80-120			
Selenium	185	17.6	mg/kg wet	202.0		92	80-120			
Silver	47.2	1.76	mg/kg wet	53.50		88	80-120			
Thallium	186	43.4	mg/kg wet	231.0		80	80-120			
Zinc	227	8.8	mg/kg wet	275.0		83	80-120			

LCS Dup

Antimony	123	19.6	mg/kg wet	120.0		102	80-120	3	20	
Arsenic	105	9.8	mg/kg wet	124.0		84	80-120	0.9	20	
Beryllium	80.7	0.41	mg/kg wet	95.00		85	80-120	1	20	
Cadmium	96.2	1.97	mg/kg wet	116.0		83	80-120	4	20	
Chromium	87.8	3.9	mg/kg wet	95.90		92	80-120	0.1	20	
Copper	79.3	9.8	mg/kg wet	82.80		96	80-120	1	20	
Lead	124	19.6	mg/kg wet	137.0		90	80-120	0.1	20	
Nickel	108	9.8	mg/kg wet	121.0		89	80-120	1	20	
Selenium	182	19.6	mg/kg wet	202.0		90	80-120	2	20	
Silver	47.7	1.97	mg/kg wet	53.50		89	80-120	1	20	
Thallium	192	48.5	mg/kg wet	231.0		83	80-120	3	20	
Zinc	227	9.8	mg/kg wet	275.0		82	80-120	0.2	20	

Duplicate

Source: 1112350-19

Antimony	ND	3.6	mg/kg dry		ND					35
Arsenic	1.91	1.8	mg/kg dry		1.63			16		35
Beryllium	0.180	0.08	mg/kg dry		0.136			28		35
Cadmium	0.062	0.36	mg/kg dry		0.064			4		35
Chromium	3.29	0.7	mg/kg dry		3.61			9		35



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12316 - 3050B

Copper	4.39	1.8	mg/kg dry		4.48			2	35	
Lead	3.95	3.6	mg/kg dry		4.14			5	35	
Nickel	3.26	1.8	mg/kg dry		3.63			11	35	
Selenium	0.723	3.6	mg/kg dry		0.737			2	35	
Silver	ND	0.36	mg/kg dry		ND				35	
Thallium	ND	0.89	mg/kg dry		ND				35	
Zinc	16.3	1.8	mg/kg dry		16.1			1	35	

Matrix Spike Source: 1112350-19

Antimony	13.0	3.7	mg/kg dry	18.25	ND	71	75-125			M-
Arsenic	16.2	1.8	mg/kg dry	18.25	1.63	80	75-125			
Beryllium	1.68	0.08	mg/kg dry	1.825	0.136	85	75-125			
Cadmium	7.52	0.37	mg/kg dry	9.127	0.064	82	75-125			
Chromium	18.2	0.7	mg/kg dry	18.25	3.61	80	75-125			
Copper	20.7	1.8	mg/kg dry	18.25	4.48	89	75-125			
Lead	19.7	3.7	mg/kg dry	18.25	4.14	85	75-125			
Nickel	19.0	1.8	mg/kg dry	18.25	3.63	84	75-125			
Selenium	31.7	3.7	mg/kg dry	36.51	0.737	85	75-125			
Silver	7.54	0.37	mg/kg dry	9.127	ND	83	75-125			
Thallium	16.1	3.61	mg/kg dry	18.25	ND	88	75-125			
Zinc	32.6	1.8	mg/kg dry	18.25	16.1	91	75-125			

Batch CL12825 - 245.1/7470A

Blank										
Mercury	ND	0.033	mg/kg wet							

LCS										
Mercury	14.1	1.55	mg/kg wet	15.20		93	80-120			

LCS Dup										
Mercury	12.4	1.55	mg/kg wet	15.20		82	80-120	13	20	

Duplicate Source: 1112350-19										
Mercury	0.0072	0.019	mg/kg dry		0.0067			7	35	

Matrix Spike Source: 1112350-19										
Mercury	0.102	0.016	mg/kg dry	0.09696	0.0067	98	75-125			

Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CL12701 - General Preparation

Blank										
AVS	ND	1.56	umol/kg dry							

Batch CL12803 - General Preparation

Blank										
AVS	ND	1.56	umol/kg dry							

Duplicate Source: 1112350-11										
AVS	ND	1.83	umol/kg dry		ND				20	

Batch CL12835 - SEM Prep



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CL12835 - SEM Prep

Blank										
Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							

Blank										
Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							

Duplicate Source: 1112350-11

Antimony	ND	23.9	umol/kg dry		ND				35	
Arsenic	38.5	38.8	umol/kg dry		29.3			27	20	
Beryllium	7.15	6.45	umol/kg dry		6.18			15	35	
Cadmium	0.708	2.58	umol/kg dry		0.747			5	35	
Chromium	16.0	22.3	umol/kg dry		16.1			1	20	
Copper	25.7	18.3	umol/kg dry		33.0			25	35	
Lead	11.6	5.61	umol/kg dry		13.2			13	35	
Nickel	22.1	49.5	umol/kg dry		19.9			10	35	
Selenium	ND	36.8	umol/kg dry		ND				35	
Silver	ND	5.39	umol/kg dry		ND				20	
Thallium	ND	28.4	umol/kg dry		ND				35	
Zinc	124	44.4	umol/kg dry		123			0.8	35	

Batch CL12920 - 245.1/7470A

Blank										
Mercury	ND	0.0312	umol/kg dry							

Blank										
Mercury	ND	0.0312	umol/kg dry							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Acid Volatile Sulfide / Simultaneous Extracted Metals										
Batch CL12920 - 245.1/7470A										
LCS										
Mercury	0.0301	0.0312	umol/kg dry	0.02991		101	80-120			
LCS Dup										
Mercury	0.0303	0.0312	umol/kg dry	0.02991		101	80-120	0.8	20	
Duplicate Source: 1112350-11										
Mercury	ND	0.0367	umol/kg dry		ND				35	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

Notes and Definitions

- Z-08 See Attached
- U Analyte included in the analysis, but not detected
- M- Matrix Spike recovery is below lower control limit (M-).
- E Reported above the quantitation limit; Estimated value (E).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112350

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-01
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-639
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	553.5	Dry Mass after wash (Dw):	20.0
Original Dry Mass (D):	117.5	Mass of fines lost by wash (D - Dw):	97.5
Moisture Loss (W - D):	436.0	% -75 µm Sieve (100 x (D - Dw)/D):	83.0
% Moisture (100 x (W - D) / D):	371.1		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.5		0.4		99.6		
#16		1.0		0.9		99.1		
#30		1.5		1.3		98.7		
#50		3.5		3.0		97.0		
#100		7.5		6.4		93.6		
#200		19.0		16.2		83.8		
Pan		20.0		17.0				
Sub Total		20.0						
Loss on Wash (D - Dw)		97.5						
Total		117.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

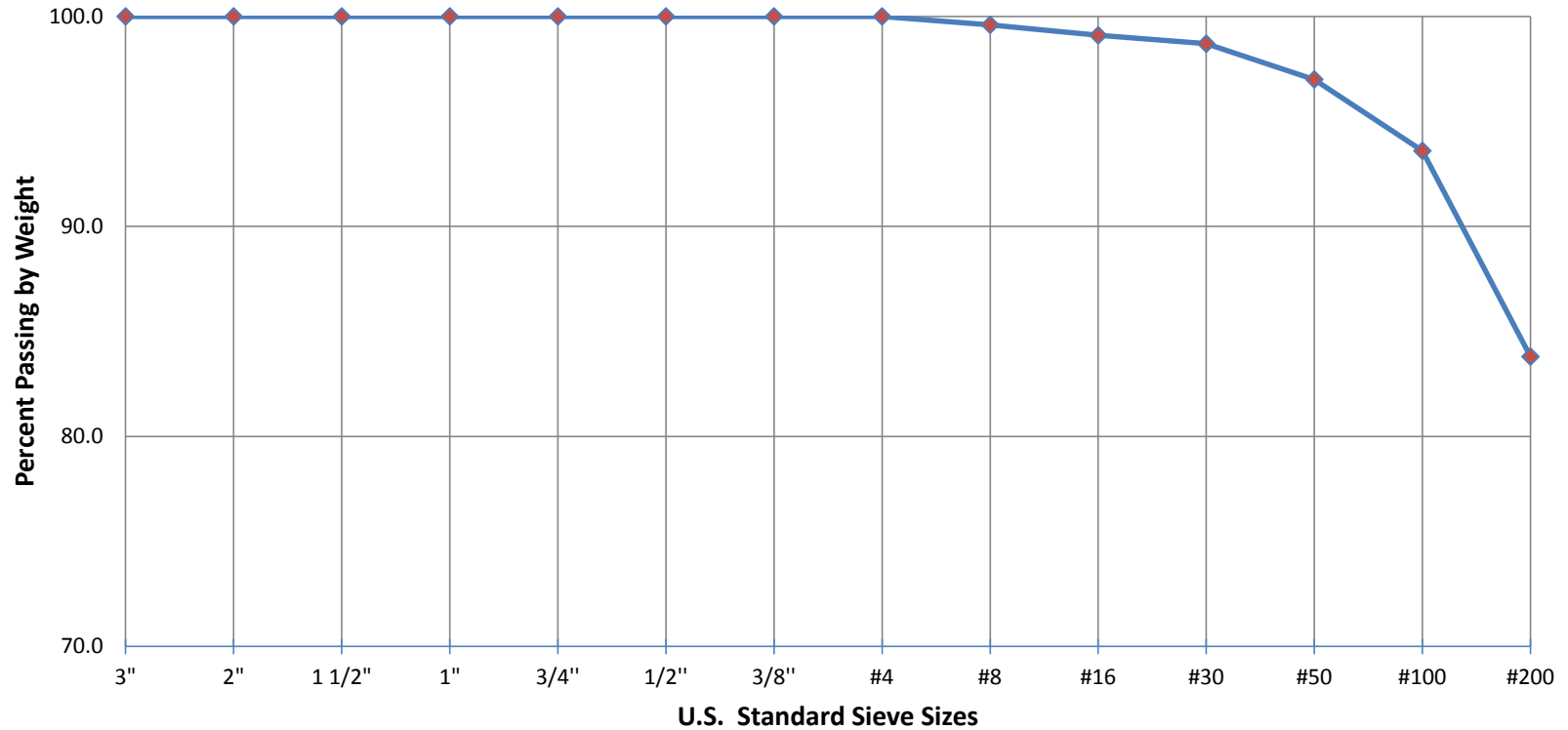
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	16.2	83.8

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-639		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-02
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-640
Laboratory Technician: VB

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	480.5
Original Dry Mass (D):	333.5
Moisture Loss (W - D):	147.0
% Moisture (100 x (W - D) / D):	44.1

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	319.5
Mass of fines lost by wash (D - Dw):	14.0
% -75 µm Sieve (100 x (D - Dw)/D):	4.2

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		2.5		0.7		99.3		
#4		44.0		13.2		86.8		
#8		68.0		20.4		79.6		
#16		101.0		30.3		69.7		
#30		151.5		45.4		54.6		
#50		242.0		72.6		27.4		
#100		301.5		90.4		9.6		
#200		317.5		95.2		4.8		
Pan		319.5		95.8	Calculate Fineness Modulus?		No	▼
Sub Total		319.5						
Loss on Wash (D - Dw)		14.0						
Total		333.5						

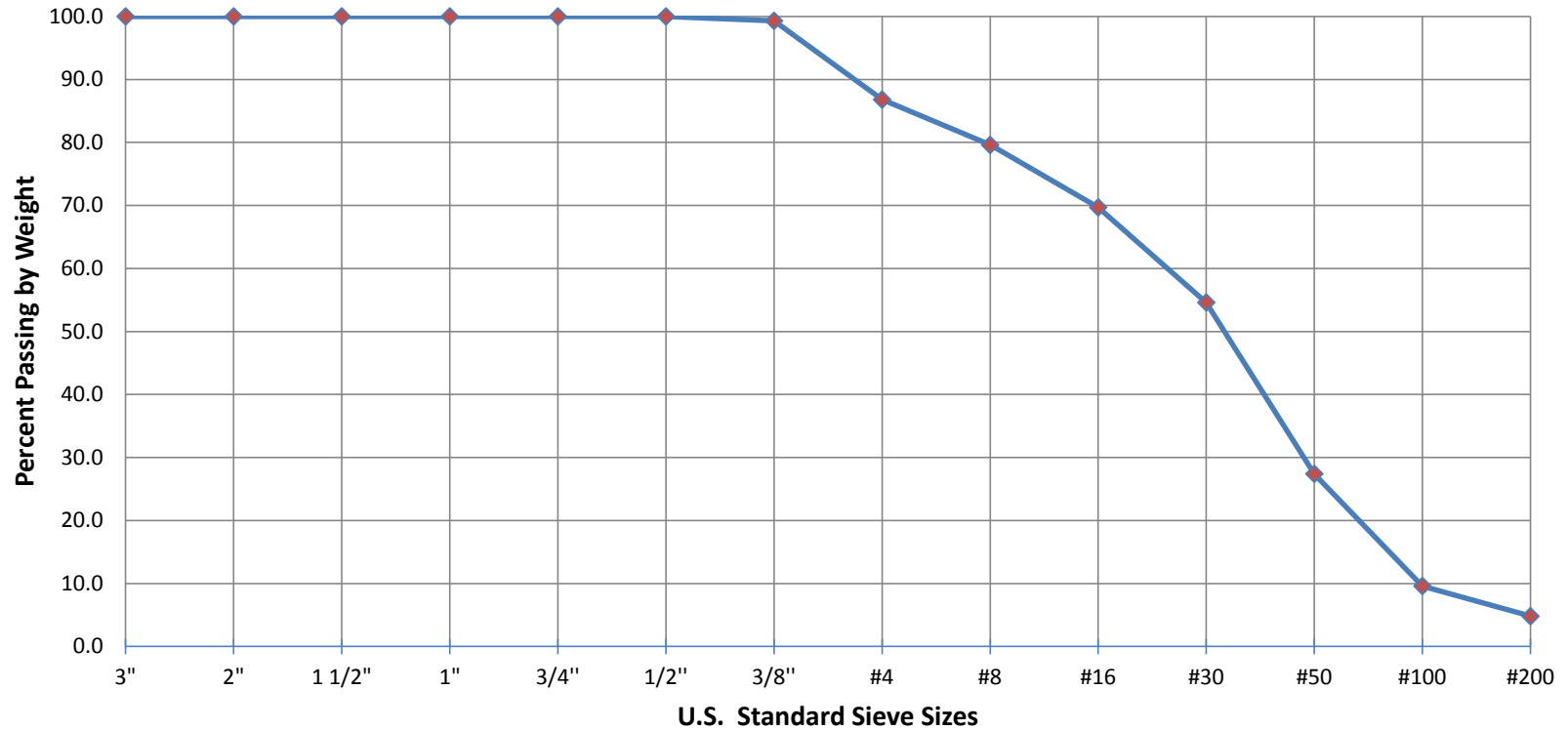
Comments:

Victoria Bonanno

Wendy Kerkhoff

Tested By: Victoria Bonanno	Reviewed By: Wendy Kerkhoff
Date: 12/28/2011	Date: 12/28/2011
Results Within Specification Limits: <input type="checkbox"/>	Results Outside Specification Limits: <input type="checkbox"/>

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
13.2	82.0	4.8

Client:	ESS	Date Recieved:	12/22/2011
Project:	1112350.00	Date Tested:	12/28/2011
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	VB
T.E.I. Sample/Report #:	11-S-640	Soil Description:	Sand & Silty Material
		Comments:	

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-03
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-641
Laboratory Technician: VB

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	446.0
Original Dry Mass (D):	96.0
Moisture Loss (W - D):	350.0
% Moisture (100 x (W - D) / D):	364.6

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	5.5
Mass of fines lost by wash (D - Dw):	90.5
% -75 µm Sieve (100 x (D - Dw)/D):	94.3

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		0.0		0.0		100.0		
#30		0.5		0.5		99.5		
#50		1.0		1.0		99.0		
#100		1.5		1.6		98.4		
#200		5.5		5.7		94.3		
Pan		5.5		5.7				
Sub Total		5.5						
Loss on Wash (D - Dw)		90.5						
Total		96.0						
					Calculate Fineness Modulus?	No		

Comments:

Victoria Bonanno

Wendy Kerkhoff

Tested By: Victoria Bonanno

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

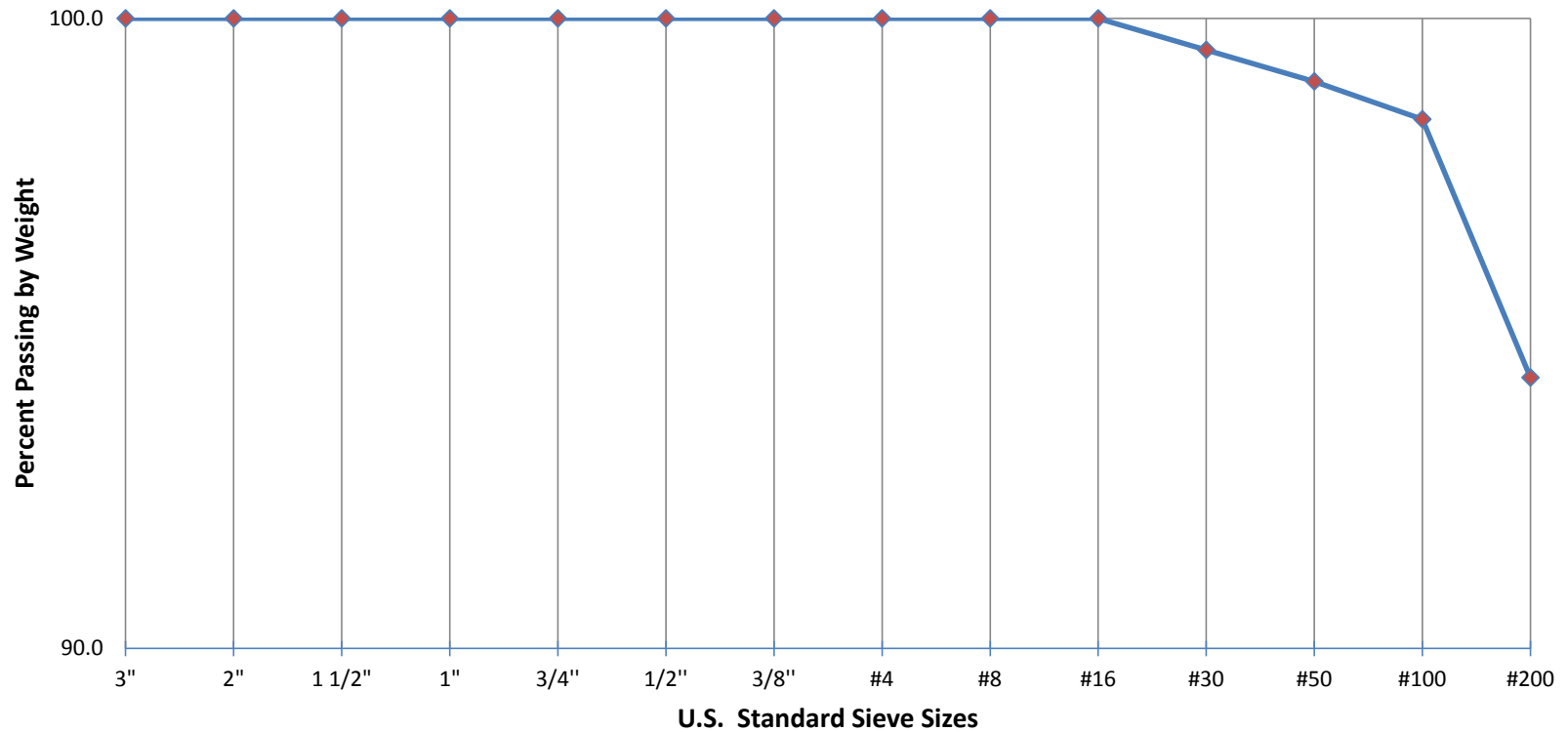
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	5.7	94.3

Client:	ESS	Date Recieved:	12/22/2011
Project:	1112350.00	Date Tested:	12/28/2011
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	VB
T.E.I. Sample/Report #:	11-S-641	Soil Description:	Silty Material
		Comments:	

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-04
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-642
Laboratory Technician: VB

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	469.0	Dry Mass after wash (Dw):	154.0
Original Dry Mass (D):	191.5	Mass of fines lost by wash (D - Dw):	37.5
Moisture Loss (W - D):	277.5	% -75 µm Sieve (100 x (D - Dw)/D):	19.6
% Moisture (100 x (W - D) / D):	144.9		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		1.5		0.8		99.2		
#8		5.5		2.9		97.1		
#16		15.0		7.8		92.2		
#30		35.0		18.3		81.7		
#50		73.5		38.4		61.6		
#100		116.5		60.8		39.2		
#200		152.5		79.6		20.4		
Pan		153.5		80.2	Calculate Fineness Modulus?		No	▼
Sub Total		153.5						
Loss on Wash (D - Dw)		37.5						
Total		191.0						

Comments:

Victoria Bonanno

Wendy Kerkhoff

Tested By: Victoria Bonanno

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

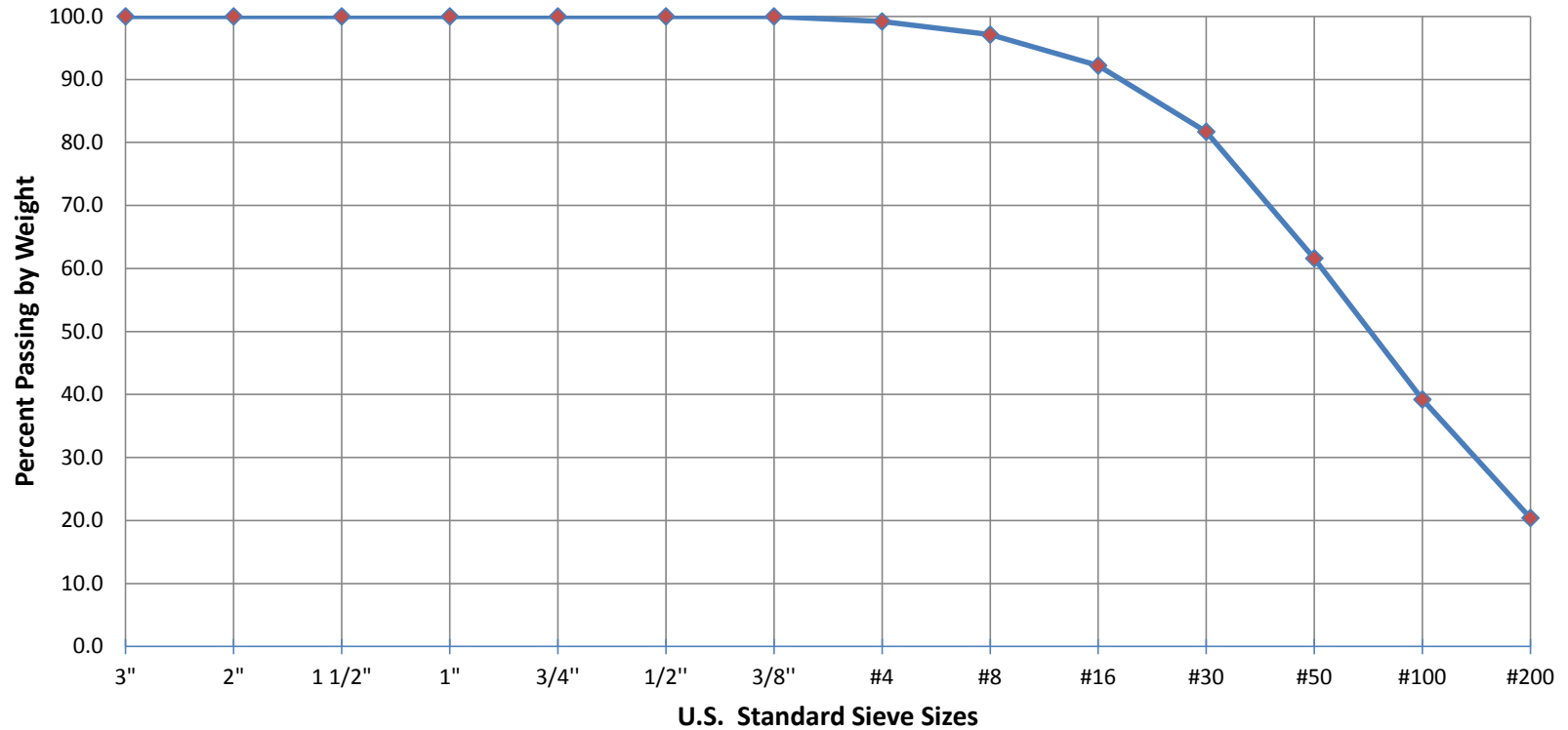
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.8	78.8	20.4

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sand & Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: VB	
T.E.I. Sample/Report #: 11-S-642		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-05
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-643
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	483.5	Dry Mass after wash (Dw):	391.0
Original Dry Mass (D):	399.5	Mass of fines lost by wash (D - Dw):	8.5
Moisture Loss (W - D):	84.0	% -75 µm Sieve (100 x (D - Dw)/D):	2.1
% Moisture (100 x (W - D) / D):	21.0		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		10.0		2.5		97.5		
1/2"		33.0		8.3		91.7		
3/8"		53.0		13.3		86.7		
#4		82.0		20.5		79.5		
#8		113.0		28.3		71.7		
#16		152.0		38.0		62.0		
#30		211.0		52.8		47.2		
#50		312.0		78.1		21.9		
#100		376.5		94.2		5.8		
#200		389.5		97.5		2.5		
Pan		390.0		97.6				
Sub Total		390.0						
Loss on Wash (D - Dw)		8.5						
Total		398.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

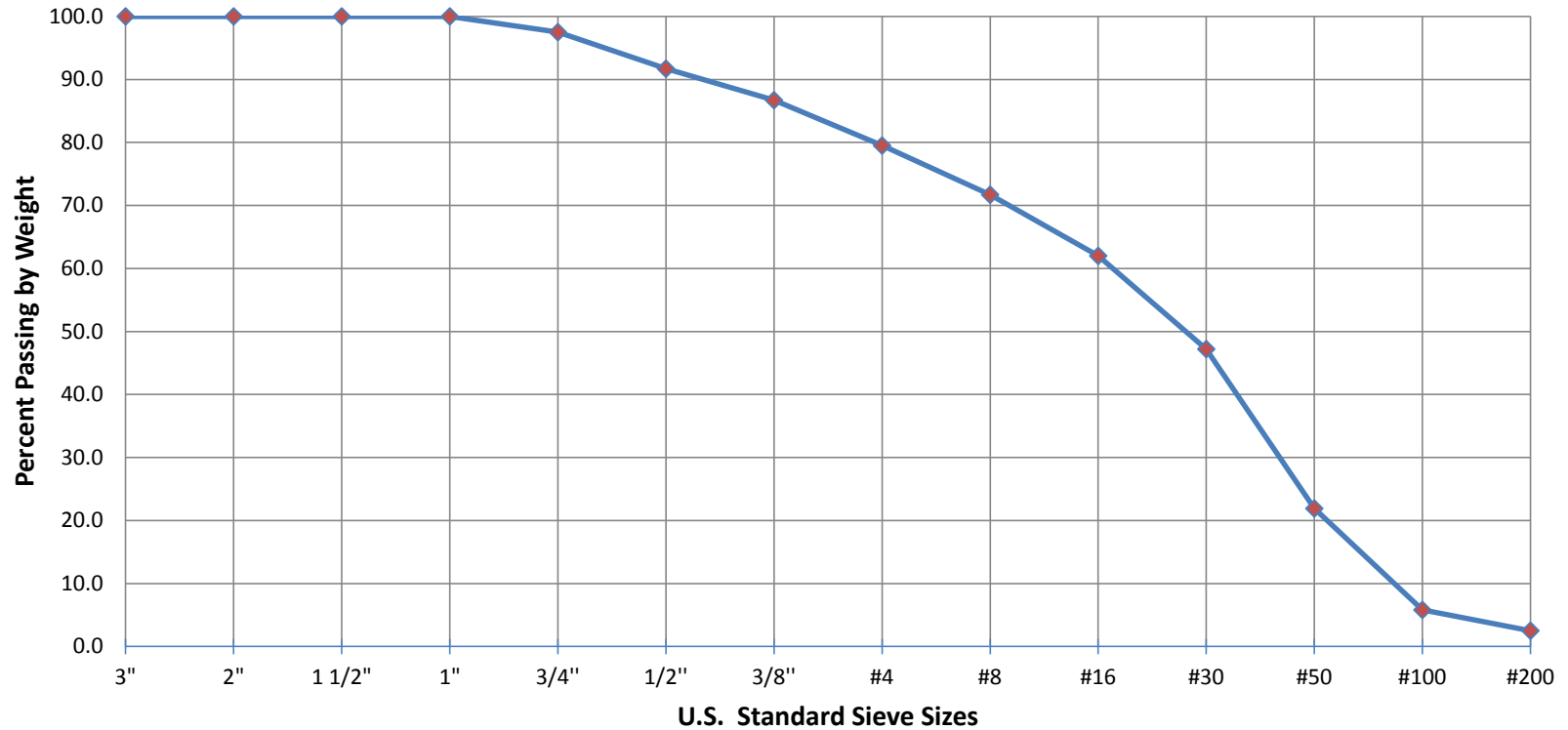
Laboratory Supervisor

Date: 12/28/2011 Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
20.5	77.0	2.5

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sand & Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-643		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-06
Soil Description: Sand & Silty Material

Date Recieved: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-644
Laboratory Technician: VB

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	456.0	Dry Mass after wash (Dw):	194.5
Original Dry Mass (D):	384.0	Mass of fines lost by wash (D - Dw):	189.5
Moisture Loss (W - D):	72.0	% -75 µm Sieve (100 x (D - Dw)/D):	49.3
% Moisture (100 x (W - D) / D):	18.8		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		8.0		2.1		97.9		
3/8"		10.5		2.7		97.3		
#4		24.0		6.3		93.7		
#8		36.5		9.5		90.5		
#16		51.5		13.4		86.6		
#30		79.5		20.7		79.3		
#50		148.0		38.5		61.5		
#100		186.5		48.6		51.4		
#200		194.0		50.5		49.5		
Pan		194.0		50.5	Calculate Fineness Modulus?		No	▼
Sub Total		194.0						
Loss on Wash (D - Dw)		189.5						
Total		383.5						

Comments:

Victoria Bonanno

Wendy Kerkhoff

Tested By: Victoria Bonanno

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

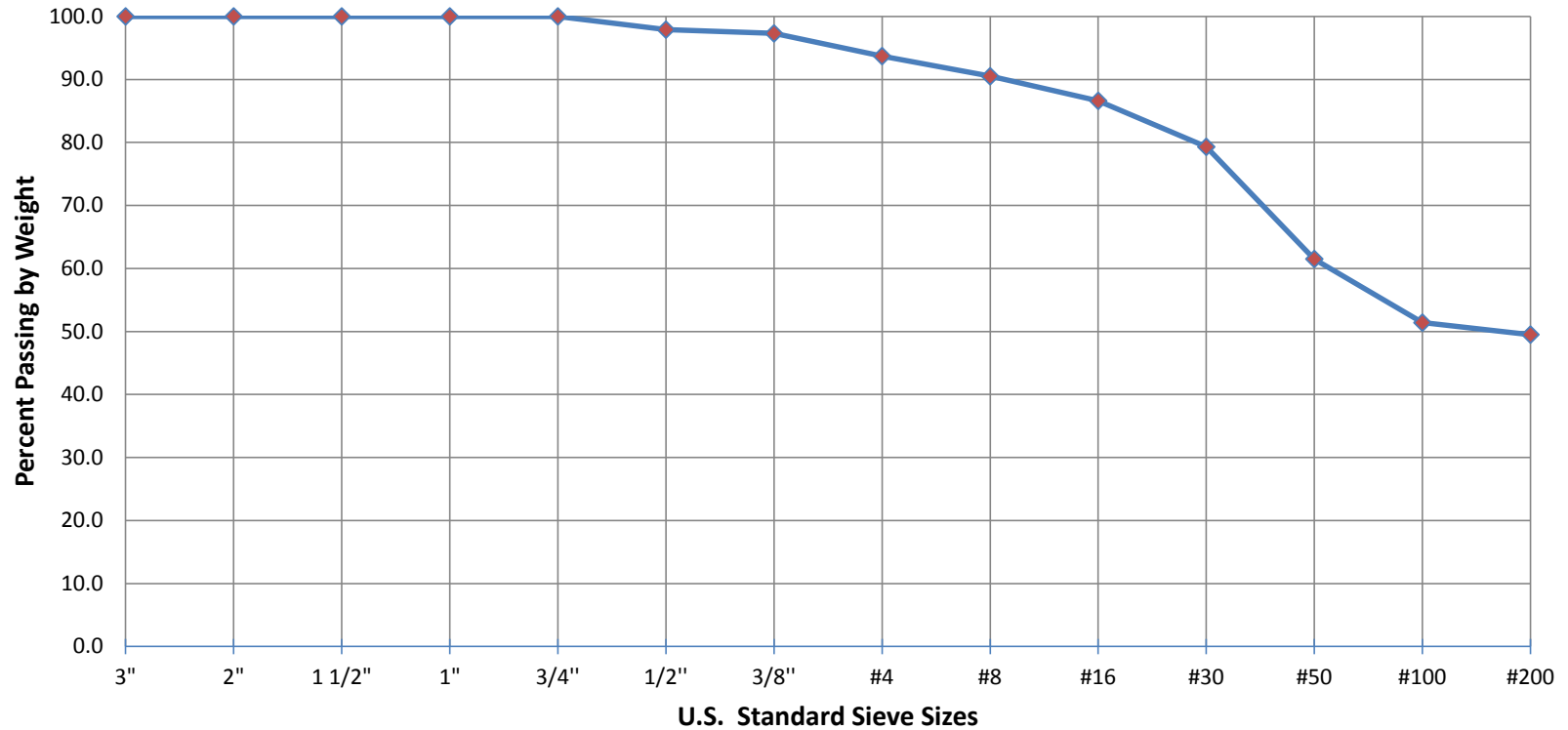
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
6.3	44.2	49.5

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sand & Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: VB	
T.E.I. Sample/Report #: 11-S-644		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-07
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-645
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	474.5	Dry Mass after wash (Dw):	43.0
Original Dry Mass (D):	76.0	Mass of fines lost by wash (D - Dw):	33.0
Moisture Loss (W - D):	398.5	% -75 µm Sieve (100 x (D - Dw)/D):	43.4
% Moisture (100 x (W - D) / D):	524.3		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		7.0		9.2		90.8		
#30		21.0		27.6		72.4		
#50		29.0		38.2		61.8		
#100		35.5		46.7		53.3		
#200		41.5		54.6		45.4		
Pan		43.0		56.6				
Sub Total		43.0						
Loss on Wash (D - Dw)		33.0						
Total		76.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

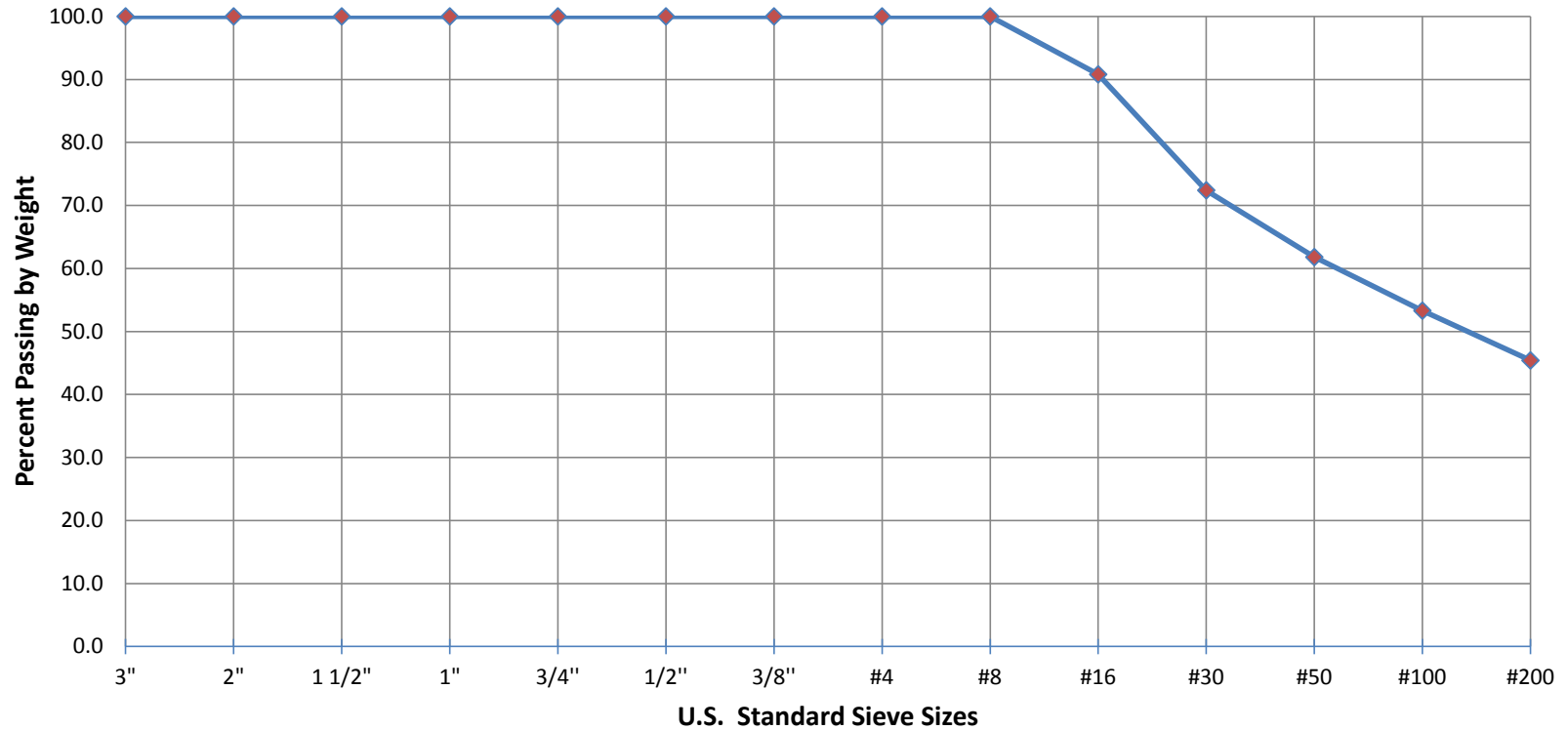
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	54.6	45.4

Client:	ESS	Date Recieved:	12/22/2011	Soil Description:	Silty Material
Project:	1112350.00	Date Tested:	12/28/2011	Comments:	
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL		
T.E.I. Sample/Report #:	11-S-645				

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-08
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-646
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	504.5
Original Dry Mass (D):	97.5
Moisture Loss (W - D):	407.0
% Moisture (100 x (W - D) / D):	417.4

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	36.5
Mass of fines lost by wash (D - Dw):	61.0
% -75 µm Sieve (100 x (D - Dw)/D):	62.6

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		4.0		4.1		95.9		
#30		12.5		12.8		87.2		
#50		20.5		21.0		79.0		
#100		26.5		27.2		72.8		
#200		35.5		36.4		63.6		
Pan		36.5		37.4				
Sub Total		36.5						
Loss on Wash (D - Dw)		61.0						
Total		97.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

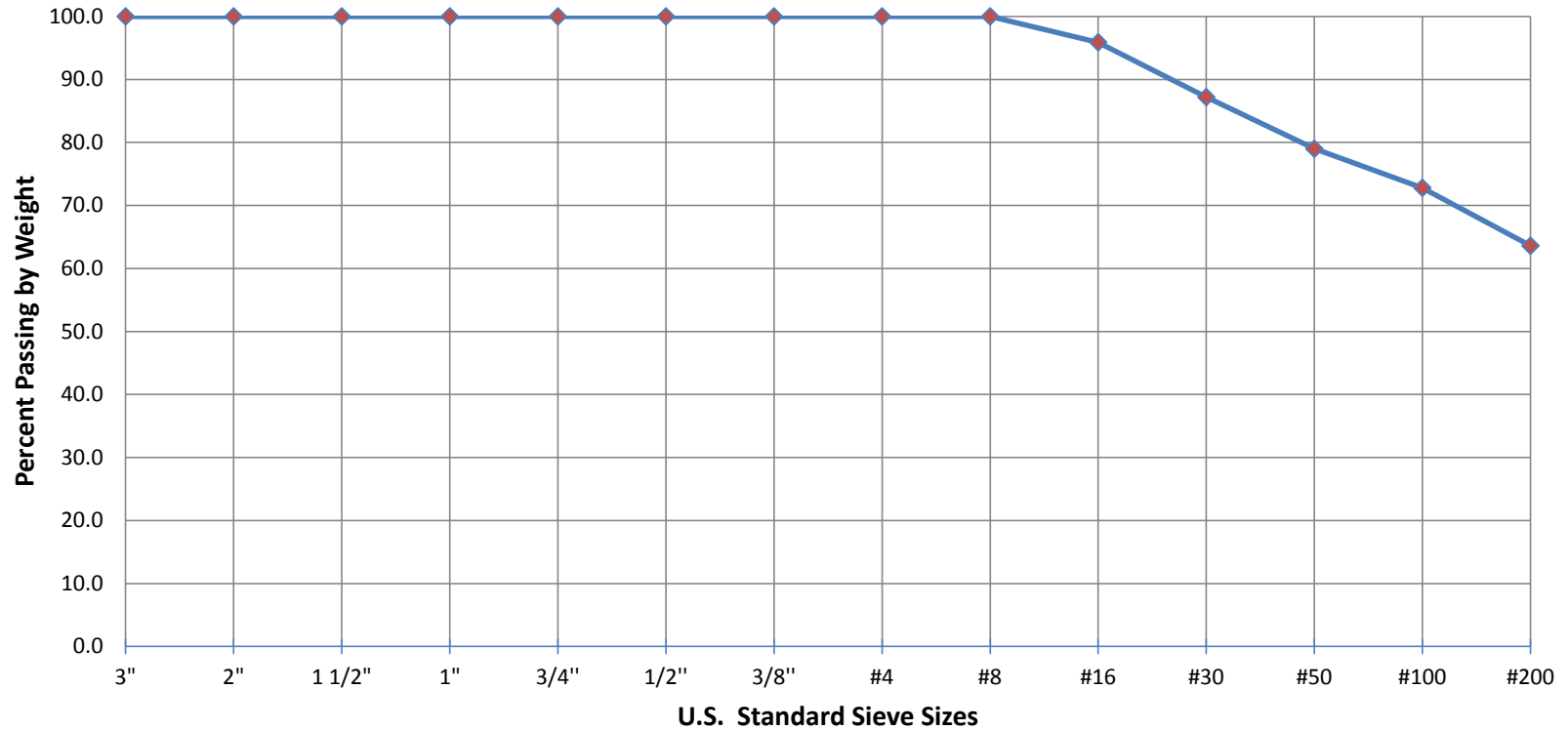
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	36.4	63.6

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-646		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-09
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-647
Laboratory Technician: VB

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	476.0
Original Dry Mass (D):	379.0
Moisture Loss (W - D):	97.0
% Moisture (100 x (W - D) / D):	25.6

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	364.5
Mass of fines lost by wash (D - Dw):	14.5
% -75 µm Sieve (100 x (D - Dw)/D):	3.8

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		8.5		2.2		97.8		
3/8"		28.5		7.5		92.5		
#4		56.0		14.8		85.2		
#8		90.0		23.7		76.3		
#16		140.5		37.1		62.9		
#30		214.5		56.6		43.4		
#50		312.0		82.3		17.7		
#100		340.0		89.7		10.3		
#200		363.0		95.8		4.2		
Pan		364.0		96.0				
Sub Total		364.0						
Loss on Wash (D - Dw)		14.5						
Total		378.5						

Calculate Fineness Modulus? No ▼

Comments:

Victoria Bonanno

Wendy Kerkhoff

Tested By: Victoria Bonanno Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

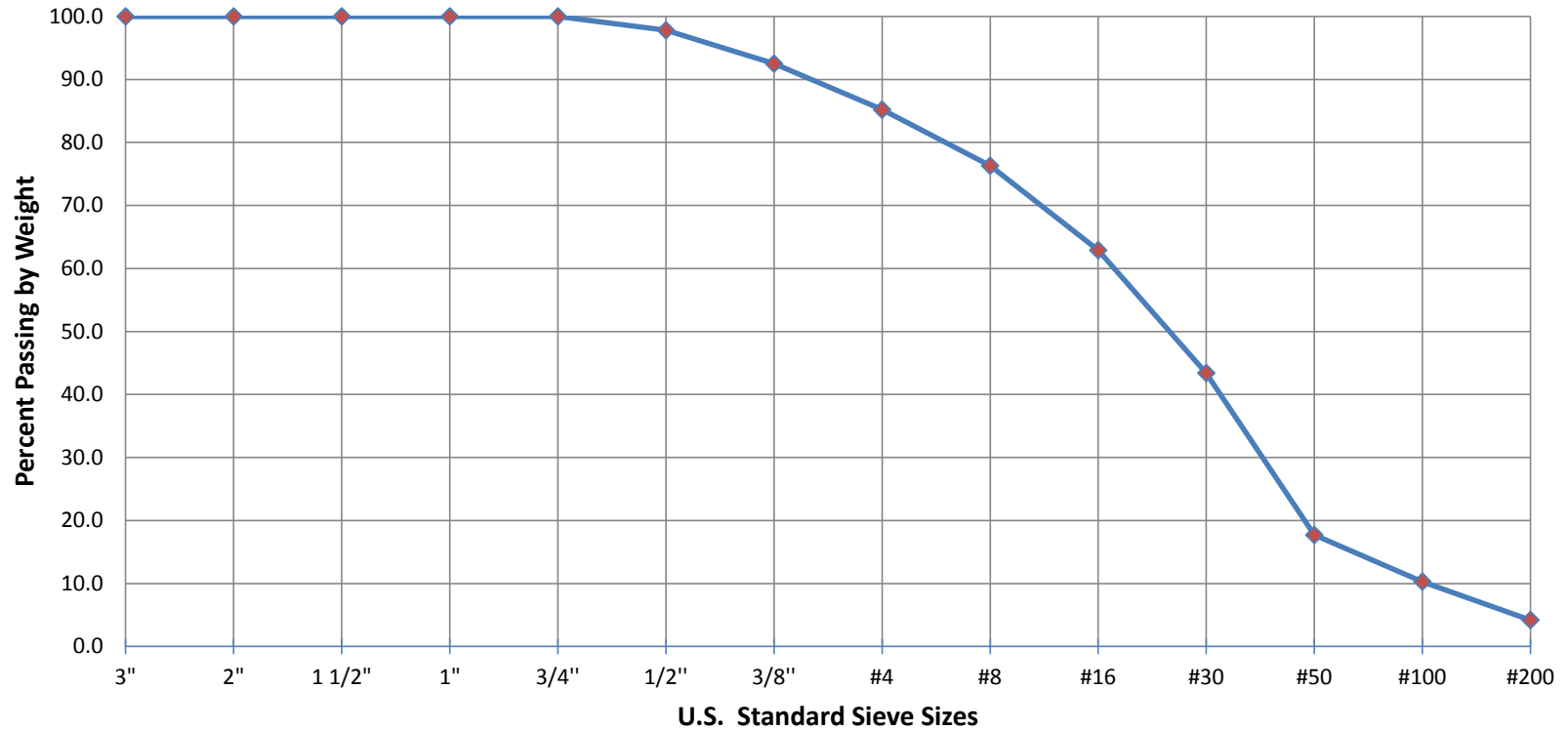
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
14.8	81.0	4.2

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sand & Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: VB	
T.E.I. Sample/Report #: 11-S-647		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-10
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-648
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	524.0	Dry Mass after wash (Dw):	427.5
Original Dry Mass (D):	446.5	Mass of fines lost by wash (D - Dw):	19.0
Moisture Loss (W - D):	77.5	% -75 µm Sieve (100 x (D - Dw)/D):	4.3
% Moisture (100 x (W - D) / D):	17.4		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		58.5		13.1		86.9		
3/8"		73.5		16.5		83.5		
#4		113.5		25.4		74.6		
#8		154.0		34.5		65.5		
#16		198.5		44.5		55.5		
#30		260.0		58.2		41.8		
#50		366.0		82.0		18.0		
#100		412.0		92.3		7.7		
#200		426.5		95.5		4.5		
Pan		427.5		95.7				
Sub Total		427.5						
Loss on Wash (D - Dw)		19.0						
Total		446.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

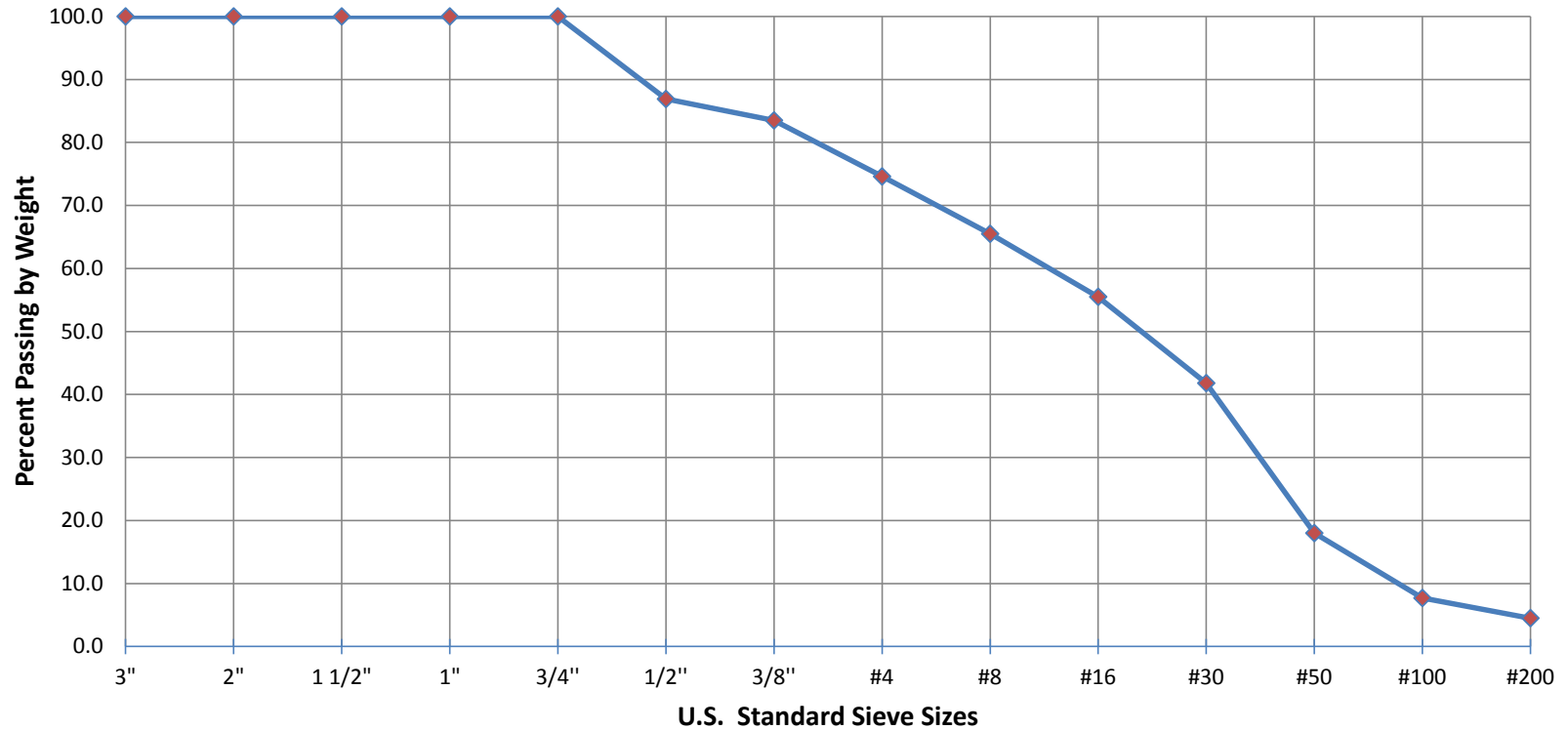
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
25.4	70.1	4.5

Client:	ESS	Date Recieved:	12/22/2011	Soil Description:	Sand & Silty Material
Project:	1112350.00	Date Tested:	12/28/2011	Comments:	
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL		
T.E.I. Sample/Report #:	11-S-648				

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-11
Soil Description: Sandy Gravel

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-649
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	611.0
Original Dry Mass (D):	535.0
Moisture Loss (W - D):	76.0
% Moisture (100 x (W - D) / D):	14.2

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	523.5
Mass of fines lost by wash (D - Dw):	11.5
% -75 µm Sieve (100 x (D - Dw)/D):	2.1

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		74.5		13.9		86.1		
3/4"		127.5		23.8		76.2		
1/2"		167.5		31.3		68.7		
3/8"		180.0		33.6		66.4		
#4		223.5		41.8		58.2		
#8		275.0		51.4		48.6		
#16		330.0		61.7		38.3		
#30		391.0		73.1		26.9		
#50		475.0		88.8		11.2		
#100		512.5		95.8		4.2		
#200		522.5		97.7		2.3		
Pan		523.5		97.9				
Sub Total		523.5						
Loss on Wash (D - Dw)		11.5						
Total		535.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

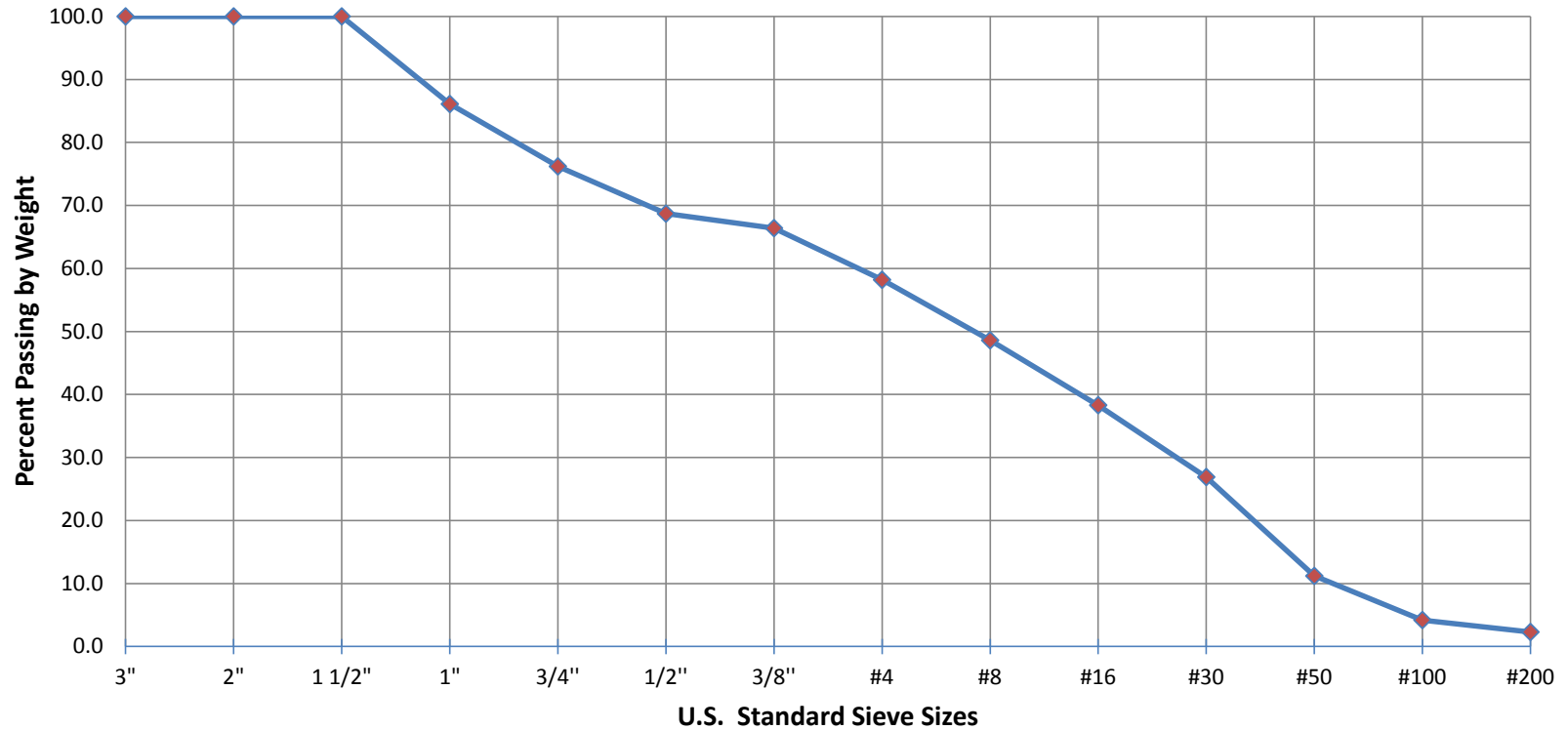
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
41.8	55.9	2.3

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sandy Gravel
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-649		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-12
Soil Description: Sand & Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-650
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	486.0	Dry Mass after wash (Dw):	272.5
Original Dry Mass (D):	411.0	Mass of fines lost by wash (D - Dw):	138.5
Moisture Loss (W - D):	75.0	% -75 µm Sieve (100 x (D - Dw)/D):	33.7
% Moisture (100 x (W - D) / D):	18.2		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.5		0.1		99.9		
#16		2.0		0.5		99.5		
#30		26.5		6.4		93.6		
#50		163.0		39.7		60.3		
#100		256.5		62.4		37.6		
#200		271.5		66.1		33.9		
Pan		272.5		66.3				
Sub Total		272.5						
Loss on Wash (D - Dw)		138.5						
Total		411.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

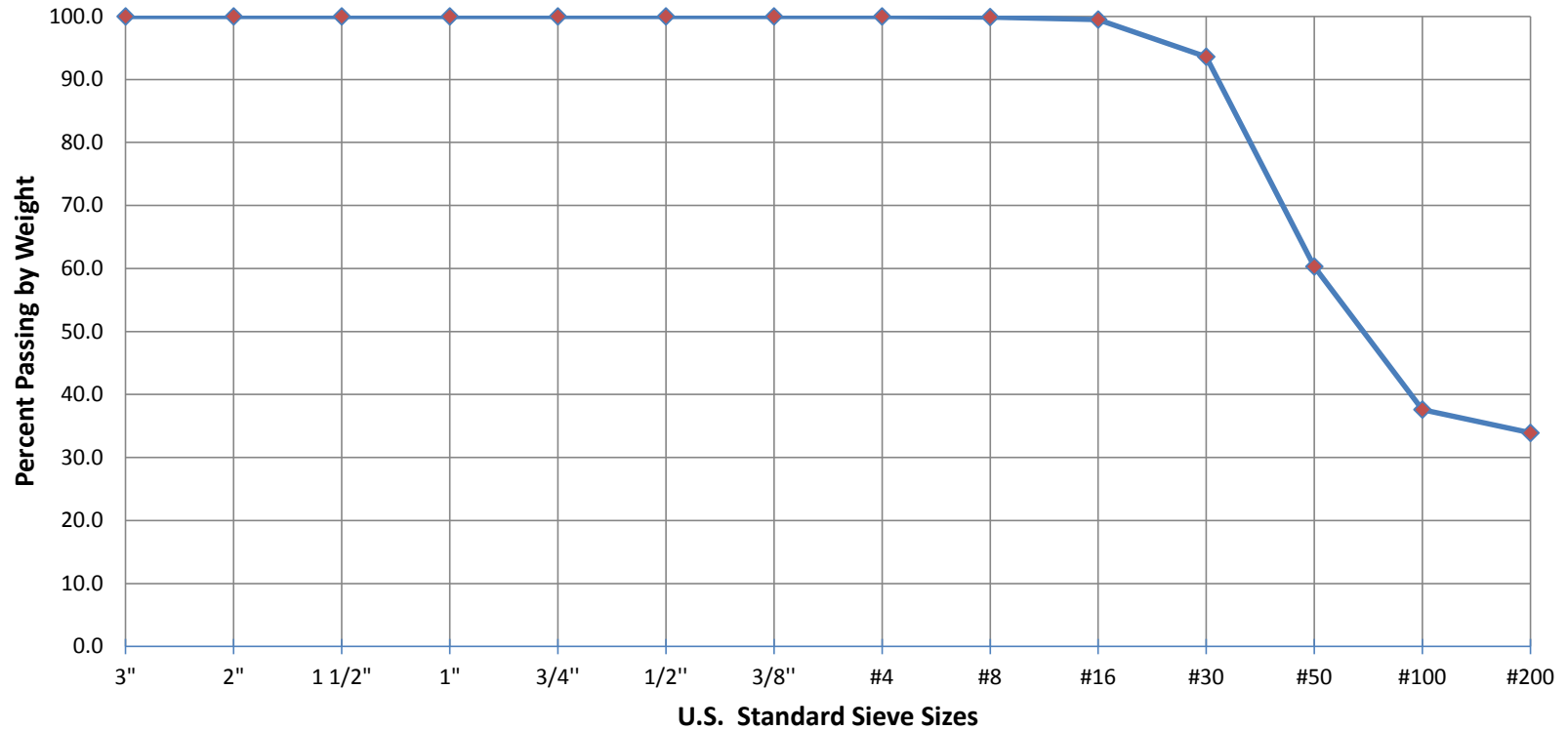
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	66.1	33.9

Client:	ESS	Date Recieved:	12/22/2011	Soil Description:	Sand & Silty Material
Project:	1112350.00	Date Tested:	12/28/2011	Comments:	
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL		
T.E.I. Sample/Report #:	11-S-650				

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-13
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-651
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	358.0	Dry Mass after wash (Dw):	11.5
Original Dry Mass (D):	115.5	Mass of fines lost by wash (D - Dw):	104.0
Moisture Loss (W - D):	242.5	% -75 µm Sieve (100 x (D - Dw)/D):	90.0
% Moisture (100 x (W - D) / D):	210.0		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.5		0.4		99.6		
#16		1.0		0.9		99.1		
#30		1.5		1.3		98.7		
#50		2.0		1.7		98.3		
#100		10.0		8.7		91.3		
#200		11.0		9.5		90.5		
Pan		11.5		10.0				
Sub Total		11.5						
Loss on Wash (D - Dw)		104.0						
Total		115.5						
						Calculate Fineness Modulus?	No	▼

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

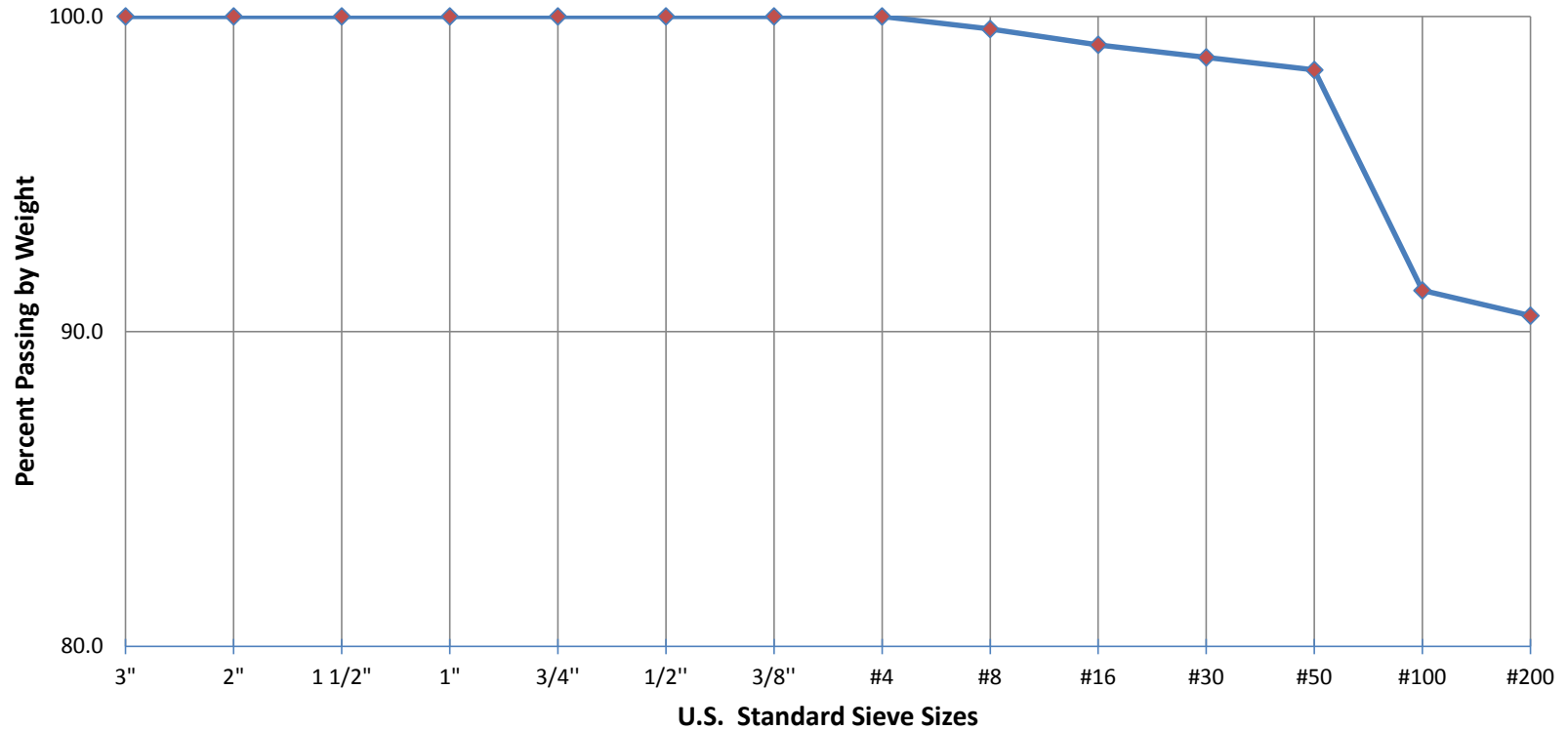
Laboratory Supervisor

Date: 12/28/2011 Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	9.5	90.5

Client:	ESS	Date Recieved:	12/22/2011
Project:	1112350.00	Date Tested:	12/28/2011
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL
T.E.I. Sample/Report #:	11-S-651	Soil Description:	Silty Material
		Comments:	

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-14
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-652
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	343.0	Dry Mass after wash (Dw):	35.5
Original Dry Mass (D):	126.0	Mass of fines lost by wash (D - Dw):	90.5
Moisture Loss (W - D):	217.0	% -75 µm Sieve (100 x (D - Dw)/D):	71.8
% Moisture (100 x (W - D) / D):	172.2		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		0.5		0.4		99.6		
#30		2.5		2.0		98.0		
#50		5.5		4.4		95.6		
#100		11.5		9.1		90.9		
#200		34.5		27.4		72.6		
Pan		35.5		28.2				
Sub Total		35.5						
Loss on Wash (D - Dw)		90.5						
Total		126.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

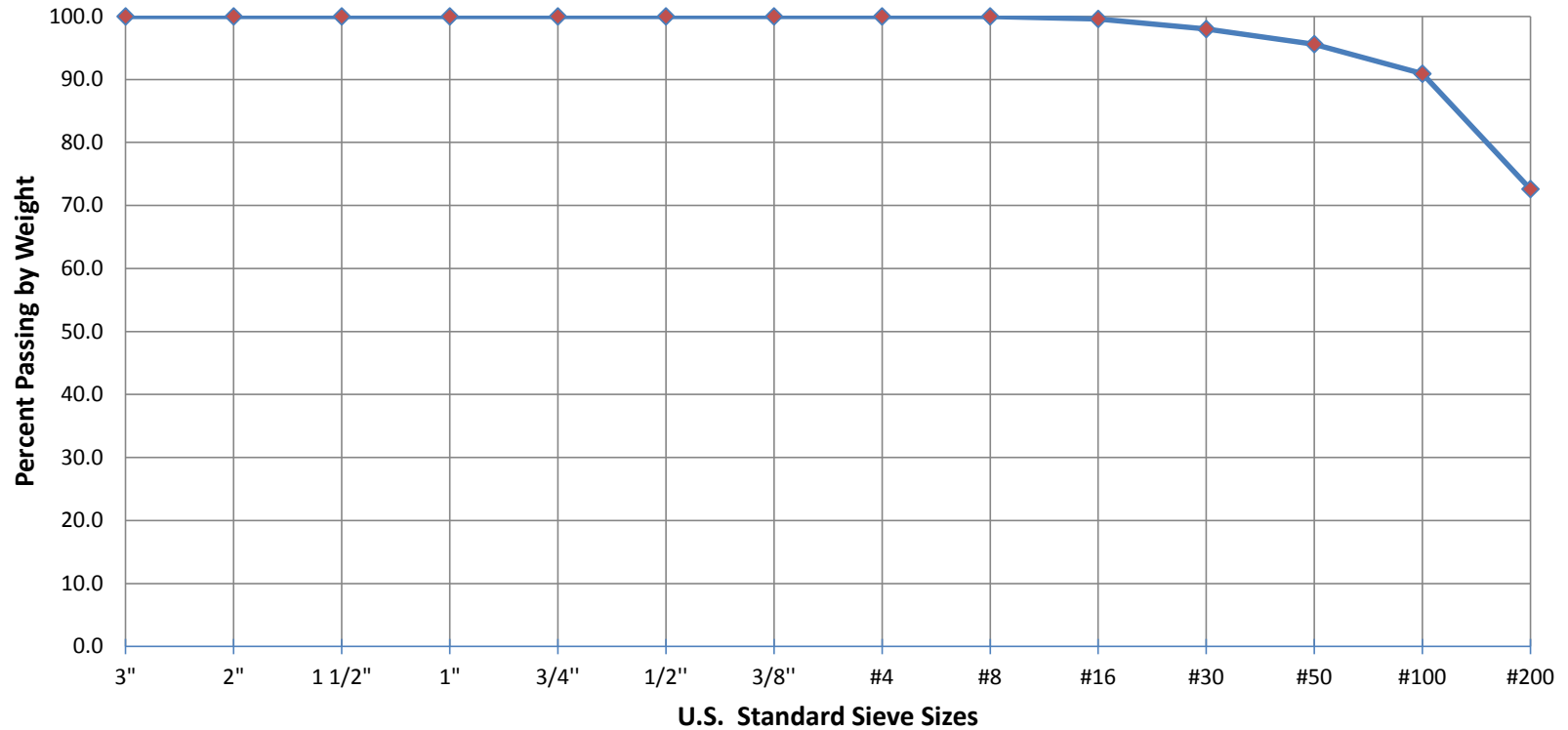
Date: 12/28/2011

Date: 12/28/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	27.4	72.6

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-652		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-15
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/29/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-653
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	335.5	Dry Mass after wash (Dw):	19.5
Original Dry Mass (D):	78.0	Mass of fines lost by wash (D - Dw):	58.5
Moisture Loss (W - D):	257.5	% -75 µm Sieve (100 x (D - Dw)/D):	75.0
% Moisture (100 x (W - D) / D):	330.1		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		0.5		0.6		99.4		
#30		1.0		1.3		98.7		
#50		2.0		2.6		97.4		
#100		5.0		6.4		93.6		
#200		18.5		23.7		76.3		
Pan		19.5		25.0				
Sub Total		19.5						
Loss on Wash (D - Dw)		58.5						
Total		78.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

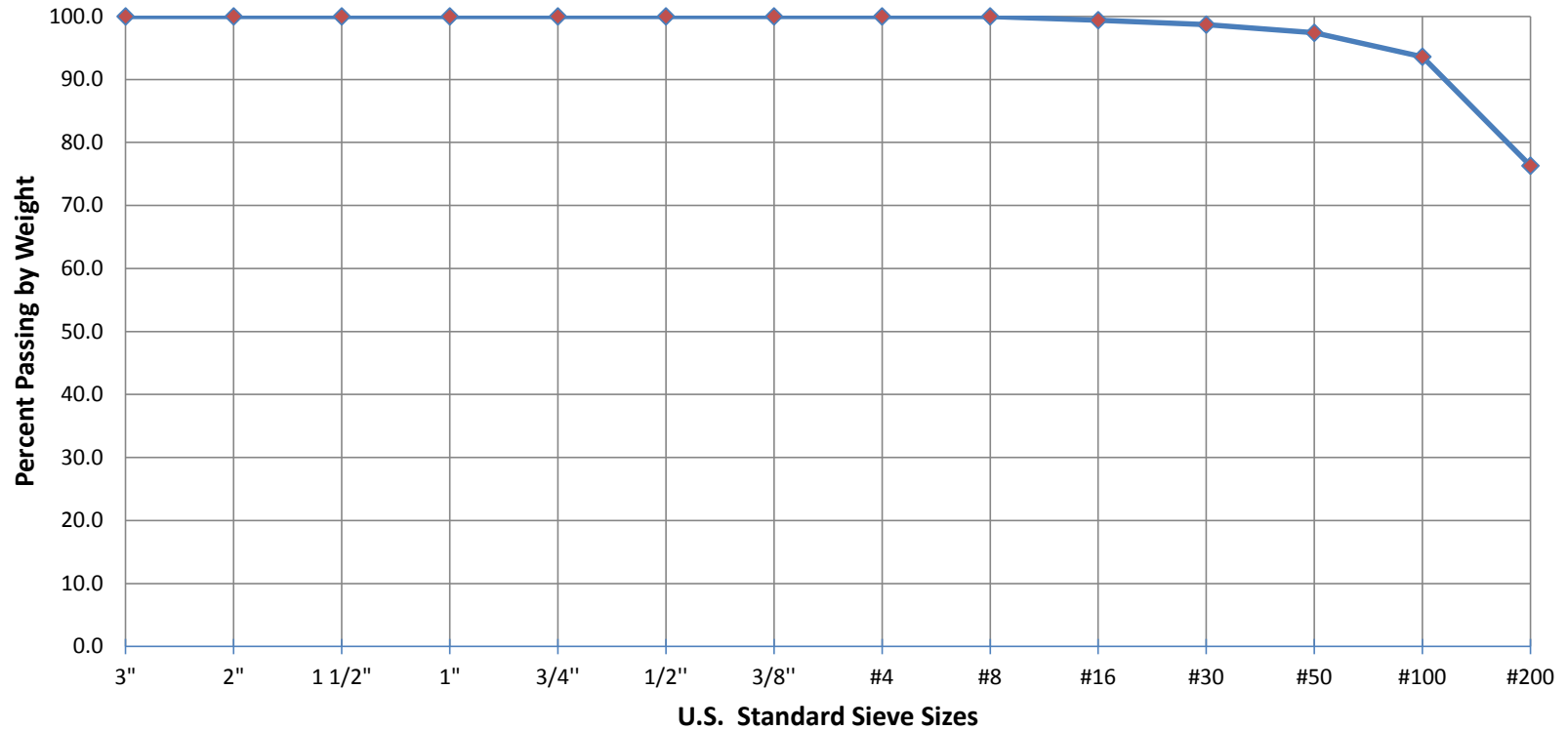
Date: 12/29/2011

Date: 12/29/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	23.7	76.3

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/29/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-653		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-16
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/29/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-654
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	414.5	Dry Mass after wash (Dw):	55.0
Original Dry Mass (D):	66.0	Mass of fines lost by wash (D - Dw):	11.0
Moisture Loss (W - D):	348.5	% -75 µm Sieve (100 x (D - Dw)/D):	16.7
% Moisture (100 x (W - D) / D):	528.0		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		8.0		12.1		87.9		
#30		29.5		44.7		55.3		
#50		41.5		62.9		37.1		
#100		48.0		72.7		27.3		
#200		51.5		78.0		22.0		
Pan		54.5		82.6				
Sub Total		54.5						
Loss on Wash (D - Dw)		11.0						
Total		65.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

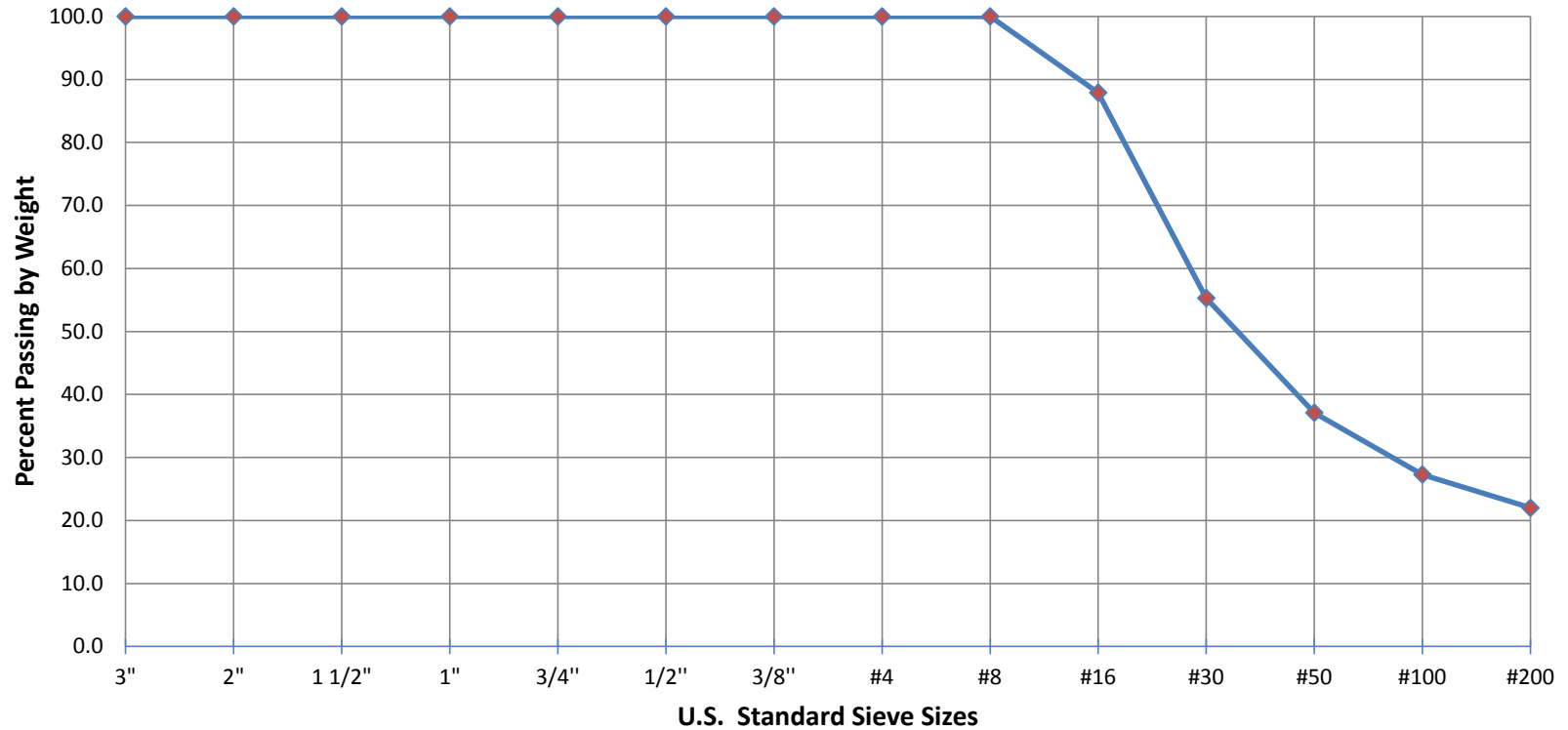
Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/29/2011 Date: 12/29/2011

Results Within Specification Limits: Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	78.0	22

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/29/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-654		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-17
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/29/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-655
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	429.0	Dry Mass after wash (Dw):	41.5
Original Dry Mass (D):	73.0	Mass of fines lost by wash (D - Dw):	31.5
Moisture Loss (W - D):	356.0	% -75 µm Sieve (100 x (D - Dw)/D):	43.2
% Moisture (100 x (W - D) / D):	487.7		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		5.5		7.5		92.5		
#30		16.0		21.9		78.1		
#50		25.5		34.9		65.1		
#100		33.0		45.2		54.8		
#200		42.0		57.5		42.5		
Pan		42.0		57.5				
Sub Total		42.0						
Loss on Wash (D - Dw)		31.5						
Total		73.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

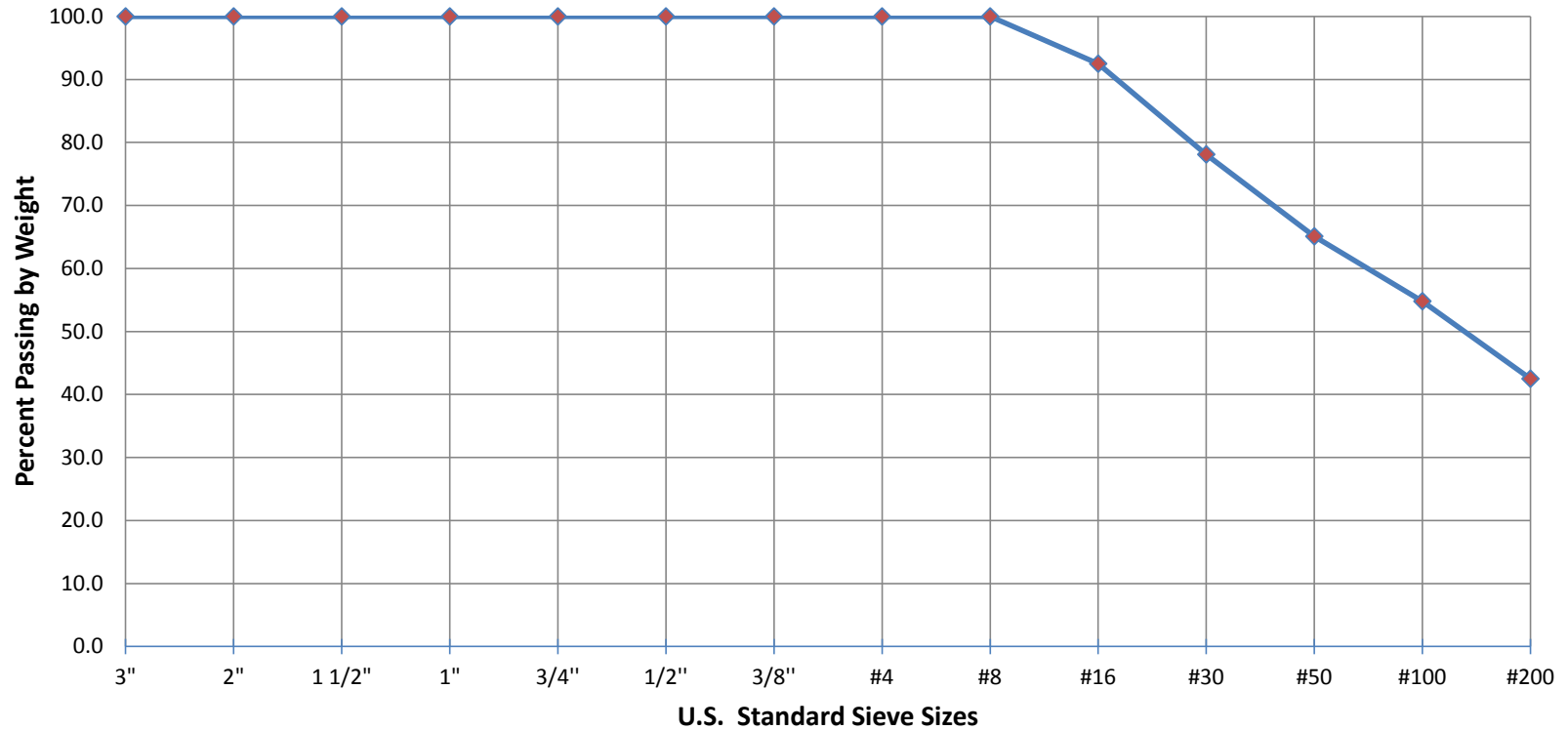
Date: 12/29/2011

Date: 12/29/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	57.5	42.5

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/29/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-655		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-18
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/29/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-656
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	278.0	Dry Mass after wash (Dw):	17.5
Original Dry Mass (D):	74.0	Mass of fines lost by wash (D - Dw):	56.5
Moisture Loss (W - D):	204.0	% -75 µm Sieve (100 x (D - Dw)/D):	76.4
% Moisture (100 x (W - D) / D):	275.7		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.0		0.0		100.0		
#16		0.5		0.7		99.3		
#30		2.5		3.4		96.6		
#50		4.5		6.1		93.9		
#100		6.5		8.8		91.2		
#200		16.5		22.3		77.7		
Pan		17.5		23.6				
Sub Total		17.5						
Loss on Wash (D - Dw)		56.5						
Total		74.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

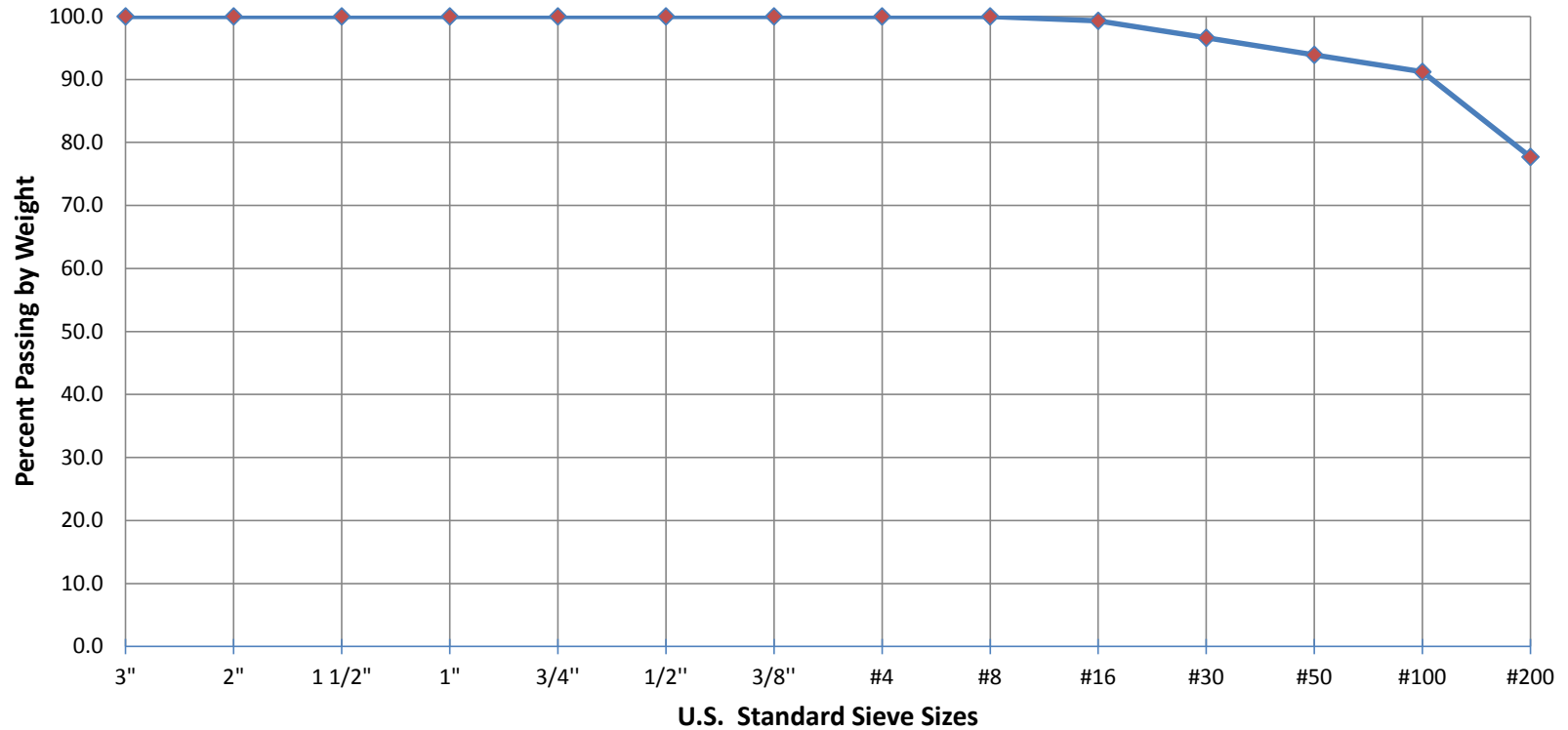
Date: 12/29/2011

Date: 12/29/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	22.3	77.7

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112350.00	Date Tested: 12/29/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-656		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112350
Client Sample I.D. #: 1112350-19
Soil Description: Sandy Gravel

Date Received: 12/22/2011
Date Tested: 12/29/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-657
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	586.0
Original Dry Mass (D):	535.0
Moisture Loss (W - D):	51.0
% Moisture (100 x (W - D) / D):	9.5

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	528.5
Mass of fines lost by wash (D - Dw):	6.5
% -75 µm Sieve (100 x (D - Dw)/D):	1.2

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		48.5		9.1		90.9		
3/4"		48.5		9.1		90.9		
1/2"		80.5		15.0		85.0		
3/8"		123.0		23.0		77.0		
#4		195.0		36.4		63.6		
#8		249.5		46.6		53.4		
#16		310.5		58.0		42.0		
#30		385.5		72.1		27.9		
#50		483.0		90.3		9.7		
#100		517.0		96.6		3.4		
#200		528.0		98.7		1.3		
Pan		528.5		98.8				
Sub Total		528.5						
Loss on Wash (D - Dw)		6.5						
Total		535.0						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

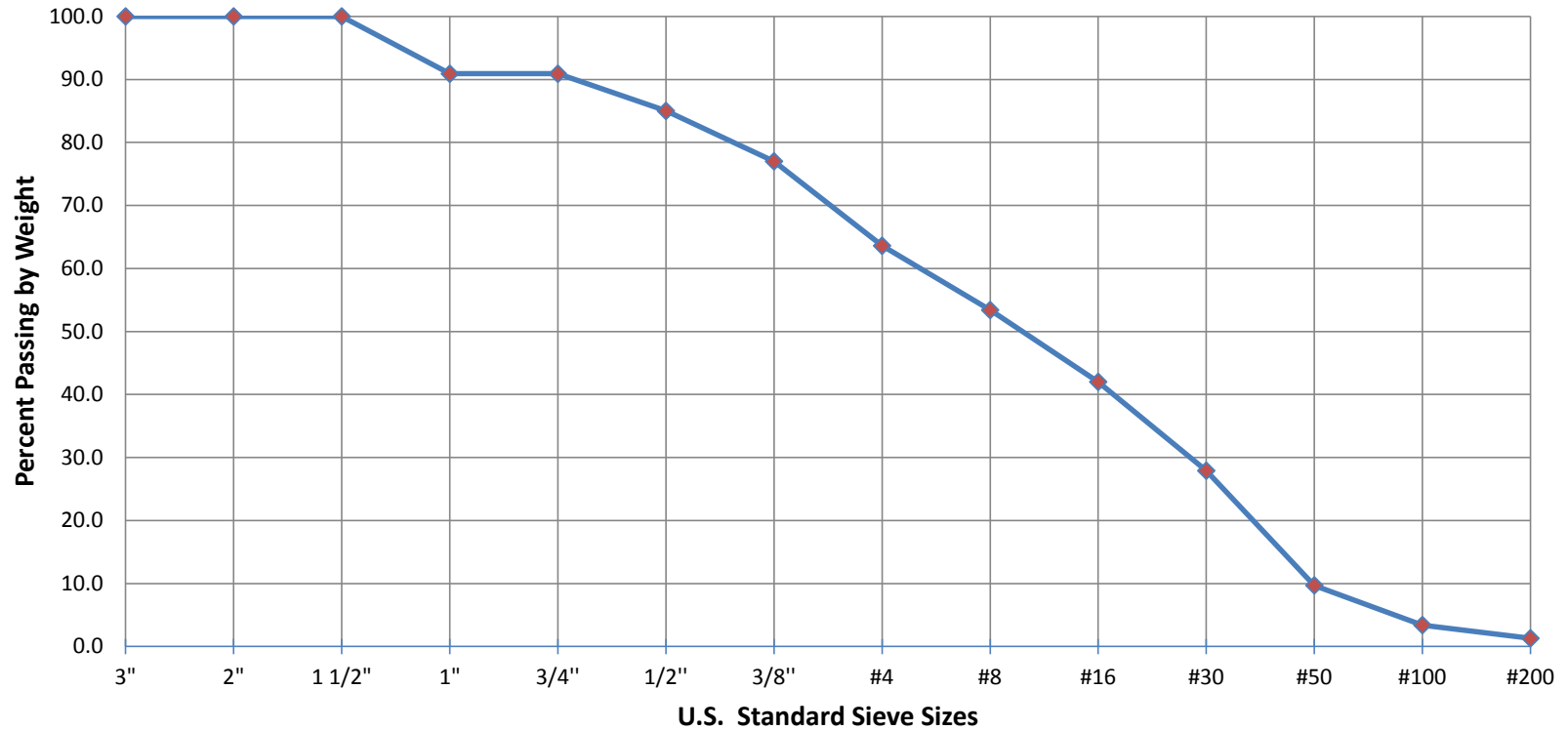
Date: 12/29/2011

Date: 12/29/2011

Results Within Specification Limits:

Results Outside Specification Limits:

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
36.4	62.3	1.3

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sandy Gravel
Project: 1112350.00	Date Tested: 12/29/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-657		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-38332-1
Client Project/Site: 112350

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk



Authorized for release by:
12/29/2011 2:14:27 PM

Joe Chimi
Report Production Representative
joe.chimi@testamericainc.com

Designee for
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Job ID: 360-38332-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/21/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

TOTAL ORGANIC CARBON

Samples 1112350-01 (360-38332-1), 1112350-02 (360-38332-2), 1112350-03 (360-38332-3), 1112350-04 (360-38332-4), 1112350-05 (360-38332-5), 1112350-06 (360-38332-6), 1112350-07 (360-38332-7), 1112350-08 (360-38332-8), 1112350-09 (360-38332-9), 1112350-10 (360-38332-10), 1112350-11 (360-38332-11), 1112350-12 (360-38332-12), 1112350-13 (360-38332-13), 1112350-14 (360-38332-14), 1112350-15 (360-38332-15), 1112350-16 (360-38332-16), 1112350-17 (360-38332-17), 1112350-18 (360-38332-18) and 1112350-19 (360-38332-19) were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 12/23/2011, 12/27/2011 and 12/28/2011.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-01

Lab Sample ID: 360-38332-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	130000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-02

Lab Sample ID: 360-38332-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	10000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-03

Lab Sample ID: 360-38332-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	99000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-04

Lab Sample ID: 360-38332-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	54000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-05

Lab Sample ID: 360-38332-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	6700		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-06

Lab Sample ID: 360-38332-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2800		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-07

Lab Sample ID: 360-38332-7

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	130000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-08

Lab Sample ID: 360-38332-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	150000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-09

Lab Sample ID: 360-38332-9

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	10000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-10

Lab Sample ID: 360-38332-10

No Detections

Client Sample ID: 1112350-11

Lab Sample ID: 360-38332-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-12

Lab Sample ID: 360-38332-12

Detection Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-12 (Continued)

Lab Sample ID: 360-38332-12

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	7100		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-13

Lab Sample ID: 360-38332-13

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	84000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-14

Lab Sample ID: 360-38332-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	99000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-15

Lab Sample ID: 360-38332-15

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	110000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-16

Lab Sample ID: 360-38332-16

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	140000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-17

Lab Sample ID: 360-38332-17

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	130000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-18

Lab Sample ID: 360-38332-18

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	63000		1000		mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: 1112350-19

Lab Sample ID: 360-38332-19

No Detections

Method Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Method	Method Description	Protocol	Laboratory
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL WFD

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000



Sample Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-38332-1	1112350-01	Solid	12/15/11 10:20	12/21/11 16:35
360-38332-2	1112350-02	Solid	12/15/11 10:40	12/21/11 16:35
360-38332-3	1112350-03	Solid	12/15/11 11:30	12/21/11 16:35
360-38332-4	1112350-04	Solid	12/15/11 11:45	12/21/11 16:35
360-38332-5	1112350-05	Solid	12/15/11 14:45	12/21/11 16:35
360-38332-6	1112350-06	Solid	12/15/11 14:55	12/21/11 16:35
360-38332-7	1112350-07	Solid	12/15/11 15:05	12/21/11 16:35
360-38332-8	1112350-08	Solid	12/15/11 15:25	12/21/11 16:35
360-38332-9	1112350-09	Solid	12/16/11 11:25	12/21/11 16:35
360-38332-10	1112350-10	Solid	12/16/11 11:45	12/21/11 16:35
360-38332-11	1112350-11	Solid	12/16/11 12:00	12/21/11 16:35
360-38332-12	1112350-12	Solid	12/16/11 12:15	12/21/11 16:35
360-38332-13	1112350-13	Solid	12/16/11 13:15	12/21/11 16:35
360-38332-14	1112350-14	Solid	12/16/11 13:35	12/21/11 16:35
360-38332-15	1112350-15	Solid	12/16/11 13:45	12/21/11 16:35
360-38332-16	1112350-16	Solid	12/16/11 14:30	12/21/11 16:35
360-38332-17	1112350-17	Solid	12/16/11 14:45	12/21/11 16:35
360-38332-18	1112350-18	Solid	12/16/11 14:55	12/21/11 16:35
360-38332-19	1112350-19	Solid	12/16/11 15:10	12/21/11 16:35

Client Sample Results

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

General Chemistry

Client Sample ID: 1112350-01
Date Collected: 12/15/11 10:20
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-1
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	130000		1000		mg/Kg			12/23/11 15:39	1

Client Sample ID: 1112350-02
Date Collected: 12/15/11 10:40
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-2
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	10000		1000		mg/Kg			12/23/11 16:10	1

Client Sample ID: 1112350-03
Date Collected: 12/15/11 11:30
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-3
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	99000		1000		mg/Kg			12/27/11 11:00	1

Client Sample ID: 1112350-04
Date Collected: 12/15/11 11:45
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-4
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	54000		1000		mg/Kg			12/27/11 11:53	1

Client Sample ID: 1112350-05
Date Collected: 12/15/11 14:45
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-5
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6700		1000		mg/Kg			12/27/11 12:58	1

Client Sample ID: 1112350-06
Date Collected: 12/15/11 14:55
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-6
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2800		1000		mg/Kg			12/27/11 13:25	1

Client Sample ID: 1112350-07
Date Collected: 12/15/11 15:05
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-7
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	130000		1000		mg/Kg			12/27/11 13:58	1

Client Sample Results

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

General Chemistry

Client Sample ID: 1112350-08
Date Collected: 12/15/11 15:25
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-8
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	150000		1000		mg/Kg			12/27/11 14:35	1

Client Sample ID: 1112350-09
Date Collected: 12/16/11 11:25
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-9
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	10000		1000		mg/Kg			12/27/11 15:05	1

Client Sample ID: 1112350-10
Date Collected: 12/16/11 11:45
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-10
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000		mg/Kg			12/27/11 15:36	1

Client Sample ID: 1112350-11
Date Collected: 12/16/11 12:00
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-11
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	2000		1000		mg/Kg			12/28/11 10:16	1

Client Sample ID: 1112350-12
Date Collected: 12/16/11 12:15
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-12
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	7100		1000		mg/Kg			12/28/11 10:43	1

Client Sample ID: 1112350-13
Date Collected: 12/16/11 13:15
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-13
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	84000		1000		mg/Kg			12/28/11 11:24	1

Client Sample ID: 1112350-14
Date Collected: 12/16/11 13:35
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-14
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	99000		1000		mg/Kg			12/28/11 11:58	1

Client Sample ID: 1112350-15
Date Collected: 12/16/11 13:45
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-15
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	110000		1000		mg/Kg			12/28/11 12:32	1

Client Sample Results

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-16
Date Collected: 12/16/11 14:30
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-16
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	140000		1000		mg/Kg			12/28/11 14:40	1

Client Sample ID: 1112350-17
Date Collected: 12/16/11 14:45
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-17
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	130000		1000		mg/Kg			12/28/11 15:12	1

Client Sample ID: 1112350-18
Date Collected: 12/16/11 14:55
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-18
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	63000		1000		mg/Kg			12/28/11 15:41	1

Client Sample ID: 1112350-19
Date Collected: 12/16/11 15:10
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-19
Matrix: Solid

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000		mg/Kg			12/28/11 16:10	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

General Chemistry

Analysis Batch: 85320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38332-1	1112350-01	Total/NA	Solid	Lloyd Kahn	
360-38332-2	1112350-02	Total/NA	Solid	Lloyd Kahn	
360-38332-3	1112350-03	Total/NA	Solid	Lloyd Kahn	
360-38332-4	1112350-04	Total/NA	Solid	Lloyd Kahn	
360-38332-5	1112350-05	Total/NA	Solid	Lloyd Kahn	
360-38332-6	1112350-06	Total/NA	Solid	Lloyd Kahn	
360-38332-7	1112350-07	Total/NA	Solid	Lloyd Kahn	
360-38332-8	1112350-08	Total/NA	Solid	Lloyd Kahn	
360-38332-9	1112350-09	Total/NA	Solid	Lloyd Kahn	
360-38332-10	1112350-10	Total/NA	Solid	Lloyd Kahn	
LCS 360-85320/6	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
MB 360-85320/5	Method Blank	Total/NA	Solid	Lloyd Kahn	

Analysis Batch: 85334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38332-11	1112350-11	Total/NA	Solid	Lloyd Kahn	
360-38332-12	1112350-12	Total/NA	Solid	Lloyd Kahn	
360-38332-13	1112350-13	Total/NA	Solid	Lloyd Kahn	
360-38332-14	1112350-14	Total/NA	Solid	Lloyd Kahn	
360-38332-15	1112350-15	Total/NA	Solid	Lloyd Kahn	
360-38332-16	1112350-16	Total/NA	Solid	Lloyd Kahn	
360-38332-17	1112350-17	Total/NA	Solid	Lloyd Kahn	
360-38332-18	1112350-18	Total/NA	Solid	Lloyd Kahn	
360-38332-19	1112350-19	Total/NA	Solid	Lloyd Kahn	
360-38332-19 DU	1112350-19	Total/NA	Solid	Lloyd Kahn	
LCS 360-85334/4	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
MB 360-85334/3	Method Blank	Total/NA	Solid	Lloyd Kahn	

QC Sample Results

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 360-85320/5

Matrix: Solid

Analysis Batch: 85320

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000		mg/Kg			12/23/11 14:34	1

Lab Sample ID: LCS 360-85320/6

Matrix: Solid

Analysis Batch: 85320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	8600	8720		mg/Kg		101	80 - 120

Lab Sample ID: MB 360-85334/3

Matrix: Solid

Analysis Batch: 85334

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000		mg/Kg			12/28/11 09:02	1

Lab Sample ID: LCS 360-85334/4

Matrix: Solid

Analysis Batch: 85334

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	8600	8910		mg/Kg		104	80 - 120

Lab Sample ID: 360-38332-19 DU

Matrix: Solid

Analysis Batch: 85334

Client Sample ID: 1112350-19

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	ND		ND		mg/Kg		NC	20.0

Lab Chronicle

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-01

Date Collected: 12/15/11 10:20

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/23/11 15:39	RWE	TAL WFD

Client Sample ID: 1112350-02

Date Collected: 12/15/11 10:40

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/23/11 16:10	RWE	TAL WFD

Client Sample ID: 1112350-03

Date Collected: 12/15/11 11:30

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 11:00	RWE	TAL WFD

Client Sample ID: 1112350-04

Date Collected: 12/15/11 11:45

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 11:53	RWE	TAL WFD

Client Sample ID: 1112350-05

Date Collected: 12/15/11 14:45

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 12:58	RWE	TAL WFD

Client Sample ID: 1112350-06

Date Collected: 12/15/11 14:55

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 13:25	RWE	TAL WFD

Client Sample ID: 1112350-07

Date Collected: 12/15/11 15:05

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38332-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 13:58	RWE	TAL WFD

Lab Chronicle

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-08

Lab Sample ID: 360-38332-8

Date Collected: 12/15/11 15:25

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 14:35	RWE	TAL WFD

Client Sample ID: 1112350-09

Lab Sample ID: 360-38332-9

Date Collected: 12/16/11 11:25

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 15:05	RWE	TAL WFD

Client Sample ID: 1112350-10

Lab Sample ID: 360-38332-10

Date Collected: 12/16/11 11:45

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85320	12/27/11 15:36	RWE	TAL WFD

Client Sample ID: 1112350-11

Lab Sample ID: 360-38332-11

Date Collected: 12/16/11 12:00

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 10:16	RWE	TAL WFD

Client Sample ID: 1112350-12

Lab Sample ID: 360-38332-12

Date Collected: 12/16/11 12:15

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 10:43	RWE	TAL WFD

Client Sample ID: 1112350-13

Lab Sample ID: 360-38332-13

Date Collected: 12/16/11 13:15

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 11:24	RWE	TAL WFD

Client Sample ID: 1112350-14

Lab Sample ID: 360-38332-14

Date Collected: 12/16/11 13:35

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 11:58	RWE	TAL WFD

Lab Chronicle

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Client Sample ID: 1112350-15

Lab Sample ID: 360-38332-15

Date Collected: 12/16/11 13:45

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 12:32	RWE	TAL WFD

Client Sample ID: 1112350-16

Lab Sample ID: 360-38332-16

Date Collected: 12/16/11 14:30

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 14:40	RWE	TAL WFD

Client Sample ID: 1112350-17

Lab Sample ID: 360-38332-17

Date Collected: 12/16/11 14:45

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 15:12	RWE	TAL WFD

Client Sample ID: 1112350-18

Lab Sample ID: 360-38332-18

Date Collected: 12/16/11 14:55

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 15:41	RWE	TAL WFD

Client Sample ID: 1112350-19

Lab Sample ID: 360-38332-19

Date Collected: 12/16/11 15:10

Matrix: Solid

Date Received: 12/21/11 16:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	85334	12/28/11 16:10	RWE	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ESS Laboratory
Project/Site: 112350

TestAmerica Job ID: 360-38332-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 Cl F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli		ambient/ source	
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 360-38332-1

Login Number: 38332

List Source: TestAmerica Westfield

List Number: 1

Creator: Beaumier, Janine E

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Report Prepared for:

Elizabeth Ouk
ESS Laboratory
185 Frances Avenue
Cranston RI 02910

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

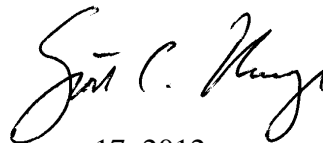
Pace Project #: 10179268
Sample Receipt Date: 12/23/2011
Client Project #: 1112350
Client Sub PO #: 1112350
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



January 17, 2012

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

January 17, 2012



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on thirteen samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 24-113%. Except for nine low values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained. Values above the calibration range were flagged "E" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits. These results indicate that the sample processing steps did not significantly impact the results reported for the field samples.

Laboratory spike samples were also prepared using clean sand that had been fortified with native standard materials. Recoveries of the native compounds ranged from 86-129%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE)	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP)	E87605	Ohio VAP	CL101 9507
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900015	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Report No.....10179268

Appendix A

Sample Management

11-1 face
ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 2
 Reporting Limits Class B SW
 ESS LAB PROJECT ID 10179268

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CI NH NJ NY ME Other _____
 Is this project for any of the following:
 MA-MCP Navy USACE Other _____

Project # _____ Project Name (20 Char. or less) _____
 Address _____ PO# 112350
 City _____ State _____ Zip _____
 Telephone # _____ Fax # _____
 Email Address _____

Co. Name Ess Labs
 Contact Person Liz Ouk
 City _____ State _____ Zip _____
 Telephone # _____ Fax # _____
 Email Address _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/15/11	1800	X	S		112350-01	1	6	X	
02		1312				-03				
03		1445				-05				
04	12/15/11	1505				-07				
05	12/16/11	1125				-09				
06		1200				-11				
07		1315				-13				
08		1335				-14				
09		1345				-15				
10	12/16/11	1430	X	S		-16	1	6	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only Yes No

Seals Intact Yes No NA: Pickup [] Technicians []

Cooler Temp: 0.7°C

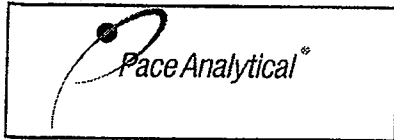
Preservation Code 1- NR, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: _____

Comments: Please return cooler

Relinquished by: (Signature) <u>Liz Ouk</u>	Date/Time <u>12/15/11</u>	Received by: (Signature) <u>[Signature]</u>	Date/Time <u>12-23-11 953</u>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 1 (White) Lab Copy 2 (Yellow) Client Receipt



Document Name:
Sample Condition Upon Receipt Form

Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
Page 1 of 1

Issuing Authority:
Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ESS Lab

Project # 1079268

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 120374970146247421

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional
Proj. Due Date
Proj. Name

Packing Material: Bubble Wrap Bubble Bags None Other _____ Temp Blank: Yes _____ No

Thermometer Used 80344042 or 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12-23-11 MB

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 12/23/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-01			
Lab Sample ID	10179268001			
Filename	P120114A_12			
Injected By	BAL			
Total Amount Extracted	53.9 g	Matrix	Solid	
% Moisture	80.7	Dilution	NA	
Dry Weight Extracted	10.4 g	Collected	12/15/2011 10:20	
ICAL ID	P91006	Received	12/23/2011 09:53	
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 23:55	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	54.0	---	1.0	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	2200.0	---	1.0 E	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	51
2,3,7,8-TCDD	5.2	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	47
Total TCDD	120.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	65
				1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	43.0	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	660.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	6200.0	---	5.0 E	1,2,3,7,8,9-HxCDF-13C	2.00	44
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	18.0	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	180.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	75.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	130.0	---	5.0	OCDD-13C	4.00	27 R
2,3,4,6,7,8-HxCDF	82.0	---	5.0			
1,2,3,7,8,9-HxCDF	41.0	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3800.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	10.0	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	32.0	---	5.0			
1,2,3,7,8,9-HxCDD	22.0	---	5.0			
Total HxCDD	430.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	180.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	20.0	---	5.0	Equivalence: 400 ng/Kg		
Total HpCDF	220.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	320.0	---	5.0			
Total HpCDD	780.0	---	5.0			
OCDF	120.0	---	10.0			
OCDD	2100.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-03			
Lab Sample ID	10179268002			
Filename	P120114A_10			
Injected By	BAL			
Total Amount Extracted	44.8 g	Matrix	Solid	
% Moisture	77.2	Dilution	NA	
Dry Weight Extracted	10.2 g	Collected	12/15/2011 11:30	
ICAL ID	P91006	Received	12/23/2011 09:53	
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 22:22	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	38.0	---	1.0	2,3,7,8-TCDF-13C	2.00	57
Total TCDF	1800.0	---	1.0 E	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	50
2,3,7,8-TCDD	3.1	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	45
Total TCDD	89.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	63
				1,2,3,4,7,8-HxCDF-13C	2.00	62
1,2,3,7,8-PeCDF	23.0	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	65
2,3,4,7,8-PeCDF	450.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	4500.0	---	5.0 E	1,2,3,7,8,9-HxCDF-13C	2.00	44
				1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	12.0	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	120.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	56.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	99.0	---	5.0	OCDD-13C	4.00	36 R
2,3,4,6,7,8-HxCDF	84.0	---	5.0			
1,2,3,7,8,9-HxCDF	30.0	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2700.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	7.7	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	23.0	---	5.0			
1,2,3,7,8,9-HxCDD	16.0	---	5.0			
Total HxCDD	320.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	140.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	16.0	---	5.0	Equivalence: 270 ng/Kg		
Total HpCDF	160.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	230.0	---	5.0			
Total HpCDD	560.0	---	5.0			
OCDF	81.0	---	10.0			
OCDD	1500.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-05		
Lab Sample ID	10179268003		
Filename	F120113B_13		
Injected By	BAL		
Total Amount Extracted	12.3 g	Matrix	Solid
% Moisture	16.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/15/2011 14:45
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 23:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	62
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	111
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-07		
Lab Sample ID	10179268004		
Filename	P120114A_11		
Injected By	BAL		
Total Amount Extracted	68.2 g	Matrix	Solid
% Moisture	85.0	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/15/2011 15:05
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 23:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	57.0	---	1.0	2,3,7,8-TCDF-13C	2.00	63
Total TCDF	1100.0	---	1.0	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	50
2,3,7,8-TCDD	2.4	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	47
Total TCDD	62.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	59
				1,2,3,4,7,8-HxCDF-13C	2.00	70
1,2,3,7,8-PeCDF	18.0	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	210.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	65
Total PeCDF	1800.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	46
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	10.0	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	95.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	43
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	36.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	54
1,2,3,6,7,8-HxCDF	58.0	---	5.0	OCDD-13C	4.00	24 R
2,3,4,6,7,8-HxCDF	46.0	---	5.0			
1,2,3,7,8,9-HxCDF	12.0	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1500.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	9.2	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	24.0	---	5.0			
1,2,3,7,8,9-HxCDD	19.0	---	5.0			
Total HxCDD	330.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	140.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	12.0	---	5.0	Equivalence: 150 ng/Kg		
Total HpCDF	260.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	340.0	---	5.0			
Total HpCDD	820.0	---	5.0			
OCDF	120.0	---	10.0			
OCDD	2500.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-09		
Lab Sample ID	10179268005		
Filename	F120113B_14		
Injected By	BAL		
Total Amount Extracted	13.1 g	Matrix	Solid
% Moisture	19.2	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	12/16/2011 11:25
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/14/2012 00:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	110
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-11		
Lab Sample ID	10179268006		
Filename	F120113B_15		
Injected By	BAL		
Total Amount Extracted	13.0 g	Matrix	Solid
% Moisture	18.7	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	12/16/2011 12:00
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/14/2012 01:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	113
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-13		
Lab Sample ID	10179268007		
Filename	P120114A_09		
Injected By	BAL		
Total Amount Extracted	30.4 g	Matrix	Solid
% Moisture	64.3	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	12/16/2011 13:15
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 21:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	19.0	---	1.0	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	930.0	---	1.0	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	55
2,3,7,8-TCDD	1.8	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	52
Total TCDD	44.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	72
				1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	11.0	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	250.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	2000.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	43
				1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	6.6	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	60.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	49
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	28.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	49.0	---	5.0	OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	34.0	---	5.0			
1,2,3,7,8,9-HxCDF	12.0	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1400.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	11.0	---	5.0			
1,2,3,7,8,9-HxCDD	8.2	---	5.0			
Total HxCDD	150.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	70.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.7	---	5.0	Equivalence: 150 ng/Kg		
Total HpCDF	82.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	110.0	---	5.0			
Total HpCDD	270.0	---	5.0			
OCDF	42.0	---	10.0			
OCDD	730.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-14		
Lab Sample ID	10179268008		
Filename	P120114A_13		
Injected By	BAL		
Total Amount Extracted	25.2 g	Matrix	Solid
% Moisture	59.1	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/16/2011 13:35
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 00:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	14.0	---	1.0	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	590.0	---	1.0	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	54
2,3,7,8-TCDD	1.4	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	27.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	7.5	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	150.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	1900.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	49
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	34.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	15.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	28.0	---	5.0	OCDD-13C	4.00	34 R
2,3,4,6,7,8-HxCDF	33.0	---	5.0			
1,2,3,7,8,9-HxCDF	7.8	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	520.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	6.5	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	76.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	40.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 87 ng/Kg		
Total HpCDF	74.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	62.0	---	5.0			
Total HpCDD	140.0	---	5.0			
OCDF	35.0	---	10.0			
OCDD	460.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-15		
Lab Sample ID	10179268009		
Filename	P120114A_14		
Injected By	BAL		
Total Amount Extracted	54.3 g	Matrix	Solid
% Moisture	81.3	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/16/2011 13:45
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 01:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	38.0	---	1.0	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	930.0	---	1.0	2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	2.4	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	49
Total TCDD	53.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	65
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	12.0	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	180.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	1600.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	46
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	50.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	38 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	42
1,2,3,4,7,8-HxCDF	30.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	49.0	---	5.0	OCDD-13C	4.00	24 R
2,3,4,6,7,8-HxCDF	38.0	---	5.0			
1,2,3,7,8,9-HxCDF	11.0	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1200.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	6.3	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	19.0	---	5.0			
1,2,3,7,8,9-HxCDD	14.0	---	5.0			
Total HxCDD	240.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	120.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	9.3	---	5.0	Equivalence: 120 ng/Kg		
Total HpCDF	140.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	230.0	---	5.0			
Total HpCDD	550.0	---	5.0			
OCDF	100.0	---	10.0			
OCDD	1800.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-16		
Lab Sample ID	10179268010		
Filename	P120114A_15		
Injected By	BAL		
Total Amount Extracted	65.1 g	Matrix	Solid
% Moisture	84.6	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	12/16/2011 14:30
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 02:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.2	---	1.0	2,3,7,8-TCDF-13C	2.00	59
Total TCDF	16.0	---	1.0	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	46
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	52
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	58
				1,2,3,4,7,8-HxCDF-13C	2.00	53
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	51
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	54
Total PeCDF	24.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	58
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	56
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	36 R
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	17.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	5.2	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.40 ng/Kg		
Total HpCDF	5.2	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	12.0	---	5.0			
Total HpCDD	20.0	---	5.0			
OCDF	ND	---	10.0			
OCDD	99.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-17		
Lab Sample ID	10179268011		
Filename	P120114A_16		
Injected By	BAL		
Total Amount Extracted	60.2 g	Matrix	Solid
% Moisture	83.1	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/16/2011 14:45
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 03:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	55
Total TCDF	8.1	---	1.0	2,3,7,8-TCDD-13C	2.00	64
				1,2,3,7,8-PeCDF-13C	2.00	45
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	52
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	61
				1,2,3,4,7,8-HxCDF-13C	2.00	52
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	47
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	14.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	57
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	56
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	39 R
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	5.7	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.14 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	7.6	---	5.0			
Total HpCDD	13.0	---	5.0			
OCDF	ND	---	10.0			
OCDD	61.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

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NA = Not Applicable
NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-18		
Lab Sample ID	10179268012		
Filename	P120114A_17		
Injected By	BAL		
Total Amount Extracted	38.3 g	Matrix	Solid
% Moisture	73.4	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/16/2011 14:55
ICAL ID	P91006	Received	12/23/2011 09:53
CCal Filename(s)	P120114A_03 & P120114A_19	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 03:48

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	12.0	---	1.0	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	280.0	---	1.0	2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	55
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	21.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	70
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	8.7	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	70.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	810.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	48
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	6.9	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	10.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	22.0	---	5.0	OCDD-13C	4.00	36 R
2,3,4,6,7,8-HxCDF	36.0	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	350.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	7.3	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	88.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	42.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 46 ng/Kg		
Total HpCDF	75.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	95.0	---	5.0			
Total HpCDD	240.0	---	5.0			
OCDF	31.0	---	10.0			
OCDD	670.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
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NC = Not Calculated

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112350-19		
Lab Sample ID	10179268013		
Filename	F120113B_16		
Injected By	BAL		
Total Amount Extracted	11.3 g	Matrix	Solid
% Moisture	9.4	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	12/16/2011 15:10
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/14/2012 01:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	104
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31300	Matrix	Solid
Filename	F120113B_06	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 18:41
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31298	Matrix	Solid
Filename	F120114B_07	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/14/2012 21:58
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31301	Matrix	Solid
Filename	F120113B_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 15:06
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL
Method Blank ID	BLANK-31300		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	113	2,3,7,8-TCDF-13C	2.0	78
Total TCDF				2,3,7,8-TCDD-13C	2.0	76
				1,2,3,7,8-PeCDF-13C	2.0	84
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	87
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	88
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.2	115	1,2,3,6,7,8-HxCDF-13C	2.0	81
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	87
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	113
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	62
				1,2,3,4,7,8,9-HpCDF-13C	2.0	70
1,2,3,4,7,8-HxCDF	1.0	1.1	114	1,2,3,4,6,7,8-HpCDD-13C	2.0	66
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	68
2,3,4,6,7,8-HxCDF	1.0	1.1	114			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.2	119	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.1	106			
1,2,3,7,8,9-HxCDD	1.0	0.86	86			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.2	117			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.97	97			
Total HpCDD						
OCDF	2.0	2.6	129			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31299	Matrix	Solid
Filename	F120114B_16	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/15/2012 04:25
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL
Method Blank ID	BLANK-31298		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	73
Total TCDF				2,3,7,8-TCDD-13C	2.0	81
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	91
				1,2,3,4,7,8-HxCDF-13C	2.0	70
1,2,3,7,8-PeCDF	1.0	1.1	112	1,2,3,6,7,8-HxCDF-13C	2.0	78
2,3,4,7,8-PeCDF	1.0	1.1	109	2,3,4,6,7,8-HxCDF-13C	2.0	76
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	74
				1,2,3,4,7,8-HxCDD-13C	2.0	78
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	67
				1,2,3,4,7,8,9-HpCDF-13C	2.0	61
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	70
1,2,3,6,7,8-HxCDF	1.0	1.1	112	OCDD-13C	4.0	60
2,3,4,6,7,8-HxCDF	1.0	1.1	113			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	109	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.0	1.1	114			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109			
1,2,3,4,7,8,9-HpCDF	1.0	1.1	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.98	98			
Total HpCDD						
OCDF	2.0	2.2	108			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120350
Date Project Due: 12/26/11
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.: _____
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
 - Cooler Temp: 2.0
 - Iced With: Icepacks
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? * Yes
- 16. Are ESS labels on correct containers? Yes | No
- 17. Were samples received intact? Yes | No
- ESS Sample IDs: 01-19
- Sub Lab: CTS
- Analysis: Grain Size, TOC
- TAT: std
- 18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	2	NP
1	Yes	8 oz Soil Jar	1	NP
1	Yes	Plastic Bag	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	Plastic Bag	1	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	1	NP
3	Yes	Plastic Bag	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	Plastic Bag	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	1	NP
5	Yes	Plastic Bag	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	Plastic Bag	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	1	NP
7	Yes	Plastic Bag	1	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	Plastic Bag	1	NP
9	Yes	2 oz Soil Jar	1	NP

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental

ESS Project ID: 11120350

9	Yes	4 oz Soil Jar	2	NP
9	Yes	8 oz Soil Jar	1	NP
9	Yes	Plastic Bag	1	NP
10	Yes	2 oz Soil Jar	1	NP
10	Yes	Plastic Bag	1	NP
11	Yes	2 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	2	NP
11	Yes	8 oz Soil Jar	1	NP
11	Yes	Plastic Bag	1	NP
12	Yes	2 oz Soil Jar	1	NP
12	Yes	Plastic Bag	1	NP
13	Yes	2 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	1	NP
13	Yes	Plastic Bag	1	NP
14	Yes	2 oz Soil Jar	1	NP
14	Yes	4 oz Soil Jar	2	NP
14	Yes	8 oz Soil Jar	1	NP
14	Yes	Plastic Bag	1	NP
15	Yes	2 oz Soil Jar	1	NP
15	Yes	4 oz Soil Jar	2	NP
15	Yes	8 oz Soil Jar	1	NP
15	Yes	Plastic Bag	1	NP
16	Yes	2 oz Soil Jar	1	NP
16	Yes	4 oz Soil Jar	2	NP
16	Yes	8 oz Soil Jar	1	NP
16	Yes	Plastic Bag	1	NP
17	Yes	2 oz Soil Jar	1	NP
17	Yes	4 oz Soil Jar	2	NP
17	Yes	8 oz Soil Jar	1	NP
17	Yes	Plastic Bag	1	NP
18	Yes	2 oz Soil Jar	1	NP
18	Yes	4 oz Soil Jar	2	NP
18	Yes	8 oz Soil Jar	1	NP
18	Yes	Plastic Bag	1	NP
19	Yes	2 oz Soil Jar	1	NP
19	Yes	4 oz Soil Jar	2	NP
19	Yes	8 oz Soil Jar	1	NP
19	Yes	Plastic Bag	1	NP

Completed By: BC

Date/Time: 12/19/11

Reviewed By: CD

Date/Time: 12/19/11

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
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 www.esslaboratory.com

CTS

CHAIN OF CUSTODY

Page 1 of 2

Turn Time: Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits: CLASS B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB PROJECT ID: _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/15/11	1030		X	5	112350 - 01	1	1	1	
02		1040				- 02				
03		1130				- 03				
04		1145				- 04				
05		1445				- 05				
06		1455				- 06				
07		1505				- 07				
08	12/15/11	1525				- 08				
09	12/16/11	1125				- 09				
10	12/16/11	1145		X	5	112350 - 10	1	1	1	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No ___ Internal Use Only:

Seals Intact: Yes ___ No NA: ___ [] Pickup

Cooler Temp: _____

Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by: _____

Comments: X Sieve Only ASTM D 422

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/15/11 1140	<i>[Signature]</i>	12/15/11 1140
<i>[Signature]</i>			

ESS Laboratory

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 185 Frances Avenue, Cranston, RI 02910-2211
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 www.esslaboratory.com

CHAIN OF CUSTODY

Page 12 of 22

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: Class BSW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB PROJECT ID: _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
11	12/16/11	1200	X	S		112350-11	1	1	9	
12	12/15/11	1215				-12				
13		1315				-13				
14		1335				-14				
15		1345				-15				
16		1430				-16				
17		1445				-17				
18		1455				-18				
19	12/16/11	1510	X	S		112350-19	1	1	P	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes ___ No ___ Internal Use Only: Yes ___ No ___
 Seals Intact: Yes ___ No NA: ___ [] Pickup [] Technicians: ___

Cooler Temp: _____

Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by: _____

Comments: Sieve Only ASTM D 422

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	8-22-11 11:40	<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>	

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Test America

CHAIN OF CUSTODY

Page 1 of 2

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB PROJECT ID: _____
 Project Name (20 Char. or less): _____
 Project # _____
 Address: _____
 City: _____ State: _____ Zip: _____ PO#: 112350
 Telephone #: _____ Fax #: _____ Email Address: _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/15/11	1000	X	S	S	112350-01	1	1	6 X	
02		1010				-02				
03		1130				-03				
04		1145				-04				
05		1445				-05				
06		1455				-06				
07		1505				-07				
08	12/15/11	1525				-08				
09	12/16/11	1125				-09				
10	12/16/11	1145	X	S	S	112350-10	1	1	6 X	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge VW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes No Internal Use Only: _____
 Seals Intact: Yes No NA: [] Pickup
 Cooler Temp: 4.1°C white [] Technicians _____
 Preservation Code: 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____
 Sampled by: _____
 Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/20/11 1520	<i>[Signature]</i>	12/21/11 1330
<i>[Signature]</i>	12/29/11 16:35	<i>[Signature]</i>	

CHAIN OF CUSTODY

ESS Laboratory
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Page 1 of 3
 ESS LAB PROJECT ID
112350
 Reporting Limits
 Class SW
 Electronic Deliverable
 Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other EQVIS EDD

Turn Time X Standard Other
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other
 MA RI CT NH NJ NY ME Other
 Is this project for any of the following:
 MA-MCP Navy USACE Other

Project # 3650110222
 Address 107 Audubon Rd. Suite 301
 City Wakefield State MA Zip 01880
 Project Name (20 Char. or less) Texttron. Gotham
 Email Address DEHEISEIN@comcast.com

Write Required Analysis
 Dioxin/Furans
 PCBs: SPM
 PAHs: Metals
 TOC
 Pesticides

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	W-Wipes	F-Filters
01	12-15-11	10:20	X	S	S	SED-41-01	1	5	PIC	✓	✓
02	12-15-11	10:40	X	S	S	SED-41-18	1	2	PIC	✓	✓
03	12-15-11	11:30	X	S	S	SED-44-01	1	5	PIC	✓	✓
04	12-15-11	11:45	X	S	S	SED-44-18	1	2	PIC	✓	✓
05	12-15-11	14:45	X	S	S	SED-37-01	1	5	PIC	✓	✓
06	12-15-11	14:55	X	S	S	SED-37-18	1	2	PIC	✓	✓
07	12-15-11	15:05	X	S	S	SED-47-01	1	5	PIC	✓	✓
08	12-15-11	15:25	X	S	S	SED-47-18	1	2	PIC	✓	✓
09	12-16-11	11:25	X	S	S	SED-35-01	1	5	PIC	✓	✓
10	12-16-11	11:45	X	S	S	SED-35-18	1	2	PIC	✓	✓

Container Type: P-Poly G-Glass S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Cooler Present Yes ___ No ___
 Seals Intact Yes ___ No NA: Pickup
 Cooler Temp: 20°C [] Technicians _____

Sampled by: Dave Chapman
 Comments: _____

Relinquished by: (Signature) _____	Date/Time <u>12-16-11 16:30</u>	Received by: (Signature) <u>Ben [Signature]</u>	Date/Time <u>12/16/11 1630</u>
Relinquished by: (Signature) _____	Date/Time _____	Received by: (Signature) _____	Date/Time _____

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CHAIN OF CUSTODY

112350 2 of 3

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: Class B SW
 Electronic Deliverable: Yes No
 Format: Excel Access PDF Other EQUIS EDP

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Write Required Analysis					
									Dioxins TCs	AVS: SMZ	PP-13 metals	TC	% Solids	GRIN SIZ
11	12-16-11	12:00	X	S	S	SED-40-01	1	5 PG	✓	✓	✓	✓	✓	✓
12	12-16-11	12:15	X	S	S	SED-40-18	1	2 PG	✓	✓	✓	✓	✓	✓
13	12-16-11	13:15	X	S	S	SED-52-01	4	5 PG	✓	✓	✓	✓	✓	✓
14	12-16-11	13:35	X	S	S	SED-53-01	1	5 PG	✓	✓	✓	✓	✓	✓
15	12-16-11	13:45	X	S	S	SED-54-01	4	5 PG	✓	✓	✓	✓	✓	✓
16	12-16-11	14:30	X	S	S	SED-55-01	1	5 PG	✓	✓	✓	✓	✓	✓
17	12-16-11	14:45	X	S	S	SED-56-01	4	5 PG	✓	✓	✓	✓	✓	✓
18	12-16-11	14:55	X	S	S	SED-57-01	4	5 PG	✓	✓	✓	✓	✓	✓
19	12-16-11	15:10	X	S	S	SED-58-01	4	5 PG	✓	✓	✓	✓	✓	✓

Project # 3650110224 Project Name (20 Char. or less) Tetron Gorham
 Address 107 Audubon Rd Suite 301
 City Wakefield State MA Zip 01880
 Telephone# 781-245-6606 Fax# 781-246-3060 Email Address PHEISLEINE@MADEP.COM
 Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No Seals Intact Yes No NA: [] Pickup [] Technicians []
 Relinquished by: (Signature) Date/Time 12-16-11 16:30 Received by: (Signature) Date/Time 12/16/11 16:30
 Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time
 Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
 Sampled by: Dave Chapman
 Comments: _____



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
 AMEC Environmental and Infrastructure
 107 Audubon Road, Suite 301
 Wakefield, MA 01880

Checked for Completeness
 of Parameters Ordered By:



RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112360



This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 11:54 am, Jan 17, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Westfield, MA Dissolved Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

SAMPLE RECEIPT

The following samples were received on December 16, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112360-01	SW-41	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112360-02	SW-44	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112360-03	SW-37	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112360-04	SW-35	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112360-05	SW-40	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112360-06	SW-40 Dup	Surface Water	6010B, 7041, 7060A, 7470A, 7841
1112360-07	SW-47	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

PROJECT NARRATIVE

3005A/3020A/6000/7000 Dissolved Metals

CL12211-BSD2 [Blank Spike recovery is below lower control limit \(B-\).](#)
Thallium (75% @ 80-120%)

3005A/3020A/6000/7000 Total Metals

CL11938-BS2 [Blank Spike recovery is above upper control limit \(B+\).](#)
Antimony (129% @ 80-120%)
CL11938-DUP2 [Relative percent difference for duplicate is outside of criteria \(D+\).](#)
Zinc (21%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-41
Date Sampled: 12/15/11 09:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 6:56	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:13	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 18:59	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:35	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:06	50	25	CL12211
Zinc	0.031 (0.025)	6010B		1	JP	12/23/11 20:35	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-41
Date Sampled: 12/15/11 09:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 4:40	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:00	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Copper	0.150 (0.010)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:15	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:32	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 14:34	50	25	CL11938
Zinc	0.059 (0.025)	6010B		1	JP	12/24/11 0:32	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-41
Date Sampled: 12/15/11 09:15
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-01
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.0 (1.0)	§			§	12/28/11 23:39	mg/L	CL13015
Hardness	61.4 (0.662)	6010B		1	JP	12/24/11 0:32	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-44
Date Sampled: 12/15/11 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:02	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:19	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:02	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:39	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:28	50	25	CL12211
Zinc	0.032 (0.025)	6010B		1	JP	12/23/11 20:39	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-44
Date Sampled: 12/15/11 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:04	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:06	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Copper	ND (0.010)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:18	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:37	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 14:39	50	25	CL11938
Zinc	0.030 (0.025)	6010B		1	JP	12/24/11 0:37	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-44
Date Sampled: 12/15/11 10:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-02
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.8 (1.0)	§			§	12/29/11 0:05	mg/L	CL13015
Hardness	60.4 (0.662)	6010B		1	JP	12/24/11 0:37	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-37
Date Sampled: 12/15/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:08	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:24	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:04	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:44	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:34	50	25	CL12211
Zinc	0.028 (0.025)	6010B		1	JP	12/23/11 20:44	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-37
Date Sampled: 12/15/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:10	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:12	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Copper	ND (0.010)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:20	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:41	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 14:45	50	25	CL11938
Zinc	0.029 (0.025)	6010B		1	JP	12/24/11 0:41	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-37
Date Sampled: 12/15/11 13:30
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-03
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.0 (1.0)	§			§	12/29/11 0:30	mg/L	CL13015
Hardness	60.7 (0.662)	6010B		1	JP	12/24/11 0:41	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-35
Date Sampled: 12/16/11 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:13	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:47	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:06	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:48	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:40	50	25	CL12211
Zinc	0.031 (0.025)	6010B		1	JP	12/23/11 20:48	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-35
Date Sampled: 12/16/11 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:15	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:18	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Copper	ND (0.010)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:22	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:45	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 14:51	50	25	CL11938
Zinc	0.029 (0.025)	6010B		1	JP	12/24/11 0:45	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-35
Date Sampled: 12/16/11 10:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-04
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.7 (1.0)	§			§	12/29/11 0:55	mg/L	CL13015
Hardness	65.7 (0.662)	6010B		1	JP	12/24/11 0:45	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-05
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:19	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:54	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:14	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:52	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:46	50	25	CL12211
Zinc	0.028 (0.025)	6010B		1	JP	12/23/11 20:52	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-05
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:21	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:23	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Copper	ND (0.010)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:25	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:49	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 15:08	50	25	CL11938
Zinc	0.027 (0.025)	6010B		1	JP	12/24/11 0:49	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-05
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	4.3 (1.0)	§			§	12/29/11 1:21	mg/L	CL13015
Hardness	58.5 (0.662)	6010B		1	JP	12/24/11 0:49	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40 Dup
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-06
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:25	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 2:59	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:16	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 20:56	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:51	50	25	CL12211
Zinc	0.028 (0.025)	6010B		1	JP	12/23/11 20:56	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40 Dup
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-06
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:27	50	25	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:29	50	25	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Copper	ND (0.010)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:32	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:53	50	25	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 15:14	50	25	CL11938
Zinc	0.031 (0.025)	6010B		1	JP	12/24/11 0:53	50	25	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-40 Dup
Date Sampled: 12/16/11 08:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-06
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Hardness	59.9 (0.662)	6010B		1	JP	12/24/11 0:53	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-47
Date Sampled: 12/16/11 12:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-07
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:30	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 3:05	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:18	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/23/11 21:09	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 16:57	50	25	CL12211
Zinc	0.025 (0.025)	6010B		1	JP	12/23/11 21:09	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-47
Date Sampled: 12/16/11 12:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-07
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 5:33	100	50	CL11938
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 0:34	100	50	CL11938
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Chromium	ND (0.010)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Copper	0.020 (0.010)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Lead	ND (0.010)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 16:44	20	40	CL12311
Nickel	ND (0.025)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Selenium	ND (0.025)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Silver	ND (0.005)	6010B		1	JP	12/24/11 0:57	100	50	CL11938
Thallium	ND (0.0010)	7841		1	JP	12/29/11 15:20	100	50	CL11938
Zinc	0.037 (0.025)	6010B		1	JP	12/24/11 0:57	100	50	CL11938



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-47
Date Sampled: 12/16/11 12:40
Percent Solids: N/A

ESS Laboratory Work Order: 1112360
ESS Laboratory Sample ID: 1112360-07
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	3.7 (1.0)	§			§	12/29/11 1:46	mg/L	CL13015
Hardness	60.4 (0.662)	6010B		1	JP	12/24/11 0:57	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CL12211 - 3005A

Blank

Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	0.023	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0015	mg/L							
Zinc	ND	0.025	mg/L							

LCS

Beryllium	0.0250	0.0005	mg/L	0.02500		100	80-120			
Cadmium	0.117	0.0025	mg/L	0.1250		94	80-120			
Chromium	0.249	0.010	mg/L	0.2500		100	80-120			
Copper	0.261	0.010	mg/L	0.2500		104	80-120			
Lead	0.253	0.010	mg/L	0.2500		101	80-120			
Nickel	0.249	0.025	mg/L	0.2500		100	80-120			
Selenium	0.481	0.025	mg/L	0.5000		96	80-120			
Silver	0.122	0.005	mg/L	0.1250		97	80-120			
Zinc	0.238	0.025	mg/L	0.2500		95	80-120			

LCS

Antimony	0.0113	0.0025	mg/L	0.01000		113	80-120			
Arsenic	0.0107	0.0025	mg/L	0.01000		107	80-120			
Thallium	0.0093	0.0015	mg/L	0.01000		93	80-120			

LCS Dup

Beryllium	0.0254	0.0005	mg/L	0.02500		102	80-120	2	20	
Cadmium	0.119	0.0025	mg/L	0.1250		95	80-120	1	20	
Chromium	0.254	0.010	mg/L	0.2500		102	80-120	2	20	
Copper	0.267	0.010	mg/L	0.2500		107	80-120	2	20	
Lead	0.255	0.010	mg/L	0.2500		102	80-120	0.9	20	
Nickel	0.255	0.025	mg/L	0.2500		102	80-120	2	20	
Selenium	0.489	0.025	mg/L	0.5000		98	80-120	2	20	
Silver	0.124	0.005	mg/L	0.1250		99	80-120	2	20	
Zinc	0.242	0.025	mg/L	0.2500		97	80-120	2	20	

LCS Dup

Antimony	0.0100	0.0025	mg/L	0.01000		100	80-120	12	20	
Arsenic	0.0090	0.0025	mg/L	0.01000		90	80-120	18	20	
Thallium	0.0075	0.0015	mg/L	0.01000		75	80-120	21	20	B-

Batch CL12218 - 245.1/7470A

Blank

Mercury	ND	0.00050	mg/L							
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CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CL12218 - 245.1/7470A

LCS

Mercury	0.00570	0.00050	mg/L	0.006000		95	80-120			
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LCS Dup

Mercury	0.00551	0.00050	mg/L	0.006000		92	80-120	3	20	
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3005A/3020A/6000/7000 Total Metals

Batch CL11938 - 3005A

Blank

Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0010	mg/L							
Zinc	ND	0.025	mg/L							

LCS

Beryllium	0.0271	0.0005	mg/L	0.02500		109	80-120			
Cadmium	0.131	0.0025	mg/L	0.1250		105	80-120			
Chromium	0.264	0.010	mg/L	0.2500		106	80-120			
Copper	0.281	0.010	mg/L	0.2500		112	80-120			
Lead	0.269	0.010	mg/L	0.2500		108	80-120			
Nickel	0.266	0.025	mg/L	0.2500		107	80-120			
Selenium	0.545	0.025	mg/L	0.5000		109	80-120			
Silver	0.133	0.005	mg/L	0.1250		106	80-120			
Zinc	0.265	0.025	mg/L	0.2500		106	80-120			

LCS

Antimony	0.0129	0.0025	mg/L	0.01000		129	80-120			B+
Arsenic	0.0112	0.0025	mg/L	0.01000		112	80-120			
Thallium	0.0091	0.0010	mg/L	0.01000		91	80-120			

LCS Dup

Beryllium	0.0261	0.0005	mg/L	0.02500		104	80-120	4	20	
Cadmium	0.123	0.0025	mg/L	0.1250		99	80-120	6	20	
Chromium	0.253	0.010	mg/L	0.2500		101	80-120	4	20	
Copper	0.270	0.010	mg/L	0.2500		108	80-120	4	20	
Lead	0.259	0.010	mg/L	0.2500		104	80-120	4	20	
Nickel	0.255	0.025	mg/L	0.2500		102	80-120	4	20	
Selenium	0.524	0.025	mg/L	0.5000		105	80-120	4	20	
Silver	0.128	0.005	mg/L	0.1250		102	80-120	4	20	
Zinc	0.250	0.025	mg/L	0.2500		100	80-120	6	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/3020A/6000/7000 Total Metals										
Batch CL11938 - 3005A										
LCS Dup										
Antimony	0.0120	0.0025	mg/L	0.01000		120	80-120	7	20	
Arsenic	0.0104	0.0025	mg/L	0.01000		104	80-120	8	20	
Thallium	0.0084	0.0010	mg/L	0.01000		84	80-120	8	20	
Duplicate Source: 1112360-07										
Antimony	ND	0.0025	mg/L		ND				20	
Arsenic	0.0010	0.0025	mg/L		0.0009			10	20	
Beryllium	ND	0.0005	mg/L		ND				20	
Cadmium	0.0006	0.0025	mg/L		0.0006			2	20	
Chromium	ND	0.010	mg/L		ND				20	
Copper	0.003	0.010	mg/L		0.020			141	20	
Lead	0.005	0.010	mg/L		0.006			16	20	
Nickel	ND	0.025	mg/L		ND				20	
Selenium	ND	0.025	mg/L		ND				20	
Silver	ND	0.005	mg/L		ND				20	
Thallium	ND	0.0010	mg/L		ND				20	
Zinc	0.030	0.025	mg/L		0.037			21	20	D+
Matrix Spike Source: 1112360-07										
Beryllium	0.0258	0.0005	mg/L	0.02500	ND	103	75-125			
Cadmium	0.120	0.0025	mg/L	0.1250	0.0006	95	75-125			
Chromium	0.252	0.010	mg/L	0.2500	ND	101	75-125			
Copper	0.280	0.010	mg/L	0.2500	0.020	104	75-125			
Lead	0.258	0.010	mg/L	0.2500	0.006	101	75-125			
Nickel	0.251	0.025	mg/L	0.2500	ND	101	75-125			
Selenium	0.528	0.025	mg/L	0.5000	ND	106	75-125			
Silver	0.128	0.005	mg/L	0.1250	ND	103	75-125			
Zinc	0.270	0.025	mg/L	0.2500	0.037	93	75-125			
Matrix Spike Source: 1112360-07										
Antimony	0.0118	0.0025	mg/L	0.01000	ND	118	75-125			
Arsenic	0.0130	0.0025	mg/L	0.01000	0.0009	121	75-125			
Thallium	0.0087	0.0010	mg/L	0.01000	ND	87	75-125			
Batch CL12311 - 245.1/7470A										
Blank										
Mercury	ND	0.00050	mg/L							
LCS										
Mercury	0.00601	0.00050	mg/L	0.006000		100	80-120			
LCS Dup										
Mercury	0.00592	0.00050	mg/L	0.006000		99	80-120	1	20	
Duplicate Source: 1112360-06										
Mercury	ND	0.00050	mg/L		ND				20	
Matrix Spike Source: 1112360-06										
Mercury	0.00602	0.00050	mg/L	0.006000	ND	100	75-125			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Classical Chemistry										
Batch CL11938 - 3005A										
Blank										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							
LCS										
Calcium	2.76	0.100	mg/L	2.500		110	80-120			
Magnesium	2.67	0.100	mg/L	2.500		107	80-120			
LCS Dup										
Calcium	2.61	0.100	mg/L	2.500		104	80-120	5	20	
Magnesium	2.56	0.100	mg/L	2.500		102	80-120	4	20	
Duplicate Source: 1112360-07										
Calcium	20.2	0.100	mg/L		19.2			5	20	
Magnesium	3.23	0.100	mg/L		3.03			7	20	
Matrix Spike Source: 1112360-07										
Calcium	21.7	0.100	mg/L	2.500	19.2	102	75-125			
Magnesium	5.52	0.100	mg/L	2.500	3.03	100	75-125			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

Notes and Definitions

- U Analyte included in the analysis, but not detected
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- B+ Blank Spike recovery is above upper control limit (B+).
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112360

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

TestAmerica Job ID: 360-38333-1
Client Project/Site: 1112360

For:
ESS Laboratory
185 Frances Ave.
Cranston, Rhode Island 02910

Attn: Ms. Elizabeth Ouk



Authorized for release by:
12/29/2011 2:23:15 PM

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Job ID: 360-38333-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/21/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.1 C.

DISSOLVED ORGANIC CARBON

Samples 1112360-01 (360-38333-1), 1112360-02 (360-38333-2), 1112360-03 (360-38333-3), 1112360-04 (360-38333-4), 1112360-05 (360-38333-5) and 1112360-07 (360-38333-6) were analyzed for dissolved organic carbon in accordance with SM20 5310B. The samples were analyzed on 12/28/2011 and 12/29/2011.

No difficulties were encountered during the DOC analyses.

All quality control parameters were within the acceptance limits.



Detection Summary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Client Sample ID: 1112360-01

Lab Sample ID: 360-38333-1

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.0		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112360-02

Lab Sample ID: 360-38333-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.8		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112360-03

Lab Sample ID: 360-38333-3

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.0		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112360-04

Lab Sample ID: 360-38333-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.7		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112360-05

Lab Sample ID: 360-38333-5

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	4.3		1.0		mg/L	1		SM 5310B	Dissolved

Client Sample ID: 1112360-07

Lab Sample ID: 360-38333-6

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Dissolved Organic Carbon	3.7		1.0		mg/L	1		SM 5310B	Dissolved

Method Summary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Method	Method Description	Protocol	Laboratory
SM 5310B	Organic Carbon, Dissolved (DOC)	SM	TAL WFD

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

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- 12
- 13
- 14

Sample Summary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-38333-1	1112360-01	Water	12/15/11 09:19	12/21/11 16:35
360-38333-2	1112360-02	Water	12/15/11 10:30	12/21/11 16:35
360-38333-3	1112360-03	Water	12/15/11 13:30	12/21/11 16:35
360-38333-4	1112360-04	Water	12/16/11 10:00	12/21/11 16:35
360-38333-5	1112360-05	Water	12/16/11 08:40	12/21/11 16:35
360-38333-6	1112360-07	Water	12/16/11 12:40	12/21/11 16:35

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Client Sample Results

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

General Chemistry - Dissolved

Client Sample ID: 1112360-01
Date Collected: 12/15/11 09:19
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0		mg/L			12/28/11 23:39	1

Client Sample ID: 1112360-02
Date Collected: 12/15/11 10:30
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.8		1.0		mg/L			12/29/11 00:05	1

Client Sample ID: 1112360-03
Date Collected: 12/15/11 13:30
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-3
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.0		1.0		mg/L			12/29/11 00:30	1

Client Sample ID: 1112360-04
Date Collected: 12/16/11 10:00
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-4
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.7		1.0		mg/L			12/29/11 00:55	1

Client Sample ID: 1112360-05
Date Collected: 12/16/11 08:40
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-5
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	4.3		1.0		mg/L			12/29/11 01:21	1

Client Sample ID: 1112360-07
Date Collected: 12/16/11 12:40
Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-6
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	3.7		1.0		mg/L			12/29/11 01:46	1

Definitions/Glossary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

General Chemistry

Analysis Batch: 85340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-38333-1	1112360-01	Dissolved	Water	SM 5310B	
360-38333-2	1112360-02	Dissolved	Water	SM 5310B	
360-38333-3	1112360-03	Dissolved	Water	SM 5310B	
360-38333-4	1112360-04	Dissolved	Water	SM 5310B	
360-38333-5	1112360-05	Dissolved	Water	SM 5310B	
360-38333-6	1112360-07	Dissolved	Water	SM 5310B	
360-38333-6 MS	1112360-07	Dissolved	Water	SM 5310B	
360-38333-6 MSD	1112360-07	Dissolved	Water	SM 5310B	
LCS 360-85335/2-A	Lab Control Sample	Dissolved	Water	SM 5310B	
MB 360-85335/1-A	Method Blank	Dissolved	Water	SM 5310B	

QC Sample Results

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Method: SM 5310B - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 360-85335/1-A
Matrix: Water
Analysis Batch: 85340

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	ND		1.0		mg/L			12/28/11 22:52	1

Lab Sample ID: LCS 360-85335/2-A
Matrix: Water
Analysis Batch: 85340

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	32.0	31.4		mg/L		98	85 - 115

Lab Sample ID: 360-38333-6 MS
Matrix: Water
Analysis Batch: 85340

Client Sample ID: 1112360-07
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dissolved Organic Carbon	3.7		10.0	13.8		mg/L		102	75 - 125

Lab Sample ID: 360-38333-6 MSD
Matrix: Water
Analysis Batch: 85340

Client Sample ID: 1112360-07
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dissolved Organic Carbon	3.7		10.0	13.7		mg/L		100	75 - 125	1	20

Lab Chronicle

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Client Sample ID: 1112360-01

Date Collected: 12/15/11 09:19

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/28/11 23:39	RWE	TAL WFD

Client Sample ID: 1112360-02

Date Collected: 12/15/11 10:30

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/29/11 00:05	RWE	TAL WFD

Client Sample ID: 1112360-03

Date Collected: 12/15/11 13:30

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/29/11 00:30	RWE	TAL WFD

Client Sample ID: 1112360-04

Date Collected: 12/16/11 10:00

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/29/11 00:55	RWE	TAL WFD

Client Sample ID: 1112360-05

Date Collected: 12/16/11 08:40

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/29/11 01:21	RWE	TAL WFD

Client Sample ID: 1112360-07

Date Collected: 12/16/11 12:40

Date Received: 12/21/11 16:35

Lab Sample ID: 360-38333-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	SM 5310B		1	85340	12/29/11 01:46	RWE	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: ESS Laboratory
Project/Site: 1112360

TestAmerica Job ID: 360-38333-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

- 1
- 2
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- 12
- 13
- 14

State Accreditation Matrix

Method Name	Description	State where Primary Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 Cl F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli		ambient/ source	
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accredited under NELAC

For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory

The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 360-38333-1

Login Number: 38333

List Source: TestAmerica Westfield

List Number: 1

Creator: Beaumier, Janine E

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120360
Date Project Due: 12/26/11
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input checked="" type="checkbox"/> No <i>yes BC 12/19/11</i> |
| <u>Cooler Temp: 2.0</u> | | 16. Are ESS labels on correct containers? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <u>Iced With: Icepacks</u> | | 17. Were samples received intact? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: <u>01 → 05, 07</u> | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: <u>Test America</u> | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: <u>DOC</u> | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: <u>std.</u> | |

18. Was there need to call project manager to discuss status? If yes, please explain.

No Doc for Duplicate received
No Hardness received for Duplicate

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	3	HNO3
1	Yes	Glass Jar	1	HCL
2	Yes	250 ml Plastic	3	HNO3
2	Yes	Glass Jar	1	HCL
3	Yes	250 ml Plastic	3	HNO3
3	Yes	Glass Jar	1	HCL
4	Yes	250 ml Plastic	3	HNO3
4	Yes	Glass Jar	1	HCL
5	Yes	250 ml Plastic	3	HNO3
5	Yes	Glass Jar	1	HCL
6	Yes	250 ml Plastic	2	HNO3
7	Yes	250 ml Plastic	3	HNO3
7	Yes	Glass Jar	1	HCL

Completed By: BC Date/Time: 12/19/11
Reviewed By: CLP Date/Time: 12/19/11

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

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Test America CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following:
 MA-MCP Navy USACE Other _____
 Reporting Limits Class BSN
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/15/11	915	XSW			112360-01	2	1	G X	
02	12/15/11	1030				-02		1		
03	12/15/11	1330				-03		1		
04	12/16/11	1000				-04		1		
05	12/16/11	840				-05		1		
06	12/16/11	1240	XSW			112360-07	2	1	G X	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only Yes ___ No ___ [] Pickup [] Technicians ___
 Seals Intact Yes ___ No NA
 Cooler Temp: 4.0°C while
 Relinquished by: (Signature) [Signature] Date/Time 12/20/11 15:20 Received by: (Signature) [Signature] Date/Time 12-21-11 13:30
 Relinquished by: (Signature) [Signature] Date/Time 12-21-11 16:35 Received by: (Signature) [Signature] Date/Time 12-21-11 16:35
 Relinquished by: (Signature) [Signature] Date/Time 12/20/11 13:40 Received by: (Signature) [Signature] Date/Time 10/20/11
 Relinquished by: (Signature) [Signature] Date/Time 12/21/11 16:35 Received by: (Signature) [Signature] Date/Time 12/21/11 16:35
 Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
 Sampled by: _____
 Comments: _____

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Please fax all changes to Chain of Custody in writing.
 1 (White) Lab Copy 2 (Yellow) Client Receipt
 3 4 5 6 7 8 9 10 11 12 13 14

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 www.esslaboratory.com

CHAIN OF CUSTODY

Page 3 of 3

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits Class B SW
 Electronic Deliverable Yes ___ No ESS
 Format: Excel ___ Access ___ PDF ___ Other ESS

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Project #	Project Name (20 Char. or less)	Address	City	State	Zip	PO#	Number of Containers	Type of Containers	Hardness	Dissolved Organic Carbon	Total PP-13 metals	Diss. PP-13 metals	Write Required Analysis
01	12-15-11	9:15	XSW	XSW		SW-41	3650110222	Textron, Gorman	107 Audubon Rd Suite 301	Wakefield	MA	01880	4	PL6	✓	✓	✓	✓		
02	12-15-11	10:30	XSW	XSW		SW-44							4	PL6	✓	✓	✓	✓		
03	12-15-11	13:30	XSW	XSW		SW-37							4	PL6	✓	✓	✓	✓		
04	12-16-11	10:00	XSW	XSW		SW-35							4	PL6	✓	✓	✓	✓		
05	12-16-11	8:40	XSW	XSW		SW-40							4	PL6	✓	✓	✓	✓		
06	12-16-11	8:40	XSW	XSW		SW-40 DUP							4	PL6	✓	✓	✓	✓		
07	12-16-11	12:40	XSW	XSW		SW-47							4	PL6	✓	✓	✓	✓		
* Add on to COC per Dave 12/19/11																				

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes ___ No ___ Internal Use Only

Seals Intact ___ Yes ___ No NA: Pickup

Cooler Temp: 20°C [] Technicians _____

Preservation Code 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

Sampled by: Dave Chapman

Comments: Dissolved samples are field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>[Signature]</u>	12-16-11 16:30	<u>[Signature]</u>	
<u>[Signature]</u>	12-16-11 16:30	<u>[Signature]</u>	

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 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits Class B SW
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other Equus RDD

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12-15-11	9:15	XSW	XSW	SW-41	214	4	P/G	✓	Hardness
02	12-15-11	10:30	XSW	XSW	SW-44	214	4	P/G	✓	Dis. PR-13 metals
03	12-15-11	13:30	XSW	XSW	SW-37	214	4	P/G	✓	Total PR-13 metals
04	12-16-11	10:00	XSW	XSW	SW-35	214	4	P/G	✓	Organic carbon
05	12-16-11	8:40	XSW	XSW	SW-40	214	4	P/G	✓	Dis. PR-13 metals
06	12-16-11	8:40	XSW	XSW	SW-40 DUP	214	4	P/G	✓	Dis. PR-13 metals

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge VW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only
 Seals Intact Yes ___ No NA: [] Pickup [] Technicians
 Cooler Temp: _____

Preservation Code 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-
 Sampled by: Dave Chapman
 Comments: Dissolved samples are field filtered

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<u>[Signature]</u>	12-16-11 16:30	<u>[Signature]</u>	12/16/11 16:30
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
AMEC Environmental and Infrastructure
107 Audubon Road, Suite 301
Wakefield, MA 01880

Checked for Completeness
of Parameters Ordered By:

[Signature]

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112362

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

[Signature]

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:52 pm, Jan 10, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Westfield, MA Dissolved Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

SAMPLE RECEIPT

The following samples were received on December 19, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112362-01	SW-33	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112362-02	SW-43	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

PROJECT NARRATIVE

3005A/3020A/6000/7000 Dissolved Metals

CL12211-BSD2 [Blank Spike recovery is below lower control limit \(B-\).](#)
Thallium (75% @ 80-120%)

3005A/3020A/6000/7000 Total Metals

CL12211-BSD2 [Blank Spike recovery is below lower control limit \(B-\).](#)
Thallium (75% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-33
Date Sampled: 12/19/11 09:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 8:05	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 3:22	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:35	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/31/11 3:29	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 17:14	50	25	CL12211
Zinc	ND (0.025)	6010B		1	JP	12/31/11 3:29	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-33
Date Sampled: 12/19/11 09:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:53	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 3:11	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:21	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/31/11 3:37	50	25	CL12211
Thallium	ND (0.0010)	7841		1	JP	12/29/11 17:02	50	25	CL12211
Zinc	0.029 (0.025)	6010B		1	JP	12/31/11 3:37	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-33
Date Sampled: 12/19/11 09:20
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-01
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.8 (1.0)	§			§	01/04/12 11:53	mg/L	CA21041
Hardness	61.1 (0.662)	6010B		1	JP	12/31/11 3:37	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-43
Date Sampled: 12/19/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 8:10	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 3:28	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:42	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/31/11 3:33	50	25	CL12211
Thallium	ND (0.0015)	7841		1	JP	12/29/11 17:20	50	25	CL12211
Zinc	0.029 (0.025)	6010B		1	SVD	01/05/12 18:42	50	25	CA20325



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-43
Date Sampled: 12/19/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 7:59	50	25	CL12211
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 3:17	50	25	CL12211
Beryllium	ND (0.0005)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Cadmium	ND (0.0025)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Chromium	ND (0.010)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Copper	ND (0.010)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Lead	ND (0.010)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:23	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Selenium	ND (0.025)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Silver	ND (0.005)	6010B		1	JP	12/31/11 3:41	50	25	CL12211
Thallium	ND (0.0010)	7841		1	JP	12/29/11 17:08	50	25	CL12211
Zinc	ND (0.025)	6010B		1	JP	12/31/11 3:41	50	25	CL12211



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-43
Date Sampled: 12/19/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112362
ESS Laboratory Sample ID: 1112362-02
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.9 (1.0)	§			§	01/04/12 12:09	mg/L	CA21041
Hardness	61.4 (0.662)	6010B		1	JP	12/31/11 3:41	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CA20325 - 3005A

Blank										
Zinc	ND	0.025	mg/L							
LCS										
Zinc	0.475	0.025	mg/L	0.5000		95	80-120			
LCS Dup										
Zinc	0.463	0.025	mg/L	0.5000		93	80-120	3	20	

Batch CL12211 - 3005A

Blank										
Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	0.023	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0015	mg/L							
Zinc	ND	0.025	mg/L							

LCS										
Beryllium	0.0250	0.0005	mg/L	0.02500		100	80-120			
Cadmium	0.117	0.0025	mg/L	0.1250		94	80-120			
Chromium	0.249	0.010	mg/L	0.2500		100	80-120			
Copper	0.261	0.010	mg/L	0.2500		104	80-120			
Lead	0.253	0.010	mg/L	0.2500		101	80-120			
Nickel	0.249	0.025	mg/L	0.2500		100	80-120			
Selenium	0.481	0.025	mg/L	0.5000		96	80-120			
Silver	0.122	0.005	mg/L	0.1250		97	80-120			
Zinc	0.238	0.025	mg/L	0.2500		95	80-120			

LCS										
Antimony	0.0113	0.0025	mg/L	0.01000		113	80-120			
Arsenic	0.0107	0.0025	mg/L	0.01000		107	80-120			
Thallium	0.0093	0.0015	mg/L	0.01000		93	80-120			

LCS Dup										
Beryllium	0.0254	0.0005	mg/L	0.02500		102	80-120	2	20	
Cadmium	0.119	0.0025	mg/L	0.1250		95	80-120	1	20	
Chromium	0.254	0.010	mg/L	0.2500		102	80-120	2	20	
Copper	0.267	0.010	mg/L	0.2500		107	80-120	2	20	
Lead	0.255	0.010	mg/L	0.2500		102	80-120	0.9	20	
Nickel	0.255	0.025	mg/L	0.2500		102	80-120	2	20	
Selenium	0.489	0.025	mg/L	0.5000		98	80-120	2	20	
Silver	0.124	0.005	mg/L	0.1250		99	80-120	2	20	
Zinc	0.242	0.025	mg/L	0.2500		97	80-120	2	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CL12211 - 3005A

LCS Dup

Antimony	0.0100	0.0025	mg/L	0.01000		100	80-120	12	20	
Arsenic	0.0090	0.0025	mg/L	0.01000		90	80-120	18	20	
Thallium	0.0075	0.0015	mg/L	0.01000		75	80-120	21	20	B-

Batch CL12218 - 245.1/7470A

Blank

Mercury	ND	0.00050	mg/L							
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LCS

Mercury	0.00570	0.00050	mg/L	0.006000		95	80-120			
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LCS Dup

Mercury	0.00551	0.00050	mg/L	0.006000		92	80-120	3	20	
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3005A/3020A/6000/7000 Total Metals

Batch CL12211 - 3005A

Blank

Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	0.023	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0010	mg/L							
Zinc	ND	0.025	mg/L							

LCS

Beryllium	0.0250	0.0005	mg/L	0.02500		100	80-120			
Cadmium	0.117	0.0025	mg/L	0.1250		94	80-120			
Chromium	0.249	0.010	mg/L	0.2500		100	80-120			
Copper	0.261	0.010	mg/L	0.2500		104	80-120			
Lead	0.253	0.010	mg/L	0.2500		101	80-120			
Nickel	0.249	0.025	mg/L	0.2500		100	80-120			
Selenium	0.481	0.025	mg/L	0.5000		96	80-120			
Silver	0.122	0.005	mg/L	0.1250		97	80-120			
Zinc	0.238	0.025	mg/L	0.2500		95	80-120			

LCS

Antimony	0.0113	0.0025	mg/L	0.01000		113	80-120			
Arsenic	0.0107	0.0025	mg/L	0.01000		107	80-120			
Thallium	0.0093	0.0010	mg/L	0.01000		93	80-120			

LCS Dup

Beryllium	0.0254	0.0005	mg/L	0.02500		102	80-120	2	20	
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CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Total Metals

Batch CL12211 - 3005A

Cadmium	0.119	0.0025	mg/L	0.1250		95	80-120	1	20	
Chromium	0.254	0.010	mg/L	0.2500		102	80-120	2	20	
Copper	0.267	0.010	mg/L	0.2500		107	80-120	2	20	
Lead	0.255	0.010	mg/L	0.2500		102	80-120	0.9	20	
Nickel	0.255	0.025	mg/L	0.2500		102	80-120	2	20	
Selenium	0.489	0.025	mg/L	0.5000		98	80-120	2	20	
Silver	0.124	0.005	mg/L	0.1250		99	80-120	2	20	
Zinc	0.242	0.025	mg/L	0.2500		97	80-120	2	20	

LCS Dup

Antimony	0.0100	0.0025	mg/L	0.01000		100	80-120	12	20	
Arsenic	0.0090	0.0025	mg/L	0.01000		90	80-120	18	20	
Thallium	0.0075	0.0010	mg/L	0.01000		75	80-120	21	20	B-

Batch CL12218 - 245.1/7470A

Blank										
Mercury	ND	0.00050	mg/L							

LCS										
Mercury	0.00570	0.00050	mg/L	0.006000		95	80-120			

LCS Dup										
Mercury	0.00551	0.00050	mg/L	0.006000		92	80-120	3	20	

Duplicate Source: 1112362-02										
Mercury	ND	0.00050	mg/L		ND				20	

Matrix Spike Source: 1112362-02										
Mercury	0.00559	0.00050	mg/L	0.006000	ND	93	75-125			

Classical Chemistry

Batch CL12211 - 3005A

Blank										
Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							

LCS										
Calcium	2.57	0.100	mg/L	2.500		103	80-120			
Magnesium	2.50	0.100	mg/L	2.500		100	80-120			

LCS Dup										
Calcium	2.61	0.100	mg/L	2.500		104	80-120	1	20	
Magnesium	2.54	0.100	mg/L	2.500		102	80-120	2	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

Notes and Definitions

- U Analyte included in the analysis, but not detected
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112362

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

ANALYTICAL REPORT

Job Number: 200-8700-1

Job Description: TOC

For:

ESS Laboratory

185 Frances Ave.

Cranston, RI 02910

Attention: Ms. Elizabeth Ouk



Approved for release.
Kathryn A Kelly
Project Manager I
1/10/2012 1:52 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
01/10/2012

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

CASE NARRATIVE

Client: ESS Laboratory

Project: TOC

Report Number: 200-8700-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 °C.

DISSOLVED ORGANIC CARBON

Samples 1112362-01 and 1112362-02 were analyzed for dissolved organic carbon in accordance with SM20 5310B. The samples were analyzed on 01/04/2012.

Dissolved Organic Carbon was detected in method blank MB 200-31738/11 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Dissolved Organic Carbon was detected in method blank MB 200-31738/2 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the DOC analyses.

All other quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ESS Laboratory

Job Number: 200-8700-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8700-1 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112362-01	2.8	B	1.0	mg/L	SM 5310B
200-8700-2 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112362-02	2.9	B	1.0	mg/L	SM 5310B

METHOD SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Organic Carbon, Dissolved (DOC) Sample Filtration, Field	TAL BUR	SM SM 5310B	FIELD_FLTRD

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-1

Method	Analyst	Analyst ID
SM SM 5310B	Sutton, Zachariah M	ZMS

SAMPLE SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-8700-1	1112362-01	Water	12/19/2011 0920	12/27/2011 1153
200-8700-2	1112362-02	Water	12/19/2011 1355	12/27/2011 1153

SAMPLE RESULTS

Client: ESS Laboratory

Job Number: 200-8700-1

General Chemistry

Client Sample ID: 1112362-01

Lab Sample ID: 200-8700-1

Client Matrix: Water

Date Sampled: 12/19/2011 0920

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.8	B	mg/L	0.052	1.0	1.0	SM 5310B
Analysis Batch: 200-31738		Analysis Date: 01/04/2012 1153					

Client: ESS Laboratory

Job Number: 200-8700-1

General Chemistry

Client Sample ID: 1112362-02

Lab Sample ID: 200-8700-2

Client Matrix: Water

Date Sampled: 12/19/2011 1355

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.9	B	mg/L	0.052	1.0	1.0	SM 5310B
Analysis Batch: 200-31738		Analysis Date: 01/04/2012 1209					

DATA REPORTING QUALIFIERS

Client: ESS Laboratory

Job Number: 200-8700-1

Lab Section	Qualifier	Description
General Chemistry	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:200-31738					
LCS 200-31738/1	Lab Control Sample	D	Water	SM 5310B	
LCS 200-31738/10	Lab Control Sample	D	Water	SM 5310B	
MB 200-31738/11	Method Blank	D	Water	SM 5310B	
MB 200-31738/2	Method Blank	D	Water	SM 5310B	
200-8700-1	1112362-01	D	Water	SM 5310B	
200-8700-2	1112362-02	D	Water	SM 5310B	

Report Basis

D = Dissolved

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-1

Method Blank - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: MB 200-31738/2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1138
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Dissolved Organic Carbon-Dissolved	0.111	J	0.052	1.0

Method Blank - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: MB 200-31738/11
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1357
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Dissolved Organic Carbon-Dissolved	0.0826	J	0.052	1.0

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-1

Lab Control Sample - Batch: 200-31738

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 200-31738/1	Analysis Batch:	200-31738	Instrument ID:	WCCH4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	01/04/2012 1122	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Organic Carbon-Dissolved	10.0	9.76	98	85 - 115	

Lab Control Sample - Batch: 200-31738

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	LCS 200-31738/10	Analysis Batch:	200-31738	Instrument ID:	WCCH4
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010412A.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	40 mL
Analysis Date:	01/04/2012 1341	Units:	mg/L	Final Weight/Volume:	40 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Organic Carbon-Dissolved	10.0	9.63	96	85 - 115	

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-8700-1

Login Number: 8700
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8°C, IR GUN ID 154, CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON, VT 05403

(802) 660-1990

FedEx
Express



(US)

Ttk# 4258 8385 5089

PRIORITY OVERNIGHT



30 COMMUNITY DRIVE

PLACE THIS LABEL ON PACKAGE
 NEXT TO THE SHIPPING LABEL



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

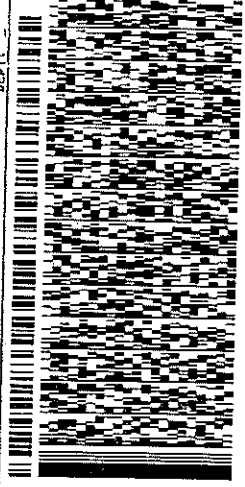
BILL RECIPIENT

TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

DEPT:



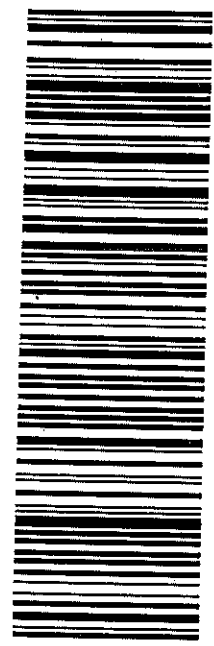
FedEx
Express



TRK# 4258 8385 5089
 0201
 ### SATURDAY ### A4
 PRIORITY OVERNIGHT

XO BTVA

05403
 VT-US BTV



Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120362
Date Project Due: 12/26/11
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| <input type="text" value="Cooler Temp: 2.0"/> | | 16. Are ESS labels on correct containers? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <input type="text" value="Iced With: Icepacks"/> | | 17. Were samples received intact? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	250 ml Plastic	3	HNO3
1	Yes	Glass Jar	1	HCL
2	Yes	250 ml Plastic	3	HNO3
2	Yes	Glass Jar	1	HCL

Completed By: _____

Date/Time: _____

Reviewed By: CLD

Date/Time: 12/20/11



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
 AMEC Environmental and Infrastructure
 107 Audubon Road, Suite 301
 Wakefield, MA 01880

Checked for Completeness
 of Parameters Ordered By:

[Signature]

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112368

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

[Signature]

Laurel Stoddard
 Laboratory Director

REVIEWED

By ESS Laboratory at 1:14 pm, Jan 26, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

CTS - Cranston, RI
 Pace Analytical - Minneapolis, MN
 TestAmerica Laboratories, Inc. - Westfield,
 MA

Grain Size Analysis
 Dioxin - Full List
 Total Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

SAMPLE RECEIPT

The following samples were received on December 19, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112368-01	SED-33-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112368-02	SED-33-18	Sediment	§
1112368-03	SED-43-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM
1112368-04	SED-43-18	Sediment	§
1112368-05	SED-43-01 Dup	Sediment	§, 6010B, 7471A, 7841, AVS/SEM



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

- CL12317-BS1 **Blank Spike recovery is below lower control limit (B-).**
Selenium (77% @ 80-120%)
- CL12317-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Antimony (43% @ 75-125%), Arsenic (69% @ 75-125%), Chromium (66% @ 75-125%), Selenium (67% @ 75-125%)
- CL12320-DUP1 **Relative percent difference for duplicate is outside of criteria (D+).**
Mercury (66%)
- CL12320-MS1 **Matrix Spike recovery is below lower control limit (M-).**
Mercury (35% @ 75-125%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-33-01
Date Sampled: 12/19/11 14:00

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-01
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-33-01
Date Sampled: 12/19/11 14:00
Percent Solids: 83

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-01
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.8)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Arsenic	5.0 (1.9)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Beryllium	0.16 (0.08)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Cadmium	ND (0.38)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Chromium	4.3 (0.8)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Copper	18.0 (1.9)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Lead	127 (3.8)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Mercury	ND (0.018)	7471A		1	KJK	12/27/11 17:26	1.31	40	CL12320
Nickel	41.0 (1.9)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Selenium	ND (3.8)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Silver	0.38 (0.38)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317
Thallium	ND (0.93)	7841		5	SVD	12/30/11 22:48	3.2	100	CL12317
Zinc	35.1 (1.9)	6010B		1	JP	12/28/11 17:53	3.2	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-33-01
Date Sampled: 12/19/11 14:00

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	8870 (1300)	§			§	01/03/12 16:52	mg/kg	CA21004



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-33-01
Date Sampled: 12/19/11 14:00
Percent Solids: 83

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-01
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (24.6)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Arsenic	ND (40.0)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Beryllium	10.9 (6.65)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Cadmium	ND (2.67)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Chromium	ND (23.1)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Copper	119 (18.9)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Lead	170 (5.79)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Mercury	ND (0.149)	AVS/SEM		1	KJK	12/30/11 18:32	5.023	250	CL12926
Nickel	733 (51.1)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Selenium	ND (38.0)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Silver	13.1 (5.56)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Thallium	ND (29.3)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
Zinc	581 (45.9)	AVS/SEM		1	SVD	12/31/11 0:27	5.023	250	CL12836
AVS	18.3 (1.88)	AVS/SEM		1	EEM	12/28/11 16:00	5.023	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-33-18
Date Sampled: 12/19/11 14:15

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-02
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1470 (1220)	§			§	01/03/12 17:05	mg/kg	CA21004



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01
Date Sampled: 12/19/11 14:45

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-03
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01
Date Sampled: 12/19/11 14:45
Percent Solids: 43

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-03
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (6.3)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Arsenic	20.2 (3.1)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Beryllium	0.20 (0.13)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Cadmium	ND (0.63)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Chromium	12.7 (1.2)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Copper	24.7 (3.1)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Lead	43.4 (6.3)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Mercury	0.102 (0.028)	7471A		1	KJK	12/27/11 17:28	1.63	40	CL12320
Nickel	6.4 (3.1)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Selenium	ND (6.3)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Silver	1.12 (0.63)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317
Thallium	ND (1.55)	7841		5	SVD	12/30/11 22:53	3.72	100	CL12317
Zinc	40.8 (3.1)	6010B		1	JP	12/28/11 17:58	3.72	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01
Date Sampled: 12/19/11 14:45

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-03
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	37700 (2200)	§			§	01/03/12 17:19	mg/kg	CA21004



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01
Date Sampled: 12/19/11 14:45
Percent Solids: 43

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-03
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (47.2)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Arsenic	118 (76.6)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Beryllium	17.6 (12.7)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Cadmium	ND (5.11)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Chromium	105 (44.2)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Copper	274 (36.1)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Lead	265 (11.1)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Mercury	ND (0.286)	AVS/SEM		1	KJK	12/30/11 18:35	5.063	250	CL12926
Nickel	ND (97.8)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Selenium	ND (72.7)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Silver	ND (10.6)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Thallium	ND (56.2)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
Zinc	727 (87.8)	AVS/SEM		1	SVD	12/31/11 0:31	5.063	250	CL12836
AVS	2180 (72.5)	AVS/SEM		20	EEM	12/28/11 16:00	5.063	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-18
Date Sampled: 12/19/11 15:10

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-04
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	13700 (1540)	§			§	01/03/12 17:32	mg/kg	CA21004



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01 Dup
Date Sampled: 12/19/11 14:45

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-05
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01 Dup
Date Sampled: 12/19/11 14:45
Percent Solids: 43

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-05
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (6.2)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Arsenic	20.2 (3.1)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Beryllium	0.23 (0.13)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Cadmium	ND (0.62)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Chromium	20.6 (1.2)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Copper	34.3 (3.1)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Lead	61.3 (6.2)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Mercury	0.218 (0.077)	7471A		1	KJK	12/27/11 17:31	0.6	40	CL12320
Nickel	8.0 (3.1)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Selenium	ND (6.2)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Silver	1.26 (0.62)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317
Thallium	ND (1.53)	7841		5	SVD	12/30/11 22:59	3.76	100	CL12317
Zinc	55.7 (3.1)	6010B		1	JP	12/28/11 18:03	3.76	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-43-01 Dup
Date Sampled: 12/19/11 14:45
Percent Solids: 43

ESS Laboratory Work Order: 1112368
ESS Laboratory Sample ID: 1112368-05
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (46.9)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Arsenic	136 (76.3)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Beryllium	17.4 (12.7)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Cadmium	ND (5.08)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Chromium	104 (44.0)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Copper	284 (36.0)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Lead	257 (11.0)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Mercury	ND (0.285)	AVS/SEM		1	KJK	12/30/11 18:37	5.087	250	CL12926
Nickel	ND (97.4)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Selenium	ND (72.4)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Silver	ND (10.6)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Thallium	ND (55.9)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
Zinc	695 (87.4)	AVS/SEM		1	SVD	12/31/11 0:35	5.087	250	CL12836
AVS	1000 (72.5)	AVS/SEM		20	EEM	12/28/11 16:00	5.087	100	CL12803



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12317 - 3050B

Blank										
Antimony	ND	5.0	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Copper	ND	2.5	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							

LCS										
Antimony	103	17.2	mg/kg wet	120.0		86	80-120			
Arsenic	106	8.6	mg/kg wet	124.0		85	80-120			
Beryllium	79.6	0.36	mg/kg wet	95.00		84	80-120			
Cadmium	99.7	1.73	mg/kg wet	116.0		86	80-120			
Chromium	81.9	3.4	mg/kg wet	95.90		85	80-120			
Copper	83.1	8.6	mg/kg wet	82.80		100	80-120			
Lead	123	17.2	mg/kg wet	137.0		90	80-120			
Nickel	104	8.6	mg/kg wet	121.0		86	80-120			
Selenium	156	17.2	mg/kg wet	202.0		77	80-120			B-
Silver	44.8	1.73	mg/kg wet	53.50		84	80-120			
Thallium	193	42.7	mg/kg wet	231.0		84	80-120			
Zinc	222	8.6	mg/kg wet	275.0		81	80-120			

LCS Dup										
Antimony	109	18.2	mg/kg wet	120.0		91	80-120	6	20	
Arsenic	108	9.1	mg/kg wet	124.0		87	80-120	2	20	
Beryllium	81.6	0.38	mg/kg wet	95.00		86	80-120	3	20	
Cadmium	102	1.83	mg/kg wet	116.0		88	80-120	3	20	
Chromium	84.7	3.6	mg/kg wet	95.90		88	80-120	3	20	
Copper	87.3	9.1	mg/kg wet	82.80		105	80-120	5	20	
Lead	127	18.2	mg/kg wet	137.0		92	80-120	3	20	
Nickel	106	9.1	mg/kg wet	121.0		88	80-120	2	20	
Selenium	166	18.2	mg/kg wet	202.0		82	80-120	6	20	
Silver	46.3	1.83	mg/kg wet	53.50		87	80-120	3	20	
Thallium	198	45.0	mg/kg wet	231.0		86	80-120	3	20	
Zinc	228	9.1	mg/kg wet	275.0		83	80-120	3	20	

Duplicate Source: 1112368-05										
Antimony	ND	7.1	mg/kg dry		ND					35
Arsenic	20.7	3.5	mg/kg dry		20.2			3		35
Beryllium	0.219	0.15	mg/kg dry		0.228			4		35
Cadmium	0.298	0.71	mg/kg dry		0.335			12		35
Chromium	18.2	1.4	mg/kg dry		20.6			12		35



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12317 - 3050B

Copper	37.1	3.5	mg/kg dry		34.3			8	35	
Lead	66.9	7.1	mg/kg dry		61.3			9	35	
Nickel	8.58	3.5	mg/kg dry		8.05			6	35	
Selenium	ND	7.1	mg/kg dry		ND				35	
Silver	1.48	0.71	mg/kg dry		1.26			16	35	
Thallium	ND	1.75	mg/kg dry		ND				35	
Zinc	62.3	3.5	mg/kg dry		55.7			11	35	

Matrix Spike Source: 1112368-05

Antimony	16.8	7.8	mg/kg dry	38.89	ND	43	75-125			M-
Arsenic	46.9	3.9	mg/kg dry	38.89	20.2	69	75-125			M-
Beryllium	3.25	0.16	mg/kg dry	3.889	0.228	78	75-125			
Cadmium	15.3	0.78	mg/kg dry	19.44	0.335	77	75-125			
Chromium	46.1	1.6	mg/kg dry	38.89	20.6	66	75-125			M-
Copper	64.8	3.9	mg/kg dry	38.89	34.3	79	75-125			
Lead	90.3	7.8	mg/kg dry	38.89	61.3	75	75-125			
Nickel	37.3	3.9	mg/kg dry	38.89	8.05	75	75-125			
Selenium	52.3	7.8	mg/kg dry	77.78	ND	67	75-125			M-
Silver	16.2	0.78	mg/kg dry	19.44	1.26	77	75-125			
Thallium	29.3	7.70	mg/kg dry	38.89	ND	75	75-125			
Zinc	85.0	3.9	mg/kg dry	38.89	55.7	75	75-125			

Batch CL12320 - 245.1/7470A

Blank										
Mercury	ND	0.033	mg/kg wet							

LCS										
Mercury	16.2	1.65	mg/kg wet	15.20		107	80-120			

LCS Dup										
Mercury	15.6	1.60	mg/kg wet	15.20		103	80-120	3	20	

Duplicate Source: 1112368-05										
Mercury	0.110	0.026	mg/kg dry		0.218			66	35	D+

Matrix Spike Source: 1112368-05										
Mercury	0.297	0.038	mg/kg dry	0.2287	0.218	35	75-125			M-

Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CL12803 - General Preparation

Blank										
AVS	ND	1.56	umol/kg dry							

Batch CL12836 - SEM Prep

Blank										
Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Acid Volatile Sulfide / Simultaneous Extracted Metals										
Batch CL12836 - SEM Prep										
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							
Batch CL12926 - 245.1/7470A										
Blank										
Mercury	ND	0.0312	umol/kg dry							
LCS										
Mercury	0.0294	0.0312	umol/kg dry	0.02991		98	80-120			
LCS Dup										
Mercury	0.0295	0.0312	umol/kg dry	0.02991		99	80-120	0.5	20	
Duplicate Source: 1112368-05										
Mercury	ND	0.0725	umol/kg dry		ND				35	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

Notes and Definitions

- Z-08 See Attached
- U Analyte included in the analysis, but not detected
- M- Matrix Spike recovery is below lower control limit (M-).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112368

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Sieve Analysis Test Report

Client: ESS
 Project: 1112368
 Client Sample I.D. #: 1112368-01
 Soil Description: Sandy & Organic Material

Date Recieved: 12/23/2011
 Date Tested: 12/28/2011
 T.E.I. Project #: 74-11-0002-1
 T.E.I. Sample/Report #: 11-S-658
 Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	332.0
Original Dry Mass (D):	289.5
Moisture Loss (W - D):	42.5
% Moisture (100 x (W - D) / D):	14.7

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	286.5
Mass of fines lost by wash (D - Dw):	3.0
% -75 µm Sieve (100 x (D - Dw)/D):	1.0

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		22.0		7.6		92.4		
3/8"		48.5		16.8		83.2		
#4		91.5		31.6		68.4		
#8		118.5		40.9		59.1		
#16		149.5		51.6		48.4		
#30		194.0		67.0		33.0		
#50		258.0		89.1		10.9		
#100		282.5		97.6		2.4		
#200		286.0		98.8		1.2		
Pan		286.5		99.0	Calculate Fineness Modulus?		No	▼
Sub Total		286.5						
Loss on Wash (D - Dw)		3.0						
Total		289.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/28/2011 Date: 12/28/2011

Results Within Specification Limits:

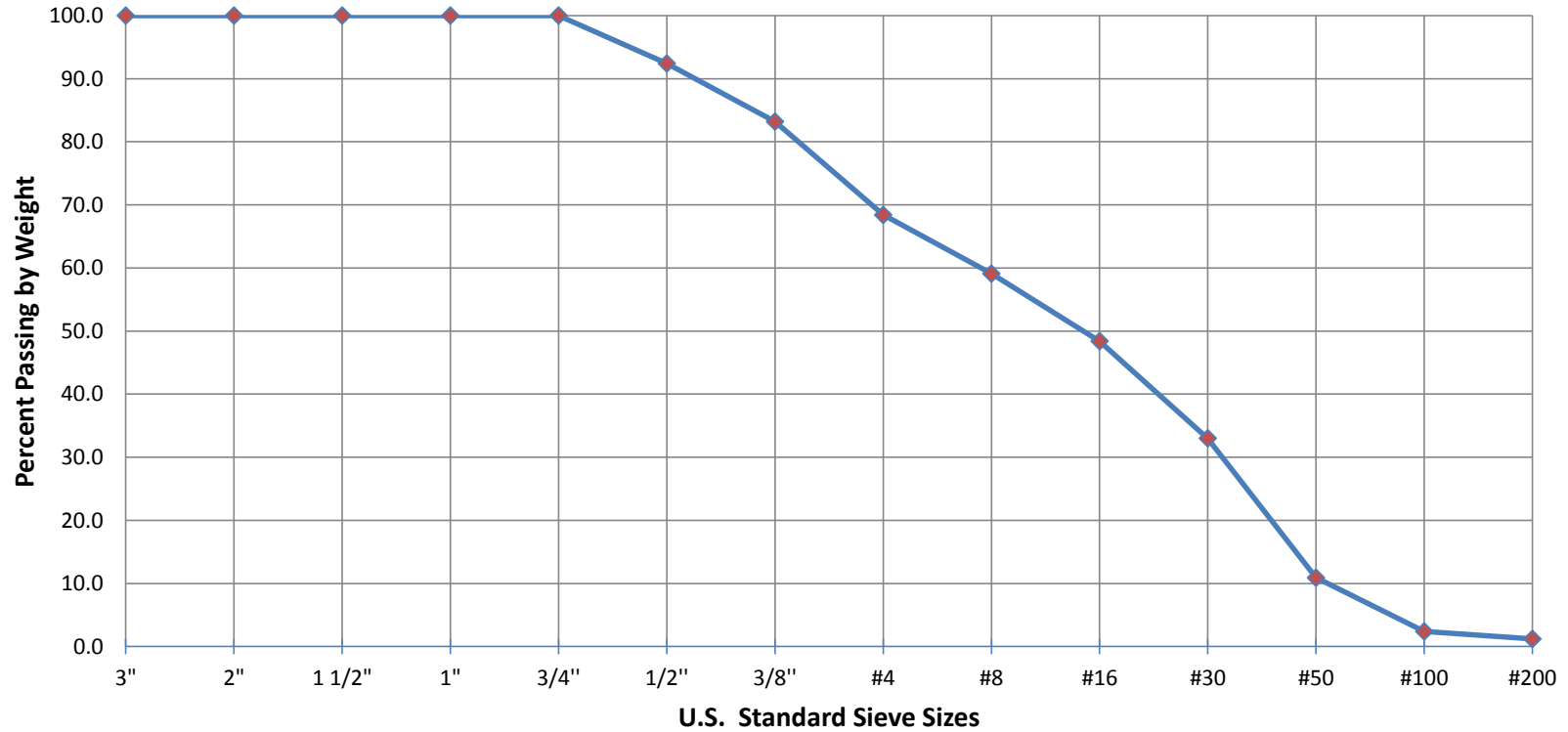
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
31.6	67.2	1.2

Client: ESS	Date Recieved: 12/23/2011	Soil Description: Sandy & Organic Material
Project: 1112368.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-658		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112368
Client Sample I.D. #: 1112368-02
Soil Description: Sandy & Organic Material

Date Recieved: 12/23/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-659
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	389.5
Original Dry Mass (D):	335.5
Moisture Loss (W - D):	54.0
% Moisture (100 x (W - D) / D):	16.1

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	332.0
Mass of fines lost by wash (D - Dw):	3.5
% -75 µm Sieve (100 x (D - Dw)/D):	1.0

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		4.0		1.2		98.8		
3/8"		13.5		4.0		96.0		
#4		42.5		12.7		87.3		
#8		71.0		21.2		78.8		
#16		111.5		33.2		66.8		
#30		167.5		49.9		50.1		
#50		268.0		79.9		20.1		
#100		323.5		96.4		3.6		
#200		331.5		98.8		1.2		
Pan		332.0		99.0	Calculate Fineness Modulus?		No	▼
Sub Total		332.0						
Loss on Wash (D - Dw)		3.5						
Total		335.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui	Reviewed By: Wendy Kerkhoff
	Laboratory Supervisor
Date: 12/28/2011	Date: 12/28/2011

Results Within Specification Limits:

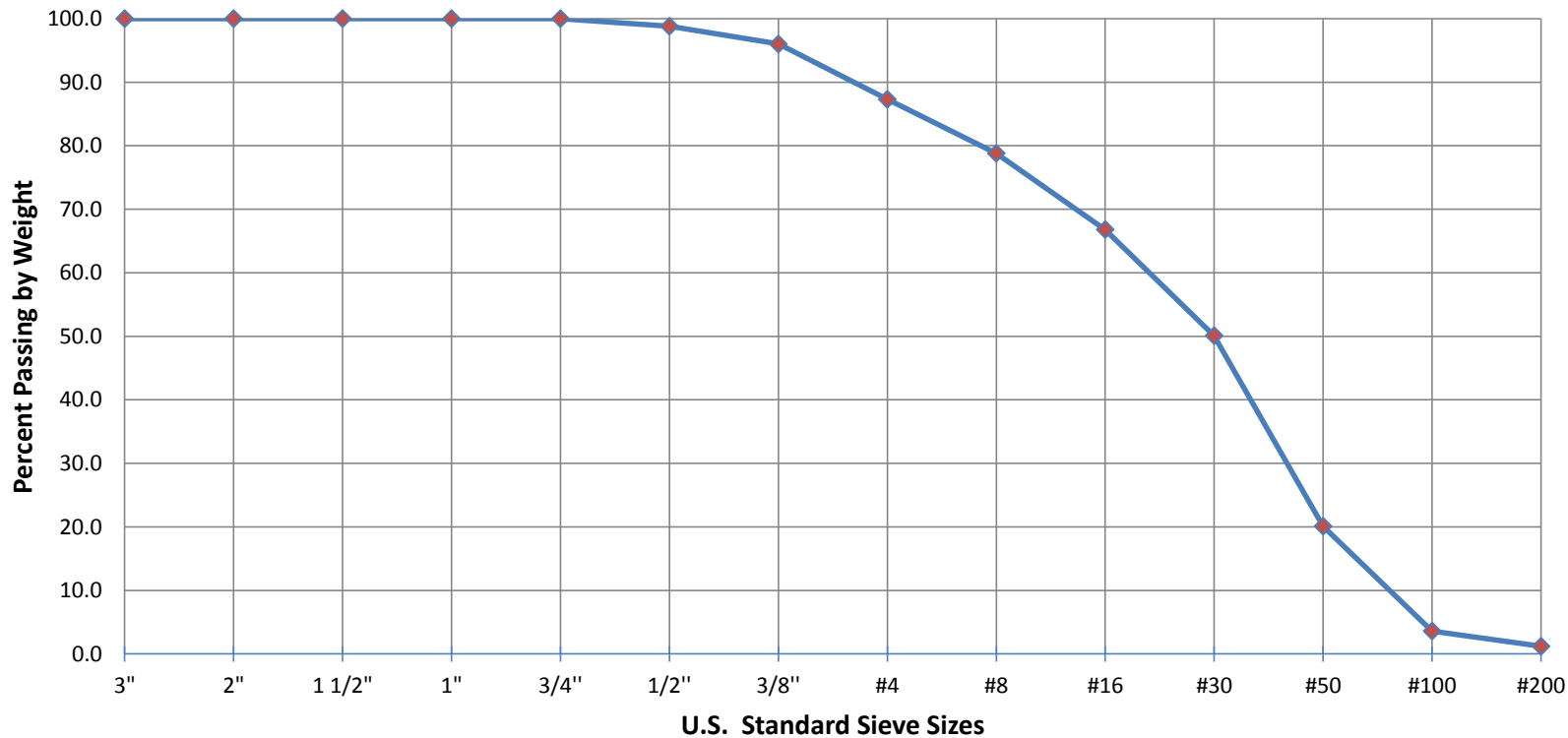
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
12.7	86.1	1.2

Client:	ESS	Date Recieved:	12/23/2011	Soil Description:	Sandy & Organic Material
Project:	1112368.00	Date Tested:	12/28/2011	Comments:	
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL		
T.E.I. Sample/Report #:	11-S-659				

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112368
Client Sample I.D. #: 1112368-03
Soil Description: Sandy & Organic Material

Date Recieved: 12/23/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-660
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	459.0
Original Dry Mass (D):	299.5
Moisture Loss (W - D):	159.5
% Moisture (100 x (W - D) / D):	53.3

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	220.5
Mass of fines lost by wash (D - Dw):	79.0
% -75 µm Sieve (100 x (D - Dw)/D):	26.4

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		7.5		2.5		97.5		
#8		20.0		6.7		93.3		
#16		46.0		15.4		84.6		
#30		88.5		29.5		70.5		
#50		162.0		54.1		45.9		
#100		208.0		69.4		30.6		
#200		219.5		73.3		26.7		
Pan		220.5		73.6	Calculate Fineness Modulus?		No	▼
Sub Total		220.5						
Loss on Wash (D - Dw)		79.0						
Total		299.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui	Reviewed By: Wendy Kerkhoff
	Laboratory Supervisor
Date: 12/28/2011	Date: 12/28/2011

Results Within Specification Limits:

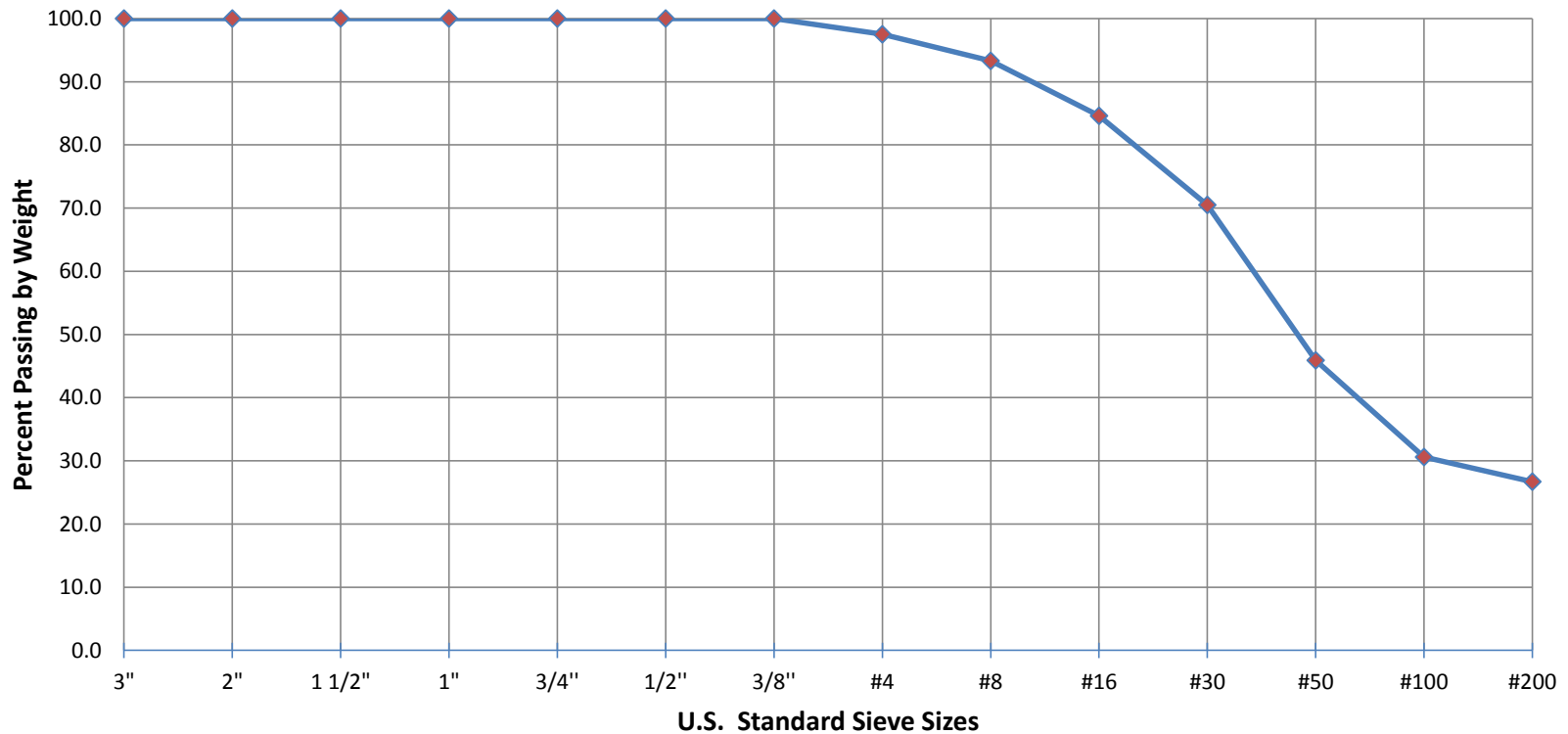
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
2.5	70.8	26.7

Client: ESS	Date Recieved: 12/23/2011	Soil Description: Sandy & Organic Material
Project: 1112368.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-660		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112368
Client Sample I.D. #: 1112368-04
Soil Description: Sandy & Organic Material

Date Recieved: 12/22/2011
Date Tested: 12/28/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-661
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	469.5
Original Dry Mass (D):	247.0
Moisture Loss (W - D):	222.5
% Moisture (100 x (W - D) / D):	90.1

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	167.0
Mass of fines lost by wash (D - Dw):	80.0
% -75 µm Sieve (100 x (D - Dw)/D):	32.4

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		4.0		1.6		98.4		
#8		12.0		4.9		95.1		
#16		30.5		12.3		87.7		
#30		59.0		23.9		76.1		
#50		112.5		45.5		54.5		
#100		152.0		61.5		38.5		
#200		166.0		67.2		32.8		
Pan		167.0		67.6	Calculate Fineness Modulus?		No	▼
Sub Total		167.0						
Loss on Wash (D - Dw)		80.0						
Total		247.0						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/28/2011 Date: 12/28/2011

Results Within Specification Limits:

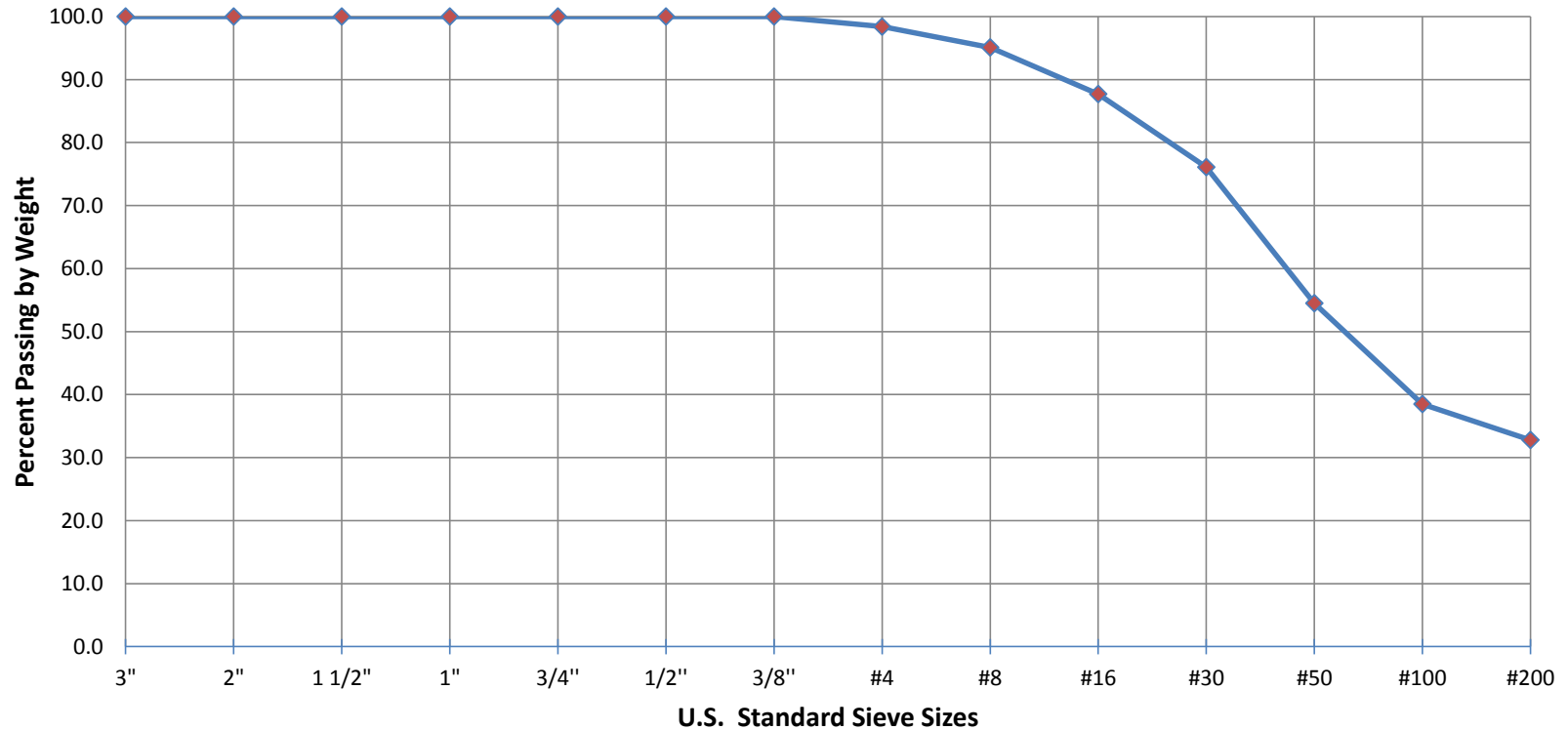
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
1.6	65.6	32.8

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sandy & Organic Material
Project: 1112368.00	Date Tested: 12/28/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-661		

ANALYTICAL REPORT

Job Number: 200-8700-2

Job Description: TOC

For:

ESS Laboratory

185 Frances Ave.

Cranston, RI 02910

Attention: Ms. Elizabeth Ouk



Approved for release.
Kathryn A Kelly
Project Manager I
1/9/2012 4:20 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
01/09/2012

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

CASE NARRATIVE

Client: ESS Laboratory

Project: TOC

Report Number: 200-8700-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

TOTAL ORGANIC CARBON

Samples 1112368-01, 1112368-02, 1112368-03 and 1112368-04 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 01/03/2012.

The following sample(s) was analyzed outside of analytical holding time: 1112368-01, 1112368-02, 1112368-03, 1112368-04.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 1112368-01, 1112368-02, 1112368-03 and 1112368-04 were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 01/03/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ESS Laboratory

Job Number: 200-8700-2

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8700-3 Total Organic Carbon Percent Solids	1112368-01	8870 76.7	H	1300 0.25	mg/Kg %	Lloyd Kahn Moisture
200-8700-4 Total Organic Carbon Percent Solids	1112368-02	1470 82.1	H	1220 0.25	mg/Kg %	Lloyd Kahn Moisture
200-8700-5 Total Organic Carbon Percent Solids	1112368-03	37700 45.4	H	2200 0.25	mg/Kg %	Lloyd Kahn Moisture
200-8700-6 Total Organic Carbon Percent Solids	1112368-04	13700 65.1	H	1540 0.25	mg/Kg %	Lloyd Kahn Moisture

METHOD SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Organic Carbon, Total (TOC)	TAL BUR	EPA Lloyd Kahn	
Percent Moisture	TAL BUR	EPA Moisture	

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-2

Method	Analyst	Analyst ID
EPA Lloyd Kahn	Tam, Michelle N	MNT
EPA Moisture	Tam, Michelle N	MNT

SAMPLE SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-8700-3	1112368-01	Solid	12/19/2011 1400	12/27/2011 1153
200-8700-4	1112368-02	Solid	12/19/2011 1415	12/27/2011 1153
200-8700-5	1112368-03	Solid	12/19/2011 1445	12/27/2011 1153
200-8700-6	1112368-04	Solid	12/19/2011 1510	12/27/2011 1153

SAMPLE RESULTS

Client: ESS Laboratory

Job Number: 200-8700-2

General Chemistry

Client Sample ID: 1112368-01

Lab Sample ID: 200-8700-3

Client Matrix: Solid

% Moisture: 23.3

Date Sampled: 12/19/2011 1400

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	8870	H	mg/Kg	1300	1300	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1652					DryWt Corrected: Y
Percent Solids	76.7		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-2

General Chemistry

Client Sample ID: 1112368-02

Lab Sample ID: 200-8700-4

Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 12/19/2011 1415

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	1470	H	mg/Kg	1220	1220	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1705					DryWt Corrected: Y
Percent Solids	82.1		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-2

General Chemistry

Client Sample ID: 1112368-03

Lab Sample ID: 200-8700-5

Date Sampled: 12/19/2011 1445

Client Matrix: Solid

% Moisture: 54.6

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	37700	H	mg/Kg	2200	2200	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1719					DryWt Corrected: Y
Percent Solids	45.4		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-2

General Chemistry

Client Sample ID: 1112368-04

Lab Sample ID: 200-8700-6

Date Sampled: 12/19/2011 1510

Client Matrix: Solid

% Moisture: 34.9

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	13700	H	mg/Kg	1540	1540	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1732					DryWt Corrected: Y
Percent Solids	65.1		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: ESS Laboratory

Job Number: 200-8700-2

Lab Section	Qualifier	Description
General Chemistry		
	U	Indicates the analyte was analyzed for but not detected.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:200-31672					
200-8700-3	1112368-01	T	Solid	Moisture	
200-8700-4	1112368-02	T	Solid	Moisture	
200-8700-5	1112368-03	T	Solid	Moisture	
200-8700-6	1112368-04	T	Solid	Moisture	
Analysis Batch:200-31717					
LCS 200-31717/4	Lab Control Sample	T	Solid	Lloyd Kahn	
MB 200-31717/3	Method Blank	T	Solid	Lloyd Kahn	
200-8700-3	1112368-01	T	Solid	Lloyd Kahn	
200-8700-4	1112368-02	T	Solid	Lloyd Kahn	
200-8700-5	1112368-03	T	Solid	Lloyd Kahn	
200-8700-6	1112368-04	T	Solid	Lloyd Kahn	

Report Basis

T = Total

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-2

Method Blank - Batch: 200-31717

**Method: Lloyd Kahn
Preparation: N/A**

Lab Sample ID: MB 200-31717/3
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 01/03/2012 1612
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: WCCH1
 Lab File ID: 010312003
 Initial Weight/Volume: 1.0 g
 Final Weight/Volume: 1.0 g

Analyte	Result	Qual	RL	RL
Total Organic Carbon	1000	U	1000	1000

Lab Control Sample - Batch: 200-31717

**Method: Lloyd Kahn
Preparation: N/A**

Lab Sample ID: LCS 200-31717/4
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 01/03/2012 1625
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: WCCH1
 Lab File ID: 010312005
 Initial Weight/Volume: 1.0 g
 Final Weight/Volume: 1.0 g

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	12600	12500	99	75 - 125	

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-8700-2

Login Number: 8700
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8°C, IR GUN ID 154, CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

TO **SAMPLE RECEIVING**

TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON, VT 05403

Ship Date: 23DEC11
 ActWgt: 33.0 LB
 CAD: 590887/CAFE2509

(802) 660-1990

FedEx
Express



(US)

Ttk# 4258 8385 5089

PRIORITY OVERNIGHT



30 COMMUNITY DRIVE



PLACE THIS LABEL ON PACKAGE
 NEXT TO THE SHIPPING LABEL

ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

TO **SAMPLE RECEIVING**

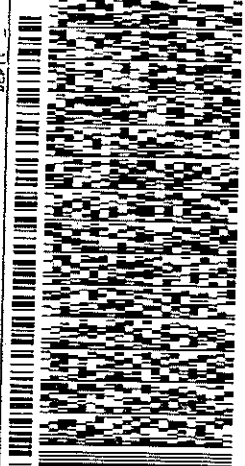
TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON VT 05403

SHIP DATE: 23DEC11
 ACTWGT: 33.0 LB
 CAD: 590887/CAFE2509

BILL RECIPIENT

(802) 660-1990

FedEx
Express

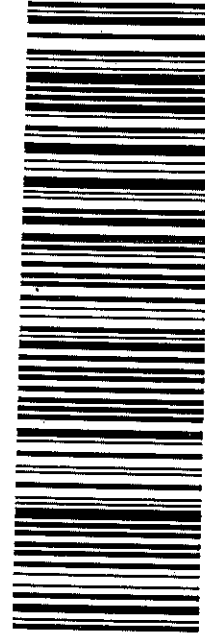


SATURDAY ### A4
PRIORITY OVERNIGHT

TRK# 4258 8385 5089

XO BTVA

05403
 VT-US BTV



Report Prepared for:

Elizabeth Ouk
ESS Laboratory
185 Frances Avenue
Cranston RI 02910

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

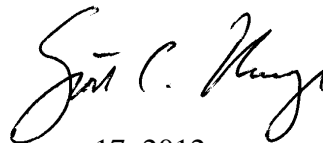
Pace Project #: 10179264
Sample Receipt Date: 12/23/2011
Client Project #: 1112368
Client Sub PO #: 1112368
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



January 17, 2012

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

January 17, 2012



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on three samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 49-93%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDF congeners. The affected values were flagged "P" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits. These results indicate that the sample processing steps did not significantly impact the results reported for the field samples.

Laboratory spike samples were also prepared using clean sand that had been fortified with native standard materials. Recoveries of the native compounds ranged from 86-129%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE)	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP)	E87605	Ohio VAP	CL101 9507
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900015	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Report No.....10179264

Appendix A

Sample Management

ESS Laboratory *face*
 Division of *Thielsch Engineering, Inc.*
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

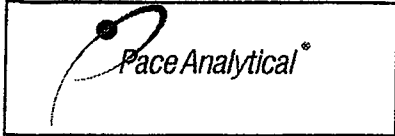
Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits Class BSM
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name Ess Labs Project # _____
 Contract Person Liz Ouk Address _____
 City _____ State _____ Zip _____
 Telephone # _____ PO# 112368
 Fax # _____ Email Address _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/19/11	1400	X S	X S	X S	112368-01	1	6	X	DA
02	12/19/11	1445	X S	X S	X S	112368-03	1	6	X	02
03	12/19/11	1445	X S	X S	X S	112368-05	1	6	X	03

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only
 Seals Intact ___ Yes ___ No NA: [] Pickup
 Cooler Temp: 0.7c [] Technicians _____
 Relinquished by (Signature) [Signature] Date/Time 12/22/11 10:00 AM
 Received by (Signature) [Signature] Date/Time 12-23-11 953
 Relinquished by (Signature) _____ Date/Time _____
 Received by (Signature) _____ Date/Time _____
 Comments: Please return cooler



Document Name:
Sample Condition Upon Receipt Form
 Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ESS Lab Project # 101 79264

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 120374970146247421

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional:
 Proj. Due Date:
 Proj. Name:

Packing Material: Bubble Wrap Bubble Bags None Other _____ Temp Blank: Yes _____ No

Thermometer Used 80344042 or 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.7
 Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No
 Comments: **Date and Initials of person examining contents: 12-23-11 MB**

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: 12/23/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112368-01		
Lab Sample ID	10179264001		
Filename	F120113B_07		
Injected By	BAL		
Total Amount Extracted	12.6 g	Matrix	Solid
% Moisture	16.6	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	12/19/2011 14:00
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 19:24

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	91
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112368-03		
Lab Sample ID	10179264002		
Filename	F120114B_08		
Injected By	BAL		
Total Amount Extracted	21.8 g	Matrix	Solid
% Moisture	53.8	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	12/19/2011 14:45
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 22:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.6	---	1.0	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	110.0	---	1.0	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	---	100	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	8.2	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	230.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	53
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	6.6	---	5.0	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	5.3	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	150.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	8.7	---	5.0			
1,2,3,4,6,7,8-HpCDF	9.5	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 6.0 ng/Kg		
Total HpCDF	19.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	18.0	---	5.0			
Total HpCDD	40.0	---	5.0			
OCDF	ND	---	10.0			
OCDD	120.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
P = PCDE Interference

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112368-05		
Lab Sample ID	10179264003		
Filename	F120114B_09		
Injected By	BAL		
Total Amount Extracted	23.1 g	Matrix	Solid
% Moisture	55.6	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/19/2011 14:45
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50
Method Blank ID	BLANK-31298	Analyzed	01/14/2012 23:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	7.3	---	1.0	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	190.0	---	1.0	2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	6.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	---	100	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	25.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	360.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	5.6	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	6.3	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	10.0	---	5.0	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	7.5	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	240.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	23.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	17.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 16 ng/Kg		
Total HpCDF	33.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	32.0	---	5.0			
Total HpCDD	70.0	---	5.0			
OCDF	14.0	---	10.0			
OCDD	230.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31300	Matrix	Solid
Filename	F120113B_06	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 18:41
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31298	Matrix	Solid
Filename	F120114B_07	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/14/2012 21:58
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31301	Matrix	Solid
Filename	F120113B_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 15:06
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL
Method Blank ID	BLANK-31300		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	113	2,3,7,8-TCDF-13C	2.0	78
Total TCDF				2,3,7,8-TCDD-13C	2.0	76
				1,2,3,7,8-PeCDF-13C	2.0	84
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	87
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	88
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.2	115	1,2,3,6,7,8-HxCDF-13C	2.0	81
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	87
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	113
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	62
				1,2,3,4,7,8,9-HpCDF-13C	2.0	70
1,2,3,4,7,8-HxCDF	1.0	1.1	114	1,2,3,4,6,7,8-HpCDD-13C	2.0	66
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	68
2,3,4,6,7,8-HxCDF	1.0	1.1	114			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.2	119	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.1	106			
1,2,3,7,8,9-HxCDD	1.0	0.86	86			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.2	117			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.97	97			
Total HpCDD						
OCDF	2.0	2.6	129			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31299	Matrix	Solid
Filename	F120114B_16	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/15/2012 04:25
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL
Method Blank ID	BLANK-31298		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	73
Total TCDF				2,3,7,8-TCDD-13C	2.0	81
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	91
				1,2,3,4,7,8-HxCDF-13C	2.0	70
1,2,3,7,8-PeCDF	1.0	1.1	112	1,2,3,6,7,8-HxCDF-13C	2.0	78
2,3,4,7,8-PeCDF	1.0	1.1	109	2,3,4,6,7,8-HxCDF-13C	2.0	76
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	74
				1,2,3,4,7,8-HxCDD-13C	2.0	78
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	67
				1,2,3,4,7,8,9-HpCDF-13C	2.0	61
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	70
1,2,3,6,7,8-HxCDF	1.0	1.1	112	OCDD-13C	4.0	60
2,3,4,6,7,8-HxCDF	1.0	1.1	113			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	109	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.0	1.1	114			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109			
1,2,3,4,7,8,9-HpCDF	1.0	1.1	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.98	98			
Total HpCDD						
OCDF	2.0	2.2	108			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
 Client Project ID: _____
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120368
 Date Project Due: 12/27/11
 Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
 Air No.:
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
 Cooler Temp: 2.0
 Iced With: Icepacks
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes

- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	2	NP
1	Yes	8 oz Soil Jar	1	NP
1	Yes	Plastic Bag	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	Plastic Bag	1	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	1	NP
3	Yes	Plastic Bag	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	Plastic Bag	1	NP
5	Yes	4 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	1	NP

Completed By: [Signature] Date/Time: 12/20/11
 Reviewed By: [Signature] Date/Time: 12/20/11

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page of

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits _____
 Electronic Deliverable Yes No
 Format: Excel Access PDF Other _____
 ESS LAB PROJECT ID _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/19/11	1400			S	1112362-01	1	1	P	
02		1415			S	1112362-02	1	1	P	
03		1445			S	11 - 03	1	1	P	
04	12/19/11	1510			S	1112362-04	1	1	P	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only

Seals Intact Yes No NA: Pickup

Cooler Temp: _____ [] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: _____

Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Ben Calk</i>	12/21/11 1400	<i>Stephaine</i>	12-22-11 11:55
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

ESS Laboratory

Test America

CHAIN OF CUSTODY

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 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits _____ ESS LAB PROJECT ID _____
 Class B SW
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other _____

Co. Name ESS Labs		Project #		Project Name (20 Char. or less)	
Contract Person Lib Ark		Address		Write Required Analysis	
City Ark		State		Zip	
Telephone #		Fax #		Email Address	
ESS LAB Sample #		Date		Collection Time	
		COMP		GRAB	
		MATRIX		Sample Identification (20 Char. or less)	
		Pres Code		Number of Containers	
				Type of Containers	

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers
01	12/19/11	1400		X	S	112368-01	116	1	X
02	12/19/11	1415		X	S	-02	116	1	X
03	12/19/11	1445		X	S	-03	116	1	X
04	12/19/11	1510		X	S	112368-04	116	1	X

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No ___ Internal Use Only

Seals Intact ___ Yes ___ No NA: ___ [] Pickup

Cooler Temp: ___ [] Technicians ___

Relinquished by: (Signature) **[Signature]** Date/Time **12/20/11 1520** Received by: (Signature) **[Signature]** Date/Time **12/21/11 1535**

Relinquished by: (Signature) **[Signature]** Date/Time **12/21/11 1535** Received by: (Signature) **[Signature]** Date/Time **12/21/11 1400**

Comments: **Samples to West Field**

*By circling MA-MCP client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory
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 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 1

ESS LAB PROJECT ID
 Reporting Limits
 Class B SW
 Electronic Deliverable Yes No
 Format: Extel Access PDF Other EQUIS ED

Turn Time
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other
 MA RI CT NH NJ NY ME Other
 Is this project for any of the following:
 MA-MCP Navy USACE Other

Co. Name	Project #	Project Name (20 Char. or less)	Number of Containers	Type of Containers	Write Required Analysis		
Amec E + I	3650110222	Terron, Gorman	5	PLG	AS: SEM Dioxins/Furans PP-13 Metals TOC Grain Size % Solids Hardness Dissolved Organic Carbon Total PP-13 Metals Diss. PP-13 Metals		
Contact Person Dave Chapman	Address 107 Audubon Rd	Zip 01880	PO#	Sample Identification (20 Char. or less)	Pres Code		
City Wakefield, MA	State	Fax # 781-245-6606	781-246-5060	DEHEISEIN@com	matrix		
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code
01	12-19-11	14:00	Y S	X S	S	SED-33-01	1
02	12-19-11	14:15	X S	X S	S	SED-33-18	1
03	12-19-11	14:45	Y S	X S	S	SED-43-01	1
04	12-19-11	15:10	Y S	X S	S	SED-43-18	1
05	12-19-11	14:45	Y S	X S	S	SED-43-01DUP	1
	12-19-11	9:20	X SW	X SW	S	SW-33	2/4
	12-19-11	13:55	X SW	X SW	S	SW-43	2/4

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge W-W-Waste Water G-W-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only

Seals Intact Yes No NA: Pickup Technicians

Cooler Temp: 2.0°C

Sampled by: David Chapman

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12-19-11 16:10	<i>[Signature]</i>	12/11/16 10
<i>[Signature]</i>		<i>[Signature]</i>	



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
AMEC Environmental and Infrastructure
107 Audubon Road, Suite 301
Wakefield, MA 01880

Checked for Completeness
of Parameters Ordered By:

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112381

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 3:46 pm, Jan 26, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

CTS - Cranston, RI	Grain Size Analysis
Pace Analytical - Minneapolis, MN	Dioxin - Full List
TestAmerica Laboratories, Inc. - Westfield, MA	Total Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

SAMPLE RECEIPT

The following samples were received on December 21, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112381-01	SED-34-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112381-02	SED-34-18	Sediment	§, SUB
1112381-03	SED-60-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112381-04	SED-60-18	Sediment	§, SUB
1112381-05	SED-59-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112381-06	SED-59-18	Sediment	§, SUB
1112381-07	SED-46-01	Sediment	§, 6010B, 7471A, 7841, AVS/SEM, SUB
1112381-08	SED-46-18	Sediment	§, SUB



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

PROJECT NARRATIVE

3050B/6000/7000 Total Metals

CL12317-BS1 [Blank Spike recovery is below lower control limit \(B-\).](#)
Selenium (77% @ 80-120%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-34-01
Date Sampled: 12/20/11 10:50

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-01
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-34-01
Date Sampled: 12/20/11 10:50
Percent Solids: 80

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-01
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (4.2)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Arsenic	3.7 (2.1)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Beryllium	0.11 (0.09)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Cadmium	ND (0.42)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Chromium	4.5 (0.8)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Copper	210 (2.1)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Lead	23.6 (4.2)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Mercury	ND (0.015)	7471A		1	KJK	12/27/11 17:50	1.64	40	CL12320
Nickel	3.8 (2.1)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Selenium	ND (4.2)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Silver	6.79 (0.42)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317
Thallium	ND (1.03)	7841		5	SVD	12/31/11 0:43	3.01	100	CL12317
Zinc	30.7 (2.1)	6010B		1	JP	12/28/11 18:47	3.01	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-34-01
Date Sampled: 12/20/11 10:50

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1500 (1190)	SUB			§	01/03/12 17:46	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-34-01
Date Sampled: 12/20/11 10:50
Percent Solids: 80

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-01
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (25.0)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Arsenic	ND (40.6)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Beryllium	ND (6.75)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Cadmium	ND (2.71)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Chromium	27.5 (23.4)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Copper	482 (19.2)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Lead	79.6 (5.87)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Mercury	ND (0.152)	AVS/SEM		1	HG	01/10/12 17:36	5.135	250	CA20909
Nickel	ND (51.8)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Selenium	ND (38.5)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Silver	8.11 (5.64)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Thallium	ND (29.8)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
Zinc	415 (46.5)	AVS/SEM		1	SVD	01/05/12 18:51	5.135	250	CA20517
AVS	80.2 (1.95)	AVS/SEM		1	EEM	01/03/12 11:35	5.135	100	CA20302



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-34-18
Date Sampled: 12/20/11 11:00

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-02
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	3710 (1270)	SUB			§	01/03/12 17:59	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-60-01
Date Sampled: 12/20/11 12:05

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-03
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-60-01
Date Sampled: 12/20/11 12:05
Percent Solids: 85

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-03
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.5)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Arsenic	4.3 (1.7)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Beryllium	0.12 (0.07)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Cadmium	ND (0.35)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Chromium	3.2 (0.7)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Copper	5.1 (1.7)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Lead	3.5 (3.5)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Mercury	ND (0.019)	7471A		1	KJK	12/27/11 17:53	1.22	40	CL12320
Nickel	2.8 (1.7)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Selenium	ND (3.5)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Silver	ND (0.35)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317
Thallium	ND (0.86)	7841		5	SVD	12/31/11 0:48	3.37	100	CL12317
Zinc	15.3 (1.7)	6010B		1	JP	12/28/11 18:52	3.37	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-60-01
Date Sampled: 12/20/11 12:05

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-03
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1200 (1200)	SUB			§	01/03/12 18:12	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-60-01
Date Sampled: 12/20/11 12:05
Percent Solids: 85

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-03
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (23.5)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Arsenic	ND (38.3)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Beryllium	9.59 (6.36)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Cadmium	ND (2.55)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Chromium	64.2 (22.0)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Copper	57.6 (18.0)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Lead	15.7 (5.53)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Mercury	ND (0.143)	AVS/SEM		1	HG	01/10/12 17:38 5.131	250	CA20909	
Nickel	ND (48.8)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Selenium	ND (36.3)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Silver	ND (5.31)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Thallium	ND (28.0)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
Zinc	214 (43.8)	AVS/SEM		1	SVD	01/05/12 18:55 5.131	250	CA20517	
AVS	11.7 (1.83)	AVS/SEM		1	EEM	01/03/12 11:35 5.131	100	CA20302	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-60-18
Date Sampled: 12/20/11 14:00

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-04
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1730 (1330)	SUB			§	01/03/12 18:38	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-59-01
Date Sampled: 12/20/11 14:40

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-05
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-59-01
Date Sampled: 12/20/11 14:40
Percent Solids: 80

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-05
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (3.7)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Arsenic	28.1 (1.9)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Beryllium	ND (0.08)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Cadmium	ND (0.37)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Chromium	3.9 (0.7)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Copper	5.6 (1.9)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Lead	4.5 (3.7)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Mercury	ND (0.016)	7471A		1	KJK	12/27/11 17:55	1.52	40	CL12320
Nickel	5.0 (1.9)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Selenium	ND (3.7)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Silver	ND (0.37)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317
Thallium	ND (0.92)	7841		5	SVD	12/31/11 0:54	3.37	100	CL12317
Zinc	18.3 (1.9)	6010B		1	JP	12/28/11 18:56	3.37	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-59-01
Date Sampled: 12/20/11 14:40

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-05
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	4500 (1270)	SUB			§	01/03/12 18:51	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-59-01
Date Sampled: 12/20/11 14:40
Percent Solids: 80

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-05
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (25.3)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Arsenic	121 (41.2)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Beryllium	ND (6.85)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Cadmium	ND (2.74)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Chromium	35.8 (23.7)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Copper	40.6 (19.4)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Lead	14.8 (5.96)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Mercury	ND (0.154)	AVS/SEM		1	HG	01/10/12 17:41 5.064	250	CA20909	
Nickel	ND (52.6)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Selenium	ND (39.1)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Silver	ND (5.72)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Thallium	ND (30.2)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
Zinc	219 (47.2)	AVS/SEM		1	SVD	01/05/12 19:16 5.064	250	CA20517	
AVS	ND (1.95)	AVS/SEM		1	EEM	01/03/12 11:35 5.064	100	CA20302	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-59-18
Date Sampled: 12/20/11 14:50

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-06
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	1150 (1150)	SUB			§	01/03/12 19:04	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-46-01
Date Sampled: 12/20/11 15:05

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-07
Sample Matrix: Sediment
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Dioxin	See Attached (N/A)							



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-46-01
Date Sampled: 12/20/11 15:05
Percent Solids: 15

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-07
Sample Matrix: Sediment
Units: mg/kg dry

3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (21.0)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Arsenic	42.0 (10.5)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Beryllium	0.65 (0.44)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Cadmium	2.64 (2.11)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Chromium	127 (4.2)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Copper	336 (10.5)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Lead	490 (21.0)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Mercury	0.482 (0.114)	7471A		1	KJK	12/27/11 17:58	1.16	40	CL12320
Nickel	69.4 (10.5)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Selenium	ND (21.0)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Silver	17.0 (2.11)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317
Thallium	ND (5.19)	7841		5	SVD	12/31/11 0:59	3.18	100	CL12317
Zinc	467 (10.5)	6010B		1	JP	12/28/11 19:01	3.18	100	CL12317



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-46-01
Date Sampled: 12/20/11 15:05

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-07
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	123000 (6820)	SUB			§	01/03/12 19:17	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-46-01
Date Sampled: 12/20/11 15:05
Percent Solids: 15

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-07
Sample Matrix: Sediment
Units: umol/kg dry

Acid Volatile Sulfide / Simultaneous Extracted Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (133)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Arsenic	372 (217)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Beryllium	75.2 (36.0)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Cadmium	33.0 (14.4)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Chromium	1450 (125)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Copper	4960 (102)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Lead	2640 (31.3)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Mercury	ND (0.809)	AVS/SEM		1	HG	01/10/12 17:43 5.137	250	CA20909	
Nickel	767 (276)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Selenium	ND (205)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Silver	81.6 (30.1)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Thallium	ND (159)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
Zinc	8540 (248)	AVS/SEM		1	SVD	01/05/12 19:20 5.137	250	CA20517	
AVS	15600 (208)	AVS/SEM		20	EEM	01/03/12 11:35 5.137	100	CA20302	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SED-46-18
Date Sampled: 12/20/11 15:25

ESS Laboratory Work Order: 1112381
ESS Laboratory Sample ID: 1112381-08
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)							
Total Organic Carbon	98500 (4650)	SUB			§	01/03/12 19:30	mg/kg	CA21712



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12317 - 3050B

Blank

Antimony	ND	5.0	mg/kg wet							
Arsenic	ND	2.5	mg/kg wet							
Beryllium	ND	0.10	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.0	mg/kg wet							
Copper	ND	2.5	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
Nickel	ND	2.5	mg/kg wet							
Selenium	ND	5.0	mg/kg wet							
Silver	ND	0.50	mg/kg wet							
Thallium	ND	0.25	mg/kg wet							
Zinc	ND	2.5	mg/kg wet							

LCS

Antimony	103	17.2	mg/kg wet	120.0		86	80-120			
Arsenic	106	8.6	mg/kg wet	124.0		85	80-120			
Beryllium	79.6	0.36	mg/kg wet	95.00		84	80-120			
Cadmium	99.7	1.73	mg/kg wet	116.0		86	80-120			
Chromium	81.9	3.4	mg/kg wet	95.90		85	80-120			
Copper	83.1	8.6	mg/kg wet	82.80		100	80-120			
Lead	123	17.2	mg/kg wet	137.0		90	80-120			
Nickel	104	8.6	mg/kg wet	121.0		86	80-120			
Selenium	156	17.2	mg/kg wet	202.0		77	80-120			B-
Silver	44.8	1.73	mg/kg wet	53.50		84	80-120			
Thallium	193	42.7	mg/kg wet	231.0		84	80-120			
Zinc	222	8.6	mg/kg wet	275.0		81	80-120			

LCS Dup

Antimony	109	18.2	mg/kg wet	120.0		91	80-120	6	20	
Arsenic	108	9.1	mg/kg wet	124.0		87	80-120	2	20	
Beryllium	81.6	0.38	mg/kg wet	95.00		86	80-120	3	20	
Cadmium	102	1.83	mg/kg wet	116.0		88	80-120	3	20	
Chromium	84.7	3.6	mg/kg wet	95.90		88	80-120	3	20	
Copper	87.3	9.1	mg/kg wet	82.80		105	80-120	5	20	
Lead	127	18.2	mg/kg wet	137.0		92	80-120	3	20	
Nickel	106	9.1	mg/kg wet	121.0		88	80-120	2	20	
Selenium	166	18.2	mg/kg wet	202.0		82	80-120	6	20	
Silver	46.3	1.83	mg/kg wet	53.50		87	80-120	3	20	
Thallium	198	45.0	mg/kg wet	231.0		86	80-120	3	20	
Zinc	228	9.1	mg/kg wet	275.0		83	80-120	3	20	

Batch CL12320 - 245.1/7470A

Blank

Mercury	ND	0.033	mg/kg wet							
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LCS

Mercury	16.2	1.65	mg/kg wet	15.20		107	80-120			
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CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3050B/6000/7000 Total Metals

Batch CL12320 - 245.1/7470A

LCS Dup

Mercury	15.6	1.60	mg/kg wet	15.20		103	80-120	3	20	
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Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CA20302 - General Preparation

Blank

AVS	ND	1.56	umol/kg dry							
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Duplicate Source: 1112381-07

AVS	16100	208	umol/kg dry		15600			3	20	
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Batch CA20517 - SEM Prep

Blank

Antimony	ND	20.5	umol/kg dry							
Arsenic	ND	33.4	umol/kg dry							
Beryllium	ND	5.55	umol/kg dry							
Cadmium	ND	2.22	umol/kg dry							
Chromium	ND	19.2	umol/kg dry							
Copper	ND	15.7	umol/kg dry							
Lead	ND	4.83	umol/kg dry							
Nickel	ND	42.6	umol/kg dry							
Selenium	ND	31.7	umol/kg dry							
Silver	ND	4.64	umol/kg dry							
Thallium	ND	24.5	umol/kg dry							
Zinc	ND	38.2	umol/kg dry							

Duplicate Source: 1112381-07

Antimony	ND	136	umol/kg dry		ND				35	
Arsenic	391	221	umol/kg dry		372			5	20	
Beryllium	75.0	36.7	umol/kg dry		75.2			0.3	35	
Cadmium	33.2	14.7	umol/kg dry		33.0			0.7	35	
Chromium	1440	127	umol/kg dry		1450			0.7	20	
Copper	4880	104	umol/kg dry		4960			2	35	
Lead	2660	31.9	umol/kg dry		2640			0.5	35	
Nickel	766	282	umol/kg dry		767			0.3	35	
Selenium	80.8	209	umol/kg dry		19.5			122	35	
Silver	74.0	30.6	umol/kg dry		81.6			10	20	
Thallium	ND	162	umol/kg dry		ND				35	
Zinc	8460	253	umol/kg dry		8540			1	35	

Batch CA20909 - 245.1/7470A

Blank

Mercury	ND	0.0312	umol/kg dry							
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LCS

Mercury	0.0291	0.0312	umol/kg dry	0.02991		97	80-120			
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LCS Dup

Mercury	0.0287	0.0312	umol/kg dry	0.02991		96	80-120	1	20	
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CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Acid Volatile Sulfide / Simultaneous Extracted Metals

Batch CA20909 - 245.1/7470A

Duplicate Source: 1112381-07

Mercury	ND	0.824	umol/kg dry		ND				35	
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CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

Notes and Definitions

- Z-08 See Attached
- U Analyte included in the analysis, but not detected
- D Diluted.
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112381

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-01
Soil Description: Sandy & Organic Material

Date Received: 12/27/2011
Date Tested: 12/23/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-631
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	369.0	Dry Mass after wash (Dw):	306.0
Original Dry Mass (D):	309.5	Mass of fines lost by wash (D - Dw):	3.5
Moisture Loss (W - D):	59.5	% -75 µm Sieve (100 x (D - Dw)/D):	1.1
% Moisture (100 x (W - D) / D):	19.2		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		23.0		7.4		92.6		
1/2"		32.0		10.3		89.7		
3/8"		52.5		17.0		83.0		
#4		75.0		24.2		75.8		
#8		89.0		28.8		71.2		
#16		116.0		37.5		62.5		
#30		173.5		56.1		43.9		
#50		258.0		83.4		16.6		
#100		299.5		96.8		3.2		
#200		305.5		98.7		1.3		
Pan		306.0		98.9				
Sub Total		306.0						
Loss on Wash (D - Dw)		3.5						
Total		309.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011

Date: 12/27/2011

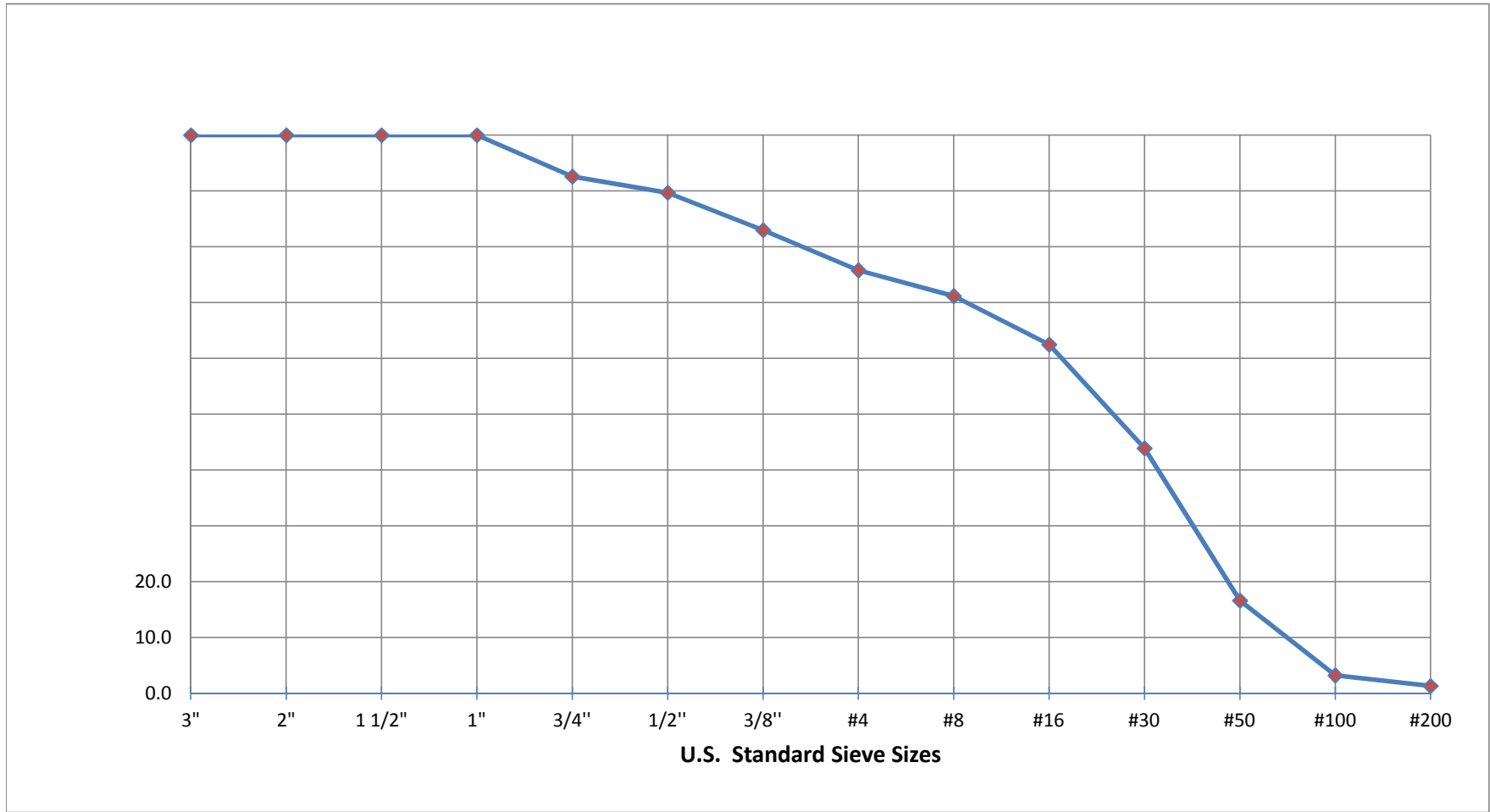
Results Within Specification Limits:

Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
24.2	74.5	1.3

Client: ESS	Date Recieved: 12/27/2011	Soil Description: Sandy & Organic Material
Project: 1112381.00	Date Tested: 12/23/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-631		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-02
Soil Description: Sandy & Organic Material

Date Received: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-632
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	371.0	Dry Mass after wash (Dw):	283.5
Original Dry Mass (D):	297.5	Mass of fines lost by wash (D - Dw):	14.0
Moisture Loss (W - D):	73.5	% -75 µm Sieve (100 x (D - Dw)/D):	4.7
% Moisture (100 x (W - D) / D):	24.7		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		23.5		7.9		92.1		
3/8"		43.5		14.6		85.4		
#4		69.5		23.4		76.6		
#8		84.5		28.4		71.6		
#16		106.5		35.8		64.2		
#30		153.0		51.4		48.6		
#50		231.0		77.6		22.4		
#100		273.5		91.9		8.1		
#200		282.5		95.0		5.0		
Pan		283.5		95.3				
Sub Total		283.5						
Loss on Wash (D - Dw)		14.0						
Total		297.5						
					Calculate Fineness Modulus?	No		

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011

Date: 12/27/2011

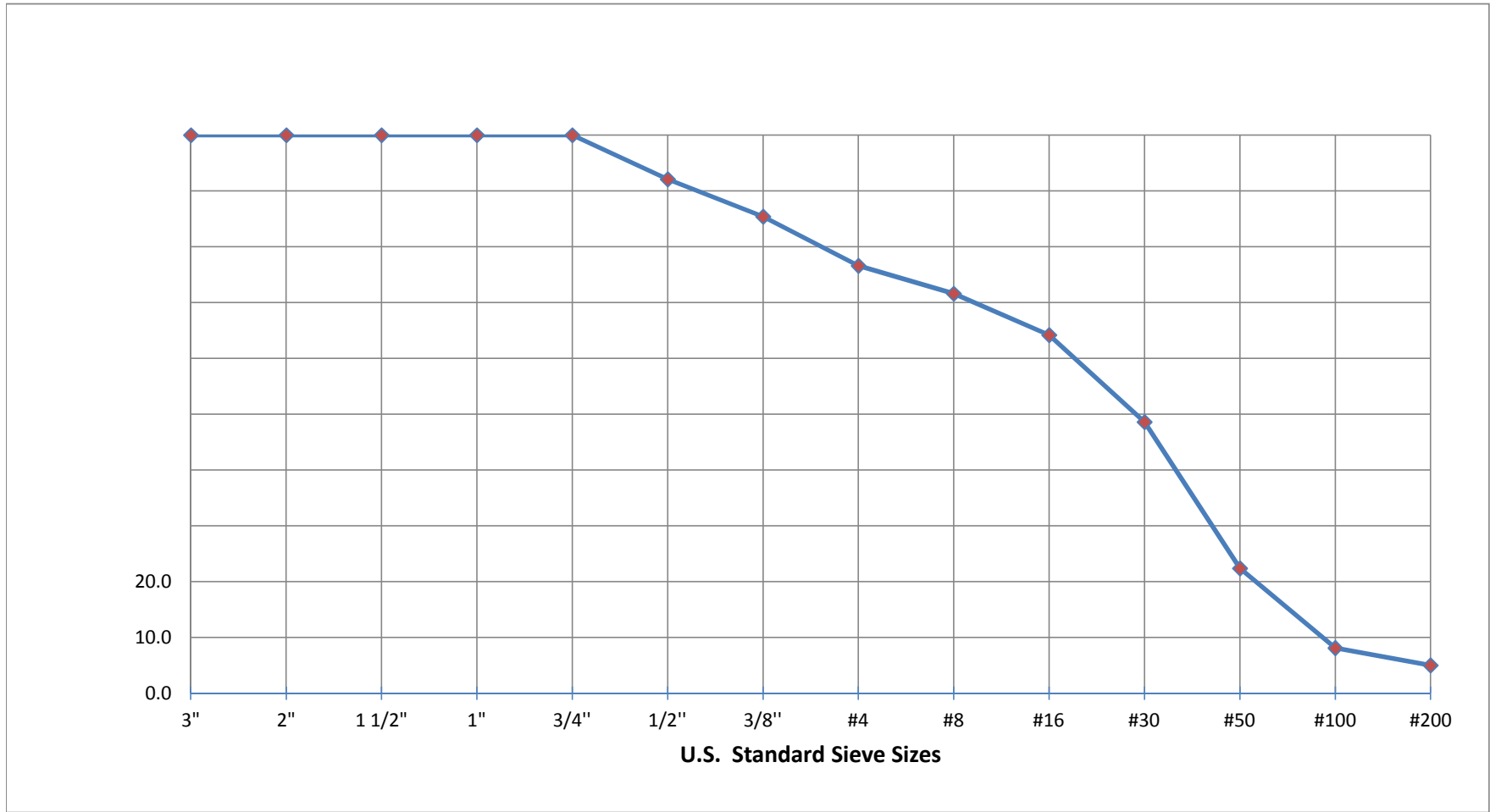
Results Within Specification Limits:

Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
23.4	71.6	5.0

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sandy & Organic Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-632		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-03
Soil Description: Sandy & Organic Material

Date Recieved: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-633
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	386.5
Original Dry Mass (D):	345.5
Moisture Loss (W - D):	41.0
% Moisture (100 x (W - D) / D):	11.9

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	342.5
Mass of fines lost by wash (D - Dw):	3.0
% -75 µm Sieve (100 x (D - Dw)/D):	0.9

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		12.0		3.5		96.5		
1/2"		87.0		25.2		74.8		
3/8"		105.0		30.4		69.6		
#4		153.5		44.4		55.6		
#8		187.0		54.1		45.9		
#16		223.5		64.7		35.3		
#30		266.5		77.1		22.9		
#50		318.5		92.2		7.8		
#100		336.0		97.3		2.7		
#200		342.0		99.0		1.0		
Pan		342.5		99.1	Calculate Fineness Modulus?		No	▼
Sub Total		342.5						
Loss on Wash (D - Dw)		3.0						
Total		345.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011

Date: 12/27/2011

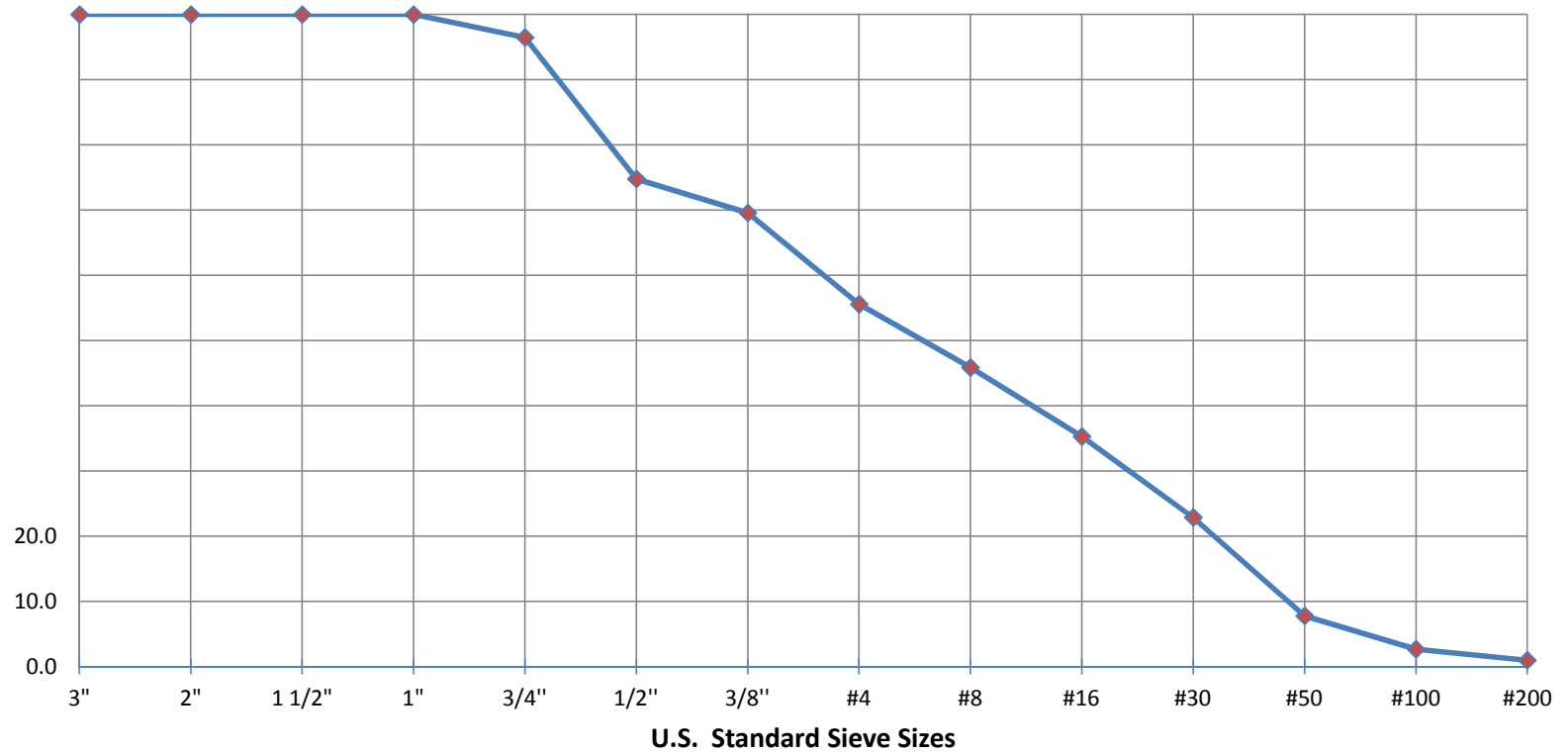
Results Within Specification Limits:

Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
44.4	54.6	1.0

Client: ESS	Date Received: 12/22/2011	Soil Description: Sandy & Organic Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-633		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-04
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-634
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)		Materials Finer than 75 µm Sieve by Washing (C117)	
Wet Mass (W):	387.0	Dry Mass after wash (Dw):	59.0
Original Dry Mass (D):	304.0	Mass of fines lost by wash (D - Dw):	245.0
Moisture Loss (W - D):	83.0	% -75 µm Sieve (100 x (D - Dw)/D):	80.6
% Moisture (100 x (W - D) / D):	27.3		

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		3.0		1.0		99.0		
#16		10.5		3.5		96.5		
#30		21.5		7.1		92.9		
#50		36.0		11.8		88.2		
#100		49.5		16.3		83.7		
#200		58.5		19.2		80.8		
Pan		59.0		19.4				
Sub Total		59.0						
Loss on Wash (D - Dw)		245.0						
Total		304.0						
						Calculate Fineness Modulus?	No	▼

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui

Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011

Date: 12/27/2011

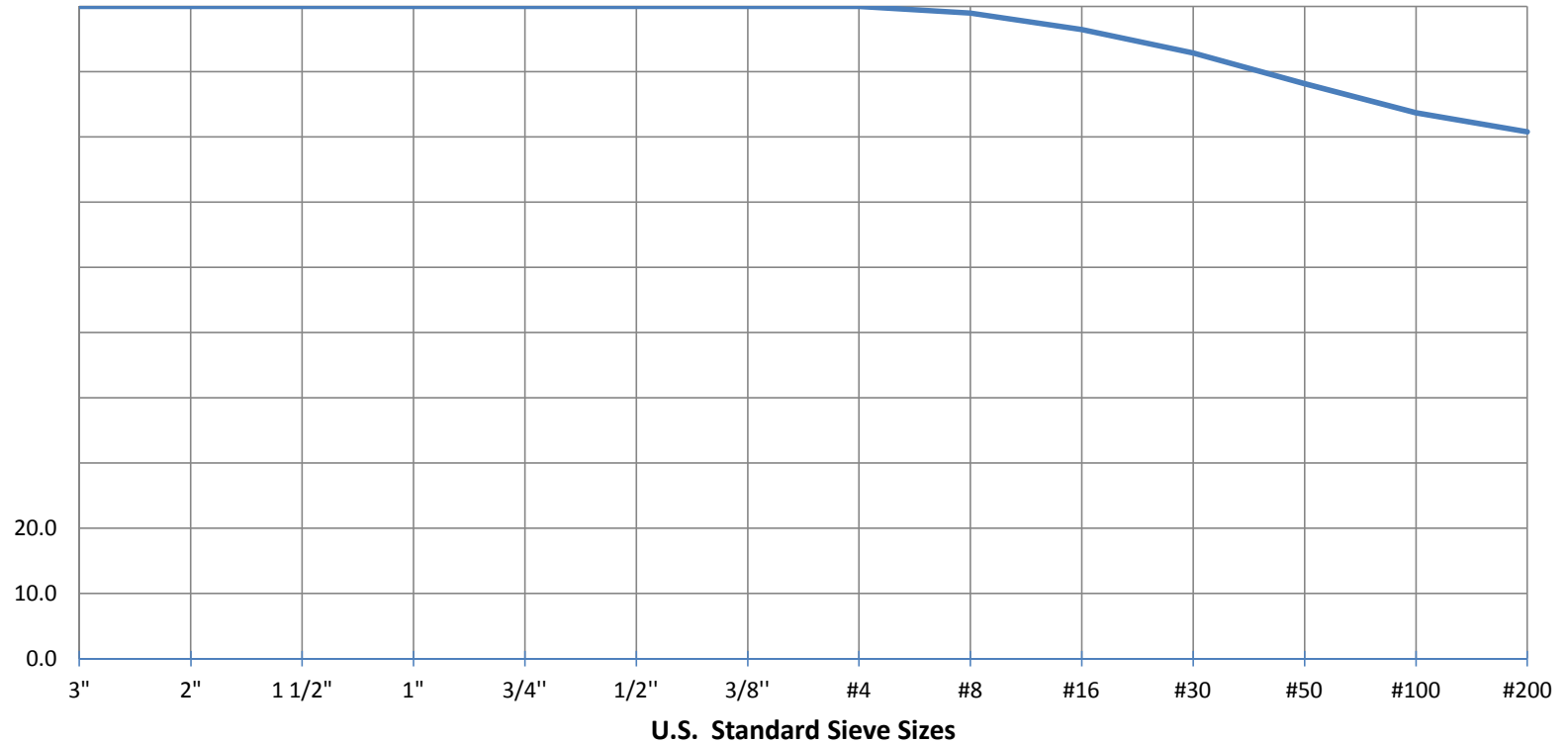
Results Within Specification Limits:

Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	19.2	80.8

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-634		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-05
Soil Description: Sandy & Organic Material

Date Recieved: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-635
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	362.0
Original Dry Mass (D):	306.5
Moisture Loss (W - D):	55.5
% Moisture (100 x (W - D) / D):	18.1

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	302.5
Mass of fines lost by wash (D - Dw):	4.0
% -75 µm Sieve (100 x (D - Dw)/D):	1.3

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		15.5		5.1		94.9		
1/2"		34.0		11.1		88.9		
3/8"		55.5		18.1		81.9		
#4		90.5		29.5		70.5		
#8		117.0		38.2		61.8		
#16		154.0		50.2		49.8		
#30		209.0		68.2		31.8		
#50		272.5		88.9		11.1		
#100		296.5		96.7		3.3		
#200		301.5		98.4		1.6		
Pan		302.5		98.7	Calculate Fineness Modulus?		No	▼
Sub Total		302.5						
Loss on Wash (D - Dw)		4.0						
Total		306.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011 Date: 12/27/2011

Results Within Specification Limits:

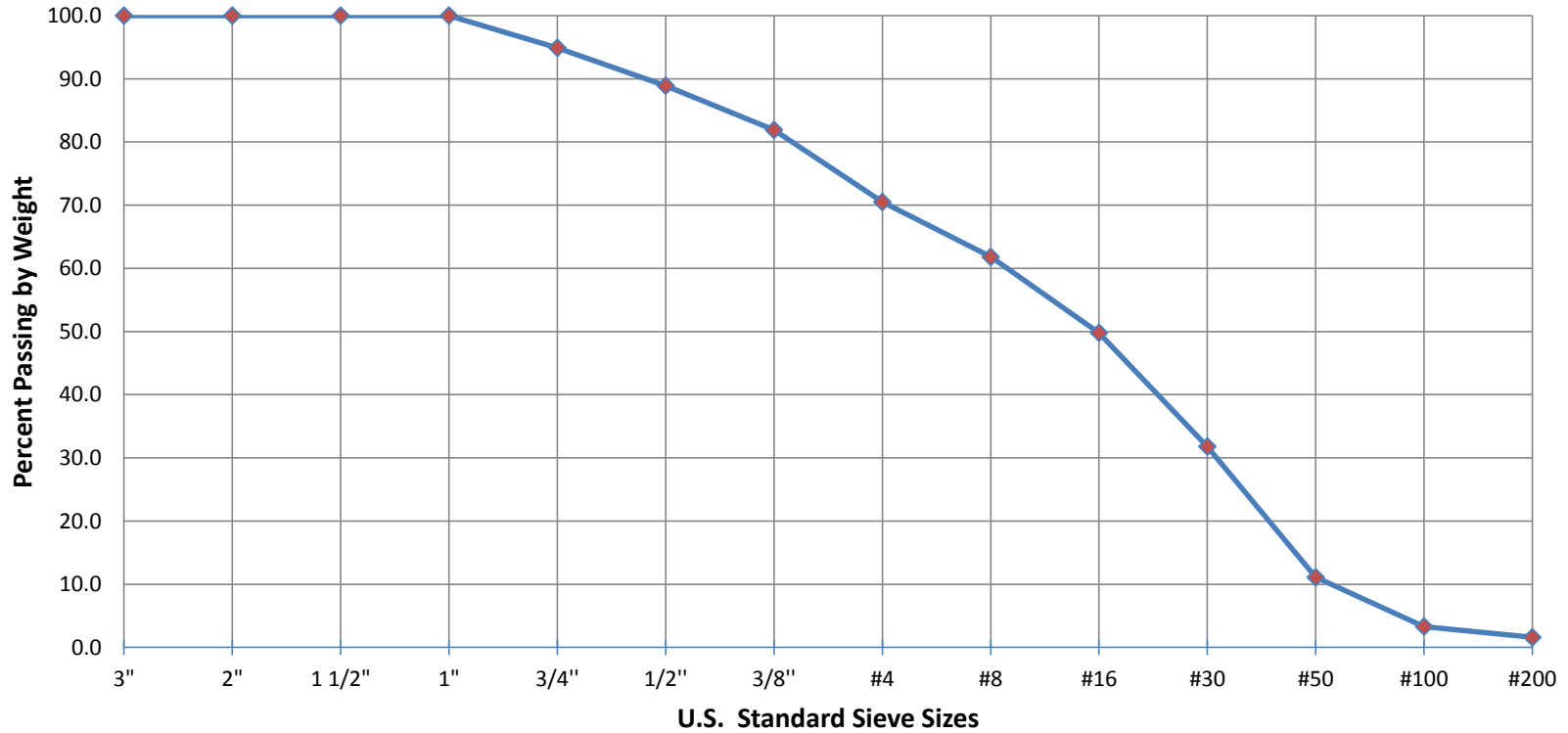
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
29.5	68.9	1.6

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Sandy & Organic Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-635		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-06
Soil Description: Sandy & Organic Material

Date Recieved: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-636
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	376.5
Original Dry Mass (D):	324.0
Moisture Loss (W - D):	52.5
% Moisture (100 x (W - D) / D):	16.2

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	321.5
Mass of fines lost by wash (D - Dw):	2.5
% -75 µm Sieve (100 x (D - Dw)/D):	0.8

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		14.5		4.5		95.5		
#4		30.0		9.3		90.7		
#8		53.0		16.4		83.6		
#16		90.0		27.8		72.2		
#30		150.5		46.5		53.5		
#50		266.5		82.3		17.7		
#100		313.0		96.6		3.4		
#200		321.0		99.1		0.9		
Pan		321.0		99.1	Calculate Fineness Modulus?		No	▼
Sub Total		321.0						
Loss on Wash (D - Dw)		2.5						
Total		323.5						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui	Reviewed By: Wendy Kerkhoff
	Laboratory Supervisor
Date: 12/27/2011	Date: 12/27/2011

Results Within Specification Limits:

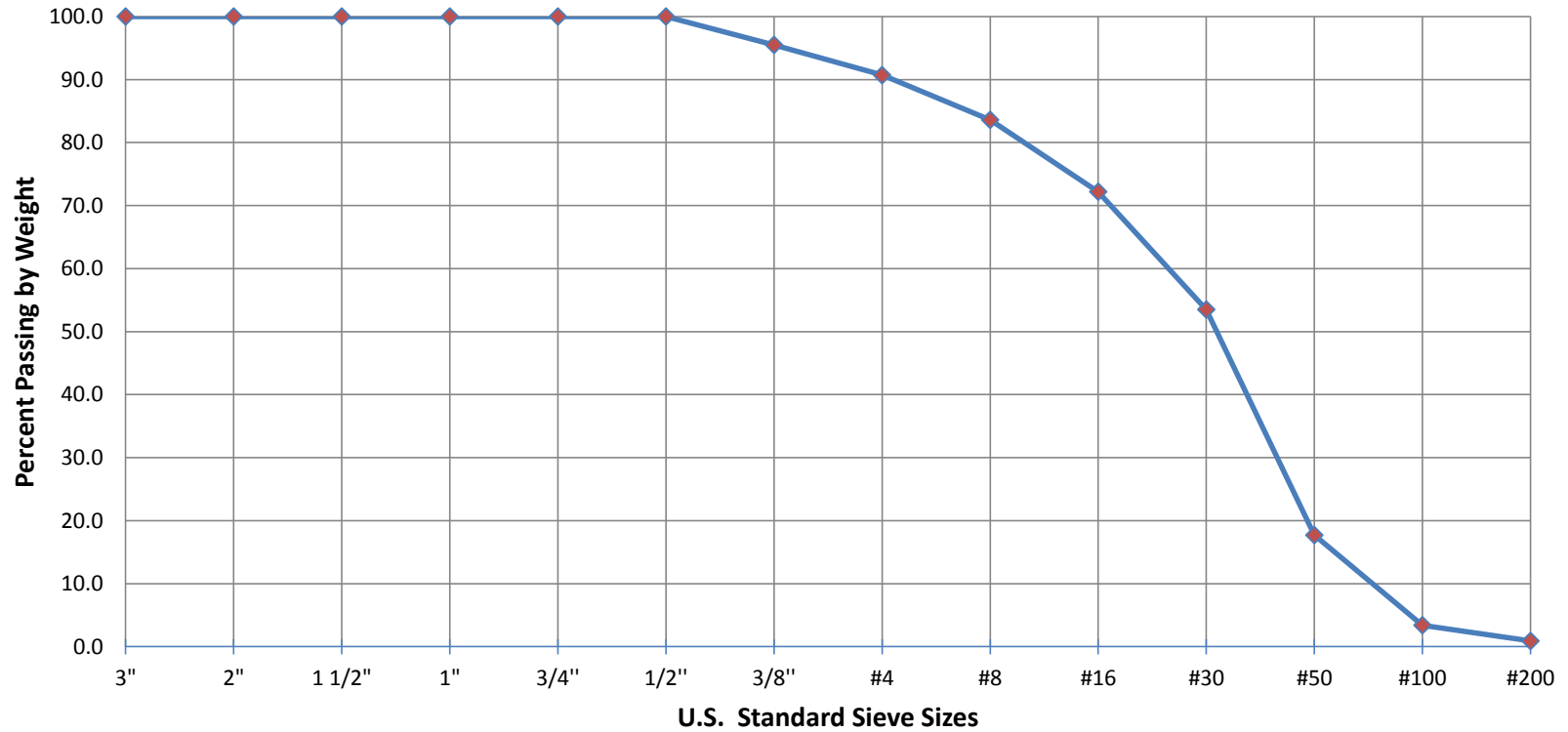
Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454

Grain-Size Distribution Test Report ASTM D 422 Wet Sieve



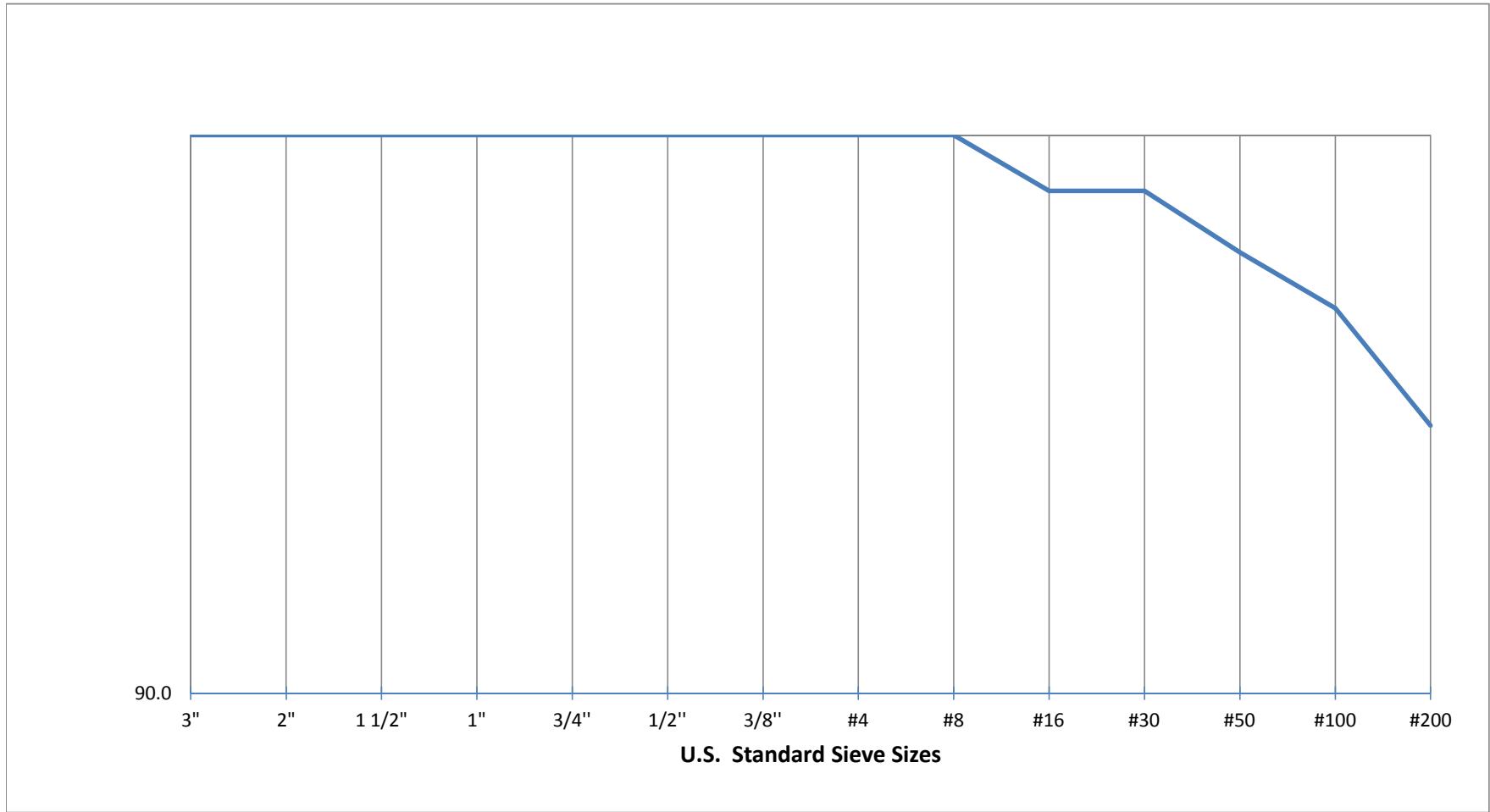
% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
9.3	89.8	0.9

Client:	ESS	Date Recieved:	12/22/2011	Soil Description:	Sandy & Organic Material
Project:	1112381.00	Date Tested:	12/27/2011	Comments:	
T.E.I. Project #:	74-11-0002-1	Laboratory Technician:	CL		
T.E.I. Sample/Report #:	11-S-636				

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	5.2	94.8

Client: ESS	Date Received: 12/22/2011	Soil Description: Silty Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-637		

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910
401-467-6454

Sieve Analysis Test Report

Client: ESS
Project: 1112381
Client Sample I.D. #: 1112381-08
Soil Description: Silty Material

Date Received: 12/22/2011
Date Tested: 12/27/2011
T.E.I. Project #: 74-11-0002-1
T.E.I. Sample/Report #: 11-S-638
Laboratory Technician: CL

Total Moisture Content by Drying (D2216)	
Wet Mass (W):	373.0
Original Dry Mass (D):	99.0
Moisture Loss (W - D):	274.0
% Moisture (100 x (W - D) / D):	276.8

Materials Finer than 75 µm Sieve by Washing (C117)	
Dry Mass after wash (Dw):	6.5
Mass of fines lost by wash (D - Dw):	92.5
% -75 µm Sieve (100 x (D - Dw)/D):	93.4

Sieve Analysis of Fine and Coarse Aggregates (C136 /C117)								
Sieve	Mass per Sieve		% Retained per Sieve		% Passing		Specification %	
	Unwashed	Washed	Unwashed	Washed	Unwashed	Washed	PR	PP
3"		0.0		0.0		100.0		
2"		0.0		0.0		100.0		
1 1/2"		0.0		0.0		100.0		
1"		0.0		0.0		100.0		
3/4"		0.0		0.0		100.0		
1/2"		0.0		0.0		100.0		
3/8"		0.0		0.0		100.0		
#4		0.0		0.0		100.0		
#8		0.5		0.5		99.5		
#16		1.0		1.0		99.0		
#30		2.0		2.0		98.0		
#50		3.0		3.0		97.0		
#100		4.0		4.0		96.0		
#200		6.0		6.1		93.9		
Pan		6.5		6.6				
Sub Total		6.5						
Loss on Wash (D - Dw)		92.5						
Total		99.0						

Comments:

Cherif Laloui

Wendy Kerkhoff

Tested By: Cherif Laloui Reviewed By: Wendy Kerkhoff

Laboratory Supervisor

Date: 12/27/2011 Date: 12/27/2011

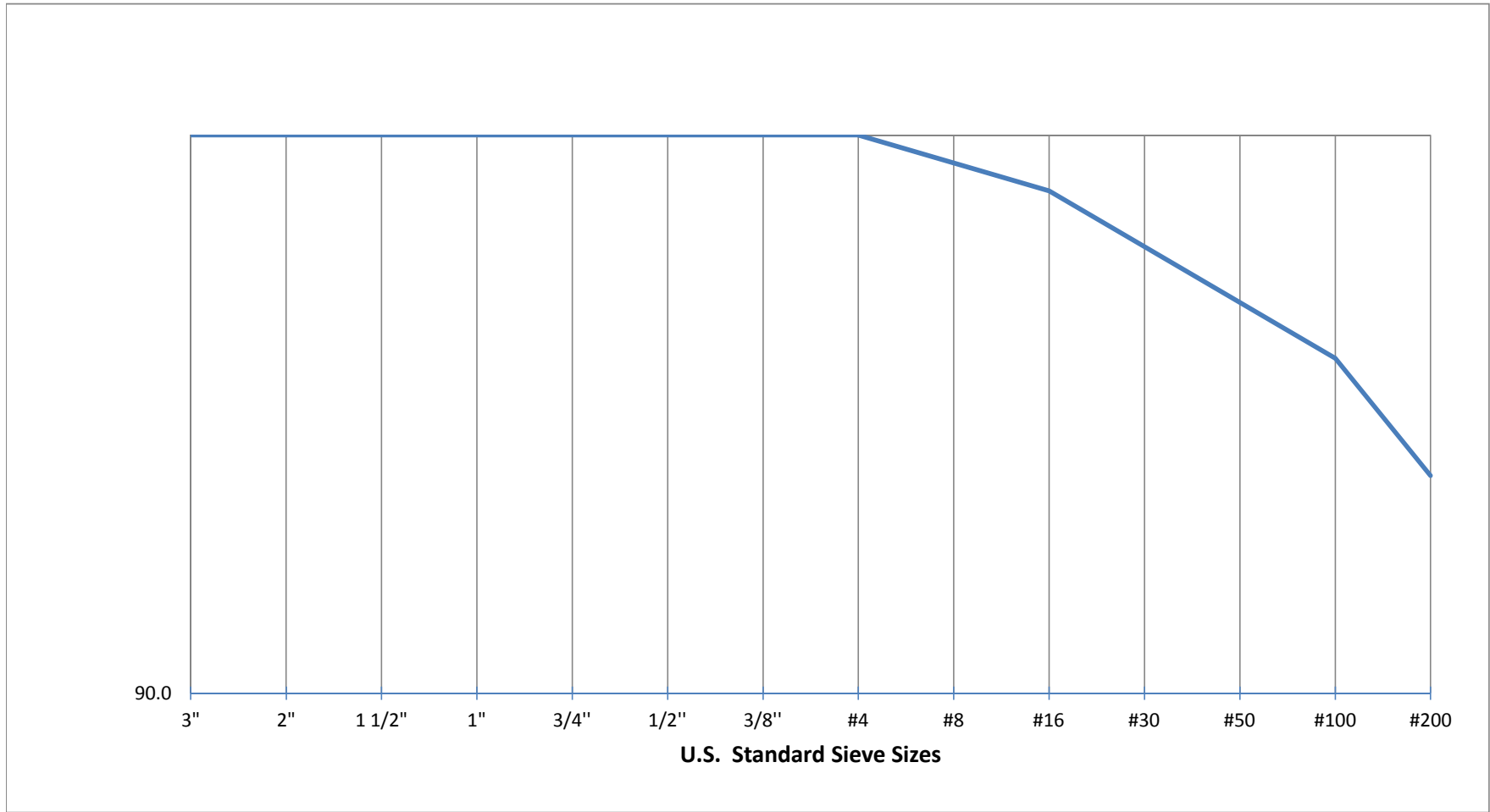
Results Within Specification Limits:

Results Outside Specification Limits:

THIELSCH ENGINEERING, INC.

195 Frances Avenue, Cranston, RI 02910

401-467-6454



% Coarse (retained #4)	% Sand (passing #4 to #200)	% Fines (passing #200)
0.0	6.1	93.9

Client: ESS	Date Recieved: 12/22/2011	Soil Description: Silty Material
Project: 1112381.00	Date Tested: 12/27/2011	Comments:
T.E.I. Project #: 74-11-0002-1	Laboratory Technician: CL	
T.E.I. Sample/Report #: 11-S-638		

ANALYTICAL REPORT

Job Number: 200-8700-4

Job Description: TOC

For:

ESS Laboratory

185 Frances Ave.

Cranston, RI 02910

Attention: Ms. Elizabeth Ouk



Approved for release.
Kathryn A Kelly
Project Manager I
1/9/2012 4:22 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
01/09/2012

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

CASE NARRATIVE

Client: ESS Laboratory

Project: TOC

Report Number: 200-8700-4

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

TOTAL ORGANIC CARBON

Samples 1112381-01, 1112381-02, 1112381-03, 1112381-04, 1112381-05, 1112381-06, 1112381-07 and 1112381-08 were analyzed for total organic carbon in accordance with Lloyd Kahn Method. The samples were analyzed on 01/03/2012.

No difficulties were encountered during the TOC analyses.

All quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 1112381-01, 1112381-02, 1112381-03, 1112381-04, 1112381-05, 1112381-06, 1112381-07 and 1112381-08 were analyzed for percent solids in accordance with EPA SW846 3550C. The samples were analyzed on 01/03/2012.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ESS Laboratory

Job Number: 200-8700-4

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8700-12	1112381-01					
Total Organic Carbon		1500		1190	mg/Kg	Lloyd Kahn
Percent Solids		83.8		0.25	%	Moisture
200-8700-13	1112381-02					
Total Organic Carbon		3710		1270	mg/Kg	Lloyd Kahn
Percent Solids		78.5		0.25	%	Moisture
200-8700-14	1112381-03					
Percent Solids		83.4		0.25	%	Moisture
200-8700-15	1112381-04					
Total Organic Carbon		1730		1330	mg/Kg	Lloyd Kahn
Percent Solids		75.0		0.25	%	Moisture
200-8700-16	1112381-05					
Total Organic Carbon		4500		1270	mg/Kg	Lloyd Kahn
Percent Solids		78.6		0.25	%	Moisture
200-8700-17	1112381-06					
Percent Solids		87.2		0.25	%	Moisture
200-8700-18	1112381-07					
Total Organic Carbon		123000		6820	mg/Kg	Lloyd Kahn
Percent Solids		14.7		0.25	%	Moisture
200-8700-19	1112381-08					
Total Organic Carbon		98500		4650	mg/Kg	Lloyd Kahn
Percent Solids		21.5		0.25	%	Moisture

METHOD SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-4

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Organic Carbon, Total (TOC)	TAL BUR	EPA Lloyd Kahn	
Percent Moisture	TAL BUR	EPA Moisture	

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-4

Method	Analyst	Analyst ID
EPA Lloyd Kahn	Tam, Michelle N	MNT
EPA Moisture	Tam, Michelle N	MNT

SAMPLE SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-4

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-8700-12	1112381-01	Solid	12/20/2011 1050	12/27/2011 1153
200-8700-13	1112381-02	Solid	12/20/2011 1100	12/27/2011 1153
200-8700-14	1112381-03	Solid	12/20/2011 1205	12/27/2011 1153
200-8700-15	1112381-04	Solid	12/20/2011 1400	12/27/2011 1153
200-8700-16	1112381-05	Solid	12/20/2011 1440	12/27/2011 1153
200-8700-17	1112381-06	Solid	12/20/2011 1450	12/27/2011 1153
200-8700-18	1112381-07	Solid	12/20/2011 1505	12/27/2011 1153
200-8700-19	1112381-08	Solid	12/20/2011 1525	12/27/2011 1153

SAMPLE RESULTS

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-01

Lab Sample ID: 200-8700-12

Date Sampled: 12/20/2011 1050

Client Matrix: Solid

% Moisture: 16.2

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	1500		mg/Kg	1190	1190	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012	1746			DryWt Corrected: Y
Percent Solids	83.8		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012	2016			DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-02

Lab Sample ID: 200-8700-13

Date Sampled: 12/20/2011 1100

Client Matrix: Solid

% Moisture: 21.5

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	3710		mg/Kg	1270	1270	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012 1759				DryWt Corrected: Y
Percent Solids	78.5		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012 2016				DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-03

Lab Sample ID: 200-8700-14

Date Sampled: 12/20/2011 1205

Client Matrix: Solid

% Moisture: 16.6

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	1200	U	mg/Kg	1200	1200	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1812					DryWt Corrected: Y
Percent Solids	83.4		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-04

Lab Sample ID: 200-8700-15

Date Sampled: 12/20/2011 1400

Client Matrix: Solid

% Moisture: 25.0

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	1730		mg/Kg	1330	1330	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012	1838			DryWt Corrected: Y
Percent Solids	75.0		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012	2016			DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-05

Lab Sample ID: 200-8700-16

Date Sampled: 12/20/2011 1440

Client Matrix: Solid

% Moisture: 21.4

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	4500		mg/Kg	1270	1270	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012	1851			DryWt Corrected: Y
Percent Solids	78.6		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012	2016			DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-06

Lab Sample ID: 200-8700-17

Date Sampled: 12/20/2011 1450

Client Matrix: Solid

% Moisture: 12.8

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	1150	U	mg/Kg	1150	1150	1.0	Lloyd Kahn
	Analysis Batch: 200-31717	Analysis Date: 01/03/2012 1904					DryWt Corrected: Y
Percent Solids	87.2		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672	Analysis Date: 01/03/2012 2016					DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-07

Lab Sample ID: 200-8700-18

Date Sampled: 12/20/2011 1505

Client Matrix: Solid

% Moisture: 85.3

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	123000		mg/Kg	6820	6820	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012	1917			DryWt Corrected: Y
Percent Solids	14.7		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012	2016			DryWt Corrected: N

Client: ESS Laboratory

Job Number: 200-8700-4

General Chemistry

Client Sample ID: 1112381-08

Lab Sample ID: 200-8700-19

Date Sampled: 12/20/2011 1525

Client Matrix: Solid

% Moisture: 78.5

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Total Organic Carbon	98500		mg/Kg	4650	4650	1.0	Lloyd Kahn
	Analysis Batch: 200-31717		Analysis Date: 01/03/2012	1930			DryWt Corrected: Y
Percent Solids	21.5		%	0.25	0.25	1.0	Moisture
	Analysis Batch: 200-31672		Analysis Date: 01/03/2012	2016			DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: ESS Laboratory

Job Number: 200-8700-4

Lab Section	Qualifier	Description
General Chemistry	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-4

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:200-31672					
200-8700-12	1112381-01	T	Solid	Moisture	
200-8700-13	1112381-02	T	Solid	Moisture	
200-8700-14	1112381-03	T	Solid	Moisture	
200-8700-15	1112381-04	T	Solid	Moisture	
200-8700-16	1112381-05	T	Solid	Moisture	
200-8700-17	1112381-06	T	Solid	Moisture	
200-8700-18	1112381-07	T	Solid	Moisture	
200-8700-19	1112381-08	T	Solid	Moisture	
Analysis Batch:200-31717					
LCS 200-31717/4	Lab Control Sample	T	Solid	Lloyd Kahn	
MB 200-31717/3	Method Blank	T	Solid	Lloyd Kahn	
200-8700-12	1112381-01	T	Solid	Lloyd Kahn	
200-8700-13	1112381-02	T	Solid	Lloyd Kahn	
200-8700-14	1112381-03	T	Solid	Lloyd Kahn	
200-8700-15	1112381-04	T	Solid	Lloyd Kahn	
200-8700-16	1112381-05	T	Solid	Lloyd Kahn	
200-8700-17	1112381-06	T	Solid	Lloyd Kahn	
200-8700-18	1112381-07	T	Solid	Lloyd Kahn	
200-8700-19	1112381-08	T	Solid	Lloyd Kahn	

Report Basis

T = Total

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-4

Method Blank - Batch: 200-31717

**Method: Lloyd Kahn
Preparation: N/A**

Lab Sample ID: MB 200-31717/3
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 01/03/2012 1612
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: WCCH1
 Lab File ID: 010312003
 Initial Weight/Volume: 1.0 g
 Final Weight/Volume: 1.0 g

Analyte	Result	Qual	RL	RL
Total Organic Carbon	1000	U	1000	1000

Lab Control Sample - Batch: 200-31717

**Method: Lloyd Kahn
Preparation: N/A**

Lab Sample ID: LCS 200-31717/4
 Client Matrix: Solid
 Dilution: 1.0
 Analysis Date: 01/03/2012 1625
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31717
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/Kg

Instrument ID: WCCH1
 Lab File ID: 010312005
 Initial Weight/Volume: 1.0 g
 Final Weight/Volume: 1.0 g

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Organic Carbon	12600	12500	99	75 - 125	

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-8700-4

Login Number: 8700
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8°C, IR GUN ID 154, CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON, VT 05403

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

(802) 660-1990

FedEx
Express



(US)

Ttk# 4258 8385 5089

PRIORITY OVERNIGHT



30 COMMUNITY DRIVE

PLACE THIS LABEL ON PACKAGE
 NEXT TO THE SHIPPING LABEL



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

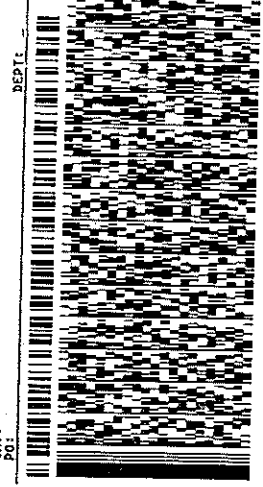
TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON VT 05403

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

BILL RECIPIENT

(802) 660-1990

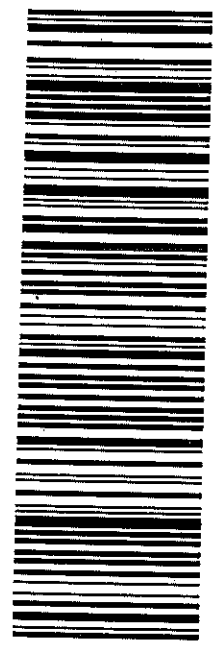
FedEx
Express



TRK# 4258 8385 5089
 0201
 ### SATURDAY ### A4
 PRIORITY OVERNIGHT

XO BTVA

05403
 VT-US BTV



Report Prepared for:

Elizabeth Ouk
ESS Laboratory
185 Frances Avenue
Cranston RI 02910

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

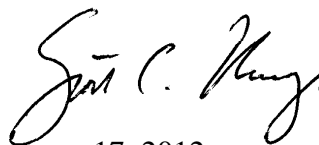
Pace Project #: 10179265
Sample Receipt Date: 12/23/2011
Client Project #: 1112381
Client Sub PO #: 1112381
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:



January 17, 2012

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:

January 17, 2012



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on four samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 40-104%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In one case, an interfering substance impacted the determination of a PCDF congener. The affected value was flagged "P" due to the presence of a polychlorinated diphenyl ether.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits. These results indicate that the sample processing steps did not significantly impact the results reported for the field samples.

Laboratory spike samples were also prepared using clean sand that had been fortified with native standard materials. Recoveries of the native compounds ranged from 86-129%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE)	MN002
California	01155CA	New Mexico	MN00064
Colorado	MN00064	New York (NEL)	11647
Connecticut	PH-0256	North Carolina	27700
EPA Region 5	WD-15J	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP)	E87605	Ohio VAP	CL101 9507
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	LA0900015	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q
Mississippi	MN00064		

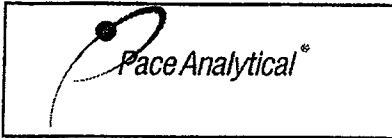
REPORT OF LABORATORY ANALYSIS

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Report No.....10179265

Appendix A

Sample Management



Document Name:
Sample Condition Upon Receipt Form
 Document Number:
F-L-213 Rev.01

Revised Date: 02Jun2011
 Page 1 of 1
 Issuing Authority:
 Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: ESS Lab Project # 10179265

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 120374970146247421

Optional:
 Proj. Due Date:
 Proj. Name:

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____ Temp Blank: Yes _____ No

Thermometer Used 80344042 or 80512447 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12-23-11 ABC

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>SL</u>	
All containers needing acid/base preservation have been checked. Noncompliance are noted in 13.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Samp #
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: W Date: 12/23/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112381-01		
Lab Sample ID	10179265001		
Filename	F120113B_08		
Injected By	BAL		
Total Amount Extracted	12.7 g	Matrix	Solid
% Moisture	18.2	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	12/20/2011 10:50
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 20:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	50
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	56
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	59
				1,2,3,4,7,8-HxCDD-13C	2.00	55
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	49
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	51
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
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NC = Not Calculated

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112381-03		
Lab Sample ID	10179265002		
Filename	F120113B_09		
Injected By	BAL		
Total Amount Extracted	12.0 g	Matrix	Solid
% Moisture	14.0	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/20/2011 12:05
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 20:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	104
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	78
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112381-05		
Lab Sample ID	10179265003		
Filename	F120113B_10		
Injected By	BAL		
Total Amount Extracted	12.8 g	Matrix	Solid
% Moisture	17.2	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	12/20/2011 14:40
ICAL ID	F110926	Received	12/23/2011 09:53
CCal Filename(s)	F120113A_14 & F120113B_18	Extracted	01/11/2012 17:50
Method Blank ID	BLANK-31300	Analyzed	01/13/2012 21:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	75
				1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	101
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
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NC = Not Calculated

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Method 8290 Sample Analysis Results

Client - ESS Laboratory

Client's Sample ID	1112381-07			
Lab Sample ID	10179265004			
Filename	F120114B_10			
Injected By	BAL			
Total Amount Extracted	76.4 g	Matrix	Solid	
% Moisture	86.7	Dilution	NA	
Dry Weight Extracted	10.2 g	Collected	12/20/2011 15:05	
ICAL ID	F110926	Received	12/23/2011 09:53	
CCal Filename(s)	F120114B_01 & F120114B_18	Extracted	01/11/2012 19:50	
Method Blank ID	BLANK-31298	Analyzed	01/15/2012 00:06	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	43.0	---	1.0	2,3,7,8-TCDF-13C	2.00	79
Total TCDF	420.0	---	1.0	2,3,7,8-TCDD-13C	2.00	74
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	2.4	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	31.0	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	---	41	5.0 P	1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	38.0	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	1300.0	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	64
				1,2,3,4,7,8-HxCDD-13C	2.00	73
1,2,3,7,8-PeCDD	7.4	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	66.0	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	18.0	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	51
1,2,3,6,7,8-HxCDF	37.0	---	5.0	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	25.0	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	810.0	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	6.5	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	107
1,2,3,6,7,8-HxCDD	18.0	---	5.0			
1,2,3,7,8,9-HxCDD	16.0	---	5.0			
Total HxCDD	220.0	---	5.0			
1,2,3,4,6,7,8-HpCDF	110.0	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	9.0	---	5.0	Equivalence: 48 ng/Kg		
Total HpCDF	240.0	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	320.0	---	5.0			
Total HpCDD	730.0	---	5.0			
OCDF	140.0	---	10.0			
OCDD	2500.0	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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P = PCDE Interference

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31300	Matrix	Solid
Filename	F120113B_06	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 18:41
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	61
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-31298	Matrix	Solid
Filename	F120114B_07	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/14/2012 21:58
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	---	1.0	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	---	1.0	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	---	1.0	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	---	1.0	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	ND	---	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	---	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	---	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	ND	---	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	---	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	ND	---	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	---	5.0	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	---	5.0			
1,2,3,7,8,9-HxCDF	ND	---	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	---	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	---	5.0	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	---	5.0			
1,2,3,7,8,9-HxCDD	ND	---	5.0			
Total HxCDD	ND	---	5.0			
1,2,3,4,6,7,8-HpCDF	ND	---	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	---	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	---	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	---	5.0			
Total HpCDD	ND	---	5.0			
OCDF	ND	---	10.0			
OCDD	ND	---	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31301	Matrix	Solid
Filename	F120113B_01	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	01/11/2012 17:50
ICAL ID	F110926	Analyzed	01/13/2012 15:06
CCal Filename(s)	F120113A_14 & F120113B_18	Injected By	BAL
Method Blank ID	BLANK-31300		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	113	2,3,7,8-TCDF-13C	2.0	78
Total TCDF				2,3,7,8-TCDD-13C	2.0	76
				1,2,3,7,8-PeCDF-13C	2.0	84
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	87
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	88
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.2	115	1,2,3,6,7,8-HxCDF-13C	2.0	81
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	87
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	113
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	62
				1,2,3,4,7,8,9-HpCDF-13C	2.0	70
1,2,3,4,7,8-HxCDF	1.0	1.1	114	1,2,3,4,6,7,8-HpCDD-13C	2.0	66
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	68
2,3,4,6,7,8-HxCDF	1.0	1.1	114			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.2	119	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.1	106			
1,2,3,7,8,9-HxCDD	1.0	0.86	86			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.2	117			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	105			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.97	97			
Total HpCDD						
OCDF	2.0	2.6	129			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-31299	Matrix	Solid
Filename	F120114B_16	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	01/11/2012 19:50
ICAL ID	F110926	Analyzed	01/15/2012 04:25
CCal Filename(s)	F120114B_01 & F120114B_18	Injected By	BAL
Method Blank ID	BLANK-31298		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	73
Total TCDF				2,3,7,8-TCDD-13C	2.0	81
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.0	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	91
				1,2,3,4,7,8-HxCDF-13C	2.0	70
1,2,3,7,8-PeCDF	1.0	1.1	112	1,2,3,6,7,8-HxCDF-13C	2.0	78
2,3,4,7,8-PeCDF	1.0	1.1	109	2,3,4,6,7,8-HxCDF-13C	2.0	76
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	74
				1,2,3,4,7,8-HxCDD-13C	2.0	78
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	75
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	67
				1,2,3,4,7,8,9-HpCDF-13C	2.0	61
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	70
1,2,3,6,7,8-HxCDF	1.0	1.1	112	OCDD-13C	4.0	60
2,3,4,6,7,8-HxCDF	1.0	1.1	113			
1,2,3,7,8,9-HxCDF	1.0	1.1	112	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	109	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	1.0	1.1	114			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	109			
1,2,3,4,7,8,9-HpCDF	1.0	1.1	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.98	98			
Total HpCDD						
OCDF	2.0	2.2	108			
OCDD	2.0	2.2	112			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 11120381
Date Project Due: 12/28/11
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?

* No

Air No.:

2. Were Custody Seals Present?

No

3. Were Custody Seals Intact?

N/A

4. Is Radiation count < 100 CPM?

Yes

5. Is a cooler present?

Yes

Cooler Temp: 5.1

Iced With: Icepacks

6. Was COC included with samples?

Yes

7. Was COC signed and dated by client?

Yes

8. Does the COC match the sample

Yes

9. Is COC complete and correct?

Yes

10. Are the samples properly preserved?

Yes

11. Proper sample containers used?

Yes

12. Any air bubbles in the VOA vials?

N/A

13. Holding times exceeded?

No

14. Sufficient sample volumes?

Yes

15. Any Subcontracting needed?

* Yes

16. Are ESS labels on correct containers?

Yes No

17. Were samples received intact?

Yes No

ESS Sample IDs: 01 → 08

Sub Lab: CTS, Pacey, TA

Analysis: Grain Size, D_{min}, TA

TAT: Std

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____

By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	4 oz Soil Jar	2	NP
1	Yes	8 oz Soil Jar	1	NP
1	Yes	Plastic Bag	1	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	Plastic Bag	1	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
3	Yes	8 oz Soil Jar	1	NP
3	Yes	Plastic Bag	1	NP
4	Yes	2 oz Soil Jar	1	NP
4	Yes	Plastic Bag	1	NP
5	Yes	2 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
5	Yes	8 oz Soil Jar	1	NP
5	Yes	Plastic Bag	1	NP
6	Yes	2 oz Soil Jar	1	NP
6	Yes	Plastic Bag	1	NP
7	Yes	2 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
7	Yes	8 oz Soil Jar	1	NP
7	Yes	Plastic Bag	1	NP
8	Yes	2 oz Soil Jar	1	NP
8	Yes	Plastic Bag	1	NP

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental

ESS Project ID: 11120381

Completed By: BC

Date/Time: 2/21/11

Reviewed By: CEL

Date/Time: 2/21/11

CHAIN OF CUSTODY

Page of

ESS Laboratory
 Division of *Thielsch Engineering, Inc.*
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

Turn Time Standard Other
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other
 Is this project for any of the following: USACE Other
 MA-MCP Navy

Reporting Limits Class BSM
 Electronic Deliverable Yes No
 Format: Excel Access PDF Other

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char or less)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis
01	12/20/11	1050		X		11238/-01	1	1	9	VOA 8260 624 524.2 VPH 8015 GRO 8021 MTBE/BTEX
02		1100				-02	1	1		8100 8015 DRO TPH
03		1205				-03	1	1		EPA EPH w/o PAHs & Dioxin 8081 8082 608 PCB Pesticides PCB
04		1400				-04	1	1		8270 625 PAH SVOA
05		1440				-05	1	1		RCA5 RCA8 PP13 TAL23 NBC7
06		1450				-06	1	1		MCP METALS (13) MCP METALS (13)
07		1505				-07	1	1		TCLP-RCA8
08	12/20/11	1525		X		11238/-08	1	1	9	Grain Size X 70 sieves 12/20/11

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No Internal Use Only
 Seals Intact Yes No NA: [] Pickup [] Technicians
 Cooler Temp:
 Comments: X Sieve Only ASTM D422
 Preservation Code 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-
 Sampled by:
 Relinquished by: (Signature) Date/Time Relinquished by: (Signature) Date/Time
 Received by: (Signature) Date/Time Received by: (Signature) Date/Time

ESS Laboratory

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 www.esslaboratory.com

Test America

CHAIN OF CUSTODY

Page 1 of 1

Turn Time: _____
 If faster than 5 days, prior approval by laboratory required # _____
 State where samples were collected from: _____
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits: _____
 Class B SW
 Electronic Deliverable: Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
01	12/20/11	1050	X	S		11238-01	1	1	6 X	
02		1100				- 02	1	1		
03		1205				- 03	1	1		
04		1400				- 04	1	1		
05		1440				- 05	1	1		
06		1450				- 06	1	1		
07		1505				- 07	1	1		
08	12/20/11	1525	X	S		11238-08	1	1	6 X	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present: Yes ___ No ___ Internal Use Only: Yes ___ No ___
 Seals Intact: Yes ___ No ___ No NA: ___
 Cooler Temp: _____
 Relinquished by: (Signature) _____ Date/Time: 12/22/11 1555
 Received by: (Signature) _____ Date/Time: 12/23/11 1400
 Relinquished by: (Signature) _____ Date/Time: _____
 Received by: (Signature) _____ Date/Time: 12/21/11 2030
 Comments: Samples to Westfield

ESS Laboratory

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CHAIN OF CUSTODY

Page 1 of 1

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from: MA RI NH NJ NY ME Other _____
 MA CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits _____
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other ___

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
D1	12/20/11	1050	X S	X S		1112381-01	1	16	X	
D2	12/05	1205	X S	X S		-03	1	16	X	
D3	1410	1410	X S	X S		-03	1	16	X	
0A	12/20/11	1505	X S	X S		1112381-07	1	16	X	

Dioxin + Furans by 0290

Project # _____ Project Name (20 Char. or less) _____
 Address _____ PO# 11238
 City _____ State _____ Zip _____
 Telephone # _____ Fax # _____ Email Address _____

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only
 Seals Intact Yes ___ No NA: ___ [] Pickup
 Cooler Temp: _____
 Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____
 Sampled by: _____
 Comments: Y Please return cooler

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[Signature]	12/20/11	[Signature]	
[Signature]	12/21/11	[Signature]	

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Please fax all changes to Chain of Custody in writing.
 1 (White) Lab Copy 2 (Yellow) Client Receipt
 10/26/04 A

ESS Laboratory

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CHAIN OF CUSTODY

Page 1 of 1

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits **CLASS B SW**
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other **EQUI'S EPD**

ESS LAB PROJECT ID **112381**

Co. Name	Project #	Project Name (20 Char. or less)	Type of Containers	Number of Containers	Type of Containers	Write Required Analysis												
Amec E+I	3650110222	Terron, Gorbam																
Contact Person	Address																	
DAVE CHAPMAN	107 Audubon Rd. Suite. 301																	
City	State	Zip																
Wakefield	MA	01880																
Telephone #	Fax #	Email Address																
781-245-6606	781-246-5060	DHeisleine@macet.com																
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	P Code	Number of Containers	Type of Containers	Analysis / Screens	PP-13 Metals	PP-13 Metals	Diss. PP-13 Metals	Dissolved Organic Carbon	Hardness	% Solids	Grav. Size	TOP
01	12-20-11	10:50	X	S	S	SEP-34-01	4	5	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
02	12-20-11	11:00	X	S	S	SEP-34-18	4	2	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
03	12-20-11	12:05	X	S	S	SEP-60-01	4	5	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
04	12-20-11	14:00	X	S	S	SEP-60-18	4	2	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
05	12-20-11	14:40	X	S	S	SEP-59-01	4	5	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
06	12-20-11	14:50	X	S	S	SEP-59-18	4	2	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
07	12-20-11	15:05	X	S	S	SEP-46-01	4	5	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
08	12-20-11	15:25	X	S	S	SEP-46-18	4	2	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12-20-11	8:10	X	SW	SW	SW-34	2/4	4	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12-20-11	11:00	X	SW	SW	SW-60	2/4	4	P/G	✓	✓	✓	✓	✓	✓	✓	✓	✓

Container Type: P-Poly/G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes ___ No ___ Internal Use Only Yes ___ No ___ NA: ___ [] Pickup [] Technicians ___

Seals Intact ___ Yes ___ No ___

Cooler Temp: **5.1°C**

Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: **Mark Maggione** 339-927-3797

Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/21/11 10:50	<i>[Signature]</i>	12/21/11 09:50
<i>[Signature]</i>			



CERTIFICATE OF ANALYSIS

FILE COPY

Dave Chapman
 AMEC Environmental and Infrastructure
 107 Audubon Road, Suite 301
 Wakefield, MA 01880

Checked for Completeness
 of Parameters Ordered By:

RE: Textron Gorham (3650110222)
ESS Laboratory Work Order Number: 1112382



This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED

By ESS Laboratory at 4:00 pm, Jan 25, 2012

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC and A2LA, except where noted within this project narrative.

Subcontracted Analyses

TestAmerica Laboratories, Inc. - Westfield,
 MA

Dissolved Organic Carbon



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

SAMPLE RECEIPT

The following samples were received on December 21, 2011 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number	SampleName	Matrix	Analysis
1112382-01	SW-34	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112382-02	SW-60	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112382-03	SW-59	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112382-04	SW-46	Surface Water	§, 6010B, 7041, 7060A, 7470A, 7841
1112382-05	Rinse Blank -01	Surface Water	6010B, 7041, 7060A, 7470A, 7841



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-34
Date Sampled: 12/20/11 08:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:42	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:19	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 15:44	20	40	CL12219
Nickel	ND (0.025)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 2:00	50	25	CL12212
Thallium	ND (0.0015)	7841		1	JP	12/29/11 18:51	50	25	CL12212
Zinc	ND (0.025)	6010B		1	JP	12/24/11 2:00	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-34
Date Sampled: 12/20/11 08:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-01
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 8:57	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 4:51	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:45	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 1:39	50	25	CL12212
Thallium	ND (0.0010)	7841		1	JP	12/29/11 18:23	50	25	CL12212
Zinc	0.026 (0.025)	6010B		1	JP	12/24/11 1:39	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-34
Date Sampled: 12/20/11 08:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-01
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.8 (1.0)	§			§	01/17/12 13:05	mg/L	CA21716
Hardness	60.1 (0.662)	6010B		1	JP	12/24/11 1:39	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-60
Date Sampled: 12/20/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/06/12 1:08	50	25	CA20324
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:42	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Cadmium	ND (0.0025)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Chromium	ND (0.010)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Copper	ND (0.010)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Lead	ND (0.010)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 15:46	20	40	CL12219
Nickel	ND (0.025)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Selenium	ND (0.025)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Silver	ND (0.005)	6010B		1	SVD	01/04/12 20:42	50	25	CA20324
Thallium	ND (0.0015)	7841		1	JP	12/29/11 18:57	50	25	CL12212
Zinc	ND (0.025)	6010B		1	JP	12/24/11 2:12	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-60
Date Sampled: 12/20/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-02
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:02	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 4:57	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:47	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 1:43	50	25	CL12212
Thallium	ND (0.0010)	7841		1	JP	12/29/11 18:29	50	25	CL12212
Zinc	ND (0.025)	6010B		1	JP	12/24/11 1:43	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-60
Date Sampled: 12/20/11 11:00
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-02
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.7 (1.0)	§			§	01/17/12 13:05	mg/L	CA21716
Hardness	61.9 (0.662)	6010B		1	JP	12/24/11 1:43	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-59
Date Sampled: 12/20/11 13:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:53	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:48	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 15:49	20	40	CL12219
Nickel	ND (0.025)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 2:17	50	25	CL12212
Thallium	ND (0.0015)	7841		1	JP	12/29/11 19:21	50	25	CL12212
Zinc	0.032 (0.025)	6010B		1	JP	12/24/11 2:17	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-59
Date Sampled: 12/20/11 13:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-03
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:25	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:02	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:50	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 1:48	50	25	CL12212
Thallium	ND (0.0010)	7841		1	JP	12/29/11 18:34	50	25	CL12212
Zinc	0.029 (0.025)	6010B		1	JP	12/24/11 1:48	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-59
Date Sampled: 12/20/11 13:10
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-03
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.8 (1.0)	§			§	01/17/12 13:05	mg/L	CA21716
Hardness	59.3 (0.662)	6010B		1	JP	12/24/11 1:48	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-46
Date Sampled: 12/20/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:59	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:54	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/29/11 15:51	20	40	CL12219
Nickel	ND (0.025)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 2:21	50	25	CL12212
Thallium	ND (0.0015)	7841		1	JP	12/29/11 19:26	50	25	CL12212
Zinc	0.025 (0.025)	6010B		1	JP	12/24/11 2:21	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-46
Date Sampled: 12/20/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-04
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:31	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:08	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:52	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 1:52	50	25	CL12212
Thallium	ND (0.0010)	7841		1	JP	12/29/11 18:40	50	25	CL12212
Zinc	0.033 (0.025)	6010B		1	JP	12/24/11 1:52	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: SW-46
Date Sampled: 12/20/11 13:55
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-04
Sample Matrix: Surface Water

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Dissolved Organic Carbon	2.8 (1.0)	§			§	01/17/12 13:05	mg/L	CA21716
Hardness	61.5 (0.662)	6010B		1	JP	12/24/11 1:52	mg/L	[CALC]



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham
Client Sample ID: Rinse Blank -01
Date Sampled: 12/21/11 09:05
Percent Solids: N/A

ESS Laboratory Work Order: 1112382
ESS Laboratory Sample ID: 1112382-05
Sample Matrix: Surface Water
Units: mg/L

3005A/3020A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Antimony	ND (0.0025)	7041		1	SVD	01/04/12 9:36	50	25	CL12212
Arsenic	ND (0.0025)	7060A		1	JP	12/29/11 5:14	50	25	CL12212
Beryllium	ND (0.0005)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Cadmium	ND (0.0025)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Chromium	ND (0.010)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Copper	ND (0.010)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Lead	ND (0.010)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Mercury	ND (0.00050)	7470A		1	KJK	12/22/11 19:55	20	40	CL12218
Nickel	ND (0.025)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Selenium	ND (0.025)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Silver	ND (0.005)	6010B		1	JP	12/24/11 1:56	50	25	CL12212
Thallium	ND (0.0010)	7841		1	JP	12/29/11 18:46	50	25	CL12212
Zinc	ND (0.025)	6010B		1	JP	12/24/11 1:56	50	25	CL12212



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/3020A/6000/7000 Dissolved Metals										
Batch CA20324 - 3005A										
Blank										
Antimony	ND	0.0025	mg/L							
Lead	ND	0.010	mg/L							
LCS										
Lead	0.252	0.010	mg/L	0.2500		101	80-120			
LCS										
Antimony	0.0106	0.0025	mg/L	0.01000		106	80-120			
LCS Dup										
Lead	0.261	0.010	mg/L	0.2500		105	80-120	4	20	
LCS Dup										
Antimony	0.0108	0.0025	mg/L	0.01000		108	80-120	2	20	
Batch CL12212 - 3005A										
Blank										
Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0015	mg/L							
Zinc	ND	0.025	mg/L							
LCS										
Beryllium	0.0251	0.0005	mg/L	0.02500		101	80-120			
Cadmium	0.117	0.0025	mg/L	0.1250		93	80-120			
Chromium	0.245	0.010	mg/L	0.2500		98	80-120			
Copper	0.262	0.010	mg/L	0.2500		105	80-120			
Lead	0.249	0.010	mg/L	0.2500		100	80-120			
Nickel	0.245	0.025	mg/L	0.2500		98	80-120			
Selenium	0.489	0.025	mg/L	0.5000		98	80-120			
Silver	0.123	0.005	mg/L	0.1250		98	80-120			
Zinc	0.236	0.025	mg/L	0.2500		95	80-120			
LCS										
Antimony	0.0116	0.0025	mg/L	0.01000		116	80-120			
Arsenic	0.0118	0.0025	mg/L	0.01000		118	80-120			
Thallium	0.0088	0.0015	mg/L	0.01000		88	80-120			
LCS Dup										
Beryllium	0.0256	0.0005	mg/L	0.02500		102	80-120	2	20	
Cadmium	0.119	0.0025	mg/L	0.1250		95	80-120	2	20	
Chromium	0.249	0.010	mg/L	0.2500		100	80-120	2	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Dissolved Metals

Batch CL12212 - 3005A

Copper	0.266	0.010	mg/L	0.2500		106	80-120	1	20	
Lead	0.253	0.010	mg/L	0.2500		101	80-120	2	20	
Nickel	0.248	0.025	mg/L	0.2500		99	80-120	1	20	
Selenium	0.493	0.025	mg/L	0.5000		99	80-120	0.6	20	
Silver	0.125	0.005	mg/L	0.1250		100	80-120	2	20	
Zinc	0.240	0.025	mg/L	0.2500		96	80-120	1	20	

LCS Dup

Antimony	0.0117	0.0025	mg/L	0.01000		117	80-120	1	20	
Arsenic	0.0117	0.0025	mg/L	0.01000		117	80-120	0.3	20	
Thallium	0.0091	0.0015	mg/L	0.01000		91	80-120	3	20	

Batch CL12219 - 245.1/7470A

Blank

Mercury	ND	0.00050	mg/L							
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LCS

Mercury	0.00581	0.00050	mg/L	0.006000		97	80-120			
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LCS Dup

Mercury	0.00573	0.00050	mg/L	0.006000		95	80-120	1	20	
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Duplicate Source: 1112382-04

Mercury	ND	0.00050	mg/L		ND				20	
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Matrix Spike Source: 1112382-04

Mercury	0.00552	0.00050	mg/L	0.006000	ND	92	75-125			
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3005A/3020A/6000/7000 Total Metals

Batch CL12212 - 3005A

Blank

Antimony	ND	0.0025	mg/L							
Arsenic	ND	0.0025	mg/L							
Beryllium	ND	0.0005	mg/L							
Cadmium	ND	0.0025	mg/L							
Chromium	ND	0.010	mg/L							
Copper	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
Nickel	ND	0.025	mg/L							
Selenium	ND	0.025	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0010	mg/L							
Zinc	ND	0.025	mg/L							

LCS

Beryllium	0.0251	0.0005	mg/L	0.02500		101	80-120			
Cadmium	0.117	0.0025	mg/L	0.1250		93	80-120			
Chromium	0.245	0.010	mg/L	0.2500		98	80-120			
Copper	0.262	0.010	mg/L	0.2500		105	80-120			
Lead	0.249	0.010	mg/L	0.2500		100	80-120			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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3005A/3020A/6000/7000 Total Metals

Batch CL12212 - 3005A

Nickel	0.245	0.025	mg/L	0.2500		98	80-120			
Selenium	0.489	0.025	mg/L	0.5000		98	80-120			
Silver	0.123	0.005	mg/L	0.1250		98	80-120			
Zinc	0.236	0.025	mg/L	0.2500		95	80-120			

LCS

Antimony	0.0116	0.0025	mg/L	0.01000		116	80-120			
Arsenic	0.0118	0.0025	mg/L	0.01000		118	80-120			
Thallium	0.0088	0.0010	mg/L	0.01000		88	80-120			

LCS Dup

Beryllium	0.0256	0.0005	mg/L	0.02500		102	80-120	2	20	
Cadmium	0.119	0.0025	mg/L	0.1250		95	80-120	2	20	
Chromium	0.249	0.010	mg/L	0.2500		100	80-120	2	20	
Copper	0.266	0.010	mg/L	0.2500		106	80-120	1	20	
Lead	0.253	0.010	mg/L	0.2500		101	80-120	2	20	
Nickel	0.248	0.025	mg/L	0.2500		99	80-120	1	20	
Selenium	0.493	0.025	mg/L	0.5000		99	80-120	0.6	20	
Silver	0.125	0.005	mg/L	0.1250		100	80-120	2	20	
Zinc	0.240	0.025	mg/L	0.2500		96	80-120	1	20	

LCS Dup

Antimony	0.0117	0.0025	mg/L	0.01000		117	80-120	1	20	
Arsenic	0.0117	0.0025	mg/L	0.01000		117	80-120	0.3	20	
Thallium	0.0091	0.0010	mg/L	0.01000		91	80-120	3	20	

Batch CL12218 - 245.1/7470A

Blank

Mercury	ND	0.00050	mg/L							
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LCS

Mercury	0.00570	0.00050	mg/L	0.006000		95	80-120			
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LCS Dup

Mercury	0.00551	0.00050	mg/L	0.006000		92	80-120	3	20	
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Classical Chemistry

Batch CL12212 - 3005A

Blank

Calcium	ND	0.100	mg/L							
Magnesium	ND	0.100	mg/L							

LCS

Calcium	2.52	0.100	mg/L	2.500		101	80-120			
Magnesium	2.46	0.100	mg/L	2.500		98	80-120			

LCS Dup

Calcium	2.55	0.100	mg/L	2.500		102	80-120	1	20	
Magnesium	2.49	0.100	mg/L	2.500		100	80-120	1	20	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

Notes and Definitions

- U Analyte included in the analysis, but not detected
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Textron Gorham

ESS Laboratory Work Order: 1112382

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/out_state.pdf

Maine Potable and Non Potable Water: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

ANALYTICAL REPORT

Job Number: 200-8700-3

Job Description: TOC

For:

ESS Laboratory

185 Frances Ave.

Cranston, RI 02910

Attention: Ms. Elizabeth Ouk



Approved for release.
Kathryn A Kelly
Project Manager I
1/17/2012 12:31 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
01/17/2012
Revision: 1

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

CASE NARRATIVE

Client: ESS Laboratory

Project: TOC

Report Number: 200-8700-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/27/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.8 C.

DISSOLVED ORGANIC CARBON

Samples 1112382-01, 1112382-02, 1112382-03, and 1112382-04 were analyzed for dissolved organic carbon in accordance with SM20 5310B. The samples were analyzed on 01/04/2012.

Dissolved Organic Carbon was detected in method blank MB 200-31738/11 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

Dissolved Organic Carbon was detected in method blank MB 200-31738/2 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the DOC analyses.

All other quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ESS Laboratory

Job Number: 200-8700-3

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8700-7 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112382-01	2.8	B	1.0	mg/L	SM 5310B
200-8700-8 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112382-02	2.7	B	1.0	mg/L	SM 5310B
200-8700-9 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112382-03	2.8	B	1.0	mg/L	SM 5310B
200-8700-10 <i>Dissolved</i> Dissolved Organic Carbon-Dissolved	1112382-04	2.8	B	1.0	mg/L	SM 5310B

METHOD SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-3

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Organic Carbon, Dissolved (DOC) Sample Filtration, Field	TAL BUR	SM SM 5310B	FIELD_FLTRD

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

SM = "Standard Methods For The Examination Of Water And Wastewater",

METHOD / ANALYST SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-3

Method	Analyst	Analyst ID
SM SM 5310B	Sutton, Zachariah M	ZMS

SAMPLE SUMMARY

Client: ESS Laboratory

Job Number: 200-8700-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-8700-7	1112382-01	Water	12/20/2011 0810	12/27/2011 1153
200-8700-8	1112382-02	Water	12/20/2011 1100	12/27/2011 1153
200-8700-9	1112382-03	Water	12/20/2011 1310	12/27/2011 1153
200-8700-10	1112382-04	Water	12/20/2011 1355	12/27/2011 1153

SAMPLE RESULTS

Client: ESS Laboratory

Job Number: 200-8700-3

General Chemistry

Client Sample ID: 1112382-01

Lab Sample ID: 200-8700-7

Client Matrix: Water

Date Sampled: 12/20/2011 0810

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.8	B	mg/L	0.052	1.0	1.0	SM 5310B
Analysis Batch: 200-31738		Analysis Date: 01/04/2012 1224					

Client: ESS Laboratory

Job Number: 200-8700-3

General Chemistry

Client Sample ID: 1112382-02

Lab Sample ID: 200-8700-8

Client Matrix: Water

Date Sampled: 12/20/2011 1100

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.7	B	mg/L	0.052	1.0	1.0	SM 5310B
Analysis Batch: 200-31738		Analysis Date: 01/04/2012 1240					

Client: ESS Laboratory

Job Number: 200-8700-3

General Chemistry

Client Sample ID: 1112382-03

Lab Sample ID: 200-8700-9

Client Matrix: Water

Date Sampled: 12/20/2011 1310

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.8	B	mg/L	0.052	1.0	1.0	SM 5310B
Analysis Batch: 200-31738		Analysis Date: 01/04/2012 1255					

Client: ESS Laboratory

Job Number: 200-8700-3

General Chemistry

Client Sample ID: 1112382-04

Lab Sample ID: 200-8700-10

Client Matrix: Water

Date Sampled: 12/20/2011 1355

Date Received: 12/27/2011 1153

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Dissolved Organic Carbon-Dissolved	2.8	B	mg/L	0.052	1.0	1.0	SM 5310B
	Analysis Batch: 200-31738	Analysis Date: 01/04/2012 1310					

DATA REPORTING QUALIFIERS

Client: ESS Laboratory

Job Number: 200-8700-3

Lab Section	Qualifier	Description
General Chemistry	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-3

QC Association Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Report Basis</u>	<u>Client Matrix</u>	<u>Method</u>	<u>Prep Batch</u>
General Chemistry					
Analysis Batch:200-31738					
LCS 200-31738/1	Lab Control Sample	D	Water	SM 5310B	
LCS 200-31738/10	Lab Control Sample	D	Water	SM 5310B	
MB 200-31738/11	Method Blank	D	Water	SM 5310B	
MB 200-31738/2	Method Blank	D	Water	SM 5310B	
200-8700-7	1112382-01	D	Water	SM 5310B	
200-8700-8	1112382-02	D	Water	SM 5310B	
200-8700-9	1112382-03	D	Water	SM 5310B	
200-8700-10	1112382-04	D	Water	SM 5310B	

Report Basis

D = Dissolved

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-3

Method Blank - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: MB 200-31738/2
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1138
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Dissolved Organic Carbon-Dissolved	0.111	J	0.052	1.0

Method Blank - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: MB 200-31738/11
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1357
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	MDL	RL
Dissolved Organic Carbon-Dissolved	0.0826	J	0.052	1.0

Quality Control Results

Client: ESS Laboratory

Job Number: 200-8700-3

Lab Control Sample - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: LCS 200-31738/1
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1122
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Organic Carbon-Dissolved	10.0	9.76	98	85 - 115	

Lab Control Sample - Batch: 200-31738

Method: SM 5310B

Preparation: N/A

Lab Sample ID: LCS 200-31738/10
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 01/04/2012 1341
 Prep Date: N/A
 Leach Date: N/A

Analysis Batch: 200-31738
 Prep Batch: N/A
 Leach Batch: N/A
 Units: mg/L

Instrument ID: WCCH4
 Lab File ID: 010412A.txt
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dissolved Organic Carbon-Dissolved	10.0	9.63	96	85 - 115	

Login Sample Receipt Checklist

Client: ESS Laboratory

Job Number: 200-8700-3

Login Number: 8700
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.8°C, IR GUN ID 154, CF 0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON, VT 05403

(802) 660-1990

FedEx
Express



(US)

Ttk# 4258 8385 5089

PRIORITY OVERNIGHT



30 COMMUNITY DRIVE

PLACE THIS LABEL ON PACKAGE
 NEXT TO THE SHIPPING LABEL



ORIGIN ID: BXCA (781) 466-6900
 PAUL HOBART
 TESTAMERICA
 240 BEAR HILL ROAD
 SUITE 104
 WALTHAM, MA 02451
 UNITED STATES US

SHIP DATE: 23DEC11
 ACT WT: 33.0 LB
 CAD: 590887/CAFE2509

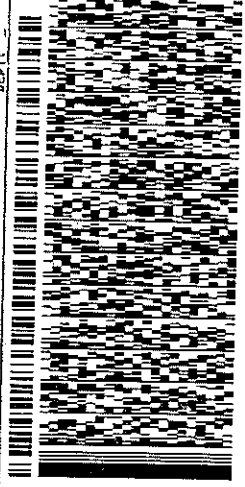
BILL RECIPIENT

TO **SAMPLE RECEIVING**
 TESTAMERICA BURLINGTON
 30 COMMUNITY DRIVE
 SUITE 11
 SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

DEPT:



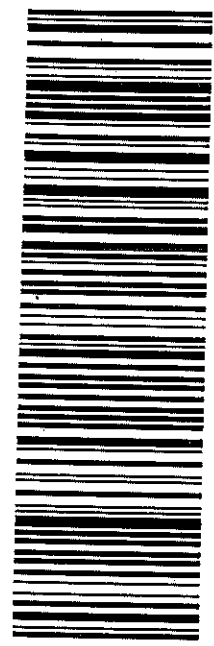
FedEx
Express



TRK# 4258 8385 5089
 O201
 ### SATURDAY ### A4
 PRIORITY OVERNIGHT

XO BTVA

05403
 VT-US BTV



ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy _____

Reporting Limits **Class B SW**
 Electronic Deliverable Yes ___ No ___
 Format: Excel ___ Access ___ PDF ___ Other **Equis EDD**

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis										
B3	12-20-11	13:10		X	SW	SW-59	214	4	P/6	Diastyls/Ferrous	AVS: SEM	PP-13 metals	TOP	Grain Size	% Solids	Handness	Dissolved Organic	Total PP-13	Dissolved Metals	
B4	12-20-11	13:55		X	SW	SW-46	214	4	P/6											
B5	12-21-11	0905		X	SW	Rinse Blank - 01	214	3	P/6	X	X	X								

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes ___ No ___ Internal Use Only Yes ___ No ___ [] Pickup [] Technicians ___
 Seals Intact ___ Yes ___ No NA: ___
 Cooler Temp: **SIC**
 Sampled by: **Mark Magiore** 339-927-3797
 Comments: _____

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>[Signature]</i>	12/14/09	<i>[Signature]</i>	12/11/09
<i>[Signature]</i>		<i>[Signature]</i>	



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

SAMPLE RECEIPT

The following samples were received on June 21, 2013 for the analyses specified on the enclosed Chain of Custody Record.

Revision 1 August 6, 2013: This report has been revised to remove 1,1-Biphenyl.

<u>Lab Number</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Analysis</u>
1306385-01	SS-500-01	Soil	6010B, 8270C SIM
1306385-02	SS-500-02	Soil	6010B, 8270C SIM
1306385-03	SS-501-01	Soil	6010B, 8270C SIM
1306385-04	SS-501-02	Soil	6010B, 8270C SIM
1306385-05	SS-502-01	Soil	6010B, 8270C SIM
1306385-06	SS-502-02	Soil	6010B, 8270C SIM
1306385-07	SS-505-01	Soil	6010B, 8270C SIM
1306385-08	SS-505-02	Soil	6010B, 8270C SIM
1306385-09	SS-506-01	Soil	6010B, 8270C SIM
1306385-10	SS-506-02	Soil	6010B, 8270C SIM
1306385-11	SS-507-01	Soil	6010B, 8270C SIM
1306385-12	SS-507-02	Soil	6010B, 8270C SIM
1306385-13	DUP	Soil	6010B, 8270C SIM



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

PROJECT NARRATIVE

REVISED
2:27 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

CF32503-MS1 Matrix Spike recovery is above upper control limit (M+).
Anthracene (146% @ 40-140%), Benzo(a)anthracene (217% @ 40-140%), Benzo(a)pyrene (218% @ 40-140%), Benzo(b)fluoranthene (228% @ 40-140%), Benzo(k)fluoranthene (215% @ 40-140%), Chrysene (309% @ 40-140%), Fluoranthene (671% @ 40-140%), Indeno(1,2,3-cd)Pyrene (142% @ 40-140%), Phenanthrene (540% @ 40-140%), Pyrene (498% @ 40-140%)

CF32503-MSD1 Matrix Spike recovery is below lower control limit (M-).
2-Methylnaphthalene (27% @ 40-140%), Acenaphthene (38% @ 40-140%), Acenaphthylene (-49% @ 40-140%), Anthracene (-31% @ 40-140%), Benzo(a)anthracene (-146% @ 40-140%), Benzo(a)pyrene (-128% @ 40-140%), Benzo(b)fluoranthene (-288% @ 40-140%), Benzo(g,h,i)perylene (-71% @ 40-140%), Benzo(k)fluoranthene (32% @ 40-140%), Chrysene (-128% @ 40-140%), Dibenzo(a,h)Anthracene (12% @ 40-140%), Fluoranthene (-212% @ 40-140%), Indeno(1,2,3-cd)Pyrene (-98% @ 40-140%), Naphthalene (21% @ 40-140%), Phenanthrene (-36% @ 40-140%), Pyrene (-199% @ 40-140%)

CF32503-MSD1 Relative percent difference for duplicate is outside of criteria (D+).
2-Methylnaphthalene (48%), Acenaphthene (64%), Acenaphthylene (53%), Anthracene (58%), Benzo(a)anthracene (65%), Benzo(a)pyrene (62%), Benzo(b)fluoranthene (65%), Benzo(g,h,i)perylene (62%), Benzo(k)fluoranthene (54%), Chrysene (70%), Dibenzo(a,h)Anthracene (53%), Fluoranthene (90%), Fluorene (53%), Indeno(1,2,3-cd)Pyrene (61%), Naphthalene (65%), Phenanthrene (120%), Pyrene (85%)

CF32503-MSD1 Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
1,2-Dichlorobenzene-d4 (24% @ 30-130%), Nitrobenzene-d5 (28% @ 30-130%)

Total Metals Solid

CF32510-MS1 Matrix Spike recovery is below lower control limit (M-).
Lead (56% @ 75-125%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-500-01
Date Sampled: 06/21/13 09:20
Percent Solids: 90

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	10.0 (2.6)		6010B	7	1	SVD	06/26/13 5:11	2.15	100	CF32510
Lead	116 (5.2)		6010B	150	1	SVD	06/26/13 5:11	2.15	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-500-01
Date Sampled: 06/21/13 09:20
Percent Solids: 90
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:27 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.093)		8270C SIM	123	5	06/27/13 6:35	CWF0290	CF32503
Acenaphthene	ND (0.093)		8270C SIM	43	5	06/27/13 6:35	CWF0290	CF32503
Acenaphthylene	0.682 (0.093)		8270C SIM	23	5	06/27/13 6:35	CWF0290	CF32503
Anthracene	0.724 (0.093)		8270C SIM	35	5	06/27/13 6:35	CWF0290	CF32503
Benzo(a)anthracene	1.55 (0.093)		8270C SIM	0.9	5	06/27/13 6:35	CWF0290	CF32503
Benzo(a)pyrene	1.51 (0.093)		8270C SIM	0.4	5	06/27/13 6:35	CWF0290	CF32503
Benzo(b)fluoranthene	2.42 (0.093)		8270C SIM	0.9	5	06/27/13 6:35	CWF0290	CF32503
Benzo(g,h,i)perylene	0.807 (0.093)		8270C SIM	0.8	5	06/27/13 6:35	CWF0290	CF32503
Benzo(k)fluoranthene	0.644 (0.093)		8270C SIM	0.9	5	06/27/13 6:35	CWF0290	CF32503
Chrysene	1.58 (0.093)		8270C SIM	0.4	5	06/27/13 6:35	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.291 (0.093)		8270C SIM	0.4	5	06/27/13 6:35	CWF0290	CF32503
Fluoranthene	2.22 (0.093)		8270C SIM	20	5	06/27/13 6:35	CWF0290	CF32503
Fluorene	ND (0.093)		8270C SIM	28	5	06/27/13 6:35	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	1.10 (0.093)		8270C SIM	0.9	5	06/27/13 6:35	CWF0290	CF32503
Naphthalene	ND (0.093)		8270C SIM	54	5	06/27/13 6:35	CWF0290	CF32503
Phenanthrene	0.680 (0.093)		8270C SIM	40	5	06/27/13 6:35	CWF0290	CF32503
Pyrene	1.96 (0.093)		8270C SIM	13	5	06/27/13 6:35	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	34 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	43 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	36 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	76 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-500-02
Date Sampled: 06/21/13 10:00
Percent Solids: 89

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	12.9 (2.7)		6010B	7	1	SVD	06/26/13 5:31	2.07	100	CF32510
Lead	242 (5.4)		6010B	150	1	SVD	06/26/13 5:31	2.07	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-500-02
Date Sampled: 06/21/13 10:00
Percent Solids: 89
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:27 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.184)		8270C SIM	123	10	06/27/13 10:42	CWF0290	CF32503
Acenaphthene	ND (0.184)		8270C SIM	43	10	06/27/13 10:42	CWF0290	CF32503
Acenaphthylene	1.55 (0.184)		8270C SIM	23	10	06/27/13 10:42	CWF0290	CF32503
Anthracene	1.52 (0.184)		8270C SIM	35	10	06/27/13 10:42	CWF0290	CF32503
Benzo(a)anthracene	3.02 (0.184)		8270C SIM	0.9	10	06/27/13 10:42	CWF0290	CF32503
Benzo(a)pyrene	2.88 (0.184)		8270C SIM	0.4	10	06/27/13 10:42	CWF0290	CF32503
Benzo(b)fluoranthene	4.76 (0.184)		8270C SIM	0.9	10	06/27/13 10:42	CWF0290	CF32503
Benzo(g,h,i)perylene	1.33 (0.184)		8270C SIM	0.8	10	06/27/13 10:42	CWF0290	CF32503
Benzo(k)fluoranthene	1.87 (0.184)		8270C SIM	0.9	10	06/27/13 10:42	CWF0290	CF32503
Chrysene	3.62 (0.184)		8270C SIM	0.4	10	06/27/13 10:42	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.491 (0.184)		8270C SIM	0.4	10	06/27/13 10:42	CWF0290	CF32503
Fluoranthene	6.05 (0.184)		8270C SIM	20	10	06/27/13 10:42	CWF0290	CF32503
Fluorene	ND (0.184)		8270C SIM	28	10	06/27/13 10:42	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	1.84 (0.184)		8270C SIM	0.9	10	06/27/13 10:42	CWF0290	CF32503
Naphthalene	ND (0.184)		8270C SIM	54	10	06/27/13 10:42	CWF0290	CF32503
Phenanthrene	2.32 (0.184)		8270C SIM	40	10	06/27/13 10:42	CWF0290	CF32503
Pyrene	4.71 (0.184)		8270C SIM	13	10	06/27/13 10:42	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	43 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	54 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	47 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	73 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-501-01
Date Sampled: 06/21/13 10:30
Percent Solids: 89

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	5.1 (2.5)		6010B	7	1	SVD	06/26/13 5:35	2.2	100	CF32510
Lead	170 (5.1)		6010B	150	1	SVD	06/26/13 5:35	2.2	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-501-01
Date Sampled: 06/21/13 10:30
Percent Solids: 89
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:27 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	0.131 (0.095)		8270C SIM	123	5	06/27/13 7:24	CWF0290	CF32503
Acenaphthene	ND (0.095)		8270C SIM	43	5	06/27/13 7:24	CWF0290	CF32503
Acenaphthylene	0.224 (0.095)		8270C SIM	23	5	06/27/13 7:24	CWF0290	CF32503
Anthracene	0.278 (0.095)		8270C SIM	35	5	06/27/13 7:24	CWF0290	CF32503
Benzo(a)anthracene	0.643 (0.095)		8270C SIM	0.9	5	06/27/13 7:24	CWF0290	CF32503
Benzo(a)pyrene	0.632 (0.095)		8270C SIM	0.4	5	06/27/13 7:24	CWF0290	CF32503
Benzo(b)fluoranthene	1.01 (0.095)		8270C SIM	0.9	5	06/27/13 7:24	CWF0290	CF32503
Benzo(g,h,i)perylene	0.321 (0.095)		8270C SIM	0.8	5	06/27/13 7:24	CWF0290	CF32503
Benzo(k)fluoranthene	0.336 (0.095)		8270C SIM	0.9	5	06/27/13 7:24	CWF0290	CF32503
Chrysene	0.765 (0.095)		8270C SIM	0.4	5	06/27/13 7:24	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.116 (0.095)		8270C SIM	0.4	5	06/27/13 7:24	CWF0290	CF32503
Fluoranthene	1.15 (0.095)		8270C SIM	20	5	06/27/13 7:24	CWF0290	CF32503
Fluorene	ND (0.095)		8270C SIM	28	5	06/27/13 7:24	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	0.403 (0.095)		8270C SIM	0.9	5	06/27/13 7:24	CWF0290	CF32503
Naphthalene	0.095 (0.095)		8270C SIM	54	5	06/27/13 7:24	CWF0290	CF32503
Phenanthrene	0.502 (0.095)		8270C SIM	40	5	06/27/13 7:24	CWF0290	CF32503
Pyrene	0.975 (0.095)		8270C SIM	13	5	06/27/13 7:24	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	44 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	49 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	49 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	70 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-501-02
Date Sampled: 06/21/13 10:55
Percent Solids: 91

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.7 (2.5)		6010B	7	1	SVD	06/26/13 5:47	2.2	100	CF32510
Lead	270 (5.0)		6010B	150	1	SVD	06/26/13 5:47	2.2	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-501-02
Date Sampled: 06/21/13 10:55
Percent Solids: 91
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:27 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.093)		8270C SIM	123	5	06/28/13 12:25	CWF0330	CF32503
Acenaphthene	ND (0.093)		8270C SIM	43	5	06/28/13 12:25	CWF0330	CF32503
Acenaphthylene	0.436 (0.093)		8270C SIM	23	5	06/28/13 12:25	CWF0330	CF32503
Anthracene	0.579 (0.093)		8270C SIM	35	5	06/28/13 12:25	CWF0330	CF32503
Benzo(a)anthracene	1.33 (0.093)		8270C SIM	0.9	5	06/28/13 12:25	CWF0330	CF32503
Benzo(a)pyrene	1.27 (0.093)		8270C SIM	0.4	5	06/28/13 12:25	CWF0330	CF32503
Benzo(b)fluoranthene	1.74 (0.093)		8270C SIM	0.9	5	06/28/13 12:25	CWF0330	CF32503
Benzo(g,h,i)perylene	0.527 (0.093)		8270C SIM	0.8	5	06/28/13 12:25	CWF0330	CF32503
Benzo(k)fluoranthene	0.597 (0.093)		8270C SIM	0.9	5	06/28/13 12:25	CWF0330	CF32503
Chrysene	1.34 (0.093)		8270C SIM	0.4	5	06/28/13 12:25	CWF0330	CF32503
Dibenzo(a,h)Anthracene	0.174 (0.093)		8270C SIM	0.4	5	06/28/13 12:25	CWF0330	CF32503
Fluoranthene	2.59 (0.093)		8270C SIM	20	5	06/28/13 12:25	CWF0330	CF32503
Fluorene	0.115 (0.093)		8270C SIM	28	5	06/28/13 12:25	CWF0330	CF32503
Indeno(1,2,3-cd)Pyrene	0.683 (0.093)		8270C SIM	0.9	5	06/28/13 12:25	CWF0330	CF32503
Naphthalene	ND (0.093)		8270C SIM	54	5	06/28/13 12:25	CWF0330	CF32503
Phenanthrene	1.86 (0.093)		8270C SIM	40	5	06/28/13 12:25	CWF0330	CF32503
Pyrene	2.31 (0.093)		8270C SIM	13	5	06/28/13 12:25	CWF0330	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	56 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	69 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	66 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	83 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-502-01
Date Sampled: 06/21/13 11:20
Percent Solids: 90

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	4.0 (2.5)		6010B	7	1	SVD	06/26/13 5:51	2.2	100	CF32510
Lead	34.3 (5.0)		6010B	150	1	SVD	06/26/13 5:51	2.2	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-502-01
Date Sampled: 06/21/13 11:20
Percent Solids: 90
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.019)		8270C SIM	123	1	06/26/13 23:23	CWF0289	CF32503
Acenaphthene	ND (0.019)		8270C SIM	43	1	06/26/13 23:23	CWF0289	CF32503
Acenaphthylene	ND (0.019)		8270C SIM	23	1	06/26/13 23:23	CWF0289	CF32503
Anthracene	ND (0.019)		8270C SIM	35	1	06/26/13 23:23	CWF0289	CF32503
Benzo(a)anthracene	0.038 (0.019)		8270C SIM	0.9	1	06/26/13 23:23	CWF0289	CF32503
Benzo(a)pyrene	0.048 (0.019)		8270C SIM	0.4	1	06/26/13 23:23	CWF0289	CF32503
Benzo(b)fluoranthene	0.073 (0.019)		8270C SIM	0.9	1	06/26/13 23:23	CWF0289	CF32503
Benzo(g,h,i)perylene	0.040 (0.019)		8270C SIM	0.8	1	06/26/13 23:23	CWF0289	CF32503
Benzo(k)fluoranthene	0.022 (0.019)		8270C SIM	0.9	1	06/26/13 23:23	CWF0289	CF32503
Chrysene	0.053 (0.019)		8270C SIM	0.4	1	06/26/13 23:23	CWF0289	CF32503
Dibenzo(a,h)Anthracene	ND (0.019)		8270C SIM	0.4	1	06/26/13 23:23	CWF0289	CF32503
Fluoranthene	0.094 (0.019)		8270C SIM	20	1	06/26/13 23:23	CWF0289	CF32503
Fluorene	ND (0.019)		8270C SIM	28	1	06/26/13 23:23	CWF0289	CF32503
Indeno(1,2,3-cd)Pyrene	0.044 (0.019)		8270C SIM	0.9	1	06/26/13 23:23	CWF0289	CF32503
Naphthalene	ND (0.019)		8270C SIM	54	1	06/26/13 23:23	CWF0289	CF32503
Phenanthrene	0.042 (0.019)		8270C SIM	40	1	06/26/13 23:23	CWF0289	CF32503
Pyrene	0.073 (0.019)		8270C SIM	13	1	06/26/13 23:23	CWF0289	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	49 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	52 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	54 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	69 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-502-02
Date Sampled: 06/21/13 11:30
Percent Solids: 96

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	2.6 (2.2)		6010B	7	1	SVD	06/26/13 5:55	2.37	100	CF32510
Lead	4.8 (4.4)		6010B	150	1	SVD	06/26/13 5:55	2.37	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
 Client Project ID: Gorham Site C-1 Phase III
 Client Sample ID: SS-502-02
 Date Sampled: 06/21/13 11:30
 Percent Solids: 96
 Initial Volume: 15.5
 Final Volume: 0.5
 Extraction Method: 3541

ESS Laboratory Work Order: 1306385
 ESS Laboratory Sample ID: 1306385-06
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 6/25/13 9:30

REVISED
 2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.017)		8270C SIM	123	1	06/27/13 0:11	CWF0289	CF32503
Acenaphthene	ND (0.017)		8270C SIM	43	1	06/27/13 0:11	CWF0289	CF32503
Acenaphthylene	ND (0.017)		8270C SIM	23	1	06/27/13 0:11	CWF0289	CF32503
Anthracene	ND (0.017)		8270C SIM	35	1	06/27/13 0:11	CWF0289	CF32503
Benzo(a)anthracene	ND (0.017)		8270C SIM	0.9	1	06/27/13 0:11	CWF0289	CF32503
Benzo(a)pyrene	ND (0.017)		8270C SIM	0.4	1	06/27/13 0:11	CWF0289	CF32503
Benzo(b)fluoranthene	ND (0.017)		8270C SIM	0.9	1	06/27/13 0:11	CWF0289	CF32503
Benzo(g,h,i)perylene	ND (0.017)		8270C SIM	0.8	1	06/27/13 0:11	CWF0289	CF32503
Benzo(k)fluoranthene	ND (0.017)		8270C SIM	0.9	1	06/27/13 0:11	CWF0289	CF32503
Chrysene	ND (0.017)		8270C SIM	0.4	1	06/27/13 0:11	CWF0289	CF32503
Dibenzo(a,h)Anthracene	ND (0.017)		8270C SIM	0.4	1	06/27/13 0:11	CWF0289	CF32503
Fluoranthene	ND (0.017)		8270C SIM	20	1	06/27/13 0:11	CWF0289	CF32503
Fluorene	ND (0.017)		8270C SIM	28	1	06/27/13 0:11	CWF0289	CF32503
Indeno(1,2,3-cd)Pyrene	ND (0.017)		8270C SIM	0.9	1	06/27/13 0:11	CWF0289	CF32503
Naphthalene	ND (0.017)		8270C SIM	54	1	06/27/13 0:11	CWF0289	CF32503
Phenanthrene	ND (0.017)		8270C SIM	40	1	06/27/13 0:11	CWF0289	CF32503
Pyrene	ND (0.017)		8270C SIM	13	1	06/27/13 0:11	CWF0289	CF32503

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	54 %		30-130
Surrogate: 2-Fluorobiphenyl	55 %		30-130
Surrogate: Nitrobenzene-d5	59 %		30-130
Surrogate: p-Terphenyl-d14	70 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-505-01
Date Sampled: 06/21/13 14:05
Percent Solids: 92

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	14.4 (2.5)		6010B	7	1	SVD	06/26/13 5:59	2.2	100	CF32510
Lead	166 (4.9)		6010B	150	1	SVD	06/26/13 5:59	2.2	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-505-01
Date Sampled: 06/21/13 14:05
Percent Solids: 92
Initial Volume: 15.5
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	0.800 (0.358)		8270C SIM	123	20	06/27/13 12:27	CWF0290	CF32503
Acenaphthene	1.21 (0.358)		8270C SIM	43	20	06/27/13 12:27	CWF0290	CF32503
Acenaphthylene	13.7 (0.358)		8270C SIM	23	20	06/27/13 12:27	CWF0290	CF32503
Anthracene	12.0 (0.358)		8270C SIM	35	20	06/27/13 12:27	CWF0290	CF32503
Benzo(a)anthracene	32.0 (0.358)		8270C SIM	0.9	20	06/27/13 12:27	CWF0290	CF32503
Benzo(a)pyrene	27.6 (0.358)		8270C SIM	0.4	20	06/27/13 12:27	CWF0290	CF32503
Benzo(b)fluoranthene	52.7 (0.358)		8270C SIM	0.9	20	06/27/13 12:27	CWF0290	CF32503
Benzo(g,h,i)perylene	11.5 (0.358)		8270C SIM	0.8	20	06/27/13 12:27	CWF0290	CF32503
Benzo(k)fluoranthene	55.7 (0.358)		8270C SIM	0.9	20	06/27/13 12:27	CWF0290	CF32503
Chrysene	29.5 (0.358)		8270C SIM	0.4	20	06/27/13 12:27	CWF0290	CF32503
Dibenzo(a,h)Anthracene	4.88 (0.358)		8270C SIM	0.4	20	06/27/13 12:27	CWF0290	CF32503
Fluoranthene	68.8 (1.79)		8270C SIM	20	100	06/28/13 9:58	CWF0290	CF32503
Fluorene	3.35 (0.358)		8270C SIM	28	20	06/27/13 12:27	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	15.1 (0.358)		8270C SIM	0.9	20	06/27/13 12:27	CWF0290	CF32503
Naphthalene	0.912 (0.358)		8270C SIM	54	20	06/27/13 12:27	CWF0290	CF32503
Phenanthrene	24.2 (0.358)		8270C SIM	40	20	06/27/13 12:27	CWF0290	CF32503
Pyrene	56.6 (1.79)		8270C SIM	13	100	06/28/13 9:58	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	46 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	48 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	42 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	62 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-505-02
Date Sampled: 06/21/13 14:25
Percent Solids: 95

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	6.2 (2.1)		6010B	7	1	SVD	06/26/13 6:03	2.49	100	CF32510
Lead	24.4 (4.2)		6010B	150	1	SVD	06/26/13 6:03	2.49	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-505-02
Date Sampled: 06/21/13 14:25
Percent Solids: 95
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.089)		8270C SIM	123	5	06/27/13 8:12	CWF0290	CF32503
Acenaphthene	ND (0.089)		8270C SIM	43	5	06/27/13 8:12	CWF0290	CF32503
Acenaphthylene	0.805 (0.089)		8270C SIM	23	5	06/27/13 8:12	CWF0290	CF32503
Anthracene	0.453 (0.089)		8270C SIM	35	5	06/27/13 8:12	CWF0290	CF32503
Benzo(a)anthracene	1.06 (0.089)		8270C SIM	0.9	5	06/27/13 8:12	CWF0290	CF32503
Benzo(a)pyrene	1.73 (0.089)		8270C SIM	0.4	5	06/27/13 8:12	CWF0290	CF32503
Benzo(b)fluoranthene	2.59 (0.089)		8270C SIM	0.9	5	06/27/13 8:12	CWF0290	CF32503
Benzo(g,h,i)perylene	1.12 (0.089)		8270C SIM	0.8	5	06/27/13 8:12	CWF0290	CF32503
Benzo(k)fluoranthene	0.746 (0.089)		8270C SIM	0.9	5	06/27/13 8:12	CWF0290	CF32503
Chrysene	1.35 (0.089)		8270C SIM	0.4	5	06/27/13 8:12	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.392 (0.089)		8270C SIM	0.4	5	06/27/13 8:12	CWF0290	CF32503
Fluoranthene	1.80 (0.089)		8270C SIM	20	5	06/27/13 8:12	CWF0290	CF32503
Fluorene	ND (0.089)		8270C SIM	28	5	06/27/13 8:12	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	1.43 (0.089)		8270C SIM	0.9	5	06/27/13 8:12	CWF0290	CF32503
Naphthalene	ND (0.089)		8270C SIM	54	5	06/27/13 8:12	CWF0290	CF32503
Phenanthrene	0.539 (0.089)		8270C SIM	40	5	06/27/13 8:12	CWF0290	CF32503
Pyrene	1.71 (0.089)		8270C SIM	13	5	06/27/13 8:12	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	51 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	61 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	57 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	83 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-506-01
Date Sampled: 06/21/13 14:45
Percent Solids: 89

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	35.5 (2.7)		6010B	7	1	SVD	06/26/13 6:07	2.06	100	CF32510
Lead	87.8 (5.5)		6010B	150	1	SVD	06/26/13 6:07	2.06	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-506-01
Date Sampled: 06/21/13 14:45
Percent Solids: 89
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>			
2-Methylnaphthalene	ND (0.019)		8270C SIM	123	1	06/27/13 1:00	CWF0289	CF32503
Acenaphthene	0.030 (0.019)		8270C SIM	43	1	06/27/13 1:00	CWF0289	CF32503
Acenaphthylene	0.124 (0.019)		8270C SIM	23	1	06/27/13 1:00	CWF0289	CF32503
Anthracene	0.137 (0.019)		8270C SIM	35	1	06/27/13 1:00	CWF0289	CF32503
Benzo(a)anthracene	0.466 (0.019)		8270C SIM	0.9	1	06/27/13 1:00	CWF0289	CF32503
Benzo(a)pyrene	0.512 (0.019)		8270C SIM	0.4	1	06/27/13 1:00	CWF0289	CF32503
Benzo(b)fluoranthene	0.629 (0.019)		8270C SIM	0.9	1	06/27/13 1:00	CWF0289	CF32503
Benzo(g,h,i)perylene	0.309 (0.019)		8270C SIM	0.8	1	06/27/13 1:00	CWF0289	CF32503
Benzo(k)fluoranthene	0.253 (0.019)		8270C SIM	0.9	1	06/27/13 1:00	CWF0289	CF32503
Chrysene	0.486 (0.019)		8270C SIM	0.4	1	06/27/13 1:00	CWF0289	CF32503
Dibenzo(a,h)Anthracene	0.090 (0.019)		8270C SIM	0.4	1	06/27/13 1:00	CWF0289	CF32503
Fluoranthene	0.939 (0.019)		8270C SIM	20	1	06/27/13 1:00	CWF0289	CF32503
Fluorene	0.030 (0.019)		8270C SIM	28	1	06/27/13 1:00	CWF0289	CF32503
Indeno(1,2,3-cd)Pyrene	0.366 (0.019)		8270C SIM	0.9	1	06/27/13 1:00	CWF0289	CF32503
Naphthalene	0.023 (0.019)		8270C SIM	54	1	06/27/13 1:00	CWF0289	CF32503
Phenanthrene	0.516 (0.019)		8270C SIM	40	1	06/27/13 1:00	CWF0289	CF32503
Pyrene	0.794 (0.019)		8270C SIM	13	1	06/27/13 1:00	CWF0289	CF32503

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	44 %		30-130
Surrogate: 2-Fluorobiphenyl	49 %		30-130
Surrogate: Nitrobenzene-d5	50 %		30-130
Surrogate: p-Terphenyl-d14	69 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-506-02
Date Sampled: 06/21/13 15:00
Percent Solids: 92

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	6.3 (2.5)		6010B	7	1	SVD	06/26/13 6:11	2.16	100	CF32510
Lead	29.7 (5.0)		6010B	150	1	SVD	06/26/13 6:11	2.16	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-506-02
Date Sampled: 06/21/13 15:00
Percent Solids: 92
Initial Volume: 15.6
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.018)		8270C SIM	123	1	06/27/13 4:58	CWF0290	CF32503
Acenaphthene	ND (0.018)		8270C SIM	43	1	06/27/13 4:58	CWF0290	CF32503
Acenaphthylene	0.037 (0.018)		8270C SIM	23	1	06/27/13 4:58	CWF0290	CF32503
Anthracene	0.068 (0.018)		8270C SIM	35	1	06/27/13 4:58	CWF0290	CF32503
Benzo(a)anthracene	0.222 (0.018)		8270C SIM	0.9	1	06/27/13 4:58	CWF0290	CF32503
Benzo(a)pyrene	0.260 (0.018)		8270C SIM	0.4	1	06/27/13 4:58	CWF0290	CF32503
Benzo(b)fluoranthene	0.292 (0.018)		8270C SIM	0.9	1	06/27/13 4:58	CWF0290	CF32503
Benzo(g,h,i)perylene	0.161 (0.018)		8270C SIM	0.8	1	06/27/13 4:58	CWF0290	CF32503
Benzo(k)fluoranthene	0.105 (0.018)		8270C SIM	0.9	1	06/27/13 4:58	CWF0290	CF32503
Chrysene	0.241 (0.018)		8270C SIM	0.4	1	06/27/13 4:58	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.042 (0.018)		8270C SIM	0.4	1	06/27/13 4:58	CWF0290	CF32503
Fluoranthene	0.448 (0.018)		8270C SIM	20	1	06/27/13 4:58	CWF0290	CF32503
Fluorene	ND (0.018)		8270C SIM	28	1	06/27/13 4:58	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	0.180 (0.018)		8270C SIM	0.9	1	06/27/13 4:58	CWF0290	CF32503
Naphthalene	ND (0.018)		8270C SIM	54	1	06/27/13 4:58	CWF0290	CF32503
Phenanthrene	0.266 (0.018)		8270C SIM	40	1	06/27/13 4:58	CWF0290	CF32503
Pyrene	0.426 (0.018)		8270C SIM	13	1	06/27/13 4:58	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	44 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	48 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	48 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	72 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-507-01
Date Sampled: 06/21/13 15:20
Percent Solids: 89

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-11
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	26.7 (2.5)		6010B	7	1	SVD	06/26/13 6:15	2.23	100	CF32510
Lead	77.0 (5.0)		6010B	150	1	SVD	06/26/13 6:15	2.23	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-507-01
Date Sampled: 06/21/13 15:20
Percent Solids: 89
Initial Volume: 15.4
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-11
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	ND (0.093)		8270C SIM	123	5	06/27/13 9:01	CWF0290	CF32503
Acenaphthene	0.239 (0.093)		8270C SIM	43	5	06/27/13 9:01	CWF0290	CF32503
Acenaphthylene	0.126 (0.093)		8270C SIM	23	5	06/27/13 9:01	CWF0290	CF32503
Anthracene	0.349 (0.093)		8270C SIM	35	5	06/27/13 9:01	CWF0290	CF32503
Benzo(a)anthracene	0.866 (0.093)		8270C SIM	0.9	5	06/27/13 9:01	CWF0290	CF32503
Benzo(a)pyrene	0.955 (0.093)		8270C SIM	0.4	5	06/27/13 9:01	CWF0290	CF32503
Benzo(b)fluoranthene	1.22 (0.093)		8270C SIM	0.9	5	06/27/13 9:01	CWF0290	CF32503
Benzo(g,h,i)perylene	0.491 (0.093)		8270C SIM	0.8	5	06/27/13 9:01	CWF0290	CF32503
Benzo(k)fluoranthene	0.371 (0.093)		8270C SIM	0.9	5	06/27/13 9:01	CWF0290	CF32503
Chrysene	0.992 (0.093)		8270C SIM	0.4	5	06/27/13 9:01	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.133 (0.093)		8270C SIM	0.4	5	06/27/13 9:01	CWF0290	CF32503
Fluoranthene	2.26 (0.093)		8270C SIM	20	5	06/27/13 9:01	CWF0290	CF32503
Fluorene	0.190 (0.093)		8270C SIM	28	5	06/27/13 9:01	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	0.614 (0.093)		8270C SIM	0.9	5	06/27/13 9:01	CWF0290	CF32503
Naphthalene	0.239 (0.093)		8270C SIM	54	5	06/27/13 9:01	CWF0290	CF32503
Phenanthrene	2.00 (0.093)		8270C SIM	40	5	06/27/13 9:01	CWF0290	CF32503
Pyrene	1.90 (0.093)		8270C SIM	13	5	06/27/13 9:01	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	46 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	52 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	50 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	72 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-507-02
Date Sampled: 06/21/13 15:40
Percent Solids: 91

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-12
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>					
Arsenic	4.0 (2.7)		6010B	7	1	SVD	06/26/13 6:19	2.05	100	CF32510
Lead	19.8 (5.4)		6010B	150	1	SVD	06/26/13 6:19	2.05	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-507-02
Date Sampled: 06/21/13 15:40
Percent Solids: 91
Initial Volume: 15.1
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-12
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>RI - RES DEC</u>		<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
				<u>Limit</u>	<u>DF</u>			
2-Methylnaphthalene	ND (0.019)		8270C SIM	123	1	06/27/13 5:47	CWF0290	CF32503
Acenaphthene	ND (0.019)		8270C SIM	43	1	06/27/13 5:47	CWF0290	CF32503
Acenaphthylene	ND (0.019)		8270C SIM	23	1	06/27/13 5:47	CWF0290	CF32503
Anthracene	0.020 (0.019)		8270C SIM	35	1	06/27/13 5:47	CWF0290	CF32503
Benzo(a)anthracene	0.085 (0.019)		8270C SIM	0.9	1	06/27/13 5:47	CWF0290	CF32503
Benzo(a)pyrene	0.106 (0.019)		8270C SIM	0.4	1	06/27/13 5:47	CWF0290	CF32503
Benzo(b)fluoranthene	0.131 (0.019)		8270C SIM	0.9	1	06/27/13 5:47	CWF0290	CF32503
Benzo(g,h,i)perylene	0.070 (0.019)		8270C SIM	0.8	1	06/27/13 5:47	CWF0290	CF32503
Benzo(k)fluoranthene	0.041 (0.019)		8270C SIM	0.9	1	06/27/13 5:47	CWF0290	CF32503
Chrysene	0.096 (0.019)		8270C SIM	0.4	1	06/27/13 5:47	CWF0290	CF32503
Dibenzo(a,h)Anthracene	ND (0.019)		8270C SIM	0.4	1	06/27/13 5:47	CWF0290	CF32503
Fluoranthene	0.196 (0.019)		8270C SIM	20	1	06/27/13 5:47	CWF0290	CF32503
Fluorene	ND (0.019)		8270C SIM	28	1	06/27/13 5:47	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	0.080 (0.019)		8270C SIM	0.9	1	06/27/13 5:47	CWF0290	CF32503
Naphthalene	ND (0.019)		8270C SIM	54	1	06/27/13 5:47	CWF0290	CF32503
Phenanthrene	0.093 (0.019)		8270C SIM	40	1	06/27/13 5:47	CWF0290	CF32503
Pyrene	0.172 (0.019)		8270C SIM	13	1	06/27/13 5:47	CWF0290	CF32503

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	54 %		30-130
Surrogate: 2-Fluorobiphenyl	56 %		30-130
Surrogate: Nitrobenzene-d5	60 %		30-130
Surrogate: p-Terphenyl-d14	73 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: DUP
Date Sampled: 06/21/13 00:00
Percent Solids: 89

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-13
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.4 (2.6)		6010B	7	1	SVD	06/26/13 6:23	2.13	100	CF32510
Lead	198 (5.3)		6010B	150	1	SVD	06/26/13 6:23	2.13	100	CF32510



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: DUP
Date Sampled: 06/21/13 00:00
Percent Solids: 89
Initial Volume: 15.7
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1306385
ESS Laboratory Sample ID: 1306385-13
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 6/25/13 9:30

REVISED
2:28 pm, Aug 06, 2013

8270C(SIM) Polynuclear Aromatic Hydrocarbons

RI - RES DEC

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2-Methylnaphthalene	0.204 (0.091)		8270C SIM	123	5	06/27/13 9:50	CWF0290	CF32503
Acenaphthene	0.889 (0.091)		8270C SIM	43	5	06/27/13 9:50	CWF0290	CF32503
Acenaphthylene	0.204 (0.091)		8270C SIM	23	5	06/27/13 9:50	CWF0290	CF32503
Anthracene	1.36 (0.091)		8270C SIM	35	5	06/27/13 9:50	CWF0290	CF32503
Benzo(a)anthracene	2.87 (0.091)		8270C SIM	0.9	5	06/27/13 9:50	CWF0290	CF32503
Benzo(a)pyrene	2.63 (0.091)		8270C SIM	0.4	5	06/27/13 9:50	CWF0290	CF32503
Benzo(b)fluoranthene	3.33 (0.091)		8270C SIM	0.9	5	06/27/13 9:50	CWF0290	CF32503
Benzo(g,h,i)perylene	1.22 (0.091)		8270C SIM	0.8	5	06/27/13 9:50	CWF0290	CF32503
Benzo(k)fluoranthene	1.14 (0.091)		8270C SIM	0.9	5	06/27/13 9:50	CWF0290	CF32503
Chrysene	2.62 (0.091)		8270C SIM	0.4	5	06/27/13 9:50	CWF0290	CF32503
Dibenzo(a,h)Anthracene	0.408 (0.091)		8270C SIM	0.4	5	06/27/13 9:50	CWF0290	CF32503
Fluoranthene	5.26 (0.091)		8270C SIM	20	5	06/27/13 9:50	CWF0290	CF32503
Fluorene	0.573 (0.091)		8270C SIM	28	5	06/27/13 9:50	CWF0290	CF32503
Indeno(1,2,3-cd)Pyrene	1.58 (0.091)		8270C SIM	0.9	5	06/27/13 9:50	CWF0290	CF32503
Naphthalene	0.428 (0.091)		8270C SIM	54	5	06/27/13 9:50	CWF0290	CF32503
Phenanthrene	4.20 (0.091)		8270C SIM	40	5	06/27/13 9:50	CWF0290	CF32503
Pyrene	4.55 (0.091)		8270C SIM	13	5	06/27/13 9:50	CWF0290	CF32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	35 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	41 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	36 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	64 %		30-130



CERTIFICATE OF ANALYSIS

REVISED
2:28 pm, Aug 06, 2013

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals Solid										
Batch CF32510 - 3050B										
Blank										
Arsenic	ND	2.5	mg/kg wet							
Lead	ND	5.0	mg/kg wet							
LCS										
Arsenic	147	8.3	mg/kg wet	161.0		91	80-120			
Lead	97.7	16.7	mg/kg wet	103.0		95	80-120			
LCS Dup										
Arsenic	136	8.3	mg/kg wet	161.0		85	80-120	7	20	
Lead	93.3	16.7	mg/kg wet	103.0		91	80-120	5	20	
Duplicate Source: 1306385-01										
Arsenic	9.46	2.6	mg/kg dry		9.96			5	35	
Lead	115	5.2	mg/kg dry		116			0.8	35	
Matrix Spike Source: 1306385-01										
Arsenic	30.4	2.7	mg/kg dry	27.12	9.96	75	75-125			
Lead	131	5.4	mg/kg dry	27.12	116	56	75-125			M-

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch CF32503 - 3541										
Blank										
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	0.152		mg/kg wet	0.3333		46	30-130			
Surrogate: 2-Fluorobiphenyl	0.170		mg/kg wet	0.3333		51	30-130			
Surrogate: Nitrobenzene-d5	0.170		mg/kg wet	0.3333		51	30-130			
Surrogate: p-Terphenyl-d14	0.219		mg/kg wet	0.3333		66	30-130			
LCS										
2-Methylnaphthalene	0.139	0.017	mg/kg wet	0.2667		52	40-140			



CERTIFICATE OF ANALYSIS

REVISED
2:28 pm, Aug 06, 2013

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch CF32503 - 3541

Acenaphthene	0.143	0.017	mg/kg wet	0.2667		54	40-140			
Acenaphthylene	0.136	0.017	mg/kg wet	0.2667		51	40-140			
Anthracene	0.172	0.017	mg/kg wet	0.2667		64	40-140			
Benzo(a)anthracene	0.206	0.017	mg/kg wet	0.2667		77	40-140			
Benzo(a)pyrene	0.196	0.017	mg/kg wet	0.2667		73	40-140			
Benzo(b)fluoranthene	0.198	0.017	mg/kg wet	0.2667		74	40-140			
Benzo(g,h,i)perylene	0.219	0.017	mg/kg wet	0.2667		82	40-140			
Benzo(k)fluoranthene	0.207	0.017	mg/kg wet	0.2667		78	40-140			
Chrysene	0.207	0.017	mg/kg wet	0.2667		78	40-140			
Dibenzo(a,h)Anthracene	0.235	0.017	mg/kg wet	0.2667		88	40-140			
Fluoranthene	0.196	0.017	mg/kg wet	0.2667		73	40-140			
Fluorene	0.152	0.017	mg/kg wet	0.2667		57	40-140			
Indeno(1,2,3-cd)Pyrene	0.222	0.017	mg/kg wet	0.2667		83	40-140			
Naphthalene	0.137	0.017	mg/kg wet	0.2667		51	40-140			
Phenanthrene	0.172	0.017	mg/kg wet	0.2667		64	40-140			
Pyrene	0.206	0.017	mg/kg wet	0.2667		77	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	0.149		mg/kg wet	0.3333		45	30-130			
Surrogate: 2-Fluorobiphenyl	0.167		mg/kg wet	0.3333		50	30-130			
Surrogate: Nitrobenzene-d5	0.170		mg/kg wet	0.3333		51	30-130			
Surrogate: p-Terphenyl-d14	0.271		mg/kg wet	0.3333		81	30-130			

LCS Dup

2-Methylnaphthalene	0.149	0.017	mg/kg wet	0.2667		56	40-140	6	30	
Acenaphthene	0.148	0.017	mg/kg wet	0.2667		55	40-140	3	30	
Acenaphthylene	0.141	0.017	mg/kg wet	0.2667		53	40-140	4	30	
Anthracene	0.178	0.017	mg/kg wet	0.2667		67	40-140	4	30	
Benzo(a)anthracene	0.201	0.017	mg/kg wet	0.2667		75	40-140	3	30	
Benzo(a)pyrene	0.194	0.017	mg/kg wet	0.2667		73	40-140	1	30	
Benzo(b)fluoranthene	0.209	0.017	mg/kg wet	0.2667		78	40-140	6	30	
Benzo(g,h,i)perylene	0.207	0.017	mg/kg wet	0.2667		78	40-140	6	30	
Benzo(k)fluoranthene	0.193	0.017	mg/kg wet	0.2667		72	40-140	7	30	
Chrysene	0.201	0.017	mg/kg wet	0.2667		75	40-140	3	30	
Dibenzo(a,h)Anthracene	0.225	0.017	mg/kg wet	0.2667		84	40-140	4	30	
Fluoranthene	0.199	0.017	mg/kg wet	0.2667		75	40-140	2	30	
Fluorene	0.157	0.017	mg/kg wet	0.2667		59	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	0.211	0.017	mg/kg wet	0.2667		79	40-140	5	30	
Naphthalene	0.145	0.017	mg/kg wet	0.2667		54	40-140	6	30	
Phenanthrene	0.177	0.017	mg/kg wet	0.2667		66	40-140	3	30	
Pyrene	0.195	0.017	mg/kg wet	0.2667		73	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	0.161		mg/kg wet	0.3333		48	30-130			
Surrogate: 2-Fluorobiphenyl	0.169		mg/kg wet	0.3333		51	30-130			
Surrogate: Nitrobenzene-d5	0.180		mg/kg wet	0.3333		54	30-130			
Surrogate: p-Terphenyl-d14	0.246		mg/kg wet	0.3333		74	30-130			

Matrix Spike Source: 1306385-01

2-Methylnaphthalene	0.207	0.095	mg/kg dry	0.2985	0.049	53	40-140			
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CERTIFICATE OF ANALYSIS

REVISED
2:28 pm, Aug 06, 2013

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch CF32503 - 3541

Acenaphthene	0.274	0.095	mg/kg dry	0.2985	0.031	81	40-140			
Acenaphthylene	0.935	0.095	mg/kg dry	0.2985	0.682	85	40-140			
Anthracene	1.16	0.095	mg/kg dry	0.2985	0.724	146	40-140			M+
Benzo(a)anthracene	2.19	0.095	mg/kg dry	0.2985	1.55	217	40-140			M+
Benzo(a)pyrene	2.16	0.095	mg/kg dry	0.2985	1.51	218	40-140			M+
Benzo(b)fluoranthene	3.10	0.095	mg/kg dry	0.2985	2.42	228	40-140			M+
Benzo(g,h,i)perylene	1.15	0.095	mg/kg dry	0.2985	0.807	114	40-140			
Benzo(k)fluoranthene	1.29	0.095	mg/kg dry	0.2985	0.644	215	40-140			M+
Chrysene	2.51	0.095	mg/kg dry	0.2985	1.58	309	40-140			M+
Dibenzo(a,h)Anthracene	0.558	0.095	mg/kg dry	0.2985	0.291	89	40-140			
Fluoranthene	4.22	0.095	mg/kg dry	0.2985	2.22	671	40-140			M+
Fluorene	0.302	0.095	mg/kg dry	0.2985	0.051	84	40-140			
Indeno(1,2,3-cd)Pyrene	1.52	0.095	mg/kg dry	0.2985	1.10	142	40-140			M+
Naphthalene	0.231	0.095	mg/kg dry	0.2985	0.057	59	40-140			
Phenanthrene	2.29	0.095	mg/kg dry	0.2985	0.680	540	40-140			M+
Pyrene	3.44	0.095	mg/kg dry	0.2985	1.96	498	40-140			M+
Surrogate: 1,2-Dichlorobenzene-d4	0.110		mg/kg dry	0.3732		30	30-130			
Surrogate: 2-Fluorobiphenyl	0.172		mg/kg dry	0.3732		46	30-130			
Surrogate: Nitrobenzene-d5	0.136		mg/kg dry	0.3732		37	30-130			
Surrogate: p-Terphenyl-d14	0.239		mg/kg dry	0.3732		64	30-130			

Matrix Spike Dup Source: 1306385-01

2-Methylnaphthalene	0.126	0.092	mg/kg dry	0.2888	0.049	27	40-140	48	30	D+, M-
Acenaphthene	0.141	0.092	mg/kg dry	0.2888	0.031	38	40-140	64	30	D+, M-
Acenaphthylene	0.542	0.092	mg/kg dry	0.2888	0.682	NR	40-140	53	30	D+, M-
Anthracene	0.635	0.092	mg/kg dry	0.2888	0.724	NR	40-140	58	30	D+, M-
Benzo(a)anthracene	1.12	0.092	mg/kg dry	0.2888	1.55	NR	40-140	65	30	D+, M-
Benzo(a)pyrene	1.14	0.092	mg/kg dry	0.2888	1.51	NR	40-140	62	30	D+, M-
Benzo(b)fluoranthene	1.59	0.092	mg/kg dry	0.2888	2.42	NR	40-140	65	30	D+, M-
Benzo(g,h,i)perylene	0.603	0.092	mg/kg dry	0.2888	0.807	NR	40-140	62	30	D+, M-
Benzo(k)fluoranthene	0.737	0.092	mg/kg dry	0.2888	0.644	32	40-140	54	30	D+, M-
Chrysene	1.21	0.092	mg/kg dry	0.2888	1.58	NR	40-140	70	30	D+, M-
Dibenzo(a,h)Anthracene	0.325	0.092	mg/kg dry	0.2888	0.291	12	40-140	53	30	D+, M-
Fluoranthene	1.61	0.092	mg/kg dry	0.2888	2.22	NR	40-140	90	30	D+, M-
Fluorene	0.175	0.092	mg/kg dry	0.2888	0.051	43	40-140	53	30	D+
Indeno(1,2,3-cd)Pyrene	0.814	0.092	mg/kg dry	0.2888	1.10	NR	40-140	61	30	D+, M-
Naphthalene	0.117	0.092	mg/kg dry	0.2888	0.057	21	40-140	65	30	D+, M-
Phenanthrene	0.576	0.092	mg/kg dry	0.2888	0.680	NR	40-140	120	30	D+, M-
Pyrene	1.38	0.092	mg/kg dry	0.2888	1.96	NR	40-140	85	30	D+, M-
Surrogate: 1,2-Dichlorobenzene-d4	0.0848		mg/kg dry	0.3610		24	30-130			SM
Surrogate: 2-Fluorobiphenyl	0.117		mg/kg dry	0.3610		32	30-130			
Surrogate: Nitrobenzene-d5	0.101		mg/kg dry	0.3610		28	30-130			SM
Surrogate: p-Terphenyl-d14	0.211		mg/kg dry	0.3610		59	30-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SM Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
- M+ Matrix Spike recovery is above upper control limit (M+).
- M- Matrix Spike recovery is below lower control limit (M-).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1306385

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01

<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002

http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301

http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01

Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)

<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141

Lead Paint, Lead in Children's Metals Jewelry

<http://www.cpsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13060385
Date Project Due: 6/28/13
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.: _____
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 4.3
- Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____
- 18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	4	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	2	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP

Completed By: [Signature] Date/Time: 6/24/13 1529
Reviewed By: [Signature] Date/Time: 6/24/13 1535

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13060385
Date Project Due: 6/28/13
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.: _____
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 4.3
- Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.
Dep sample received not on COC. MS/MS jars received for sample #1, MS/MSD not assigned. Please advise on both matters. 6/21/13 @

Who was called? ^{emailed} Kevin Braga By whom? Christine Taylor

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	4	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	2	NP
12	Yes	4 oz Soil Jar	1	NP

Completed By: LOE Date/Time: 6/21/13 2:50
Reviewed By: JSP Date/Time: 6/23/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 2

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits
 RE DEC
 in Residential
 Electronic Deliverable Yes No
 Format: Excel Access PDF Other **EXCEL**

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Type of Containers	Number of Containers	Write Required Analysis
1	6-21-13	0920	X		S	SS-500-01	1	G	2	PAHs (BZTC SIM) Metals (Pb+As) 6010 (HOLD pending AMEC Notifying) Dioxins/Furans
2	"	1000	X		S	SS-500-02	1	G	2	(HOLD pending AMEC Notifying)
3	"	1030	X		S	SS-501-01	1	G	2	(HOLD pending AMEC Notifying)
4	"	1055	X		S	SS-501-02	1	G	2	(HOLD pending AMEC Notifying)
5	"	1120	X		S	SS-502-01	1	G	2	(HOLD pending AMEC Notifying)
6	"	1130	X		S	SS-502-02	1	G	1	(HOLD pending AMEC Notifying)
	"	1200	X		S	SS-503-01	1	G	2	SS-502-01, SS-503-02,
	"	1210	X		S	SS-503-02	1	G	1	SS-504-01, and SS-504-02
	"	1325	X		S	SS-504-01	1	G	2	HOLD until AMEC Notification
	"	1340	X		S	SS-505-04-02	1	G	1	

Project # 3652130009
 Project Name (20 Char. or less) Gorham Site, C-1, PAH III
 Address 107 Audubon Rd.
 Zip 01880 PO# 6012202910
 Email Address Kelly.chafferton@amec.com

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Sludge W-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No Internal Use Only
 Seals Intact Yes No NA: Pickup
 Cooler Temp: 4.50 6/21/13

Relinquished by: (Signature) Date/Time 6-21-13 1700
 Relinquished by: (Signature) Date/Time 6/21/13 1700

Received by: (Signature) _____ Date/Time _____
 Received by: (Signature) _____ Date/Time _____

Relinquished by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) _____ Date/Time _____

Sampled by: PSM/MAM
 Comments: _____

Preservation Code 1- NP, 2- HCL, 3- H2SO4, 4- HNO3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

ESS Laboratory

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 www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of 2

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 Navy Other _____

Project # _____ Project Name (20 Char. or less) _____
 Address _____ PO# _____
 City _____ State _____ Zip _____
 Telephone # _____ Email Address _____
 781-245-6606 Kelly.chatterton@amec.com

Reporting Limits: RESIDENTIAL RI DEC
 Electronic Deliverable: Yes No
 Format: Excel _____ Access _____ PDF _____ Other EXCEL
 ESS LAB PROJECT ID: 1806395

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
7	6-21-13	1405	X		S	SS-505-01	1	2	G	PAHs (B270 SIM) Metals (Pb+As) Dioxins/Furans (B290) Hard Pending AMEC Notification
8	"	1425	X		S	SS-505-02	1	1	G	
9	"	1445	X		S	SS-506-01	1	2	G	
10	"	1500	X		S	SS-506-02	1	1	G	
11	"	1520	X		S	SS-507-01	1	2	G	
12	"	1540	X		S	SS-507-02	1	1	G	
13	6/21/13				S	Deep (Hold?)	1	1	G	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No Internal Use Only
 Seals Intact Yes No NA: Pickup
 Cooler Temp: 4.3° ice 6/21/13 [] Technicians _____
 Relinquished by: (Signature) _____ Date/Time 6/21/13 1700 Received by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) _____ Date/Time _____ Received by: (Signature) _____ Date/Time _____

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A
 Please fax all changes to Chain of Custody in writing.
 1 (White) Lab Copy 2 (Yellow) Client Receipt

Metals Data Package

Metals Sample Data

ESS Laboratory

SDG: 1306385
CLASS: METALS
METHOD: 6010B

ANALYSES DATA PACKAGE COVER PAGE

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Client Sample Id:

Lab Sample Id:

SS-500-01

1306385-01

SS-500-02

1306385-02

SS-501-01

1306385-03

SS-501-02

1306385-04

SS-502-01

1306385-05

SS-502-02

1306385-06

SS-505-01

1306385-07

SS-505-02

1306385-08

SS-506-01

1306385-09

SS-506-02

1306385-10

SS-507-01

1306385-11

SS-507-02

1306385-12

DUP

1306385-13

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____

Name: _____

Date: _____

Title: _____

METHOD DETECTION AND REPORTING LIMITS

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Instrument: ICP3

Analyte	MDL	MRL	Units
Aluminum	2.2	6.7	mg/kg
Arsenic	0.6	3.3	mg/kg
Calcium	9.10	33.3	mg/kg
Iron	2.1	6.7	mg/kg
Lead	0.3	6.7	mg/kg
Magnesium	4.03	13.3	mg/kg

INORGANIC ANALYSIS DATA SHEET

6010B

SS-500-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-01

File ID: 062513NADREP-200

Sampled: 06/21/13 09:20

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:11

Solids: 89.93

Preparation: 3050B

Initial/Final: 2.15 g / 100 ml

Batch: CF32510

Sequence:

CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	10.0	1		6010B
7439-92-1	Lead	116	1		6010B

INORGANIC ANALYSIS DATA SHEET

SS-500-02

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-02

File ID: 062513NADREP-205

Sampled: 06/21/13 10:00

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:31

Solids: 88.79

Preparation: 3050B

Initial/Final: 2.07 g / 100 ml

Batch: CF32510

Sequence: CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	12.9	1		6010B
7439-92-1	Lead	242	1		6010B

INORGANIC ANALYSIS DATA SHEET

SS-501-01

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-03

File ID: 062513NADREP-206

Sampled: 06/21/13 10:30

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:35

Solids: 89.36

Preparation: 3050B

Initial/Final: 2.2 g / 100 ml

Batch: CF32510

Sequence:

CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.1	1		6010B
7439-92-1	Lead	170	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

SS-501-02

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-04

File ID: 062513NADREP-209

Sampled: 06/21/13 10:55

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:47

Solids: 91.02

Preparation: 3050B

Initial/Final: 2.2 g / 100 ml

Batch: CF32510

Sequence:

CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.7	1		6010B
7439-92-1	Lead	270	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

SS-502-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-05

File ID: 062513NADREP-210

Sampled: 06/21/13 11:20

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:51

Solids: 90.39

Preparation: 3050B

Initial/Final: 2.2 g / 100 ml

Batch: CF32510

Sequence: CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.0	1		6010B
7439-92-1	Lead	34.3	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

SS-505-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-07

File ID: 062513NADREP-212

Sampled: 06/21/13 14:05

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 05:59

Solids: 91.94

Preparation: 3050B

Initial/Final: 2.2 g / 100 ml

Batch: CF32510

Sequence: CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	14.4	1		6010B
7439-92-1	Lead	166	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

SS-505-02

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-08

File ID: 062513NADREP-213

Sampled: 06/21/13 14:25

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 06:03

Solids: 94.59

Preparation: 3050B

Initial/Final: 2.49 g / 100 ml

Batch: CF32510

Sequence: CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	6.2	1		6010B
7439-92-1	Lead	24.4	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

SS-506-02

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-10

File ID: 062513NADREP-215

Sampled: 06/21/13 15:00

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 06:11

Solids: 92.02

Preparation: 3050B

Initial/Final: 2.16 g / 100 ml

Batch: CF32510

Sequence: CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	6.3	1		6010B
7439-92-1	Lead	29.7	1		6010B

INORGANIC ANALYSIS DATA SHEET

SS-507-02

6010B

 Laboratory: ESS Laboratory

 SDG: 1306385

 Client: AMEC Environmental and Infrastructure - KPB

 Project: Gorham Site C-1 Phase III

 Matrix: Soil

 Laboratory ID: 1306385-12

 File ID: 062513NADREP-217

 Sampled: 06/21/13 15:40

 Prepared: 06/25/13 12:38

 Analyzed: 06/26/13 06:19

 Solids: 91.16

 Preparation: 3050B

 Initial/Final: 2.05 g / 100 ml

 Batch: CF32510

Sequence:

CWG0216

 Calibration: UNASSIGNED

 Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	4.0	1		6010B
7439-92-1	Lead	19.8	1		6010B

INORGANIC ANALYSIS DATA SHEET

6010B

DUP

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1306385-13

File ID: 062513NADREP-218

Sampled: 06/21/13 00:00

Prepared: 06/25/13 12:38

Analyzed: 06/26/13 06:23

Solids: 89.00

Preparation: 3050B

Initial/Final: 2.13 g / 100 ml

Batch: CF32510

Sequence:

CWG0216

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	6.4	1		6010B
7439-92-1	Lead	198	1		6010B

Metals Quality Control Data

PREPARATION BATCH SUMMARY

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Batch: CF32510 Batch Matrix: Solid

Preparation: 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SS-500-01	1306385-01	062513NADREP-200	06/25/13 12:38	MS/MSD - Data Package
SS-500-02	1306385-02	062513NADREP-205	06/25/13 12:38	Data Package
SS-501-01	1306385-03	062513NADREP-206	06/25/13 12:38	Data Package
SS-501-02	1306385-04	062513NADREP-209	06/25/13 12:38	Data Package
SS-502-01	1306385-05	062513NADREP-210	06/25/13 12:38	Data Package
SS-502-02	1306385-06	062513NADREP-211	06/25/13 12:38	Data Package
SS-505-01	1306385-07	062513NADREP-212	06/25/13 12:38	Data Package
SS-505-02	1306385-08	062513NADREP-213	06/25/13 12:38	Data Package
SS-506-01	1306385-09	062513NADREP-214	06/25/13 12:38	Data Package
SS-506-02	1306385-10	062513NADREP-215	06/25/13 12:38	Data Package
SS-507-01	1306385-11	062513NADREP-216	06/25/13 12:38	Data Package
SS-507-02	1306385-12	062513NADREP-217	06/25/13 12:38	Data Package
DUP	1306385-13	062513NADREP-218	06/25/13 12:38	Data Package
Blank	CF32510-BLK1	062513NADREP-197	06/25/13 09:54	
LCS	CF32510-BS1	062513NADREP-198	06/25/13 09:54	
LCS Dup	CF32510-BSD1	062513NADREP-199	06/25/13 09:54	
SS-500-01	CF32510-DUP1	062513NADREP-201	06/26/13 05:15	
SS-500-01	CF32510-MS1	062513NADREP-202	06/25/13 09:54	
SS-500-01	CF32510-PS1	062513NADREP-204	06/25/13 09:54	[Spk] 2.15g->100ml; 10ml->10ml; Spiked 10ml

DUPLICATES

SS-500-01

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Laboratory ID: CF32510-DUP1

Batch: CF32510

Lab Source ID: 1306385-01

Preparation: 3050B

Initial/Final: 2.12 g / 100 ml

Source Sample Name: SS-500-01

% Solids: 89.93

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q	METHOD
Arsenic	35	9.96		9.46		5		6010B
Lead	35	116		115		0.8		6010B

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

6010B

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Matrix: <u>Solid</u>	
Batch: <u>CF32510</u>	Laboratory ID: <u>CF32510-BS1</u>
Preparation: <u>3050B</u>	Initial/Final: <u>0.6 g / 100 ml</u>

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Arsenic	161.0	147	91	80 - 120
Lead	103.0	97.7	95	80 - 120

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Arsenic	161.0	136	85	7	20	80 - 120
Lead	103.0	93.3	91	5	20	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Metals Calibration Data

ANALYSIS BATCH (SEQUENCE) SUMMARY

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWG0216

Instrument: ICP3

Matrix: Solid

Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	CWG0216-ICV1	062513NADREP-005	06/25/13 14:15
Secondary Cal Check	CWG0216-SCV1	062513NADREP-006	06/25/13 14:19
Initial Cal Blank	CWG0216-ICB1	062513NADREP-007	06/25/13 14:23
Instrument RL Check	CWG0216-CRL1	062513NADREP-008	06/25/13 14:27
Instrument RL Check	CWG0216-CRL2	062513NADREP-009	06/25/13 14:32
Instrument RL Check	CWG0216-CRL3	062513NADREP-010	06/25/13 14:36
Interference Check A	CWG0216-IFA1	062513NADREP-011	06/25/13 14:40
Interference Check B	CWG0216-IFB1	062513NADREP-012	06/25/13 14:44
Calibration Check	CWG0216-CCV1	062513NADREP-195	06/26/13 04:51
Calibration Blank	CWG0216-CCB1	062513NADREP-196	06/26/13 04:55
Blank	CF32510-BLK1	062513NADREP-197	06/26/13 04:59
LCS	CF32510-BS1	062513NADREP-198	06/26/13 05:03
LCS Dup	CF32510-BSD1	062513NADREP-199	06/26/13 05:07
SS-500-01	1306385-01	062513NADREP-200	06/26/13 05:11
SS-500-01	1306385-01	062513NADREP-200	06/26/13 05:11
SS-500-01	CF32510-DUP1	062513NADREP-201	06/26/13 05:15
SS-500-01	CF32510-MS1	062513NADREP-202	06/26/13 05:19
SS-500-01	CWG0216-SRD1	062513NADREP-203	06/26/13 05:23
SS-500-01	CF32510-PS1	062513NADREP-204	06/26/13 05:27
SS-500-02	1306385-02	062513NADREP-205	06/26/13 05:31
SS-500-02	1306385-02	062513NADREP-205	06/26/13 05:31
SS-501-01	1306385-03	062513NADREP-206	06/26/13 05:35
SS-501-01	1306385-03	062513NADREP-206	06/26/13 05:35
Calibration Check	CWG0216-CCV2	062513NADREP-207	06/26/13 05:39
Calibration Blank	CWG0216-CCB2	062513NADREP-208	06/26/13 05:43
SS-501-02	1306385-04	062513NADREP-209	06/26/13 05:47
SS-501-02	1306385-04	062513NADREP-209	06/26/13 05:47
SS-502-01	1306385-05	062513NADREP-210	06/26/13 05:51
SS-502-01	1306385-05	062513NADREP-210	06/26/13 05:51
SS-502-02	1306385-06	062513NADREP-211	06/26/13 05:55
SS-502-02	1306385-06	062513NADREP-211	06/26/13 05:55
SS-505-01	1306385-07	062513NADREP-212	06/26/13 05:59

**BLANKS
6010B**

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0216

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
CWG0216-ICB1	Aluminum	0.009	0.1	mg/L		6010B
	Arsenic	0.002	0.05	mg/L		6010B
	Calcium	0.004	0.50	mg/L		6010B
	Iron	0.017	0.1	mg/L		6010B
	Lead	-0.0005	0.1	mg/L		6010B
	Magnesium	-0.002	0.20	mg/L		6010B
CWG0216-CCB1	Aluminum	0.009	0.1	mg/L		6010B
	Arsenic	0.005	0.05	mg/L		6010B
	Calcium	0.02	0.50	mg/L		6010B
	Iron	0.02	0.1	mg/L		6010B
	Lead	0.003	0.1	mg/L		6010B
	Magnesium	0.002	0.20	mg/L		6010B
CF32510-BLK1	Aluminum	2.4	5.0	mg/kg wet		6010B
	Arsenic	0.1	2.5	mg/kg wet		6010B
	Calcium	7.67	25.0	mg/kg wet		6010B
	Iron	15.7	5.0	mg/kg wet	*	6010B
	Lead	0.2	5.0	mg/kg wet		6010B
	Magnesium	1.11	9.98	mg/kg wet		6010B
CWG0216-CCB2	Aluminum	0.009	0.1	mg/L		6010B
	Arsenic	0.005	0.05	mg/L		6010B
	Calcium	0.02	0.50	mg/L		6010B
	Iron	0.02	0.1	mg/L		6010B
	Lead	0.003	0.1	mg/L		6010B
	Magnesium	0.005	0.20	mg/L		6010B
CWG0216-CCB3	Aluminum	0.01	0.1	mg/L		6010B
	Arsenic	0.004	0.05	mg/L		6010B
	Calcium	0.02	0.50	mg/L		6010B
	Iron	0.03	0.1	mg/L		6010B
	Lead	0.004	0.1	mg/L		6010B
	Magnesium	0.0003	0.20	mg/L		6010B

INITIAL AND CONTINUING CALIBRATION CHECK

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Control Limit: +/- 10.00%

Sequence: CWG0216

Lab Sample ID	Analyte	True	Found	%R	Units	Method
CWG0216-ICV1	Aluminum	2.500	2.44	98	mg/L	6010B
	Arsenic	0.5000	0.481	96	mg/L	6010B
	Calcium	5.000	4.80	96	mg/L	6010B
	Iron	2.500	2.37	95	mg/L	6010B
	Lead	0.5000	0.489	98	mg/L	6010B
	Magnesium	5.000	4.83	97	mg/L	6010B
CWG0216-CCV1	Aluminum	2.500	2.47	99	mg/L	6010B
	Arsenic	0.5000	0.472	94	mg/L	6010B
	Calcium	5.000	5.64	113 *	mg/L	6010B
	Iron	2.500	2.40	96	mg/L	6010B
	Lead	0.5000	0.503	101	mg/L	6010B
	Magnesium	5.000	5.43	109	mg/L	6010B
CWG0216-CCV2	Aluminum	2.500	2.44	97	mg/L	6010B
	Arsenic	0.5000	0.466	93	mg/L	6010B
	Calcium	5.000	5.54	111 *	mg/L	6010B
	Iron	2.500	2.42	97	mg/L	6010B
	Lead	0.5000	0.491	98	mg/L	6010B
	Magnesium	5.000	5.32	106	mg/L	6010B
CWG0216-CCV3	Aluminum	2.500	2.41	97	mg/L	6010B
	Arsenic	0.5000	0.468	94	mg/L	6010B
	Calcium	5.000	5.55	111 *	mg/L	6010B
	Iron	2.500	2.38	95	mg/L	6010B
	Lead	0.5000	0.494	99	mg/L	6010B
	Magnesium	5.000	5.36	107	mg/L	6010B

* Values outside of QC limits

POST DIGEST SPIKE SAMPLE RECOVERY

SS-500-01

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Laboratory ID: CF32510-PS1

Batch: CF32510

Lab Source ID: 1306385-01

Preparation: 3050B

Initial/Final: 0.215 g / 10 ml

Source Sample Name: SS-500-01

% Solids: 89.93

Analyte	Control Limit %R	Spike Sample Result (SSR) (mg/kg dry)	Sample Result (SR) (mg/kg dry)	Spike Added (SA) (mg/kg dry)	%R
Arsenic	75 - 125	31.7	9.96	25.86	84
Lead	75 - 125	137	116	25.86	79
Magnesium	75 - 125	1360	1120	258.6	93

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0216

Lab Sample ID	Analyte	True	Found	%R	Units
CWG0216-IFA1	Aluminum	250.0	259.6844	104	mg/L
	Aluminum	250.0	259.6844	104	mg/L
	Arsenic		0.0140		mg/L
	Arsenic		0.0140		mg/L
	Calcium	250.0	237.6397	95	mg/L
	Calcium	250.0	237.6397	95	mg/L
	Iron	100.0	98.8653	99	mg/L
	Iron	100.0	98.8653	99	mg/L
	Lead		-0.0004		mg/L
	Lead		-0.0004		mg/L
	Magnesium	250.0	247.5625	99	mg/L
	Magnesium	250.0	247.5625	99	mg/L
CWG0216-IFB1	Aluminum	250.0	265.1268	106	mg/L
	Aluminum	250.0	265.1268	106	mg/L
	Arsenic		0.0086		mg/L
	Arsenic		0.0086		mg/L
	Calcium	250.0	243.2729	97	mg/L
	Calcium	250.0	243.2729	97	mg/L
	Iron	100.0	102.1109	102	mg/L
	Iron	100.0	102.1109	102	mg/L
	Lead	0.5000	0.4872	97	mg/L
	Lead	0.5000	0.4872	97	mg/L
	Magnesium	250.0	253.3968	101	mg/L
	Magnesium	250.0	253.3968	101	mg/L
CWG0216-IFA2	Aluminum	250.0	256.4153	103	mg/L
	Aluminum	250.0	256.4153	103	mg/L
	Arsenic		0.0145		mg/L
	Arsenic		0.0145		mg/L
	Calcium	250.0	273.9490	110	mg/L

ICP INTERFERENCE CHECK SAMPLE

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0216

Lab Sample ID	Analyte	True	Found	%R	Units
CWG0216-IFA2	Calcium	250.0	273.9490	110	mg/L
	Iron	100.0	95.7894	96	mg/L
	Iron	100.0	95.7894	96	mg/L
	Lead		0.0021		mg/L
	Lead		0.0021		mg/L
	Magnesium	250.0	278.9271	112	mg/L
	Magnesium	250.0	278.9271	112	mg/L
CWG0216-IFB2	Aluminum	250.0	245.5441	98	mg/L
	Aluminum	250.0	245.5441	98	mg/L
	Arsenic		0.0049		mg/L
	Arsenic		0.0049		mg/L
	Calcium	250.0	264.9424	106	mg/L
	Calcium	250.0	264.9424	106	mg/L
	Iron	100.0	92.8520	93	mg/L
	Iron	100.0	92.8520	93	mg/L
	Lead	0.5000	0.4763	95	mg/L
	Lead	0.5000	0.4763	95	mg/L
	Magnesium	250.0	271.2208	108	mg/L
	Magnesium	250.0	271.2208	108	mg/L

* Values outside of QC limits

SERIAL DILUTION

6010B

SS-500-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Laboratory ID: CWG0216-SRD1

Sequence: CWG0216

Lab Source ID: 1306385-01

Preparation: CF32510

Initial/Final: 2.15 / 100

Source Sample Name: SS-500-01

% Solids: 89.93

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Arsenic	9.96		ND				6010B	10
Lead	116		144		22	*	6010B	10

* Values outside of QC limits

CRDL STANDARD

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0216

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
CWG0216-CRL1	Aluminum	0.2500	0.252	101	mg/L	70 - 130
	Aluminum	0.2500	0.252	101	mg/L	70 - 130
	Arsenic	0.05000	0.053	107	mg/L	70 - 130
	Arsenic	0.05000	0.053	107	mg/L	70 - 130
	Calcium	0.5000	0.500	100	mg/L	70 - 130
	Calcium	0.5000	0.500	100	mg/L	70 - 130
	Iron	0.2500	0.263	105	mg/L	70 - 130
	Iron	0.2500	0.263	105	mg/L	70 - 130
	Lead	0.05000	0.052	103	mg/L	70 - 130
	Lead	0.05000	0.052	103	mg/L	70 - 130
	Magnesium	0.5000	0.504	101	mg/L	70 - 130
	Magnesium	0.5000	0.504	101	mg/L	70 - 130
CWG0216-CRL2	Aluminum	0.1000	0.102	102	mg/L	70 - 130
	Aluminum	0.1000	0.102	102	mg/L	70 - 130
	Arsenic	0.02000	0.025	123	mg/L	70 - 130
	Arsenic	0.02000	0.025	123	mg/L	70 - 130
	Calcium	0.2000	0.204	102	mg/L	70 - 130
	Calcium	0.2000	0.204	102	mg/L	70 - 130
	Iron	0.1000	0.122	122	mg/L	70 - 130
	Iron	0.1000	0.122	122	mg/L	70 - 130
	Lead	0.02000	0.020	102	mg/L	70 - 130
	Lead	0.02000	0.020	102	mg/L	70 - 130
	Magnesium	0.2000	0.206	103	mg/L	70 - 130
	Magnesium	0.2000	0.206	103	mg/L	70 - 130
CWG0216-CRL3	Aluminum	0.05000	0.058	116	mg/L	70 - 130
	Aluminum	0.05000	0.058	116	mg/L	70 - 130
	Arsenic	0.01000	0.011	108	mg/L	70 - 130
	Arsenic	0.01000	0.011	108	mg/L	70 - 130

CRDL STANDARD

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0216

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
CWG0216-CRL3	Calcium	0.1000	0.103	103	mg/L	70 - 130
	Calcium	0.1000	0.103	103	mg/L	70 - 130
	Iron	0.05000	0.072	145 *	mg/L	70 - 130
	Iron	0.05000	0.072	145 *	mg/L	70 - 130
	Lead	0.01000	0.012	120	mg/L	70 - 130
	Lead	0.01000	0.012	120	mg/L	70 - 130
	Magnesium	0.1000	0.101	101	mg/L	70 - 130
	Magnesium	0.1000	0.101	101	mg/L	70 - 130

* Values outside of QC limits

Seq.	Loc.	Sample ID
1	1	CAL1
2	2	CAL2
3	3	CAL3
4	4	CAL4
5	3	ICV1
6	5	SCV1
7	1	ICB1
8	6	CRL1
9	7	CRL2
10	8	CRL3
11	160	IFA
12	159	IFB
13	156	Ca 500
14	157	Fe 250
15	0	WASH
16	3	CCV1
17	1	CCB1
18	9	CF31807-BLK1
19	10	CF31807-BLK2
20	11	CF32007-BLK3
21	12	1306299-01
22	13	1306275-01
23	3	CCV1
24	1	CCB1
25	14	1306283-03
26	15	CF31807-DUP1
27	16	CF31807-MS1
28	17	CF31807-SD1 @5
29	18	CF31807-PDS1
30	19	1306283-04
31	20	1306285-01
32	21	1306285-02
33	22	1306285-03
34	3	CCV1
35	1	CCB1
36	23	1306285-05
37	24	CF32127-DUP1
38	25	CF32127-MS1
39	26	CF32127-SD1 @5
40	27	CF32127-PDS1
41	28	1306285-07
42	29	1306261-01
43	30	1306281-03
44	31	CF32007-DUP1
45	32	CF32007-MS1
46	3	CCV1
47	1	CCB1
48	33	CF32007-SD1 @5
49	34	CF32007-PDS1
50	35	1306329-01
51	36	1306333-01
52	37	1306335-01
53	38	1306337-01
54	39	1306338-01
55	40	1306339-01
56	41	1306340-01
57	42	CF32127-BLK2
58	3	CCV1

Low for Tl

Re-run

Re-run

Analytical Sequence

Method : Everything - DV

Seq.	Loc.		Sample ID
59	1	QC	CCB1
60	43	+	1306356-01
61	44	+	1306356-02
62	45	+	1306356-03
63	46	+	CF3227-DUP2
64	47	+	CF32127-MS2
65	48	+	CF32127-SD2 @5
66	49	+	CF32127-PDS2
67	3	QC	CCV1
68	1	QC	CCB1
69	160	QC	IFA
70	159	QC	IFB
71	0	+	WASH

Seq.	Loc.	Sample ID
1	1	CAL1
2	2	CAL2
3	3	CAL3
4	4	CAL4
5	3	CCV1
6	1	CCB1
7	18	CF31807-PDS1
8	28	1306285-07
9	36	1306333-01
10	49	CF32127-PDS2
11	50	1306392-01
12	51	1306397-01
13	52	1306397-02
14	53	1306397-03
15	54	1306397-04
16	55	1306397-05
17	3	CCV1
18	1	CCB1
19	56	1306397-06
20	57	1306397-07
21	58	1306397-08
22	59	1306397-09
23	60	CF32533-DUP1
24	61	CF32533-MS1
25	62	CF32533-SD1 @5
26	63	1306397-10
27	64	1306397-11
28	65	1306397-12
29	3	CCV1
30	1	CCB1
31	66	CF32533-DUP2
32	67	CF32533-MS2
33	68	CF32533-SD2 @5
34	69	1306346-01
35	70	1306346-02
36	71	1306347-01
37	72	1306347-02
38	73	CF32408-DUP1
39	74	CF32408-MS1
40	75	CF32408-SD1 @5
41	3	CCV1
42	1	CCB1
43	76	CF32408-PDS1
44	77	1306347-03
45	78	1306351-01
46	79	1306351-02
47	80	1306351-03
48	81	1306363-01
49	82	1306363-02
50	83	1306363-03
51	84	CF32408-DUP2
52	85	CF32408-MS2
53	3	CCV1
54	1	CCB1
55	86	CF32408-SD2 @5
56	87	CF32408-PDS2
57	88	CF32515-BLK1
58	89	CF32515-BS1

Seq.	Loc.	Sample ID	
59	90	CF32515-BSD1	
60	91	1306367-01	
61	92	1306394-01	
62	93	1306394-02	
63	94	CF32515-BLK2	
64	95	CF32515-BLK3 @DIS	
65	3	CCV1	
66	1	CCB1	
67	96	1306375-01 @DIS	
68	97	1306381-01	
69	98	CF32515-DUP1	
70	99	CF32515-MS1	
71	100	CF32515-SD1 @5	
72	101	CF32515-PDS1	
73	102	1306383-01	
74	103	1306383-02	
75	104	1306383-03	
76	105	1306383-04	
77	3	CCV1	
78	1	CCB1	
79	106	1306383-05	
80	107	1306383-06	
81	108	1306399-01	
82	109	1306399-02	
83	110	1306405-01	
84	111	1306405-02	
85	112	1306405-03	
86	113	1306407-01	
87	114	1306407-02	
88	115	1306407-03	
89	3	CCV1	
90	1	CCB1	
91	116	CF32515-DUP2	
92	117	CF32515-MS2	
93	118	CF32515-SD2 @5	
94	119	CF32515-PDS2	
95	120	CF32509-BLK1	
96	121	CF32509-BS1	
97	122	CF32509-BSD1	
98	123	1306374-01	
99	124	1306374-02	
100	125	1306374-04	
101	3	CCV1	Low for Be & Cd
102	1	CCB1	
103	126	1306374-05	
104	127	1306374-06	
105	128	1306374-07	
106	129	1306374-08	
107	130	CF32509-DUP1	
108	131	CF32509-MS1	
109	132	CF32509-SD1 @5	
110	133	CF32509-PDS1	
111	134	1306384-01	
112	135	CF32509-DUP2	
113	3	CCV1	Low for Be & Cd
114	1	CCB1	
115	136	CF32509-MS2	
116	137	CF32509-SD2 @5	

Seq.	Loc.	Sample ID
117	138	CF32509-PDS2
118	139	1306384-02
119	140	1306384-03
120	141	1306384-04
121	142	1306384-06
122	143	1306384-07
123	144	1306384-08
124	145	1306384-09
125	3	CCV1 Low for Be & Cd, High for Tl
126	1	CCB1
127	146	CF32510-BLK1
128	147	CF32510-BS1
129	148	CF32510-BSD1
130	149	1306385-01
131	150	CF32510-DUP1
132	151	CF32510-MS1
133	152	CF32510-SD1 @5
134	153	CF32510-PDS1
135	154	1306385-02
136	155	1306385-03
137	3	CCV1 Low for Be & Cd
138	1	CCB1
139	156	1306385-04
140	157	1306385-05
141	158	1306385-06
142	9	1306385-07
143	10	1306385-08
144	11	1306385-09
145	12	1306385-10
146	13	1306385-11
147	14	1306385-12
148	15	1306385-13
149	3	CCV1 Low for Be & Cd
150	1	CCB1
151	16	1306396-01
152	17	CF32510-DUP2
153	18	CF32510-MS2
154	19	CF32510-SD2 @5
155	20	CF32510-PDS2
156	21	1306391-01
157	22	1306391-02
158	23	1306410-01
159	3	CCV1 Low for Be & Cd
160	1	CCB1
161	160	IFA
162	159	IFB
163	0	WASH

Reprocessing Begun

Logged In Analyst: ICP3

Technique: ICP Continuous

Results Data Set (original): 062513NAD

Results Library (original): C:\pe\ICP3\Results\Results.mdb

Results Data Set (reprocessed): 062513NADREP

Results Library (reprocessed): C:\pe\ICP3\Results\Results.mdb

Sequence No.: 1

Sample ID: CAL1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/25/2013 1:59:39 PM

Data Type: Reprocessed on 6/26/2013 10:56:16 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CAL1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Y 371.029	3405234.2	3405234.2	1.01 mg/L	14:01:44
1	Ag 328.068†	722.7	717.6	[0.00] mg/L	14:01:46
1	Al 237.313†	-433.9	-430.8	[0.00] mg/L	14:01:46
1	As 188.979†	0.6	0.6	[0.00] mg/L	14:01:56
1	B 249.677†	-12.2	-12.1	[0.00] mg/L	14:01:28
1	B 182.528†	-8.0	-7.9	[0.00] mg/L	14:01:56
1	Ba 233.527†	-79.1	-78.6	[0.00] mg/L	14:01:56
1	Be 313.107†	-1431.7	-1421.6	[0.00] mg/L	14:01:46
1	Ca 315.887†	-733.7	-728.5	[0.00] mg/L	14:01:46
1	Cd 228.802†	146.4	145.4	[0.00] mg/L	14:01:56
1	Co 228.616†	-165.3	-164.1	[0.00] mg/L	14:01:56
1	Cr 267.716†	696.9	692.0	[0.00] mg/L	14:01:46
1	Cu 324.752†	3972.7	3944.6	[0.00] mg/L	14:01:46
1	Fe 234.349†	5.8	5.8	[0.00] mg/L	14:01:28
1	K 766.490†	789.5	783.9	[0.00] mg/L	14:01:18
1	Li 670.784†	-253.1	-251.4	[0.00] mg/L	14:01:18
1	Mg 279.077†	304.5	302.3	[0.00] mg/L	14:01:46
1	Mn 257.610†	16104.5	15990.6	[0.00] mg/L	14:01:46
1	Mn 294.920†	-551.2	-547.3	[0.00] mg/L	14:01:46
1	Mo 202.031†	-7.9	-7.9	[0.00] mg/L	14:01:56
1	Na 589.592†	4249.7	4219.7	[0.00] mg/L	14:01:18
1	Ni 231.604†	165.4	164.3	[0.00] mg/L	14:01:46
1	P 214.914†	-45.3	-44.9	[0.00] mg/L	14:01:56
1	Pb 220.353†	174.5	173.3	[0.00] mg/L	14:01:56
1	Sb 206.836†	44.1	43.8	[0.00] mg/L	14:01:56
1	Se 196.026†	15.0	14.9	[0.00] mg/L	14:01:56
1	Sn 189.927†	34.8	34.5	[0.00] mg/L	14:01:56
1	Sr 407.771†	232.6	231.0	[0.00] mg/L	14:01:18
1	Ti 337.279†	-1162.1	-1153.9	[0.00] mg/L	14:01:46
1	Tl 190.801†	-5.5	-5.5	[0.00] mg/L	14:01:56
1	V 292.402†	-865.6	-859.5	[0.00] mg/L	14:01:46
1	Zn 213.857†	878.6	872.4	[0.00] mg/L	14:01:56
2	Y 371.029	3357099.2	3357099.2	0.993 mg/L	14:01:59
2	Ag 328.068†	750.6	756.0	[0.00] mg/L	14:02:01
2	Al 237.313†	-341.6	-344.1	[0.00] mg/L	14:02:01
2	As 188.979†	1.5	1.5	[0.00] mg/L	14:02:11
2	B 249.677†	-18.1	-18.3	[0.00] mg/L	14:01:40
2	B 182.528†	-5.9	-6.0	[0.00] mg/L	14:02:11
2	Ba 233.527†	-96.2	-96.9	[0.00] mg/L	14:02:11
2	Be 313.107†	-1433.7	-1444.0	[0.00] mg/L	14:02:01
2	Ca 315.887†	-702.4	-707.4	[0.00] mg/L	14:02:01
2	Cd 228.802†	148.4	149.5	[0.00] mg/L	14:02:11
2	Co 228.616†	-190.3	-191.7	[0.00] mg/L	14:02:11
2	Cr 267.716†	724.5	729.7	[0.00] mg/L	14:02:01
2	Cu 324.752†	3940.5	3968.7	[0.00] mg/L	14:02:01
2	Fe 234.349†	-9.0	-9.1	[0.00] mg/L	14:01:40
2	K 766.490†	701.3	706.3	[0.00] mg/L	14:01:30
2	Li 670.784†	-291.8	-293.9	[0.00] mg/L	14:01:30
2	Mg 279.077†	271.4	273.4	[0.00] mg/L	14:02:01
2	Mn 257.610†	16003.1	16117.8	[0.00] mg/L	14:02:01
2	Mn 294.920†	-728.7	-733.9	[0.00] mg/L	14:02:01

2	Mo 202.031†	-12.9	-13.0	[0.00]	mg/L	14:02:11
2	Na 589.592†	4203.1	4233.3	[0.00]	mg/L	14:01:30
2	Ni 231.604†	188.7	190.0	[0.00]	mg/L	14:02:01
2	P 214.914†	-46.8	-47.2	[0.00]	mg/L	14:02:11
2	Pb 220.353†	191.5	192.9	[0.00]	mg/L	14:02:11
2	Sb 206.836†	45.5	45.9	[0.00]	mg/L	14:02:11
2	Se 196.026†	18.7	18.9	[0.00]	mg/L	14:02:11
2	Sn 189.927†	40.1	40.4	[0.00]	mg/L	14:02:11
2	Sr 407.771†	258.4	260.3	[0.00]	mg/L	14:01:30
2	Ti 337.279†	-1431.7	-1441.9	[0.00]	mg/L	14:02:01
2	Tl 190.801†	-8.7	-8.7	[0.00]	mg/L	14:02:11
2	V 292.402†	-937.5	-944.2	[0.00]	mg/L	14:02:01
2	Zn 213.857†	860.3	866.4	[0.00]	mg/L	14:02:11

Mean Data: CAL1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3381166.7	34036.57	1.01%	1.000	mg/L
Ag 328.068†	736.8	27.18	3.69%	[0.00]	mg/L
Al 237.313†	-387.4	61.31	15.82%	[0.00]	mg/L
As 188.979†	1.0	0.63	60.94%	[0.00]	mg/L
B 249.677†	-15.2	4.35	28.60%	[0.00]	mg/L
B 182.528†	-7.0	1.38	19.89%	[0.00]	mg/L
Ba 233.527†	-87.7	12.97	14.78%	[0.00]	mg/L
Be 313.107†	-1432.8	15.85	1.11%	[0.00]	mg/L
Ca 315.887†	-718.0	14.94	2.08%	[0.00]	mg/L
Cd 228.802†	147.4	2.89	1.96%	[0.00]	mg/L
Co 228.616†	-177.9	19.49	10.95%	[0.00]	mg/L
Cr 267.716†	710.8	26.66	3.75%	[0.00]	mg/L
Cu 324.752†	3956.7	17.03	0.43%	[0.00]	mg/L
Fe 234.349†	-1.7	10.51	631.53%	[0.00]	mg/L
K 766.490†	745.1	54.87	7.36%	[0.00]	mg/L
Li 670.784†	-272.6	30.05	11.02%	[0.00]	mg/L
Mg 279.077†	287.9	20.46	7.11%	[0.00]	mg/L
Mn 257.610†	16054.2	89.91	0.56%	[0.00]	mg/L
Mn 294.920†	-640.6	131.97	20.60%	[0.00]	mg/L
Mo 202.031†	-10.4	3.60	34.55%	[0.00]	mg/L
Na 589.592†	4226.5	9.62	0.23%	[0.00]	mg/L
Ni 231.604†	177.1	18.23	10.29%	[0.00]	mg/L
P 214.914†	-46.0	1.57	3.41%	[0.00]	mg/L
Pb 220.353†	183.1	13.87	7.57%	[0.00]	mg/L
Sb 206.836†	44.8	1.49	3.32%	[0.00]	mg/L
Se 196.026†	16.9	2.83	16.78%	[0.00]	mg/L
Sn 189.927†	37.5	4.17	11.13%	[0.00]	mg/L
Sr 407.771†	245.6	20.73	8.44%	[0.00]	mg/L
Ti 337.279†	-1297.9	203.69	15.69%	[0.00]	mg/L
Tl 190.801†	-7.1	2.29	32.17%	[0.00]	mg/L
V 292.402†	-901.9	59.89	6.64%	[0.00]	mg/L
Zn 213.857†	869.4	4.23	0.49%	[0.00]	mg/L

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Sequence No.: 2	Autosampler Location: 2
Sample ID: CAL2	Date Collected: 6/25/2013 2:03:48 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:56:16 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CAL2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 371.029	3387739.4	3387739.4	1.00	mg/L	14:05:53
1	Ag 328.068†	11781.2	11021.6	[0.0500]	mg/L	14:05:56
1	Al 237.313†	5318.8	5695.9	[0.5000]	mg/L	14:06:06
1	As 188.979†	176.6	175.2	[0.1000]	mg/L	14:06:06
1	B 249.677†	232.5	247.3	[0.1000]	mg/L	14:05:37
1	B 182.528†	118.5	125.2	[0.1000]	mg/L	14:06:06
1	Ba 233.527†	13752.1	13813.2	[0.1000]	mg/L	14:05:56
1	Be 313.107†	28177.5	29555.6	[0.0100]	mg/L	14:05:56
1	Ca 315.887†	116899.1	117390.2	[1.0000]	mg/L	14:05:56
1	Cd 228.802†	2084.4	1932.9	[0.0500]	mg/L	14:06:06

1	Co 228.616†	6654.5	6819.5	[0.1000]	mg/L	14:06:06
1	Cr 267.716†	14537.2	13798.2	[0.1000]	mg/L	14:05:56
1	Cu 324.752†	28539.7	24527.6	[0.1000]	mg/L	14:05:56
1	Fe 234.349†	1037.7	1037.3	[0.5000]	mg/L	14:05:37
1	K 766.490†	12785.2	12015.4	[5.0000]	mg/L	14:05:27
1	Li 670.784†	4153.0	4417.5	[0.1000]	mg/L	14:05:27
1	Mg 279.077†	16738.9	16418.6	[1.0000]	mg/L	14:05:56
1	Mn 257.610†	115455.6	99177.4	[0.1000]	mg/L	14:05:56
1	Mn 294.920†	49573.3	50117.7	[0.1000]	mg/L	14:05:56
1	Mo 202.031†	2736.0	2741.2	[0.1000]	mg/L	14:06:06
1	Na 589.592†	42954.8	38645.0	[5.0000]	mg/L	14:05:27
1	Ni 231.604†	5918.6	5730.0	[0.1000]	mg/L	14:05:56
1	P 214.914†	1887.4	1929.8	[1.0000]	mg/L	14:06:06
1	Pb 220.353†	1927.3	1740.5	[0.1000]	mg/L	14:06:06
1	Sb 206.836†	292.6	247.2	[0.1000]	mg/L	14:06:06
1	Se 196.026†	394.6	377.0	[0.2000]	mg/L	14:06:06
1	Sn 189.927†	880.0	840.8	[0.1000]	mg/L	14:06:06
1	Sr 407.771†	12157.8	11888.6	[0.0100]	mg/L	14:05:27
1	Ti 337.279†	98670.3	99776.8	[0.1000]	mg/L	14:05:56
1	Tl 190.801†	135.3	142.2	[0.1000]	mg/L	14:06:06
1	V 292.402†	25503.3	26355.6	[0.1000]	mg/L	14:05:56
1	Zn 213.857†	18088.8	17184.3	[0.1000]	mg/L	14:05:56
2	Y 371.029	3376853.0	3376853.0	0.999	mg/L	14:06:08
2	Ag 328.068†	11807.6	11085.9	[0.0500]	mg/L	14:06:10
2	Al 237.313†	5237.4	5631.5	[0.5000]	mg/L	14:06:21
2	As 188.979†	166.9	166.0	[0.1000]	mg/L	14:06:21
2	B 249.677†	236.0	251.5	[0.1000]	mg/L	14:05:50
2	B 182.528†	116.1	123.2	[0.1000]	mg/L	14:06:21
2	Ba 233.527†	13938.1	14043.6	[0.1000]	mg/L	14:06:10
2	Be 313.107†	28601.0	30070.3	[0.0100]	mg/L	14:06:10
2	Ca 315.887†	118487.9	119357.2	[1.0000]	mg/L	14:06:10
2	Cd 228.802†	2071.4	1926.6	[0.0500]	mg/L	14:06:21
2	Co 228.616†	6578.5	6764.8	[0.1000]	mg/L	14:06:21
2	Cr 267.716†	14731.2	14039.2	[0.1000]	mg/L	14:06:10
2	Cu 324.752†	28848.3	24928.4	[0.1000]	mg/L	14:06:10
2	Fe 234.349†	1040.0	1043.0	[0.5000]	mg/L	14:05:50
2	K 766.490†	12916.1	12187.5	[5.0000]	mg/L	14:05:39
2	Li 670.784†	4226.1	4504.1	[0.1000]	mg/L	14:05:39
2	Mg 279.077†	16972.7	16706.5	[1.0000]	mg/L	14:06:10
2	Mn 257.610†	116985.2	101080.4	[0.1000]	mg/L	14:06:10
2	Mn 294.920†	50433.6	51138.6	[0.1000]	mg/L	14:06:10
2	Mo 202.031†	2714.3	2728.2	[0.1000]	mg/L	14:06:21
2	Na 589.592†	43531.2	39360.3	[5.0000]	mg/L	14:05:39
2	Ni 231.604†	5985.3	5815.8	[0.1000]	mg/L	14:06:10
2	P 214.914†	1876.7	1925.1	[1.0000]	mg/L	14:06:21
2	Pb 220.353†	1939.9	1759.2	[0.1000]	mg/L	14:06:21
2	Sb 206.836†	293.4	249.0	[0.1000]	mg/L	14:06:21
2	Se 196.026†	392.3	376.0	[0.2000]	mg/L	14:06:21
2	Sn 189.927†	877.8	841.5	[0.1000]	mg/L	14:06:21
2	Sr 407.771†	12366.0	12136.1	[0.0100]	mg/L	14:05:39
2	Ti 337.279†	99934.5	101360.1	[0.1000]	mg/L	14:06:10
2	Tl 190.801†	132.3	139.6	[0.1000]	mg/L	14:06:21
2	V 292.402†	25831.5	26766.3	[0.1000]	mg/L	14:06:10
2	Zn 213.857†	18356.3	17510.4	[0.1000]	mg/L	14:06:10

Mean Data: CAL2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3382296.2	7697.82	0.23%	1.00	mg/L
Ag 328.068†	11053.8	45.52	0.41%	[0.0500]	mg/L
Al 237.313†	5663.7	45.56	0.80%	[0.5000]	mg/L
As 188.979†	170.6	6.52	3.82%	[0.1000]	mg/L
B 249.677†	249.4	2.99	1.20%	[0.1000]	mg/L
B 182.528†	124.2	1.37	1.10%	[0.1000]	mg/L
Ba 233.527†	13928.4	162.94	1.17%	[0.1000]	mg/L
Be 313.107†	29813.0	363.94	1.22%	[0.0100]	mg/L
Ca 315.887†	118373.7	1390.84	1.17%	[1.0000]	mg/L
Cd 228.802†	1929.8	4.43	0.23%	[0.0500]	mg/L
Co 228.616†	6792.2	38.65	0.57%	[0.1000]	mg/L
Cr 267.716†	13918.7	170.41	1.22%	[0.1000]	mg/L
Cu 324.752†	24728.0	283.41	1.15%	[0.1000]	mg/L
Fe 234.349†	1040.2	4.03	0.39%	[0.5000]	mg/L

K 766.490†	12101.4	121.70	1.01%	[5.0000]	mg/L
Li 670.784†	4460.8	61.19	1.37%	[0.1000]	mg/L
Mg 279.077†	16562.6	203.64	1.23%	[1.0000]	mg/L
Mn 257.610†	100128.9	1345.64	1.34%	[0.1000]	mg/L
Mn 294.920†	50628.2	721.91	1.43%	[0.1000]	mg/L
Mo 202.031†	2734.7	9.16	0.34%	[0.1000]	mg/L
Na 589.592†	39002.7	505.81	1.30%	[5.0000]	mg/L
Ni 231.604†	5772.9	60.72	1.05%	[0.1000]	mg/L
P 214.914†	1927.5	3.30	0.17%	[1.0000]	mg/L
Pb 220.353†	1749.8	13.25	0.76%	[0.1000]	mg/L
Sb 206.836†	248.1	1.23	0.50%	[0.1000]	mg/L
Se 196.026†	376.5	0.71	0.19%	[0.2000]	mg/L
Sn 189.927†	841.1	0.46	0.06%	[0.1000]	mg/L
Sr 407.771†	12012.4	175.05	1.46%	[0.0100]	mg/L
Ti 337.279†	100568.4	1119.56	1.11%	[0.1000]	mg/L
Tl 190.801†	140.9	1.81	1.29%	[0.1000]	mg/L
V 292.402†	26561.0	290.40	1.09%	[0.1000]	mg/L
Zn 213.857†	17347.3	230.54	1.33%	[0.1000]	mg/L

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Sequence No.: 3                               Autosampler Location: 3
Sample ID: CAL3                               Date Collected: 6/25/2013 2:07:58 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:21 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: CAL3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Y 371.029	3399034.4	3399034.4	1.01 mg/L	14:09:53
1	Ag 328.068†	51307.4	50300.9	[0.2500] mg/L	14:09:53
1	Al 237.313†	26275.8	26525.1	[2.5000] mg/L	14:10:03
1	As 188.979†	784.1	779.0	[0.5000] mg/L	14:10:03
1	B 249.677†	1171.6	1180.6	[0.5000] mg/L	14:09:43
1	B 182.528†	577.5	581.5	[0.5000] mg/L	14:10:03
1	Ba 233.527†	64576.1	64324.4	[0.5000] mg/L	14:09:53
1	Be 313.107†	135980.8	136698.7	[0.0500] mg/L	14:09:53
1	Ca 315.887†	545168.6	543020.8	[5.0000] mg/L	14:09:53
1	Cd 228.802†	9154.7	8959.1	[0.2500] mg/L	14:10:03
1	Co 228.616†	31004.5	31019.4	[0.5000] mg/L	14:10:03
1	Cr 267.716†	65079.1	64026.2	[0.5000] mg/L	14:09:53
1	Cu 324.752†	118122.6	113545.0	[0.5000] mg/L	14:09:53
1	Fe 234.349†	4951.0	4926.6	[2.5000] mg/L	14:09:43
1	K 766.490†	57837.6	56788.5	[25.000] mg/L	14:09:41
1	Li 670.784†	20453.8	20618.9	[0.5000] mg/L	14:09:43
1	Mg 279.077†	75804.2	75117.8	[5.0000] mg/L	14:09:53
1	Mn 257.610†	471350.9	452818.9	[0.5000] mg/L	14:09:53
1	Mn 294.920†	228826.0	228263.7	[0.5000] mg/L	14:09:53
1	Mo 202.031†	12868.1	12810.8	[0.5000] mg/L	14:10:03
1	Na 589.592†	187296.4	182085.3	[25.000] mg/L	14:09:41
1	Ni 231.604†	26660.5	26343.2	[0.5000] mg/L	14:09:53
1	P 214.914†	9037.2	9035.7	[5.0000] mg/L	14:10:03
1	Pb 220.353†	8537.7	8309.7	[0.5000] mg/L	14:10:03
1	Sb 206.836†	1214.6	1163.4	[0.5000] mg/L	14:10:03
1	Se 196.026†	1767.5	1741.4	[1.0000] mg/L	14:10:03
1	Sn 189.927†	4016.7	3958.2	[0.5000] mg/L	14:10:03
1	Sr 407.771†	58268.8	57716.8	[0.0500] mg/L	14:09:41
1	Ti 337.279†	471114.0	469935.4	[0.5000] mg/L	14:09:53
1	Tl 190.801†	643.1	646.8	[0.5000] mg/L	14:10:03
1	V 292.402†	123130.9	123385.5	[0.5000] mg/L	14:09:53
1	Zn 213.857†	80497.5	79204.9	[0.5000] mg/L	14:09:53
2	Y 371.029	3399877.8	3399877.8	1.01 mg/L	14:10:07
2	Ag 328.068†	51275.9	50256.9	[0.2500] mg/L	14:10:07
2	Al 237.313†	26275.2	26518.0	[2.5000] mg/L	14:10:17
2	As 188.979†	793.8	788.4	[0.5000] mg/L	14:10:17
2	B 249.677†	1186.2	1194.9	[0.5000] mg/L	14:09:48
2	B 182.528†	577.5	581.3	[0.5000] mg/L	14:10:17
2	Ba 233.527†	64441.6	64174.7	[0.5000] mg/L	14:10:07
2	Be 313.107†	135510.6	136197.6	[0.0500] mg/L	14:10:07
2	Ca 315.887†	543769.7	541495.1	[5.0000] mg/L	14:10:07
2	Cd 228.802†	9177.2	8979.3	[0.2500] mg/L	14:10:17

2	Co 228.616†	31093.5	31100.3	[0.5000]	mg/L	14:10:17
2	Cr 267.716†	65088.2	64019.2	[0.5000]	mg/L	14:10:07
2	Cu 324.752†	117467.4	112864.2	[0.5000]	mg/L	14:10:07
2	Fe 234.349†	4881.9	4856.7	[2.5000]	mg/L	14:09:48
2	K 766.490†	56718.6	55661.4	[25.000]	mg/L	14:09:46
2	Li 670.784†	20303.0	20463.9	[0.5000]	mg/L	14:09:48
2	Mg 279.077†	75701.9	74997.4	[5.0000]	mg/L	14:10:07
2	Mn 257.610†	470160.1	451518.3	[0.5000]	mg/L	14:10:07
2	Mn 294.920†	228456.9	227840.2	[0.5000]	mg/L	14:10:07
2	Mo 202.031†	12894.7	12834.2	[0.5000]	mg/L	14:10:17
2	Na 589.592†	184001.0	178761.8	[25.000]	mg/L	14:09:46
2	Ni 231.604†	26559.0	26235.7	[0.5000]	mg/L	14:10:07
2	P 214.914†	9080.0	9076.1	[5.0000]	mg/L	14:10:17
2	Pb 220.353†	8563.1	8332.8	[0.5000]	mg/L	14:10:17
2	Sb 206.836†	1216.2	1164.7	[0.5000]	mg/L	14:10:17
2	Se 196.026†	1766.8	1740.2	[1.0000]	mg/L	14:10:17
2	Sn 189.927†	4024.3	3964.7	[0.5000]	mg/L	14:10:17
2	Sr 407.771†	56876.3	56317.6	[0.0500]	mg/L	14:09:46
2	Ti 337.279†	470015.3	468726.5	[0.5000]	mg/L	14:10:07
2	Tl 190.801†	649.7	653.2	[0.5000]	mg/L	14:10:17
2	V 292.402†	122980.0	123205.0	[0.5000]	mg/L	14:10:07
2	Zn 213.857†	80293.7	78982.4	[0.5000]	mg/L	14:10:07

Mean Data: CAL3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units	Calib
Y 371.029	3399456.1	596.35	0.02%	1.01	mg/L	
Ag 328.068†	50278.9	31.06	0.06%	[0.2500]	mg/L	
Al 237.313†	26521.5	4.99	0.02%	[2.5000]	mg/L	
As 188.979†	783.7	6.68	0.85%	[0.5000]	mg/L	
B 249.677†	1187.7	10.10	0.85%	[0.5000]	mg/L	
B 182.528†	581.4	0.14	0.02%	[0.5000]	mg/L	
Ba 233.527†	64249.5	105.83	0.16%	[0.5000]	mg/L	
Be 313.107†	136448.2	354.32	0.26%	[0.0500]	mg/L	
Ca 315.887†	542257.9	1078.83	0.20%	[5.0000]	mg/L	
Cd 228.802†	8969.2	14.25	0.16%	[0.2500]	mg/L	
Co 228.616†	31059.9	57.19	0.18%	[0.5000]	mg/L	
Cr 267.716†	64022.7	4.96	0.01%	[0.5000]	mg/L	
Cu 324.752†	113204.6	481.37	0.43%	[0.5000]	mg/L	
Fe 234.349†	4891.7	49.45	1.01%	[2.5000]	mg/L	
K 766.490†	56224.9	796.99	1.42%	[25.000]	mg/L	
Li 670.784†	20541.4	109.60	0.53%	[0.5000]	mg/L	
Mg 279.077†	75057.6	85.14	0.11%	[5.0000]	mg/L	
Mn 257.610†	452168.6	919.65	0.20%	[0.5000]	mg/L	
Mn 294.920†	228051.9	299.47	0.13%	[0.5000]	mg/L	
Mo 202.031†	12822.5	16.50	0.13%	[0.5000]	mg/L	
Na 589.592†	180423.6	2350.05	1.30%	[25.000]	mg/L	
Ni 231.604†	26289.4	76.04	0.29%	[0.5000]	mg/L	
P 214.914†	9055.9	28.57	0.32%	[5.0000]	mg/L	
Pb 220.353†	8321.3	16.34	0.20%	[0.5000]	mg/L	
Sb 206.836†	1164.1	0.89	0.08%	[0.5000]	mg/L	
Se 196.026†	1740.8	0.81	0.05%	[1.0000]	mg/L	
Sn 189.927†	3961.4	4.61	0.12%	[0.5000]	mg/L	
Sr 407.771†	57017.2	989.38	1.74%	[0.0500]	mg/L	
Ti 337.279†	469330.9	854.80	0.18%	[0.5000]	mg/L	
Tl 190.801†	650.0	4.51	0.69%	[0.5000]	mg/L	
V 292.402†	123295.3	127.67	0.10%	[0.5000]	mg/L	
Zn 213.857†	79093.7	157.34	0.20%	[0.5000]	mg/L	

Sequence No.: 4

Sample ID: CAL4

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/25/2013 2:11:56 PM

Data Type: Reprocessed on 6/26/2013 10:56:21 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CAL4

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Units	Analysis Time
1	Y 371.029	3344029.9	3344029.9	0.989	mg/L	14:13:50

1	Ag 328.068†	104424.8	104847.7	[0.5000]	mg/L	14:13:50
1	Al 237.313†	53807.6	54792.6	[5.0000]	mg/L	14:13:50
1	As 188.979†	1620.5	1637.5	[1.0000]	mg/L	14:14:00
1	B 249.677†	2407.3	2449.2	[1.0000]	mg/L	14:13:40
1	B 182.528†	1206.1	1226.5	[1.0000]	mg/L	14:14:00
1	Ba 233.527†	130978.1	132520.4	[1.0000]	mg/L	14:13:50
1	Be 313.107†	281082.4	285636.7	[0.1000]	mg/L	14:13:50
1	Ca 315.887†	1111595.5	1124658.1	[10.000]	mg/L	14:13:50
1	Cd 228.802†	18699.4	18759.6	[0.5000]	mg/L	14:14:00
1	Co 228.616†	62160.2	63028.4	[1.0000]	mg/L	14:13:50
1	Cr 267.716†	131495.3	132244.8	[1.0000]	mg/L	14:13:50
1	Cu 324.752†	236560.4	235230.8	[1.0000]	mg/L	14:13:50
1	Fe 234.349†	9952.8	10065.0	[5.0000]	mg/L	14:13:40
1	K 766.490†	115349.0	115884.9	[50.000]	mg/L	14:13:38
1	Li 670.784†	41986.6	42725.5	[1.0000]	mg/L	14:13:40
1	Mg 279.077†	153806.0	155226.2	[10.000]	mg/L	14:13:50
1	Mn 257.610†	940809.7	935203.5	[1.0000]	mg/L	14:13:50
1	Mn 294.920†	466068.1	471884.5	[1.0000]	mg/L	14:13:50
1	Mo 202.031†	26398.6	26702.2	[1.0000]	mg/L	14:14:00
1	Na 589.592†	369263.6	369137.9	[50.000]	mg/L	14:13:38
1	Ni 231.604†	53707.8	54127.1	[1.0000]	mg/L	14:13:50
1	P 214.914†	18885.9	19141.7	[10.000]	mg/L	14:14:00
1	Pb 220.353†	17112.6	17119.5	[1.0000]	mg/L	14:14:00
1	Sb 206.836†	2469.4	2452.0	[1.0000]	mg/L	14:14:00
1	Se 196.026†	3597.1	3620.2	[2.0000]	mg/L	14:14:00
1	Sn 189.927†	8098.1	8150.6	[1.0000]	mg/L	14:14:00
1	Sr 407.771†	115393.2	116429.1	[0.1000]	mg/L	14:13:38
1	Ti 337.279†	964753.7	976765.6	[1.0000]	mg/L	14:13:50
1	Tl 190.801†	1314.4	1336.1	[1.0000]	mg/L	14:14:00
1	V 292.402†	253369.0	257084.7	[1.0000]	mg/L	14:13:50
1	Zn 213.857†	162819.5	163758.3	[1.0000]	mg/L	14:13:50
2	Y 371.029	3321159.5	3321159.5	0.982	mg/L	14:14:04
2	Ag 328.068†	103566.1	104700.6	[0.5000]	mg/L	14:14:04
2	Al 237.313†	53396.2	54748.4	[5.0000]	mg/L	14:14:04
2	As 188.979†	1621.9	1650.2	[1.0000]	mg/L	14:14:14
2	B 249.677†	2409.5	2468.3	[1.0000]	mg/L	14:13:44
2	B 182.528†	1190.9	1219.4	[1.0000]	mg/L	14:14:14
2	Ba 233.527†	130164.1	132603.7	[1.0000]	mg/L	14:14:04
2	Be 313.107†	278870.6	285342.0	[0.1000]	mg/L	14:14:04
2	Ca 315.887†	1101449.2	1122068.3	[10.000]	mg/L	14:14:04
2	Cd 228.802†	18625.9	18815.0	[0.5000]	mg/L	14:14:14
2	Co 228.616†	61774.7	63068.8	[1.0000]	mg/L	14:14:04
2	Cr 267.716†	130379.4	132024.3	[1.0000]	mg/L	14:14:04
2	Cu 324.752†	235286.7	235581.2	[1.0000]	mg/L	14:14:04
2	Fe 234.349†	10031.0	10213.9	[5.0000]	mg/L	14:13:44
2	K 766.490†	118068.0	119456.2	[50.000]	mg/L	14:13:42
2	Li 670.784†	41870.0	42899.1	[1.0000]	mg/L	14:13:44
2	Mg 279.077†	152130.0	154590.9	[10.000]	mg/L	14:14:04
2	Mn 257.610†	934510.6	935341.3	[1.0000]	mg/L	14:14:04
2	Mn 294.920†	462614.9	471614.0	[1.0000]	mg/L	14:14:04
2	Mo 202.031†	26285.6	26771.0	[1.0000]	mg/L	14:14:14
2	Na 589.592†	378315.7	380924.6	[50.000]	mg/L	14:13:42
2	Ni 231.604†	53166.1	53949.6	[1.0000]	mg/L	14:14:04
2	P 214.914†	18799.1	19184.8	[10.000]	mg/L	14:14:14
2	Pb 220.353†	17074.9	17200.3	[1.0000]	mg/L	14:14:14
2	Sb 206.836†	2458.5	2458.2	[1.0000]	mg/L	14:14:14
2	Se 196.026†	3595.1	3643.2	[2.0000]	mg/L	14:14:14
2	Sn 189.927†	8089.8	8198.5	[1.0000]	mg/L	14:14:14
2	Sr 407.771†	118824.9	120726.3	[0.1000]	mg/L	14:13:42
2	Ti 337.279†	964822.0	983552.5	[1.0000]	mg/L	14:14:04
2	Tl 190.801†	1297.3	1327.9	[1.0000]	mg/L	14:14:14
2	V 292.402†	251559.3	257006.4	[1.0000]	mg/L	14:14:04
2	Zn 213.857†	161598.0	163648.4	[1.0000]	mg/L	14:14:04

Mean Data: CAL4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3332594.7	16171.82	0.49%	0.986	mg/L
Ag 328.068†	104774.1	104.00	0.10%	[0.5000]	mg/L
Al 237.313†	54770.5	31.29	0.06%	[5.0000]	mg/L
As 188.979†	1643.8	9.01	0.55%	[1.0000]	mg/L
B 249.677†	2458.7	13.49	0.55%	[1.0000]	mg/L

B 182.528†	1222.9	5.03	0.41%	[1.0000]	mg/L
Ba 233.527†	132562.1	58.91	0.04%	[1.0000]	mg/L
Be 313.107†	285489.4	208.40	0.07%	[0.1000]	mg/L
Ca 315.887†	1123363.2	1831.31	0.16%	[10.000]	mg/L
Cd 228.802†	18787.3	39.15	0.21%	[0.5000]	mg/L
Co 228.616†	63048.6	28.56	0.05%	[1.0000]	mg/L
Cr 267.716†	132134.6	155.94	0.12%	[1.0000]	mg/L
Cu 324.752†	235406.0	247.76	0.11%	[1.0000]	mg/L
Fe 234.349†	10139.4	105.34	1.04%	[5.0000]	mg/L
K 766.490†	117670.5	2525.22	2.15%	[50.000]	mg/L
Li 670.784†	42812.3	122.76	0.29%	[1.0000]	mg/L
Mg 279.077†	154908.6	449.27	0.29%	[10.000]	mg/L
Mn 257.610†	935272.4	97.42	0.01%	[1.0000]	mg/L
Mn 294.920†	471749.3	191.27	0.04%	[1.0000]	mg/L
Mo 202.031†	26736.6	48.61	0.18%	[1.0000]	mg/L
Na 589.592†	375031.3	8334.46	2.22%	[50.000]	mg/L
Ni 231.604†	54038.3	125.52	0.23%	[1.0000]	mg/L
P 214.914†	19163.2	30.47	0.16%	[10.000]	mg/L
Pb 220.353†	17159.9	57.10	0.33%	[1.0000]	mg/L
Sb 206.836†	2455.1	4.34	0.18%	[1.0000]	mg/L
Se 196.026†	3631.7	16.24	0.45%	[2.0000]	mg/L
Sn 189.927†	8174.5	33.88	0.41%	[1.0000]	mg/L
Sr 407.771†	118577.7	3038.54	2.56%	[0.1000]	mg/L
Ti 337.279†	980159.0	4799.04	0.49%	[1.0000]	mg/L
Tl 190.801†	1332.0	5.79	0.43%	[1.0000]	mg/L
V 292.402†	257045.5	55.34	0.02%	[1.0000]	mg/L
Zn 213.857†	163703.3	77.69	0.05%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-135.4	208300	0.00000	0.999706	
Al 237.313	3	Lin, Calc Int	-77.4	10910	0.00000	0.999828	
As 188.979	3	Lin, Calc Int	-4.3	1635	0.00000	0.999640	
B 249.677	3	Lin, Calc Int	-6.2	2450	0.00000	0.999820	
B 182.528	3	Lin, Calc Int	-4.7	1217	0.00000	0.999625	
Ba 233.527	3	Lin, Calc Int	-78.6	131900	0.00000	0.999821	
Be 313.107	3	Lin, Calc Int	-607.2	2839000	0.00000	0.999667	
Ca 315.887	3	Lin, Calc Int	-924.9	111700	0.00000	0.999776	
Cd 228.802	3	Lin, Calc Int	-56.1	37390	0.00000	0.999671	
Co 228.616	3	Lin, Calc Int	130.0	62740	0.00000	0.999919	
Cr 267.716	3	Lin, Calc Int	-66.4	131500	0.00000	0.999816	
Cu 324.752	3	Lin, Calc Int	-307.7	234100	0.00000	0.999737	
Fe 234.349	3	Lin, Calc Int	-21.4	2020	0.00000	0.999798	
K 766.490	3	Lin, Calc Int	-335.9	2342	0.00000	0.999681	
Li 670.784	3	Lin, Calc Int	-80.8	42590	0.00000	0.999720	
Mg 279.077	3	Lin, Calc Int	30.8	15400	0.00000	0.999798	
Mn 257.610	3	Lin, Calc Int	59.2	929600	0.00000	0.999773	
Mn 294.920	3	Lin, Calc Int	80.7	468800	0.00000	0.999769	
Mo 202.031	3	Lin, Calc Int	-74.2	26620	0.00000	0.999733	
Na 589.592	3	Lin, Calc Int	-650.3	7463	0.00000	0.999754	
Ni 231.604	3	Lin, Calc Int	28.3	53740	0.00000	0.999838	
P 214.914	3	Lin, Calc Int	-92.6	1907	0.00000	0.999545	
Pb 220.353	3	Lin, Calc Int	-33.0	17100	0.00000	0.999853	
Sb 206.836	3	Lin, Calc Int	-10.6	2444	0.00000	0.999591	
Se 196.026	3	Lin, Calc Int	-8.0	1807	0.00000	0.999713	
Sn 189.927	3	Lin, Calc Int	-12.8	8143	0.00000	0.999840	
Sr 407.771	3	Lin, Calc Int	-352.8	1181000	0.00000	0.999772	
Ti 337.279	3	Lin, Calc Int	-2716.4	975600	0.00000	0.999711	
Tl 190.801	3	Lin, Calc Int	0.4	1326	0.00000	0.999875	
V 292.402	3	Lin, Calc Int	-589.8	255800	0.00000	0.999725	
Zn 213.857	3	Lin, Calc Int	-78.2	162800	0.00000	0.999780	

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Sequence No.: 5	Autosampler Location: 3
Sample ID: ICV1	Date Collected: 6/25/2013 2:15:53 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:56:22 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: ICV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3328119.2	3328119.2	0.984	mg/L			14:17:45
1	Ag 328.068†	50279.9	50344.5	0.2425	mg/L	0.2425	mg/L	14:17:45
1	Al 237.313†	25728.8	26526.4	2.441	mg/L	2.441	mg/L	14:17:55
1	As 188.979†	770.7	782.0	0.4802	mg/L	0.4802	mg/L	14:17:55
1	B 249.677†	1152.6	1186.2	0.4873	mg/L	0.4873	mg/L	14:17:35
1	B 182.528†	570.7	586.8	0.4860	mg/L	0.4860	mg/L	14:17:55
1	Ba 233.527†	63117.2	64211.0	0.4874	mg/L	0.4874	mg/L	14:17:45
1	Be 313.107†	134187.1	137758.7	0.0487	mg/L	0.0487	mg/L	14:17:45
1	Ca 315.887†	526416.7	535525.3	4.803	mg/L	4.803	mg/L	14:17:45
1	Cd 228.802†	9123.9	9121.9	0.2454	mg/L	0.2454	mg/L	14:17:55
1	Co 228.616†	30421.8	31084.7	0.4926	mg/L	0.4926	mg/L	14:17:55
1	Cr 267.716†	63426.5	63726.7	0.4856	mg/L	0.4856	mg/L	14:17:45
1	Cu 324.752†	115218.8	113098.6	0.4847	mg/L	0.4847	mg/L	14:17:45
1	Fe 234.349†	4744.2	4821.5	2.383	mg/L	2.383	mg/L	14:17:35
1	K 766.490†	56408.1	56562.1	24.30	mg/L	24.30	mg/L	14:17:33
1	Li 670.784†	19841.8	20430.7	0.4816	mg/L	0.4816	mg/L	14:17:35
1	Mg 279.077†	73573.2	74458.0	4.834	mg/L	4.834	mg/L	14:17:45
1	Mn 257.610†	460848.2	452139.5	0.4858	mg/L	0.4858	mg/L	14:17:45
1	Mn 294.920†	223757.3	227964.4	0.4861	mg/L	0.4861	mg/L	14:17:45
1	Mo 202.031†	12654.5	12866.6	0.4831	mg/L	0.4831	mg/L	14:17:55
1	Na 589.592†	182213.0	180890.8	24.32	mg/L	24.32	mg/L	14:17:33
1	Ni 231.604†	26030.6	26268.4	0.4890	mg/L	0.4890	mg/L	14:17:45
1	P 214.914†	8868.1	9055.5	4.789	mg/L	4.789	mg/L	14:17:55
1	Pb 220.353†	8379.0	8329.4	0.4901	mg/L	0.4901	mg/L	14:17:55
1	Sb 206.836†	1207.3	1181.7	0.4876	mg/L	0.4876	mg/L	14:17:55
1	Se 196.026†	1720.0	1730.5	0.9625	mg/L	0.9625	mg/L	14:17:55
1	Sn 189.927†	3920.3	3945.3	0.4891	mg/L	0.4891	mg/L	14:17:55
1	Sr 407.771†	55653.6	56295.0	0.0480	mg/L	0.0480	mg/L	14:17:33
1	Ti 337.279†	460226.9	468860.5	0.4834	mg/L	0.4834	mg/L	14:17:45
1	Tl 190.801†	629.1	646.2	0.4831	mg/L	0.4831	mg/L	14:17:55
1	V 292.402†	120461.5	123283.4	0.4919	mg/L	0.4919	mg/L	14:17:45
1	Zn 213.857†	78798.1	79184.7	0.4828	mg/L	0.4828	mg/L	14:17:45
2	Y 371.029	3351447.2	3351447.2	0.991	mg/L			14:17:59
2	Ag 328.068†	50744.0	50457.2	0.2430	mg/L	0.2430	mg/L	14:17:59
2	Al 237.313†	25851.7	26468.4	2.435	mg/L	2.435	mg/L	14:18:09
2	As 188.979†	777.6	783.4	0.4811	mg/L	0.4811	mg/L	14:18:09
2	B 249.677†	1126.6	1151.8	0.4733	mg/L	0.4733	mg/L	14:17:40
2	B 182.528†	568.3	580.3	0.4807	mg/L	0.4807	mg/L	14:18:09
2	Ba 233.527†	63610.8	64262.6	0.4878	mg/L	0.4878	mg/L	14:17:59
2	Be 313.107†	135033.8	137664.0	0.0486	mg/L	0.0486	mg/L	14:17:59
2	Ca 315.887†	530027.5	535445.6	4.802	mg/L	4.802	mg/L	14:17:59
2	Cd 228.802†	9149.2	9082.9	0.2444	mg/L	0.2444	mg/L	14:18:09
2	Co 228.616†	30595.7	31044.9	0.4920	mg/L	0.4920	mg/L	14:18:09
2	Cr 267.716†	63910.6	63766.5	0.4859	mg/L	0.4859	mg/L	14:17:59
2	Cu 324.752†	115812.5	112882.8	0.4838	mg/L	0.4838	mg/L	14:17:59
2	Fe 234.349†	4721.8	4765.3	2.355	mg/L	2.355	mg/L	14:17:40
2	K 766.490†	56309.7	56064.0	24.08	mg/L	24.08	mg/L	14:17:38
2	Li 670.784†	19757.9	20205.7	0.4764	mg/L	0.4764	mg/L	14:17:40
2	Mg 279.077†	74076.2	74445.2	4.833	mg/L	4.833	mg/L	14:17:59
2	Mn 257.610†	464446.0	452510.4	0.4862	mg/L	0.4862	mg/L	14:17:59
2	Mn 294.920†	225136.0	227773.0	0.4857	mg/L	0.4857	mg/L	14:17:59
2	Mo 202.031†	12702.0	12825.0	0.4815	mg/L	0.4815	mg/L	14:18:09
2	Na 589.592†	181731.2	179116.2	24.09	mg/L	24.09	mg/L	14:17:38
2	Ni 231.604†	26113.2	26167.6	0.4871	mg/L	0.4871	mg/L	14:17:59
2	P 214.914†	8940.4	9065.7	4.794	mg/L	4.794	mg/L	14:18:09
2	Pb 220.353†	8409.7	8301.2	0.4884	mg/L	0.4884	mg/L	14:18:09
2	Sb 206.836†	1197.2	1163.0	0.4799	mg/L	0.4799	mg/L	14:18:09
2	Se 196.026†	1736.4	1734.9	0.9649	mg/L	0.9649	mg/L	14:18:09
2	Sn 189.927†	3957.9	3955.6	0.4903	mg/L	0.4903	mg/L	14:18:09
2	Sr 407.771†	55695.3	55943.5	0.0477	mg/L	0.0477	mg/L	14:17:38
2	Ti 337.279†	463163.8	468568.9	0.4831	mg/L	0.4831	mg/L	14:17:59
2	Tl 190.801†	631.9	644.6	0.4819	mg/L	0.4819	mg/L	14:18:09
2	V 292.402†	121268.5	123245.7	0.4917	mg/L	0.4917	mg/L	14:17:59
2	Zn 213.857†	79319.9	79153.8	0.4826	mg/L	0.4826	mg/L	14:17:59

Mean Data: ICV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3339783.2	0.988	mg/L	0.0049				0.49%

Ag	328.068†	50400.8	0.2428 mg/L	0.00038	0.2428 mg/L	0.00038	0.16%
	QC value within limits for Ag	328.068	Recovery =	97.10%			
Al	237.313†	26497.4	2.438 mg/L	0.0038	2.438 mg/L	0.0038	0.15%
	QC value within limits for Al	237.313	Recovery =	97.52%			
As	188.979†	782.7	0.4807 mg/L	0.00063	0.4807 mg/L	0.00063	0.13%
	QC value within limits for As	188.979	Recovery =	96.13%			
B	249.677†	1169.0	0.4803 mg/L	0.00991	0.4803 mg/L	0.00991	2.06%
	QC value within limits for B	249.677	Recovery =	96.07%			
B	182.528†	583.5	0.4833 mg/L	0.00376	0.4833 mg/L	0.00376	0.78%
	QC value within limits for B	182.528	Recovery =	96.66%			
Ba	233.527†	64236.8	0.4876 mg/L	0.00028	0.4876 mg/L	0.00028	0.06%
	QC value within limits for Ba	233.527	Recovery =	97.51%			
Be	313.107†	137711.4	0.0487 mg/L	0.00002	0.0487 mg/L	0.00002	0.05%
	QC value within limits for Be	313.107	Recovery =	97.32%			
Ca	315.887†	535485.4	4.803 mg/L	0.0005	4.803 mg/L	0.0005	0.01%
	QC value within limits for Ca	315.887	Recovery =	96.05%			
Cd	228.802†	9102.4	0.2449 mg/L	0.00074	0.2449 mg/L	0.00074	0.30%
	QC value within limits for Cd	228.802	Recovery =	97.97%			
Co	228.616†	31064.8	0.4923 mg/L	0.00045	0.4923 mg/L	0.00045	0.09%
	QC value within limits for Co	228.616	Recovery =	98.47%			
Cr	267.716†	63746.6	0.4858 mg/L	0.00021	0.4858 mg/L	0.00021	0.04%
	QC value within limits for Cr	267.716	Recovery =	97.15%			
Cu	324.752†	112990.7	0.4843 mg/L	0.00065	0.4843 mg/L	0.00065	0.13%
	QC value within limits for Cu	324.752	Recovery =	96.85%			
Fe	234.349†	4793.4	2.369 mg/L	0.0196	2.369 mg/L	0.0196	0.83%
	QC value less than the lower limit for Fe	234.349	Recovery =	94.75%			
K	766.490†	56313.1	24.19 mg/L	0.150	24.19 mg/L	0.150	0.62%
	QC value within limits for K	766.490	Recovery =	96.76%			
Li	670.784†	20318.2	0.4790 mg/L	0.00374	0.4790 mg/L	0.00374	0.78%
	QC value within limits for Li	670.784	Recovery =	95.80%			
Mg	279.077†	74451.6	4.833 mg/L	0.0006	4.833 mg/L	0.0006	0.01%
	QC value within limits for Mg	279.077	Recovery =	96.67%			
Mn	257.610†	452324.9	0.4860 mg/L	0.00029	0.4860 mg/L	0.00029	0.06%
	QC value within limits for Mn	257.610	Recovery =	97.20%			
Mn	294.920†	227868.7	0.4859 mg/L	0.00029	0.4859 mg/L	0.00029	0.06%
	QC value within limits for Mn	294.920	Recovery =	97.18%			
Mo	202.031†	12845.8	0.4823 mg/L	0.00110	0.4823 mg/L	0.00110	0.23%
	QC value within limits for Mo	202.031	Recovery =	96.46%			
Na	589.592†	180003.5	24.21 mg/L	0.168	24.21 mg/L	0.168	0.69%
	QC value within limits for Na	589.592	Recovery =	96.82%			
Ni	231.604†	26218.0	0.4881 mg/L	0.00133	0.4881 mg/L	0.00133	0.27%
	QC value within limits for Ni	231.604	Recovery =	97.61%			
P	214.914†	9060.6	4.791 mg/L	0.0038	4.791 mg/L	0.0038	0.08%
	QC value within limits for P	214.914	Recovery =	95.83%			
Pb	220.353†	8315.3	0.4892 mg/L	0.00117	0.4892 mg/L	0.00117	0.24%
	QC value within limits for Pb	220.353	Recovery =	97.85%			
Sb	206.836†	1172.4	0.4837 mg/L	0.00541	0.4837 mg/L	0.00541	1.12%
	QC value within limits for Sb	206.836	Recovery =	96.75%			
Se	196.026†	1732.7	0.9637 mg/L	0.00170	0.9637 mg/L	0.00170	0.18%
	QC value within limits for Se	196.026	Recovery =	96.37%			
Sn	189.927†	3950.5	0.4897 mg/L	0.00089	0.4897 mg/L	0.00089	0.18%
	QC value within limits for Sn	189.927	Recovery =	97.94%			
Sr	407.771†	56119.3	0.0478 mg/L	0.00021	0.0478 mg/L	0.00021	0.44%
	QC value within limits for Sr	407.771	Recovery =	95.60%			
Ti	337.279†	468714.7	0.4832 mg/L	0.00021	0.4832 mg/L	0.00021	0.04%
	QC value within limits for Ti	337.279	Recovery =	96.65%			
Tl	190.801†	645.4	0.4825 mg/L	0.00084	0.4825 mg/L	0.00084	0.17%
	QC value within limits for Tl	190.801	Recovery =	96.50%			
V	292.402†	123264.6	0.4918 mg/L	0.00012	0.4918 mg/L	0.00012	0.02%
	QC value within limits for V	292.402	Recovery =	98.36%			
Zn	213.857†	79169.3	0.4827 mg/L	0.00012	0.4827 mg/L	0.00012	0.03%
	QC value within limits for Zn	213.857	Recovery =	96.54%			
QC Failed. Continue with analysis.							

Sequence No.: 6
Sample ID: SCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/25/2013 2:19:48 PM
Data Type: Reprocessed on 6/26/2013 10:56:24 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3324643.8	3324643.8	0.983	mg/L			14:21:43
1	Ag 328.068†	50504.3	50626.2	0.2438	mg/L	0.2438	mg/L	14:21:43
1	Al 237.313†	26686.0	27527.1	2.533	mg/L	2.533	mg/L	14:21:53
1	As 188.979†	805.2	817.8	0.5021	mg/L	0.5021	mg/L	14:21:53
1	B 249.677†	1166.8	1201.8	0.4938	mg/L	0.4938	mg/L	14:21:33
1	B 182.528†	597.0	614.1	0.5084	mg/L	0.5084	mg/L	14:21:53
1	Ba 233.527†	65112.0	66306.8	0.5033	mg/L	0.5033	mg/L	14:21:43
1	Be 313.107†	139871.9	143682.7	0.0508	mg/L	0.0508	mg/L	14:21:43
1	Ca 315.887†	548732.8	558779.9	5.011	mg/L	5.011	mg/L	14:21:43
1	Cd 228.802†	9437.8	9450.8	0.2542	mg/L	0.2542	mg/L	14:21:53
1	Co 228.616†	31344.0	32054.8	0.5081	mg/L	0.5081	mg/L	14:21:53
1	Cr 267.716†	66305.6	66722.0	0.5084	mg/L	0.5084	mg/L	14:21:43
1	Cu 324.752†	119841.4	117922.2	0.5053	mg/L	0.5053	mg/L	14:21:43
1	Fe 234.349†	4871.4	4955.9	2.449	mg/L	2.449	mg/L	14:21:33
1	K 766.490†	57685.6	57921.2	24.88	mg/L	24.88	mg/L	14:21:31
1	Li 670.784†	20394.1	21013.4	0.4953	mg/L	0.4953	mg/L	14:21:33
1	Mg 279.077†	74816.6	75800.8	4.921	mg/L	4.921	mg/L	14:21:43
1	Mn 257.610†	474583.7	466598.0	0.5013	mg/L	0.5013	mg/L	14:21:43
1	Mn 294.920†	230436.2	234994.5	0.5011	mg/L	0.5011	mg/L	14:21:43
1	Mo 202.031†	13078.9	13311.7	0.4997	mg/L	0.4997	mg/L	14:21:53
1	Na 589.592†	185357.0	184281.8	24.78	mg/L	24.78	mg/L	14:21:31
1	Ni 231.604†	26966.7	27248.1	0.5073	mg/L	0.5073	mg/L	14:21:43
1	P 214.914†	9190.0	9392.3	4.965	mg/L	4.965	mg/L	14:21:53
1	Pb 220.353†	8765.3	8731.2	0.5136	mg/L	0.5136	mg/L	14:21:53
1	Sb 206.836†	1259.9	1236.6	0.5099	mg/L	0.5099	mg/L	14:21:53
1	Se 196.026†	1795.4	1809.1	1.006	mg/L	1.006	mg/L	14:21:53
1	Sn 189.927†	4090.6	4122.7	0.5110	mg/L	0.5110	mg/L	14:21:53
1	Sr 407.771†	56177.8	56887.3	0.0485	mg/L	0.0485	mg/L	14:21:31
1	Ti 337.279†	463383.9	472559.9	0.4872	mg/L	0.4872	mg/L	14:21:43
1	Tl 190.801†	656.0	674.3	0.5041	mg/L	0.5041	mg/L	14:21:53
1	V 292.402†	124896.3	127921.6	0.5103	mg/L	0.5103	mg/L	14:21:43
1	Zn 213.857†	82202.6	82730.8	0.5044	mg/L	0.5044	mg/L	14:21:43
2	Y 371.029	3346977.8	3346977.8	0.990	mg/L			14:21:57
2	Ag 328.068†	50979.7	50763.6	0.2445	mg/L	0.2445	mg/L	14:21:57
2	Al 237.313†	26646.8	27306.4	2.512	mg/L	2.512	mg/L	14:22:07
2	As 188.979†	816.9	824.2	0.5060	mg/L	0.5060	mg/L	14:22:07
2	B 249.677†	1169.2	1196.4	0.4915	mg/L	0.4915	mg/L	14:21:38
2	B 182.528†	593.1	606.2	0.5019	mg/L	0.5019	mg/L	14:22:07
2	Ba 233.527†	65492.5	66249.2	0.5028	mg/L	0.5028	mg/L	14:21:57
2	Be 313.107†	140977.8	143850.6	0.0508	mg/L	0.0508	mg/L	14:21:57
2	Ca 315.887†	552659.4	559022.7	5.013	mg/L	5.013	mg/L	14:21:57
2	Cd 228.802†	9467.0	9416.3	0.2533	mg/L	0.2533	mg/L	14:22:07
2	Co 228.616†	31406.9	31905.7	0.5057	mg/L	0.5057	mg/L	14:22:07
2	Cr 267.716†	66638.7	66608.6	0.5076	mg/L	0.5076	mg/L	14:21:57
2	Cu 324.752†	120386.7	117659.7	0.5042	mg/L	0.5042	mg/L	14:21:57
2	Fe 234.349†	4845.1	4896.2	2.419	mg/L	2.419	mg/L	14:21:38
2	K 766.490†	58284.6	58134.9	24.97	mg/L	24.97	mg/L	14:21:36
2	Li 670.784†	20361.8	20842.4	0.4913	mg/L	0.4913	mg/L	14:21:38
2	Mg 279.077†	75357.6	75839.5	4.923	mg/L	4.923	mg/L	14:21:57
2	Mn 257.610†	477909.4	466736.9	0.5015	mg/L	0.5015	mg/L	14:21:57
2	Mn 294.920†	232318.8	235332.5	0.5018	mg/L	0.5018	mg/L	14:21:57
2	Mo 202.031†	13098.0	13242.2	0.4971	mg/L	0.4971	mg/L	14:22:07
2	Na 589.592†	186972.6	184656.0	24.83	mg/L	24.83	mg/L	14:21:36
2	Ni 231.604†	27242.9	27344.1	0.5090	mg/L	0.5090	mg/L	14:21:57
2	P 214.914†	9231.9	9372.2	4.954	mg/L	4.954	mg/L	14:22:07
2	Pb 220.353†	8824.6	8731.6	0.5136	mg/L	0.5136	mg/L	14:22:07
2	Sb 206.836†	1253.0	1221.0	0.5036	mg/L	0.5036	mg/L	14:22:07
2	Se 196.026†	1821.2	1823.0	1.014	mg/L	1.014	mg/L	14:22:07
2	Sn 189.927†	4106.4	4110.9	0.5095	mg/L	0.5095	mg/L	14:22:07
2	Sr 407.771†	56789.1	57123.6	0.0487	mg/L	0.0487	mg/L	14:21:36
2	Ti 337.279†	466570.9	472634.8	0.4873	mg/L	0.4873	mg/L	14:21:57
2	Tl 190.801†	663.1	677.0	0.5062	mg/L	0.5062	mg/L	14:22:07
2	V 292.402†	125607.2	127792.1	0.5098	mg/L	0.5098	mg/L	14:21:57
2	Zn 213.857†	82870.1	82847.1	0.5051	mg/L	0.5051	mg/L	14:21:57

Mean Data: SCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3335810.8	0.987	mg/L	0.0047				0.47%

Ag	328.068†	50694.9	0.2442 mg/L	0.00047	0.2442 mg/L	0.00047	0.19%
	QC value within limits for Ag	328.068	Recovery =	97.67%			
Al	237.313†	27416.8	2.522 mg/L	0.0143	2.522 mg/L	0.0143	0.57%
	QC value within limits for Al	237.313	Recovery =	100.90%			
As	188.979†	821.0	0.5041 mg/L	0.00276	0.5041 mg/L	0.00276	0.55%
	QC value within limits for As	188.979	Recovery =	100.81%			
B	249.677†	1199.1	0.4926 mg/L	0.00158	0.4926 mg/L	0.00158	0.32%
	QC value within limits for B	249.677	Recovery =	98.53%			
B	182.528†	610.1	0.5052 mg/L	0.00463	0.5052 mg/L	0.00463	0.92%
	QC value within limits for B	182.528	Recovery =	101.03%			
Ba	233.527†	66278.0	0.5030 mg/L	0.00031	0.5030 mg/L	0.00031	0.06%
	QC value within limits for Ba	233.527	Recovery =	100.61%			
Be	313.107†	143766.6	0.0508 mg/L	0.00004	0.0508 mg/L	0.00004	0.08%
	QC value within limits for Be	313.107	Recovery =	101.59%			
Ca	315.887†	558901.3	5.012 mg/L	0.0015	5.012 mg/L	0.0015	0.03%
	QC value within limits for Ca	315.887	Recovery =	100.24%			
Cd	228.802†	9433.5	0.2538 mg/L	0.00065	0.2538 mg/L	0.00065	0.26%
	QC value within limits for Cd	228.802	Recovery =	101.51%			
Co	228.616†	31980.2	0.5069 mg/L	0.00168	0.5069 mg/L	0.00168	0.33%
	QC value within limits for Co	228.616	Recovery =	101.38%			
Cr	267.716†	66665.3	0.5080 mg/L	0.00061	0.5080 mg/L	0.00061	0.12%
	QC value within limits for Cr	267.716	Recovery =	101.60%			
Cu	324.752†	117790.9	0.5048 mg/L	0.00079	0.5048 mg/L	0.00079	0.16%
	QC value within limits for Cu	324.752	Recovery =	100.95%			
Fe	234.349†	4926.1	2.434 mg/L	0.0209	2.434 mg/L	0.0209	0.86%
	QC value within limits for Fe	234.349	Recovery =	97.36%			
K	766.490†	58028.1	24.92 mg/L	0.065	24.92 mg/L	0.065	0.26%
	QC value within limits for K	766.490	Recovery =	99.69%			
Li	670.784†	20927.9	0.4933 mg/L	0.00284	0.4933 mg/L	0.00284	0.58%
	QC value within limits for Li	670.784	Recovery =	98.66%			
Mg	279.077†	75820.1	4.922 mg/L	0.0018	4.922 mg/L	0.0018	0.04%
	QC value within limits for Mg	279.077	Recovery =	98.44%			
Mn	257.610†	466667.5	0.5014 mg/L	0.00011	0.5014 mg/L	0.00011	0.02%
	QC value within limits for Mn	257.610	Recovery =	100.28%			
Mn	294.920†	235163.5	0.5014 mg/L	0.00051	0.5014 mg/L	0.00051	0.10%
	QC value within limits for Mn	294.920	Recovery =	100.29%			
Mo	202.031†	13277.0	0.4984 mg/L	0.00184	0.4984 mg/L	0.00184	0.37%
	QC value within limits for Mo	202.031	Recovery =	99.67%			
Na	589.592†	184468.9	24.80 mg/L	0.035	24.80 mg/L	0.035	0.14%
	QC value within limits for Na	589.592	Recovery =	99.22%			
Ni	231.604†	27296.1	0.5082 mg/L	0.00126	0.5082 mg/L	0.00126	0.25%
	QC value within limits for Ni	231.604	Recovery =	101.63%			
P	214.914†	9382.3	4.960 mg/L	0.0074	4.960 mg/L	0.0074	0.15%
	QC value within limits for P	214.914	Recovery =	99.19%			
Pb	220.353†	8731.4	0.5136 mg/L	0.00001	0.5136 mg/L	0.00001	0.00%
	QC value within limits for Pb	220.353	Recovery =	102.72%			
Sb	206.836†	1228.8	0.5068 mg/L	0.00451	0.5068 mg/L	0.00451	0.89%
	QC value within limits for Sb	206.836	Recovery =	101.35%			
Se	196.026†	1816.0	1.010 mg/L	0.0054	1.010 mg/L	0.0054	0.54%
	QC value within limits for Se	196.026	Recovery =	100.98%			
Sn	189.927†	4116.8	0.5103 mg/L	0.00102	0.5103 mg/L	0.00102	0.20%
	QC value within limits for Sn	189.927	Recovery =	102.05%			
Sr	407.771†	57005.4	0.0486 mg/L	0.00014	0.0486 mg/L	0.00014	0.29%
	QC value within limits for Sr	407.771	Recovery =	97.10%			
Ti	337.279†	472597.3	0.4872 mg/L	0.00005	0.4872 mg/L	0.00005	0.01%
	QC value within limits for Ti	337.279	Recovery =	97.44%			
Tl	190.801†	675.6	0.5051 mg/L	0.00144	0.5051 mg/L	0.00144	0.29%
	QC value within limits for Tl	190.801	Recovery =	101.03%			
V	292.402†	127856.8	0.5100 mg/L	0.00039	0.5100 mg/L	0.00039	0.08%
	QC value within limits for V	292.402	Recovery =	102.01%			
Zn	213.857†	82789.0	0.5048 mg/L	0.00050	0.5048 mg/L	0.00050	0.10%
	QC value within limits for Zn	213.857	Recovery =	100.95%			
All analyte(s) passed QC.							

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Sequence No.: 7                               Autosampler Location: 1
Sample ID: ICB1                               Date Collected: 6/25/2013 2:23:47 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:25 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Replicate Data: ICB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3367770.5	3367770.5	0.996	mg/L			14:25:54
1	Ag 328.068†	739.7	5.8	0.0007	mg/L	0.0007	mg/L	14:25:57
1	Al 237.313†	-365.4	20.6	0.0090	mg/L	0.0090	mg/L	14:25:57
1	As 188.979†	1.8	0.7	0.0031	mg/L	0.0031	mg/L	14:26:07
1	B 249.677†	-13.8	1.3	0.0031	mg/L	0.0031	mg/L	14:25:39
1	B 182.528†	-4.8	2.2	0.0057	mg/L	0.0057	mg/L	14:26:07
1	Ba 233.527†	-47.3	40.3	0.0009	mg/L	0.0009	mg/L	14:26:07
1	Be 313.107†	-1435.5	-8.5	0.0002	mg/L	0.0002	mg/L	14:25:57
1	Ca 315.887†	-1201.7	-488.5	0.0039	mg/L	0.0039	mg/L	14:25:57
1	Cd 228.802†	156.1	9.2	0.0017	mg/L	0.0017	mg/L	14:26:07
1	Co 228.616†	-169.0	8.3	-0.0019	mg/L	-0.0019	mg/L	14:26:07
1	Cr 267.716†	910.2	203.0	0.0021	mg/L	0.0021	mg/L	14:25:57
1	Cu 324.752†	4027.0	86.3	0.0017	mg/L	0.0017	mg/L	14:25:57
1	Fe 234.349†	10.9	12.6	0.0168	mg/L	0.0168	mg/L	14:25:39
1	K 766.490†	947.2	205.9	0.2314	mg/L	0.2314	mg/L	14:25:28
1	Li 670.784†	-207.0	64.7	0.0034	mg/L	0.0034	mg/L	14:25:28
1	Mg 279.077†	251.6	-35.2	-0.0043	mg/L	-0.0043	mg/L	14:25:57
1	Mn 257.610†	15928.8	-62.1	-0.0001	mg/L	-0.0001	mg/L	14:25:57
1	Mn 294.920†	-576.3	62.0	0.0000	mg/L	0.0000	mg/L	14:25:57
1	Mo 202.031†	1.1	11.5	0.0032	mg/L	0.0032	mg/L	14:26:07
1	Na 589.592†	4581.6	373.4	0.1372	mg/L	0.1372	mg/L	14:25:28
1	Ni 231.604†	241.0	64.8	0.0007	mg/L	0.0007	mg/L	14:25:57
1	P 214.914†	-57.4	-11.6	0.0424	mg/L	0.0424	mg/L	14:26:07
1	Pb 220.353†	142.5	-40.0	-0.0004	mg/L	-0.0004	mg/L	14:26:07
1	Sb 206.836†	34.5	-10.2	0.0002	mg/L	0.0002	mg/L	14:26:07
1	Se 196.026†	18.4	1.6	0.0053	mg/L	0.0053	mg/L	14:26:07
1	Sn 189.927†	51.1	13.8	0.0033	mg/L	0.0033	mg/L	14:26:07
1	Sr 407.771†	257.2	12.6	0.0003	mg/L	0.0003	mg/L	14:25:28
1	Ti 337.279†	-1512.5	-220.6	0.0026	mg/L	0.0026	mg/L	14:25:57
1	Tl 190.801†	-1.9	5.2	0.0035	mg/L	0.0035	mg/L	14:26:07
1	V 292.402†	-1009.8	-112.0	0.0019	mg/L	0.0019	mg/L	14:25:57
1	Zn 213.857†	917.0	51.3	0.0008	mg/L	0.0008	mg/L	14:26:07
2	Y 371.029	3306294.7	3306294.7	0.978	mg/L			14:26:09
2	Ag 328.068†	715.4	-5.2	0.0006	mg/L	0.0006	mg/L	14:26:11
2	Al 237.313†	-360.8	18.5	0.0088	mg/L	0.0088	mg/L	14:26:11
2	As 188.979†	-1.3	-2.3	0.0012	mg/L	0.0012	mg/L	14:26:22
2	B 249.677†	-7.1	7.9	0.0057	mg/L	0.0057	mg/L	14:25:51
2	B 182.528†	-0.8	6.1	0.0089	mg/L	0.0089	mg/L	14:26:22
2	Ba 233.527†	-72.2	13.9	0.0007	mg/L	0.0007	mg/L	14:26:22
2	Be 313.107†	-1428.9	-28.5	0.0002	mg/L	0.0002	mg/L	14:26:11
2	Ca 315.887†	-1183.2	-492.1	0.0039	mg/L	0.0039	mg/L	14:26:11
2	Cd 228.802†	145.3	1.1	0.0015	mg/L	0.0015	mg/L	14:26:22
2	Co 228.616†	-168.2	5.9	-0.0020	mg/L	-0.0020	mg/L	14:26:22
2	Cr 267.716†	885.2	194.5	0.0020	mg/L	0.0020	mg/L	14:26:11
2	Cu 324.752†	4074.0	209.5	0.0022	mg/L	0.0022	mg/L	14:26:11
2	Fe 234.349†	10.5	12.4	0.0167	mg/L	0.0167	mg/L	14:25:51
2	K 766.490†	831.9	105.7	0.1885	mg/L	0.1885	mg/L	14:25:41
2	Li 670.784†	-236.1	31.2	0.0026	mg/L	0.0026	mg/L	14:25:41
2	Mg 279.077†	317.3	36.6	0.0004	mg/L	0.0004	mg/L	14:26:11
2	Mn 257.610†	16020.6	329.2	0.0003	mg/L	0.0003	mg/L	14:26:11
2	Mn 294.920†	-538.0	90.5	0.0000	mg/L	0.0000	mg/L	14:26:11
2	Mo 202.031†	-21.5	-11.6	0.0023	mg/L	0.0023	mg/L	14:26:22
2	Na 589.592†	4418.3	291.8	0.1262	mg/L	0.1262	mg/L	14:25:41
2	Ni 231.604†	248.2	76.7	0.0009	mg/L	0.0009	mg/L	14:26:11
2	P 214.914†	-66.0	-21.4	0.0373	mg/L	0.0373	mg/L	14:26:22
2	Pb 220.353†	137.3	-42.7	-0.0006	mg/L	-0.0006	mg/L	14:26:22
2	Sb 206.836†	38.8	-5.1	0.0023	mg/L	0.0023	mg/L	14:26:22
2	Se 196.026†	14.3	-2.2	0.0032	mg/L	0.0032	mg/L	14:26:22
2	Sn 189.927†	34.5	-2.2	0.0013	mg/L	0.0013	mg/L	14:26:22
2	Sr 407.771†	112.3	-130.8	0.0002	mg/L	0.0002	mg/L	14:25:41
2	Ti 337.279†	-1544.9	-282.0	0.0025	mg/L	0.0025	mg/L	14:26:11
2	Tl 190.801†	-4.3	2.8	0.0017	mg/L	0.0017	mg/L	14:26:22
2	V 292.402†	-876.0	6.0	0.0024	mg/L	0.0024	mg/L	14:26:11
2	Zn 213.857†	896.2	47.0	0.0008	mg/L	0.0008	mg/L	14:26:22

Mean Data: ICB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3337032.6	0.987	mg/L	0.0129				1.30%

Ag	328.068†	0.3	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.75%
	QC value within limits for Ag 328.068 Recovery = Not calculated						
Al	237.313†	19.5	0.0089 mg/L	0.00014	0.0089 mg/L	0.00014	1.54%
	QC value within limits for Al 237.313 Recovery = Not calculated						
As	188.979†	-0.8	0.0022 mg/L	0.00133	0.0022 mg/L	0.00133	61.49%
	QC value within limits for As 188.979 Recovery = Not calculated						
B	249.677†	4.6	0.0044 mg/L	0.00189	0.0044 mg/L	0.00189	42.94%
	QC value within limits for B 249.677 Recovery = Not calculated						
B	182.528†	4.1	0.0073 mg/L	0.00231	0.0073 mg/L	0.00231	31.73%
	QC value within limits for B 182.528 Recovery = Not calculated						
Ba	233.527†	27.1	0.0008 mg/L	0.00014	0.0008 mg/L	0.00014	17.60%
	QC value within limits for Ba 233.527 Recovery = Not calculated						
Be	313.107†	-18.5	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	2.42%
	QC value within limits for Be 313.107 Recovery = Not calculated						
Ca	315.887†	-490.3	0.0039 mg/L	0.00002	0.0039 mg/L	0.00002	0.45%
	QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd	228.802†	5.2	0.0016 mg/L	0.00015	0.0016 mg/L	0.00015	9.36%
	QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co	228.616†	7.1	-0.0020 mg/L	0.00003	-0.0020 mg/L	0.00003	1.41%
	QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr	267.716†	198.7	0.0020 mg/L	0.00005	0.0020 mg/L	0.00005	2.31%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	147.9	0.0019 mg/L	0.00037	0.0019 mg/L	0.00037	19.12%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	234.349†	12.5	0.0168 mg/L	0.00007	0.0168 mg/L	0.00007	0.40%
	QC value within limits for Fe 234.349 Recovery = Not calculated						
K	766.490†	155.8	0.2100 mg/L	0.03027	0.2100 mg/L	0.03027	14.42%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li	670.784†	48.0	0.0030 mg/L	0.00056	0.0030 mg/L	0.00056	18.45%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	0.7	-0.0020 mg/L	0.00330	-0.0020 mg/L	0.00330	168.82%
	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn	257.610†	133.6	0.0001 mg/L	0.00030	0.0001 mg/L	0.00030	390.41%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	76.2	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	451.56%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	-0.0	0.0028 mg/L	0.00062	0.0028 mg/L	0.00062	22.23%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	332.6	0.1317 mg/L	0.00773	0.1317 mg/L	0.00773	5.87%
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni	231.604†	70.8	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	19.56%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-16.5	0.0398 mg/L	0.00363	0.0398 mg/L	0.00363	9.11%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	-41.4	-0.0005 mg/L	0.00011	-0.0005 mg/L	0.00011	23.09%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	-7.6	0.0012 mg/L	0.00146	0.0012 mg/L	0.00146	119.72%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-0.3	0.0043 mg/L	0.00151	0.0043 mg/L	0.00151	35.33%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	5.8	0.0023 mg/L	0.00139	0.0023 mg/L	0.00139	60.82%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	-59.1	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	34.52%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-251.3	0.0025 mg/L	0.00004	0.0025 mg/L	0.00004	1.76%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	4.0	0.0026 mg/L	0.00129	0.0026 mg/L	0.00129	49.02%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	-53.0	0.0021 mg/L	0.00032	0.0021 mg/L	0.00032	14.82%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	49.1	0.0008 mg/L	0.00002	0.0008 mg/L	0.00002	2.57%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 8
Sample ID: CRL1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/25/2013 2:27:59 PM
Data Type: Reprocessed on 6/26/2013 10:56:25 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRL1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3298158.0	3298158.0	0.975	mg/L			14:30:06
1	Ag 328.068†	5899.5	5311.2	0.0262	mg/L	0.0262	mg/L	14:30:08
1	Al 237.313†	2227.3	2670.8	0.2521	mg/L	0.2521	mg/L	14:30:19
1	As 188.979†	85.3	86.4	0.0554	mg/L	0.0554	mg/L	14:30:19
1	B 249.677†	106.6	124.4	0.0534	mg/L	0.0534	mg/L	14:29:50
1	B 182.528†	47.7	55.9	0.0498	mg/L	0.0498	mg/L	14:30:19
1	Ba 233.527†	6514.0	6765.7	0.0519	mg/L	0.0519	mg/L	14:30:19
1	Be 313.107†	13012.1	14772.4	0.0054	mg/L	0.0054	mg/L	14:30:08
1	Ca 315.887†	52986.5	55038.0	0.5010	mg/L	0.5010	mg/L	14:30:08
1	Cd 228.802†	1081.7	961.5	0.0272	mg/L	0.0272	mg/L	14:30:19
1	Co 228.616†	3033.1	3287.3	0.0502	mg/L	0.0502	mg/L	14:30:19
1	Cr 267.716†	7074.3	6541.6	0.0503	mg/L	0.0503	mg/L	14:30:08
1	Cu 324.752†	15796.6	12237.5	0.0536	mg/L	0.0536	mg/L	14:30:08
1	Fe 234.349†	494.9	509.0	0.2610	mg/L	0.2610	mg/L	14:29:50
1	K 766.490†	6673.2	6096.0	2.747	mg/L	2.747	mg/L	14:29:40
1	Li 670.784†	1888.6	2208.7	0.0538	mg/L	0.0538	mg/L	14:29:40
1	Mg 279.077†	7875.4	7785.7	0.5036	mg/L	0.5036	mg/L	14:30:08
1	Mn 257.610†	63381.0	48921.9	0.0525	mg/L	0.0525	mg/L	14:30:08
1	Mn 294.920†	23216.9	24441.8	0.0520	mg/L	0.0520	mg/L	14:30:08
1	Mo 202.031†	1314.3	1357.8	0.0535	mg/L	0.0535	mg/L	14:30:19
1	Na 589.592†	22944.6	19295.6	2.673	mg/L	2.673	mg/L	14:29:40
1	Ni 231.604†	2892.9	2788.5	0.0514	mg/L	0.0514	mg/L	14:30:19
1	P 214.914†	890.6	959.1	0.5505	mg/L	0.5505	mg/L	14:30:19
1	Pb 220.353†	1015.0	857.5	0.0522	mg/L	0.0522	mg/L	14:30:19
1	Sb 206.836†	158.2	117.4	0.0524	mg/L	0.0524	mg/L	14:30:19
1	Se 196.026†	193.8	181.8	0.1051	mg/L	0.1051	mg/L	14:30:19
1	Sn 189.927†	431.0	404.4	0.0516	mg/L	0.0516	mg/L	14:30:19
1	Sr 407.771†	5915.3	5818.5	0.0052	mg/L	0.0052	mg/L	14:29:40
1	Ti 337.279†	45748.7	48198.0	0.0522	mg/L	0.0522	mg/L	14:30:08
1	Tl 190.801†	61.3	70.0	0.0520	mg/L	0.0520	mg/L	14:30:19
1	V 292.402†	11556.7	12749.5	0.0530	mg/L	0.0530	mg/L	14:30:08
1	Zn 213.857†	9605.6	8977.9	0.0552	mg/L	0.0552	mg/L	14:30:19
2	Y 371.029	3281693.9	3281693.9	0.971	mg/L			14:30:21
2	Ag 328.068†	5795.2	5234.1	0.0258	mg/L	0.0258	mg/L	14:30:23
2	Al 237.313†	2210.4	2664.9	0.2516	mg/L	0.2516	mg/L	14:30:33
2	As 188.979†	78.2	79.6	0.0512	mg/L	0.0512	mg/L	14:30:33
2	B 249.677†	106.4	124.9	0.0536	mg/L	0.0536	mg/L	14:30:02
2	B 182.528†	53.8	62.4	0.0552	mg/L	0.0552	mg/L	14:30:33
2	Ba 233.527†	6487.3	6771.7	0.0519	mg/L	0.0519	mg/L	14:30:33
2	Be 313.107†	12827.6	14649.2	0.0054	mg/L	0.0054	mg/L	14:30:23
2	Ca 315.887†	52429.8	54737.0	0.4984	mg/L	0.4984	mg/L	14:30:23
2	Cd 228.802†	1078.3	963.5	0.0273	mg/L	0.0273	mg/L	14:30:33
2	Co 228.616†	3038.5	3308.5	0.0506	mg/L	0.0506	mg/L	14:30:33
2	Cr 267.716†	7093.9	6598.2	0.0507	mg/L	0.0507	mg/L	14:30:23
2	Cu 324.752†	15629.6	12146.7	0.0532	mg/L	0.0532	mg/L	14:30:23
2	Fe 234.349†	498.7	515.5	0.2643	mg/L	0.2643	mg/L	14:30:02
2	K 766.490†	6579.1	6033.4	2.720	mg/L	2.720	mg/L	14:29:52
2	Li 670.784†	1833.0	2161.2	0.0526	mg/L	0.0526	mg/L	14:29:52
2	Mg 279.077†	7836.0	7785.6	0.5036	mg/L	0.5036	mg/L	14:30:23
2	Mn 257.610†	62839.6	48690.2	0.0523	mg/L	0.0523	mg/L	14:30:23
2	Mn 294.920†	22939.6	24275.5	0.0516	mg/L	0.0516	mg/L	14:30:23
2	Mo 202.031†	1265.5	1314.3	0.0518	mg/L	0.0518	mg/L	14:30:33
2	Na 589.592†	22995.1	19465.6	2.695	mg/L	2.695	mg/L	14:29:52
2	Ni 231.604†	2862.3	2771.9	0.0511	mg/L	0.0511	mg/L	14:30:33
2	P 214.914†	889.8	962.8	0.5525	mg/L	0.5525	mg/L	14:30:33
2	Pb 220.353†	991.4	838.3	0.0511	mg/L	0.0511	mg/L	14:30:33
2	Sb 206.836†	153.1	112.9	0.0505	mg/L	0.0505	mg/L	14:30:33
2	Se 196.026†	192.4	181.3	0.1048	mg/L	0.1048	mg/L	14:30:33
2	Sn 189.927†	439.9	415.7	0.0529	mg/L	0.0529	mg/L	14:30:33
2	Sr 407.771†	5867.9	5800.1	0.0052	mg/L	0.0052	mg/L	14:29:52
2	Ti 337.279†	45383.2	48056.8	0.0520	mg/L	0.0520	mg/L	14:30:23
2	Tl 190.801†	55.3	64.1	0.0476	mg/L	0.0476	mg/L	14:30:33
2	V 292.402†	11400.2	12647.6	0.0526	mg/L	0.0526	mg/L	14:30:23
2	Zn 213.857†	9596.0	9017.5	0.0554	mg/L	0.0554	mg/L	14:30:33

Mean Data: CRL1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3289926.0	0.973 mg/L	0.0034			0.35%

Ag	328.068†	5272.6	0.0260 mg/L	0.00026	0.0260 mg/L	0.00026	1.01%
	QC value within limits for Ag	328.068	Recovery =	103.92%			
Al	237.313†	2667.8	0.2519 mg/L	0.00038	0.2519 mg/L	0.00038	0.15%
	QC value within limits for Al	237.313	Recovery =	100.74%			
As	188.979†	83.0	0.0533 mg/L	0.00298	0.0533 mg/L	0.00298	5.58%
	QC value within limits for As	188.979	Recovery =	106.67%			
B	249.677†	124.7	0.0535 mg/L	0.00012	0.0535 mg/L	0.00012	0.22%
	QC value within limits for B	249.677	Recovery =	106.94%			
B	182.528†	59.2	0.0525 mg/L	0.00381	0.0525 mg/L	0.00381	7.26%
	QC value within limits for B	182.528	Recovery =	104.98%			
Ba	233.527†	6768.7	0.0519 mg/L	0.00003	0.0519 mg/L	0.00003	0.06%
	QC value within limits for Ba	233.527	Recovery =	103.82%			
Be	313.107†	14710.8	0.0054 mg/L	0.00003	0.0054 mg/L	0.00003	0.57%
	QC value within limits for Be	313.107	Recovery =	107.78%			
Ca	315.887†	54887.5	0.4997 mg/L	0.00190	0.4997 mg/L	0.00190	0.38%
	QC value within limits for Ca	315.887	Recovery =	99.94%			
Cd	228.802†	962.5	0.0272 mg/L	0.00004	0.0272 mg/L	0.00004	0.14%
	QC value within limits for Cd	228.802	Recovery =	108.96%			
Co	228.616†	3297.9	0.0504 mg/L	0.00024	0.0504 mg/L	0.00024	0.47%
	QC value within limits for Co	228.616	Recovery =	100.83%			
Cr	267.716†	6569.9	0.0505 mg/L	0.00030	0.0505 mg/L	0.00030	0.60%
	QC value within limits for Cr	267.716	Recovery =	101.04%			
Cu	324.752†	12192.1	0.0534 mg/L	0.00027	0.0534 mg/L	0.00027	0.51%
	QC value within limits for Cu	324.752	Recovery =	106.85%			
Fe	234.349†	512.2	0.2626 mg/L	0.00230	0.2626 mg/L	0.00230	0.88%
	QC value within limits for Fe	234.349	Recovery =	105.06%			
K	766.490†	6064.7	2.733 mg/L	0.0189	2.733 mg/L	0.0189	0.69%
	QC value within limits for K	766.490	Recovery =	109.33%			
Li	670.784†	2185.0	0.0532 mg/L	0.00079	0.0532 mg/L	0.00079	1.49%
	QC value within limits for Li	670.784	Recovery =	106.41%			
Mg	279.077†	7785.7	0.5036 mg/L	0.00000	0.5036 mg/L	0.00000	0.00%
	QC value within limits for Mg	279.077	Recovery =	100.73%			
Mn	257.610†	48806.1	0.0524 mg/L	0.00018	0.0524 mg/L	0.00018	0.34%
	QC value within limits for Mn	257.610	Recovery =	104.76%			
Mn	294.920†	24358.7	0.0518 mg/L	0.00025	0.0518 mg/L	0.00025	0.48%
	QC value within limits for Mn	294.920	Recovery =	103.57%			
Mo	202.031†	1336.1	0.0526 mg/L	0.00115	0.0526 mg/L	0.00115	2.19%
	QC value within limits for Mo	202.031	Recovery =	105.28%			
Na	589.592†	19380.6	2.684 mg/L	0.0161	2.684 mg/L	0.0161	0.60%
	QC value within limits for Na	589.592	Recovery =	107.36%			
Ni	231.604†	2780.2	0.0513 mg/L	0.00022	0.0513 mg/L	0.00022	0.43%
	QC value within limits for Ni	231.604	Recovery =	102.57%			
P	214.914†	961.0	0.5515 mg/L	0.00139	0.5515 mg/L	0.00139	0.25%
	QC value within limits for P	214.914	Recovery =	110.30%			
Pb	220.353†	847.9	0.0516 mg/L	0.00079	0.0516 mg/L	0.00079	1.54%
	QC value within limits for Pb	220.353	Recovery =	103.25%			
Sb	206.836†	115.1	0.0514 mg/L	0.00130	0.0514 mg/L	0.00130	2.53%
	QC value within limits for Sb	206.836	Recovery =	102.90%			
Se	196.026†	181.6	0.1050 mg/L	0.00020	0.1050 mg/L	0.00020	0.19%
	QC value within limits for Se	196.026	Recovery =	104.97%			
Sn	189.927†	410.1	0.0522 mg/L	0.00098	0.0522 mg/L	0.00098	1.88%
	QC value within limits for Sn	189.927	Recovery =	104.49%			
Sr	407.771†	5809.3	0.0052 mg/L	0.00001	0.0052 mg/L	0.00001	0.21%
	QC value within limits for Sr	407.771	Recovery =	104.32%			
Ti	337.279†	48127.4	0.0521 mg/L	0.00010	0.0521 mg/L	0.00010	0.20%
	QC value within limits for Ti	337.279	Recovery =	104.23%			
Tl	190.801†	67.0	0.0498 mg/L	0.00316	0.0498 mg/L	0.00316	6.35%
	QC value within limits for Tl	190.801	Recovery =	99.60%			
V	292.402†	12698.5	0.0528 mg/L	0.00030	0.0528 mg/L	0.00030	0.56%
	QC value within limits for V	292.402	Recovery =	105.54%			
Zn	213.857†	8997.7	0.0553 mg/L	0.00017	0.0553 mg/L	0.00017	0.31%
	QC value greater than the upper limit for Zn	213.857	Recovery =	110.63%			
QC Failed. Continue with analysis.							

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Sequence No.: 9                               Autosampler Location: 7
Sample ID: CRL2                               Date Collected: 6/25/2013 2:32:13 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:26 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: CRL2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3257056.9	3257056.9	0.963	mg/L			14:34:21
1	Ag 328.068†	2763.2	2131.7	0.0109	mg/L	0.0109	mg/L	14:34:23
1	Al 237.313†	646.1	1058.2	0.1042	mg/L	0.1042	mg/L	14:34:23
1	As 188.979†	31.6	31.8	0.0220	mg/L	0.0220	mg/L	14:34:33
1	B 249.677†	34.4	50.9	0.0233	mg/L	0.0233	mg/L	14:34:05
1	B 182.528†	17.9	25.5	0.0249	mg/L	0.0249	mg/L	14:34:33
1	Ba 233.527†	2608.9	2796.1	0.0218	mg/L	0.0218	mg/L	14:34:33
1	Be 313.107†	4536.1	6141.7	0.0024	mg/L	0.0024	mg/L	14:34:23
1	Ca 315.887†	20355.0	21848.6	0.2039	mg/L	0.2039	mg/L	14:34:23
1	Cd 228.802†	542.5	415.8	0.0126	mg/L	0.0126	mg/L	14:34:33
1	Co 228.616†	1124.7	1345.5	0.0193	mg/L	0.0193	mg/L	14:34:33
1	Cr 267.716†	3394.8	2813.3	0.0219	mg/L	0.0219	mg/L	14:34:23
1	Cu 324.752†	8920.0	5303.2	0.0240	mg/L	0.0240	mg/L	14:34:23
1	Fe 234.349†	223.2	233.4	0.1255	mg/L	0.1255	mg/L	14:34:05
1	K 766.490†	3080.2	2452.5	1.191	mg/L	1.191	mg/L	14:33:55
1	Li 670.784†	495.0	786.5	0.0204	mg/L	0.0204	mg/L	14:33:55
1	Mg 279.077†	3323.9	3162.7	0.2034	mg/L	0.2034	mg/L	14:34:23
1	Mn 257.610†	35032.1	20312.8	0.0218	mg/L	0.0218	mg/L	14:34:23
1	Mn 294.920†	8990.8	9974.0	0.0211	mg/L	0.0211	mg/L	14:34:23
1	Mo 202.031†	515.3	545.3	0.0231	mg/L	0.0231	mg/L	14:34:33
1	Na 589.592†	11689.3	7908.2	1.147	mg/L	1.147	mg/L	14:33:55
1	Ni 231.604†	1323.8	1197.1	0.0218	mg/L	0.0218	mg/L	14:34:23
1	P 214.914†	339.6	398.6	0.2571	mg/L	0.2571	mg/L	14:34:33
1	Pb 220.353†	476.2	311.3	0.0202	mg/L	0.0202	mg/L	14:34:33
1	Sb 206.836†	87.6	46.1	0.0232	mg/L	0.0232	mg/L	14:34:33
1	Se 196.026†	88.2	74.7	0.0458	mg/L	0.0458	mg/L	14:34:33
1	Sn 189.927†	208.4	178.9	0.0237	mg/L	0.0237	mg/L	14:34:33
1	Sr 407.771†	2528.5	2379.2	0.0023	mg/L	0.0023	mg/L	14:33:55
1	Ti 337.279†	17658.8	19629.6	0.0229	mg/L	0.0229	mg/L	14:34:23
1	Tl 190.801†	19.6	27.5	0.0202	mg/L	0.0202	mg/L	14:34:33
1	V 292.402†	4162.0	5222.5	0.0231	mg/L	0.0231	mg/L	14:34:23
1	Zn 213.857†	4418.8	3717.7	0.0231	mg/L	0.0231	mg/L	14:34:23
2	Y 371.029	3282229.2	3282229.2	0.971	mg/L			14:34:36
2	Ag 328.068†	2798.2	2145.8	0.0110	mg/L	0.0110	mg/L	14:34:38
2	Al 237.313†	604.2	1009.9	0.0998	mg/L	0.0998	mg/L	14:34:38
2	As 188.979†	39.8	40.0	0.0271	mg/L	0.0271	mg/L	14:34:48
2	B 249.677†	43.0	59.5	0.0268	mg/L	0.0268	mg/L	14:34:17
2	B 182.528†	20.6	28.2	0.0270	mg/L	0.0270	mg/L	14:34:48
2	Ba 233.527†	2602.7	2768.9	0.0216	mg/L	0.0216	mg/L	14:34:48
2	Be 313.107†	4488.4	6056.4	0.0023	mg/L	0.0023	mg/L	14:34:38
2	Ca 315.887†	20573.4	21911.5	0.2045	mg/L	0.2045	mg/L	14:34:38
2	Cd 228.802†	528.4	396.9	0.0121	mg/L	0.0121	mg/L	14:34:48
2	Co 228.616†	1150.8	1363.4	0.0196	mg/L	0.0196	mg/L	14:34:48
2	Cr 267.716†	3328.7	2718.2	0.0212	mg/L	0.0212	mg/L	14:34:38
2	Cu 324.752†	8963.6	5277.2	0.0239	mg/L	0.0239	mg/L	14:34:38
2	Fe 234.349†	209.6	217.5	0.1176	mg/L	0.1176	mg/L	14:34:17
2	K 766.490†	3095.7	2443.9	1.187	mg/L	1.187	mg/L	14:34:07
2	Li 670.784†	621.1	912.5	0.0233	mg/L	0.0233	mg/L	14:34:07
2	Mg 279.077†	3429.4	3245.0	0.2087	mg/L	0.2087	mg/L	14:34:38
2	Mn 257.610†	35202.4	20209.3	0.0216	mg/L	0.0216	mg/L	14:34:38
2	Mn 294.920†	9008.7	9920.8	0.0210	mg/L	0.0210	mg/L	14:34:38
2	Mo 202.031†	503.2	528.8	0.0225	mg/L	0.0225	mg/L	14:34:48
2	Na 589.592†	11702.1	7828.4	1.136	mg/L	1.136	mg/L	14:34:07
2	Ni 231.604†	1350.0	1213.5	0.0221	mg/L	0.0221	mg/L	14:34:38
2	P 214.914†	315.5	371.1	0.2427	mg/L	0.2427	mg/L	14:34:48
2	Pb 220.353†	490.4	322.0	0.0208	mg/L	0.0208	mg/L	14:34:48
2	Sb 206.836†	86.4	44.2	0.0224	mg/L	0.0224	mg/L	14:34:48
2	Se 196.026†	81.9	67.6	0.0418	mg/L	0.0418	mg/L	14:34:48
2	Sn 189.927†	188.5	156.7	0.0209	mg/L	0.0209	mg/L	14:34:48
2	Sr 407.771†	2577.2	2409.2	0.0023	mg/L	0.0023	mg/L	14:34:07
2	Ti 337.279†	17924.5	19762.7	0.0230	mg/L	0.0230	mg/L	14:34:38
2	Tl 190.801†	22.1	29.8	0.0220	mg/L	0.0220	mg/L	14:34:48
2	V 292.402†	4149.2	5176.2	0.0229	mg/L	0.0229	mg/L	14:34:38
2	Zn 213.857†	4346.3	3607.9	0.0225	mg/L	0.0225	mg/L	14:34:38

Mean Data: CRL2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3269643.1	0.967 mg/L	0.0053			0.54%

Ag	328.068†	2138.8	0.0109 mg/L	0.00005	0.0109 mg/L	0.00005	0.44%
	QC value within limits for Ag 328.068 Recovery = 109.25%						
Al	237.313†	1034.0	0.1020 mg/L	0.00313	0.1020 mg/L	0.00313	3.07%
	QC value within limits for Al 237.313 Recovery = 101.97%						
As	188.979†	35.9	0.0245 mg/L	0.00355	0.0245 mg/L	0.00355	14.47%
	QC value greater than the upper limit for As 188.979 Recovery = 122.74%						
B	249.677†	55.2	0.0251 mg/L	0.00248	0.0251 mg/L	0.00248	9.89%
	QC value greater than the upper limit for B 249.677 Recovery = 125.35%						
B	182.528†	26.9	0.0259 mg/L	0.00154	0.0259 mg/L	0.00154	5.93%
	QC value greater than the upper limit for B 182.528 Recovery = 129.73%						
Ba	233.527†	2782.5	0.0217 mg/L	0.00015	0.0217 mg/L	0.00015	0.67%
	QC value within limits for Ba 233.527 Recovery = 108.45%						
Be	313.107†	6099.1	0.0024 mg/L	0.00002	0.0024 mg/L	0.00002	0.90%
	QC value within limits for Be 313.107 Recovery = 117.96%						
Ca	315.887†	21880.0	0.2042 mg/L	0.00040	0.2042 mg/L	0.00040	0.20%
	QC value within limits for Ca 315.887 Recovery = 102.09%						
Cd	228.802†	406.3	0.0124 mg/L	0.00036	0.0124 mg/L	0.00036	2.88%
	QC value greater than the upper limit for Cd 228.802 Recovery = 123.66%						
Co	228.616†	1354.5	0.0195 mg/L	0.00020	0.0195 mg/L	0.00020	1.04%
	QC value within limits for Co 228.616 Recovery = 97.41%						
Cr	267.716†	2765.8	0.0216 mg/L	0.00051	0.0216 mg/L	0.00051	2.37%
	QC value within limits for Cr 267.716 Recovery = 107.81%						
Cu	324.752†	5290.2	0.0239 mg/L	0.00008	0.0239 mg/L	0.00008	0.33%
	QC value within limits for Cu 324.752 Recovery = 119.63%						
Fe	234.349†	225.5	0.1216 mg/L	0.00556	0.1216 mg/L	0.00556	4.57%
	QC value greater than the upper limit for Fe 234.349 Recovery = 121.57%						
K	766.490†	2448.2	1.189 mg/L	0.0026	1.189 mg/L	0.0026	0.22%
	QC value within limits for K 766.490 Recovery = 118.89%						
Li	670.784†	849.5	0.0218 mg/L	0.00209	0.0218 mg/L	0.00209	9.58%
	QC value within limits for Li 670.784 Recovery = 109.22%						
Mg	279.077†	3203.8	0.2061 mg/L	0.00378	0.2061 mg/L	0.00378	1.83%
	QC value within limits for Mg 279.077 Recovery = 103.04%						
Mn	257.610†	20261.0	0.0217 mg/L	0.00008	0.0217 mg/L	0.00008	0.36%
	QC value within limits for Mn 257.610 Recovery = 108.52%						
Mn	294.920†	9947.4	0.0210 mg/L	0.00008	0.0210 mg/L	0.00008	0.38%
	QC value within limits for Mn 294.920 Recovery = 105.23%						
Mo	202.031†	537.1	0.0228 mg/L	0.00044	0.0228 mg/L	0.00044	1.92%
	QC value within limits for Mo 202.031 Recovery = 114.05%						
Na	589.592†	7868.3	1.141 mg/L	0.0076	1.141 mg/L	0.0076	0.66%
	QC value within limits for Na 589.592 Recovery = 114.14%						
Ni	231.604†	1205.3	0.0219 mg/L	0.00022	0.0219 mg/L	0.00022	0.99%
	QC value within limits for Ni 231.604 Recovery = 109.68%						
P	214.914†	384.8	0.2499 mg/L	0.01019	0.2499 mg/L	0.01019	4.08%
	QC value greater than the upper limit for P 214.914 Recovery = 124.96%						
Pb	220.353†	316.6	0.0205 mg/L	0.00045	0.0205 mg/L	0.00045	2.17%
	QC value within limits for Pb 220.353 Recovery = 102.46%						
Sb	206.836†	45.1	0.0228 mg/L	0.00054	0.0228 mg/L	0.00054	2.38%
	QC value within limits for Sb 206.836 Recovery = 114.05%						
Se	196.026†	71.1	0.0438 mg/L	0.00279	0.0438 mg/L	0.00279	6.36%
	QC value within limits for Se 196.026 Recovery = 109.53%						
Sn	189.927†	167.8	0.0223 mg/L	0.00193	0.0223 mg/L	0.00193	8.64%
	QC value within limits for Sn 189.927 Recovery = 111.55%						
Sr	407.771†	2394.2	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	0.77%
	QC value within limits for Sr 407.771 Recovery = 116.26%						
Ti	337.279†	19696.1	0.0230 mg/L	0.00010	0.0230 mg/L	0.00010	0.42%
	QC value within limits for Ti 337.279 Recovery = 114.87%						
Tl	190.801†	28.7	0.0211 mg/L	0.00124	0.0211 mg/L	0.00124	5.89%
	QC value within limits for Tl 190.801 Recovery = 105.51%						
V	292.402†	5199.3	0.0230 mg/L	0.00014	0.0230 mg/L	0.00014	0.59%
	QC value within limits for V 292.402 Recovery = 114.93%						
Zn	213.857†	3662.8	0.0228 mg/L	0.00048	0.0228 mg/L	0.00048	2.10%
	QC value within limits for Zn 213.857 Recovery = 113.96%						
QC Failed. Continue with analysis.							

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Sequence No.: 10                               Autosampler Location: 8
Sample ID: CRL3                               Date Collected: 6/25/2013 2:36:29 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:26 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: CRL3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3249147.0	3249147.0	0.961	mg/L			14:38:37
1	Ag 328.068†	1783.1	1118.7	0.0060	mg/L	0.0060	mg/L	14:38:39
1	Al 237.313†	105.6	497.3	0.0527	mg/L	0.0527	mg/L	14:38:39
1	As 188.979†	13.7	13.2	0.0107	mg/L	0.0107	mg/L	14:38:49
1	B 249.677†	10.1	25.7	0.0130	mg/L	0.0130	mg/L	14:38:21
1	B 182.528†	3.9	11.1	0.0130	mg/L	0.0130	mg/L	14:38:49
1	Ba 233.527†	1259.4	1398.3	0.0112	mg/L	0.0112	mg/L	14:38:49
1	Be 313.107†	1435.8	2926.9	0.0012	mg/L	0.0012	mg/L	14:38:39
1	Ca 315.887†	9413.3	10513.7	0.1024	mg/L	0.1024	mg/L	14:38:39
1	Cd 228.802†	340.1	206.4	0.0070	mg/L	0.0070	mg/L	14:38:49
1	Co 228.616†	488.7	686.5	0.0089	mg/L	0.0089	mg/L	14:38:49
1	Cr 267.716†	2169.3	1546.7	0.0123	mg/L	0.0123	mg/L	14:38:39
1	Cu 324.752†	6573.4	2883.9	0.0136	mg/L	0.0136	mg/L	14:38:39
1	Fe 234.349†	120.5	127.1	0.0732	mg/L	0.0732	mg/L	14:38:21
1	K 766.490†	1760.4	1086.8	0.6075	mg/L	0.6075	mg/L	14:38:11
1	Li 670.784†	212.8	494.0	0.0135	mg/L	0.0135	mg/L	14:38:11
1	Mg 279.077†	1744.7	1527.7	0.0972	mg/L	0.0972	mg/L	14:38:39
1	Mn 257.610†	25271.3	10243.9	0.0109	mg/L	0.0109	mg/L	14:38:39
1	Mn 294.920†	4153.7	4963.1	0.0104	mg/L	0.0104	mg/L	14:38:39
1	Mo 202.031†	251.8	272.5	0.0129	mg/L	0.0129	mg/L	14:38:49
1	Na 589.592†	7718.3	3805.4	0.5970	mg/L	0.5970	mg/L	14:38:11
1	Ni 231.604†	820.8	677.0	0.0121	mg/L	0.0121	mg/L	14:38:39
1	P 214.914†	135.2	186.8	0.1462	mg/L	0.1462	mg/L	14:38:49
1	Pb 220.353†	345.4	176.4	0.0123	mg/L	0.0123	mg/L	14:38:49
1	Sb 206.836†	57.6	15.2	0.0105	mg/L	0.0105	mg/L	14:38:49
1	Se 196.026†	55.6	41.0	0.0271	mg/L	0.0271	mg/L	14:38:49
1	Sn 189.927†	117.6	85.0	0.0121	mg/L	0.0121	mg/L	14:38:49
1	Sr 407.771†	1327.1	1135.4	0.0013	mg/L	0.0013	mg/L	14:38:11
1	Ti 337.279†	8046.2	9671.1	0.0127	mg/L	0.0127	mg/L	14:38:39
1	Tl 190.801†	9.4	16.9	0.0123	mg/L	0.0123	mg/L	14:38:49
1	V 292.402†	1426.0	2385.8	0.0118	mg/L	0.0118	mg/L	14:38:39
1	Zn 213.857†	2674.8	1914.0	0.0121	mg/L	0.0121	mg/L	14:38:49
2	Y 371.029	3207728.8	3207728.8	0.949	mg/L			14:38:52
2	Ag 328.068†	1711.2	1066.9	0.0058	mg/L	0.0058	mg/L	14:38:54
2	Al 237.313†	217.7	616.9	0.0637	mg/L	0.0637	mg/L	14:38:54
2	As 188.979†	13.7	13.4	0.0108	mg/L	0.0108	mg/L	14:39:04
2	B 249.677†	15.5	31.5	0.0154	mg/L	0.0154	mg/L	14:38:33
2	B 182.528†	5.5	12.8	0.0144	mg/L	0.0144	mg/L	14:39:04
2	Ba 233.527†	1244.2	1399.2	0.0112	mg/L	0.0112	mg/L	14:39:04
2	Be 313.107†	1374.9	2882.0	0.0012	mg/L	0.0012	mg/L	14:38:54
2	Ca 315.887†	9388.7	10614.3	0.1033	mg/L	0.1033	mg/L	14:38:54
2	Cd 228.802†	349.0	220.5	0.0074	mg/L	0.0074	mg/L	14:39:04
2	Co 228.616†	469.9	673.2	0.0086	mg/L	0.0086	mg/L	14:39:04
2	Cr 267.716†	2229.6	1639.4	0.0130	mg/L	0.0130	mg/L	14:38:54
2	Cu 324.752†	6484.7	2878.7	0.0136	mg/L	0.0136	mg/L	14:38:54
2	Fe 234.349†	115.5	123.4	0.0713	mg/L	0.0713	mg/L	14:38:33
2	K 766.490†	1877.0	1233.4	0.6701	mg/L	0.6701	mg/L	14:38:23
2	Li 670.784†	273.9	561.3	0.0151	mg/L	0.0151	mg/L	14:38:23
2	Mg 279.077†	1846.3	1658.3	0.1057	mg/L	0.1057	mg/L	14:38:54
2	Mn 257.610†	25234.6	10544.7	0.0113	mg/L	0.0113	mg/L	14:38:54
2	Mn 294.920†	3938.1	4791.6	0.0100	mg/L	0.0100	mg/L	14:38:54
2	Mo 202.031†	262.1	286.7	0.0135	mg/L	0.0135	mg/L	14:39:04
2	Na 589.592†	7531.5	3712.2	0.5845	mg/L	0.5845	mg/L	14:38:23
2	Ni 231.604†	822.2	689.5	0.0123	mg/L	0.0123	mg/L	14:38:54
2	P 214.914†	136.6	190.0	0.1479	mg/L	0.1479	mg/L	14:39:04
2	Pb 220.353†	331.9	166.8	0.0117	mg/L	0.0117	mg/L	14:39:04
2	Sb 206.836†	59.4	17.8	0.0116	mg/L	0.0116	mg/L	14:39:04
2	Se 196.026†	51.4	37.3	0.0251	mg/L	0.0251	mg/L	14:39:04
2	Sn 189.927†	132.0	101.7	0.0141	mg/L	0.0141	mg/L	14:39:04
2	Sr 407.771†	1246.5	1068.3	0.0012	mg/L	0.0012	mg/L	14:38:23
2	Ti 337.279†	7899.0	9623.9	0.0126	mg/L	0.0126	mg/L	14:38:54
2	Tl 190.801†	5.5	13.0	0.0093	mg/L	0.0093	mg/L	14:39:04
2	V 292.402†	1587.7	2575.3	0.0126	mg/L	0.0126	mg/L	14:38:54
2	Zn 213.857†	2667.1	1941.9	0.0123	mg/L	0.0123	mg/L	14:39:04

Mean Data: CRL3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3228437.9	0.955 mg/L	0.0087			0.91%

Ag	328.068†	1092.8	0.0059 mg/L	0.00018	0.0059 mg/L	0.00018	2.98%
	QC value within limits for Ag 328.068 Recovery = 118.01%						
Al	237.313†	557.1	0.0582 mg/L	0.00776	0.0582 mg/L	0.00776	13.32%
	QC value within limits for Al 237.313 Recovery = 116.44%						
As	188.979†	13.3	0.0108 mg/L	0.00009	0.0108 mg/L	0.00009	0.86%
	QC value within limits for As 188.979 Recovery = 107.82%						
B	249.677†	28.6	0.0142 mg/L	0.00167	0.0142 mg/L	0.00167	11.78%
	QC value greater than the upper limit for B 249.677 Recovery = 142.17%						
B	182.528†	11.9	0.0137 mg/L	0.00100	0.0137 mg/L	0.00100	7.28%
	QC value greater than the upper limit for B 182.528 Recovery = 136.72%						
Ba	233.527†	1398.8	0.0112 mg/L	0.00001	0.0112 mg/L	0.00001	0.05%
	QC value within limits for Ba 233.527 Recovery = 112.00%						
Be	313.107†	2904.5	0.0012 mg/L	0.00001	0.0012 mg/L	0.00001	0.90%
	QC value greater than the upper limit for Be 313.107 Recovery = 123.54%						
Ca	315.887†	10564.0	0.1029 mg/L	0.00064	0.1029 mg/L	0.00064	0.62%
	QC value within limits for Ca 315.887 Recovery = 102.86%						
Cd	228.802†	213.5	0.0072 mg/L	0.00027	0.0072 mg/L	0.00027	3.68%
	QC value greater than the upper limit for Cd 228.802 Recovery = 144.16%						
Co	228.616†	679.8	0.0087 mg/L	0.00015	0.0087 mg/L	0.00015	1.70%
	QC value within limits for Co 228.616 Recovery = 87.45%						
Cr	267.716†	1593.0	0.0126 mg/L	0.00050	0.0126 mg/L	0.00050	3.95%
	QC value greater than the upper limit for Cr 267.716 Recovery = 126.33%						
Cu	324.752†	2881.3	0.0136 mg/L	0.00002	0.0136 mg/L	0.00002	0.12%
	QC value greater than the upper limit for Cu 324.752 Recovery = 136.30%						
Fe	234.349†	125.3	0.0723 mg/L	0.00129	0.0723 mg/L	0.00129	1.79%
	QC value greater than the upper limit for Fe 234.349 Recovery = 144.52%						
K	766.490†	1160.1	0.6388 mg/L	0.04425	0.6388 mg/L	0.04425	6.93%
	QC value greater than the upper limit for K 766.490 Recovery = 127.77%						
Li	670.784†	527.6	0.0143 mg/L	0.00112	0.0143 mg/L	0.00112	7.82%
	QC value greater than the upper limit for Li 670.784 Recovery = 142.86%						
Mg	279.077†	1593.0	0.1015 mg/L	0.00600	0.1015 mg/L	0.00600	5.91%
	QC value within limits for Mg 279.077 Recovery = 101.46%						
Mn	257.610†	10394.3	0.0111 mg/L	0.00023	0.0111 mg/L	0.00023	2.06%
	QC value within limits for Mn 257.610 Recovery = 111.02%						
Mn	294.920†	4877.3	0.0102 mg/L	0.00026	0.0102 mg/L	0.00026	2.53%
	QC value within limits for Mn 294.920 Recovery = 102.31%						
Mo	202.031†	279.6	0.0132 mg/L	0.00038	0.0132 mg/L	0.00038	2.87%
	QC value greater than the upper limit for Mo 202.031 Recovery = 132.03%						
Na	589.592†	3758.8	0.5908 mg/L	0.00883	0.5908 mg/L	0.00883	1.50%
	QC value within limits for Na 589.592 Recovery = 118.16%						
Ni	231.604†	683.2	0.0122 mg/L	0.00016	0.0122 mg/L	0.00016	1.35%
	QC value greater than the upper limit for Ni 231.604 Recovery = 122.06%						
P	214.914†	188.4	0.1471 mg/L	0.00121	0.1471 mg/L	0.00121	0.82%
	QC value greater than the upper limit for P 214.914 Recovery = 147.09%						
Pb	220.353†	171.6	0.0120 mg/L	0.00040	0.0120 mg/L	0.00040	3.31%
	QC value within limits for Pb 220.353 Recovery = 119.86%						
Sb	206.836†	16.5	0.0111 mg/L	0.00078	0.0111 mg/L	0.00078	6.99%
	QC value within limits for Sb 206.836 Recovery = 110.97%						
Se	196.026†	39.2	0.0261 mg/L	0.00144	0.0261 mg/L	0.00144	5.49%
	QC value greater than the upper limit for Se 196.026 Recovery = 130.62%						
Sn	189.927†	93.3	0.0131 mg/L	0.00145	0.0131 mg/L	0.00145	11.08%
	QC value greater than the upper limit for Sn 189.927 Recovery = 130.99%						
Sr	407.771†	1101.9	0.0012 mg/L	0.00004	0.0012 mg/L	0.00004	3.27%
	QC value greater than the upper limit for Sr 407.771 Recovery = 123.13%						
Ti	337.279†	9647.5	0.0127 mg/L	0.00003	0.0127 mg/L	0.00003	0.27%
	QC value greater than the upper limit for Ti 337.279 Recovery = 126.73%						
Tl	190.801†	14.9	0.0108 mg/L	0.00212	0.0108 mg/L	0.00212	19.60%
	QC value within limits for Tl 190.801 Recovery = 108.33%						
V	292.402†	2480.6	0.0122 mg/L	0.00053	0.0122 mg/L	0.00053	4.35%
	QC value greater than the upper limit for V 292.402 Recovery = 122.10%						
Zn	213.857†	1928.0	0.0122 mg/L	0.00012	0.0122 mg/L	0.00012	0.98%
	QC value greater than the upper limit for Zn 213.857 Recovery = 122.18%						
QC Failed. Continue with analysis.							

Sequence No.: 11
Sample ID: IFA
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/25/2013 2:40:45 PM
Data Type: Reprocessed on 6/26/2013 10:56:27 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: IFA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3036670.9	3036670.9	0.898	mg/L			14:42:42
1	Ag 328.068†	428.0	-260.3	0.0019	mg/L	0.0019	mg/L	14:42:45
1	Al 237.313†	2547385.1	2836761.1	260.1	mg/L	260.1	mg/L	14:42:42
1	As 188.979†	16.9	17.8	0.0135	mg/L	0.0135	mg/L	14:42:55
1	B 249.677†	-44.7	-34.6	-0.0116	mg/L	-0.0116	mg/L	14:42:29
1	B 182.528†	26.2	36.2	0.0336	mg/L	0.0336	mg/L	14:42:55
1	Ba 233.527†	55.2	149.2	0.0017	mg/L	0.0017	mg/L	14:42:55
1	Be 313.107†	4377.0	6306.3	-0.0001	mg/L	-0.0001	mg/L	14:42:45
1	Ca 315.887†	23911119.0	26624439.0	238.3	mg/L	238.3	mg/L	14:42:39
1	Cd 228.802†	179.8	52.8	0.0012	mg/L	0.0012	mg/L	14:42:55
1	Co 228.616†	951.8	1237.7	-0.0049	mg/L	-0.0049	mg/L	14:42:55
1	Cr 267.716†	1709.6	1192.7	0.0096	mg/L	0.0096	mg/L	14:42:55
1	Cu 324.752†	1867.7	-1877.1	0.0058	mg/L	0.0058	mg/L	14:42:45
1	Fe 234.349†	178762.0	199043.3	98.17	mg/L	98.17	mg/L	14:42:27
1	K 766.490†	679.9	11.9	0.1485	mg/L	0.1485	mg/L	14:42:29
1	Li 670.784†	-196.2	54.2	0.0032	mg/L	0.0032	mg/L	14:42:29
1	Mg 279.077†	3428922.6	3817629.6	247.9	mg/L	247.9	mg/L	14:42:42
1	Mn 257.610†	30024.4	17376.3	-0.0036	mg/L	-0.0036	mg/L	14:42:45
1	Mn 294.920†	22675.7	25888.8	0.0550	mg/L	0.0550	mg/L	14:42:45
1	Mo 202.031†	253.6	292.8	-0.0010	mg/L	-0.0010	mg/L	14:42:55
1	Na 589.592†	4274.1	532.5	0.1585	mg/L	0.1585	mg/L	14:42:29
1	Ni 231.604†	429.0	300.5	0.0051	mg/L	0.0051	mg/L	14:42:55
1	P 214.914†	-260.5	-244.0	-0.0794	mg/L	-0.0794	mg/L	14:42:55
1	Pb 220.353†	1096.7	1038.1	-0.0019	mg/L	-0.0019	mg/L	14:42:55
1	Sb 206.836†	88.9	54.2	-0.0153	mg/L	-0.0153	mg/L	14:42:55
1	Se 196.026†	-8.0	-25.8	-0.0040	mg/L	-0.0040	mg/L	14:42:55
1	Sn 189.927†	-1029.2	-1183.4	0.0036	mg/L	0.0036	mg/L	14:42:55
1	Sr 407.771†	8593.0	9322.2	0.0082	mg/L	0.0082	mg/L	14:42:29
1	Ti 337.279†	9197893.2	10242648.0	10.50	mg/L	10.50	mg/L	14:42:42
1	Tl 190.801†	58.3	72.0	-0.0261	mg/L	-0.0261	mg/L	14:42:55
1	V 292.402†	3123.5	4379.7	-0.0015	mg/L	-0.0015	mg/L	14:42:55
1	Zn 213.857†	1522.1	825.4	0.0011	mg/L	0.0011	mg/L	14:42:55
2	Y 371.029	3032006.1	3032006.1	0.897	mg/L			14:43:02
2	Ag 328.068†	468.6	-214.3	0.0021	mg/L	0.0021	mg/L	14:43:04
2	Al 237.313†	2536017.6	2828448.5	259.3	mg/L	259.3	mg/L	14:43:02
2	As 188.979†	18.5	19.6	0.0146	mg/L	0.0146	mg/L	14:43:14
2	B 249.677†	-39.7	-29.1	-0.0093	mg/L	-0.0093	mg/L	14:42:34
2	B 182.528†	25.2	35.1	0.0327	mg/L	0.0327	mg/L	14:43:14
2	Ba 233.527†	78.2	175.0	0.0019	mg/L	0.0019	mg/L	14:43:14
2	Be 313.107†	4370.6	6306.7	-0.0001	mg/L	-0.0001	mg/L	14:43:04
2	Ca 315.887†	23742262.6	26477098.7	237.0	mg/L	237.0	mg/L	14:42:59
2	Cd 228.802†	172.9	45.4	0.0010	mg/L	0.0010	mg/L	14:43:14
2	Co 228.616†	940.0	1226.1	-0.0050	mg/L	-0.0050	mg/L	14:43:14
2	Cr 267.716†	1595.3	1068.2	0.0086	mg/L	0.0086	mg/L	14:43:14
2	Cu 324.752†	1931.6	-1802.6	0.0061	mg/L	0.0061	mg/L	14:43:04
2	Fe 234.349†	180986.5	201830.3	99.56	mg/L	99.56	mg/L	14:42:32
2	K 766.490†	708.2	44.6	0.1625	mg/L	0.1625	mg/L	14:42:34
2	Li 670.784†	-182.1	69.5	0.0035	mg/L	0.0035	mg/L	14:42:34
2	Mg 279.077†	3414595.7	3807526.8	247.2	mg/L	247.2	mg/L	14:43:02
2	Mn 257.610†	29950.3	17345.1	-0.0040	mg/L	-0.0040	mg/L	14:43:04
2	Mn 294.920†	22861.2	26134.4	0.0556	mg/L	0.0556	mg/L	14:43:04
2	Mo 202.031†	291.6	335.6	0.0004	mg/L	0.0004	mg/L	14:43:14
2	Na 589.592†	4296.8	565.1	0.1629	mg/L	0.1629	mg/L	14:42:34
2	Ni 231.604†	390.9	258.8	0.0043	mg/L	0.0043	mg/L	14:43:14
2	P 214.914†	-274.0	-259.5	-0.0875	mg/L	-0.0875	mg/L	14:43:14
2	Pb 220.353†	1138.5	1086.5	0.0011	mg/L	0.0011	mg/L	14:43:14
2	Sb 206.836†	93.4	59.4	-0.0137	mg/L	-0.0137	mg/L	14:43:14
2	Se 196.026†	7.0	-9.1	0.0053	mg/L	0.0053	mg/L	14:43:14
2	Sn 189.927†	-999.8	-1152.4	0.0066	mg/L	0.0066	mg/L	14:43:14
2	Sr 407.771†	8560.0	9300.1	0.0082	mg/L	0.0082	mg/L	14:42:34
2	Ti 337.279†	9162426.2	10218853.4	10.48	mg/L	10.48	mg/L	14:43:02
2	Tl 190.801†	51.2	64.2	-0.0324	mg/L	-0.0324	mg/L	14:43:14
2	V 292.402†	3145.2	4409.3	-0.0013	mg/L	-0.0013	mg/L	14:43:14
2	Zn 213.857†	1515.2	820.3	0.0010	mg/L	0.0010	mg/L	14:43:14

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3034338.5	0.897	mg/L	0.0010				0.11%

Ag	328.068†	-237.3	0.0020 mg/L	0.00018	0.0020 mg/L	0.00018	9.04%
	QC value within limits for Ag 328.068 Recovery = Not calculated						
Al	237.313†	2832604.8	259.7 mg/L	0.54	259.7 mg/L	0.54	0.21%
	QC value within limits for Al 237.313 Recovery = 103.87%						
As	188.979†	18.7	0.0140 mg/L	0.00076	0.0140 mg/L	0.00076	5.44%
	QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B	249.677†	-31.8	-0.0104 mg/L	0.00159	-0.0104 mg/L	0.00159	15.23%
	QC value less than the lower limit for B 249.677 Recovery = Not calculated						
B	182.528†	35.6	0.0332 mg/L	0.00062	0.0332 mg/L	0.00062	1.86%
	QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba	233.527†	162.1	0.0018 mg/L	0.00014	0.0018 mg/L	0.00014	7.57%
	QC value within limits for Ba 233.527 Recovery = Not calculated						
Be	313.107†	6306.5	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	5.12%
	QC value within limits for Be 313.107 Recovery = Not calculated						
Ca	315.887†	26550768.8	237.6 mg/L	0.93	237.6 mg/L	0.93	0.39%
	QC value within limits for Ca 315.887 Recovery = 95.06%						
Cd	228.802†	49.1	0.0011 mg/L	0.00016	0.0011 mg/L	0.00016	13.79%
	QC value within limits for Cd 228.802 Recovery = Not calculated						
Co	228.616†	1231.9	-0.0049 mg/L	0.00009	-0.0049 mg/L	0.00009	1.88%
	QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr	267.716†	1130.4	0.0091 mg/L	0.00067	0.0091 mg/L	0.00067	7.34%
	QC value greater than the upper limit for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	-1839.9	0.0060 mg/L	0.00020	0.0060 mg/L	0.00020	3.40%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	234.349†	200436.8	98.87 mg/L	0.977	98.87 mg/L	0.977	0.99%
	QC value within limits for Fe 234.349 Recovery = 98.87%						
K	766.490†	28.3	0.1555 mg/L	0.00988	0.1555 mg/L	0.00988	6.35%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li	670.784†	61.8	0.0033 mg/L	0.00025	0.0033 mg/L	0.00025	7.61%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	3812578.2	247.6 mg/L	0.46	247.6 mg/L	0.46	0.19%
	QC value within limits for Mg 279.077 Recovery = 99.03%						
Mn	257.610†	17360.7	-0.0038 mg/L	0.00024	-0.0038 mg/L	0.00024	6.39%
	QC value less than the lower limit for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	26011.6	0.0553 mg/L	0.00037	0.0553 mg/L	0.00037	0.67%
	QC value greater than the upper limit for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	314.2	-0.0003 mg/L	0.00099	-0.0003 mg/L	0.00099	380.30%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592†	548.8	0.1607 mg/L	0.00309	0.1607 mg/L	0.00309	1.93%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	279.6	0.0047 mg/L	0.00055	0.0047 mg/L	0.00055	11.65%
	QC value greater than the upper limit for Ni 231.604 Recovery = Not calculated						
P	214.914†	-251.8	-0.0835 mg/L	0.00574	-0.0835 mg/L	0.00574	6.88%
	QC value less than the lower limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	1062.3	-0.0004 mg/L	0.00214	-0.0004 mg/L	0.00214	537.77%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	56.8	-0.0145 mg/L	0.00111	-0.0145 mg/L	0.00111	7.66%
	QC value less than the lower limit for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-17.4	0.0006 mg/L	0.00660	0.0006 mg/L	0.00660	>999.9%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	-1167.9	0.0051 mg/L	0.00212	0.0051 mg/L	0.00212	41.56%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	9311.2	0.0082 mg/L	0.00001	0.0082 mg/L	0.00001	0.16%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	10230750.7	10.49 mg/L	0.017	10.49 mg/L	0.017	0.16%
	QC value within limits for Ti 337.279 Recovery = 104.90%						
Tl	190.801†	68.1	-0.0293 mg/L	0.00446	-0.0293 mg/L	0.00446	15.25%
	QC value less than the lower limit for Tl 190.801 Recovery = Not calculated						
V	292.402†	4394.5	-0.0014 mg/L	0.00013	-0.0014 mg/L	0.00013	9.26%
	QC value less than the lower limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	822.8	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.97%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

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Sequence No.: 12                               Autosampler Location: 159
Sample ID: IFB                                 Date Collected: 6/25/2013 2:44:53 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:28 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: IFB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3012812.3	3012812.3	0.891	mg/L			14:46:48
1	Ag 328.068†	103108.9	114978.4	0.5552	mg/L	0.5552	mg/L	14:46:50
1	Al 237.313†	2582710.6	2898867.0	265.8	mg/L	265.8	mg/L	14:46:48
1	As 188.979†	5.7	5.4	0.0055	mg/L	0.0055	mg/L	14:47:01
1	B 249.677†	-46.4	-36.8	-0.0125	mg/L	-0.0125	mg/L	14:46:35
1	B 182.528†	24.7	34.7	0.0324	mg/L	0.0324	mg/L	14:47:01
1	Ba 233.527†	30133.5	33905.5	0.2576	mg/L	0.2576	mg/L	14:47:01
1	Be 313.107†	671970.8	755560.5	0.2664	mg/L	0.2664	mg/L	14:46:48
1	Ca 315.887†	24094724.8	27041327.7	242.0	mg/L	242.0	mg/L	14:46:45
1	Cd 228.802†	17552.3	19550.8	0.5227	mg/L	0.5227	mg/L	14:47:01
1	Co 228.616†	12915.5	14672.5	0.2318	mg/L	0.2318	mg/L	14:47:01
1	Cr 267.716†	31122.0	34216.3	0.2608	mg/L	0.2608	mg/L	14:46:50
1	Cu 324.752†	57175.7	60209.5	0.2585	mg/L	0.2585	mg/L	14:46:50
1	Fe 234.349†	183687.7	206147.5	101.7	mg/L	101.7	mg/L	14:46:33
1	K 766.490†	775.8	125.6	0.1970	mg/L	0.1970	mg/L	14:46:35
1	Li 670.784†	-339.4	-108.3	-0.0006	mg/L	-0.0006	mg/L	14:46:35
1	Mg 279.077†	3483766.4	3909413.0	253.9	mg/L	253.9	mg/L	14:46:48
1	Mn 257.610†	235674.6	248434.6	0.2441	mg/L	0.2441	mg/L	14:46:50
1	Mn 294.920†	127732.8	143990.3	0.3070	mg/L	0.3070	mg/L	14:46:50
1	Mo 202.031†	264.6	307.4	-0.0024	mg/L	-0.0024	mg/L	14:47:01
1	Na 589.592†	4046.3	314.6	0.1293	mg/L	0.1293	mg/L	14:46:35
1	Ni 231.604†	22710.2	25309.7	0.4704	mg/L	0.4704	mg/L	14:46:50
1	P 214.914†	-304.8	-296.0	-0.1084	mg/L	-0.1084	mg/L	14:47:01
1	Pb 220.353†	8576.5	9441.9	0.4882	mg/L	0.4882	mg/L	14:47:01
1	Sb 206.836†	81.9	47.1	-0.0218	mg/L	-0.0218	mg/L	14:47:01
1	Se 196.026†	4.6	-11.7	0.0040	mg/L	0.0040	mg/L	14:47:01
1	Sn 189.927†	-1030.9	-1194.4	0.0046	mg/L	0.0046	mg/L	14:47:01
1	Sr 407.771†	8881.0	9721.2	0.0085	mg/L	0.0085	mg/L	14:46:35
1	Ti 337.279†	4447.7	6289.4	0.0092	mg/L	0.0092	mg/L	14:46:50
1	Tl 190.801†	39.6	51.6	-0.0450	mg/L	-0.0450	mg/L	14:47:01
1	V 292.402†	60609.1	68921.1	0.2727	mg/L	0.2727	mg/L	14:46:50
1	Zn 213.857†	75616.0	83991.6	0.5082	mg/L	0.5082	mg/L	14:46:50
2	Y 371.029	3006782.3	3006782.3	0.889	mg/L			14:47:07
2	Ag 328.068†	102232.1	114224.6	0.5516	mg/L	0.5516	mg/L	14:47:10
2	Al 237.313†	2565258.3	2885054.5	264.5	mg/L	264.5	mg/L	14:47:07
2	As 188.979†	14.9	15.7	0.0118	mg/L	0.0118	mg/L	14:47:20
2	B 249.677†	-46.7	-37.3	-0.0127	mg/L	-0.0127	mg/L	14:46:39
2	B 182.528†	28.3	38.8	0.0357	mg/L	0.0357	mg/L	14:47:20
2	Ba 233.527†	30214.3	34064.1	0.2588	mg/L	0.2588	mg/L	14:47:20
2	Be 313.107†	667867.9	752459.2	0.2653	mg/L	0.2653	mg/L	14:47:07
2	Ca 315.887†	24293045.8	27318571.4	244.5	mg/L	244.5	mg/L	14:47:04
2	Cd 228.802†	17581.4	19623.1	0.5246	mg/L	0.5246	mg/L	14:47:20
2	Co 228.616†	12925.7	14713.0	0.2324	mg/L	0.2324	mg/L	14:47:20
2	Cr 267.716†	30713.9	33827.3	0.2578	mg/L	0.2578	mg/L	14:47:10
2	Cu 324.752†	56662.1	59760.6	0.2566	mg/L	0.2566	mg/L	14:47:10
2	Fe 234.349†	184879.6	207901.2	102.5	mg/L	102.5	mg/L	14:46:37
2	K 766.490†	725.1	70.3	0.1734	mg/L	0.1734	mg/L	14:46:39
2	Li 670.784†	-259.3	-18.9	0.0015	mg/L	0.0015	mg/L	14:46:39
2	Mg 279.077†	3464360.2	3895431.4	252.9	mg/L	252.9	mg/L	14:47:07
2	Mn 257.610†	234075.6	247166.9	0.2426	mg/L	0.2426	mg/L	14:47:10
2	Mn 294.920†	126386.9	142764.4	0.3043	mg/L	0.3043	mg/L	14:47:10
2	Mo 202.031†	224.1	262.4	-0.0042	mg/L	-0.0042	mg/L	14:47:20
2	Na 589.592†	4087.6	370.1	0.1367	mg/L	0.1367	mg/L	14:46:39
2	Ni 231.604†	22574.3	25207.9	0.4685	mg/L	0.4685	mg/L	14:47:10
2	P 214.914†	-300.4	-291.8	-0.1062	mg/L	-0.1062	mg/L	14:47:20
2	Pb 220.353†	8523.2	9401.4	0.4861	mg/L	0.4861	mg/L	14:47:20
2	Sb 206.836†	100.7	68.5	-0.0134	mg/L	-0.0134	mg/L	14:47:20
2	Se 196.026†	5.0	-11.2	0.0043	mg/L	0.0043	mg/L	14:47:20
2	Sn 189.927†	-1038.4	-1205.1	0.0048	mg/L	0.0048	mg/L	14:47:20
2	Sr 407.771†	8920.3	9785.4	0.0086	mg/L	0.0086	mg/L	14:46:39
2	Ti 337.279†	4312.9	6147.9	0.0091	mg/L	0.0091	mg/L	14:47:10
2	Tl 190.801†	39.3	51.3	-0.0460	mg/L	-0.0460	mg/L	14:47:20
2	V 292.402†	60171.2	68565.2	0.2713	mg/L	0.2713	mg/L	14:47:10
2	Zn 213.857†	75055.2	83531.1	0.5054	mg/L	0.5054	mg/L	14:47:10

Mean Data: IFB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3009797.3	0.890 mg/L	0.0013			0.14%

Ag	328.068†	114601.5	0.5534 mg/L	0.00254	0.5534 mg/L	0.00254	0.46%
	QC value	within	limits for Ag	328.068	Recovery =	110.68%	
Al	237.313†	2891960.8	265.1 mg/L	0.90	265.1 mg/L	0.90	0.34%
	QC value	within	limits for Al	237.313	Recovery =	106.05%	
As	188.979†	10.6	0.0086 mg/L	0.00448	0.0086 mg/L	0.00448	51.80%
	QC value	within	limits for As	188.979	Recovery =	Not calculated	
B	249.677†	-37.0	-0.0126 mg/L	0.00013	-0.0126 mg/L	0.00013	1.02%
	QC value	within	limits for B	249.677	Recovery =	Not calculated	
B	182.528†	36.7	0.0341 mg/L	0.00238	0.0341 mg/L	0.00238	7.00%
	QC value	within	limits for B	182.528	Recovery =	Not calculated	
Ba	233.527†	33984.8	0.2582 mg/L	0.00085	0.2582 mg/L	0.00085	0.33%
	QC value	within	limits for Ba	233.527	Recovery =	103.29%	
Be	313.107†	754009.8	0.2659 mg/L	0.00077	0.2659 mg/L	0.00077	0.29%
	QC value	within	limits for Be	313.107	Recovery =	106.35%	
Ca	315.887†	27179949.5	243.3 mg/L	1.75	243.3 mg/L	1.75	0.72%
	QC value	within	limits for Ca	315.887	Recovery =	97.31%	
Cd	228.802†	19587.0	0.5236 mg/L	0.00136	0.5236 mg/L	0.00136	0.26%
	QC value	within	limits for Cd	228.802	Recovery =	104.73%	
Co	228.616†	14692.8	0.2321 mg/L	0.00046	0.2321 mg/L	0.00046	0.20%
	QC value	within	limits for Co	228.616	Recovery =	92.84%	
Cr	267.716†	34021.8	0.2593 mg/L	0.00209	0.2593 mg/L	0.00209	0.81%
	QC value	within	limits for Cr	267.716	Recovery =	103.72%	
Cu	324.752†	59985.1	0.2575 mg/L	0.00136	0.2575 mg/L	0.00136	0.53%
	QC value	within	limits for Cu	324.752	Recovery =	103.02%	
Fe	234.349†	207024.4	102.1 mg/L	0.61	102.1 mg/L	0.61	0.60%
	QC value	within	limits for Fe	234.349	Recovery =	102.11%	
K	766.490†	97.9	0.1852 mg/L	0.01669	0.1852 mg/L	0.01669	9.01%
	QC value	within	limits for K	766.490	Recovery =	Not calculated	
Li	670.784†	-63.6	0.0004 mg/L	0.00148	0.0004 mg/L	0.00148	368.62%
	QC value	within	limits for Li	670.784	Recovery =	Not calculated	
Mg	279.077†	3902422.2	253.4 mg/L	0.64	253.4 mg/L	0.64	0.25%
	QC value	within	limits for Mg	279.077	Recovery =	101.36%	
Mn	257.610†	247800.7	0.2433 mg/L	0.00110	0.2433 mg/L	0.00110	0.45%
	QC value	within	limits for Mn	257.610	Recovery =	97.34%	
Mn	294.920†	143377.3	0.3057 mg/L	0.00185	0.3057 mg/L	0.00185	0.60%
	QC value	greater than the upper limit for Mn	294.920	Recovery =	122.26%		
Mo	202.031†	284.9	-0.0033 mg/L	0.00128	-0.0033 mg/L	0.00128	38.37%
	QC value	within	limits for Mo	202.031	Recovery =	Not calculated	
Na	589.592†	342.3	0.1330 mg/L	0.00526	0.1330 mg/L	0.00526	3.95%
	QC value	within	limits for Na	589.592	Recovery =	Not calculated	
Ni	231.604†	25258.8	0.4695 mg/L	0.00134	0.4695 mg/L	0.00134	0.29%
	QC value	within	limits for Ni	231.604	Recovery =	93.90%	
P	214.914†	-293.9	-0.1073 mg/L	0.00157	-0.1073 mg/L	0.00157	1.46%
	QC value	less than the lower limit for P	214.914	Recovery =	Not calculated		
Pb	220.353†	9421.7	0.4872 mg/L	0.00146	0.4872 mg/L	0.00146	0.30%
	QC value	within	limits for Pb	220.353	Recovery =	97.44%	
Sb	206.836†	57.8	-0.0176 mg/L	0.00591	-0.0176 mg/L	0.00591	33.54%
	QC value	within	limits for Sb	206.836	Recovery =	Not calculated	
Se	196.026†	-11.5	0.0041 mg/L	0.00021	0.0041 mg/L	0.00021	5.02%
	QC value	within	limits for Se	196.026	Recovery =	Not calculated	
Sn	189.927†	-1199.8	0.0047 mg/L	0.00015	0.0047 mg/L	0.00015	3.26%
	QC value	within	limits for Sn	189.927	Recovery =	Not calculated	
Sr	407.771†	9753.3	0.0086 mg/L	0.00004	0.0086 mg/L	0.00004	0.45%
	QC value	within	limits for Sr	407.771	Recovery =	Not calculated	
Ti	337.279†	6218.6	0.0092 mg/L	0.00010	0.0092 mg/L	0.00010	1.12%
	QC value	within	limits for Ti	337.279	Recovery =	Not calculated	
Tl	190.801†	51.4	-0.0455 mg/L	0.00073	-0.0455 mg/L	0.00073	1.60%
	QC value	within	limits for Tl	190.801	Recovery =	Not calculated	
V	292.402†	68743.2	0.2720 mg/L	0.00101	0.2720 mg/L	0.00101	0.37%
	QC value	within	limits for V	292.402	Recovery =	108.81%	
Zn	213.857†	83761.4	0.5068 mg/L	0.00202	0.5068 mg/L	0.00202	0.40%
	QC value	within	limits for Zn	213.857	Recovery =	101.36%	
QC Failed. Continue with analysis.							

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Sequence No.: 13                               Autosampler Location: 156
Sample ID: Ca 500                             Date Collected: 6/25/2013 2:48:58 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:28 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: Ca 500

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3082386.2	3082386.2	0.912	mg/L			14:51:12
1	Ag 328.068†	292.4	-416.0	-0.0013	mg/L	-0.0013	mg/L	14:51:14
1	Al 237.313†	-73.0	307.4	0.0353	mg/L	0.0353	mg/L	14:51:24
1	As 188.979†	12.8	13.0	0.0106	mg/L	0.0106	mg/L	14:51:24
1	B 249.677†	-20.0	-6.8	-0.0002	mg/L	-0.0002	mg/L	14:50:50
1	B 182.528†	-22.0	-17.2	-0.0103	mg/L	-0.0103	mg/L	14:51:24
1	Ba 233.527†	-62.2	19.5	0.0007	mg/L	0.0007	mg/L	14:51:24
1	Be 313.107†	-2375.8	-1173.3	-0.0002	mg/L	-0.0002	mg/L	14:51:14
1	Ca 315.887†	47613281.2	52229227.8	467.5	mg/L	467.5	mg/L	14:51:10
1	Cd 228.802†	137.2	3.0	0.0016	mg/L	0.0016	mg/L	14:51:24
1	Co 228.616†	-172.6	-11.5	-0.0023	mg/L	-0.0023	mg/L	14:51:24
1	Cr 267.716†	1120.9	518.8	0.0045	mg/L	0.0045	mg/L	14:51:14
1	Cu 324.752†	4001.5	432.6	0.0032	mg/L	0.0032	mg/L	14:51:14
1	Fe 234.349†	703.1	772.9	-0.3752	mg/L	-0.3752	mg/L	14:50:50
1	K 766.490†	663.2	-17.6	0.1359	mg/L	0.1359	mg/L	14:50:40
1	Li 670.784†	-299.8	-56.2	0.0006	mg/L	0.0006	mg/L	14:50:40
1	Mg 279.077†	873.9	670.7	0.0416	mg/L	0.0416	mg/L	14:51:14
1	Mn 257.610†	17542.7	3188.9	0.0033	mg/L	0.0033	mg/L	14:51:24
1	Mn 294.920†	-573.6	11.4	-0.0001	mg/L	-0.0001	mg/L	14:51:14
1	Mo 202.031†	367.2	413.2	0.0182	mg/L	0.0182	mg/L	14:51:24
1	Na 589.592†	3651.5	-221.0	0.0575	mg/L	0.0575	mg/L	14:50:40
1	Ni 231.604†	342.5	198.6	0.0032	mg/L	0.0032	mg/L	14:51:24
1	P 214.914†	-19.5	24.7	0.0613	mg/L	0.0613	mg/L	14:51:24
1	Pb 220.353†	-103.4	-296.5	-0.0154	mg/L	-0.0154	mg/L	14:51:24
1	Sb 206.836†	67.1	28.8	0.0161	mg/L	0.0161	mg/L	14:51:24
1	Se 196.026†	-22.4	-41.4	-0.0185	mg/L	-0.0185	mg/L	14:51:24
1	Sn 189.927†	-970.9	-1102.4	0.1553	mg/L	0.1553	mg/L	14:51:24
1	Sr 407.771†	12165.0	13098.5	0.0114	mg/L	0.0114	mg/L	14:50:40
1	Ti 337.279†	-908.6	301.2	0.0031	mg/L	0.0031	mg/L	14:51:14
1	Tl 190.801†	41.9	53.1	-0.0324	mg/L	-0.0324	mg/L	14:51:24
1	V 292.402†	-858.7	-40.0	0.0024	mg/L	0.0024	mg/L	14:51:14
1	Zn 213.857†	353.6	-481.5	-0.0025	mg/L	-0.0025	mg/L	14:51:24
2	Y 371.029	3088526.2	3088526.2	0.913	mg/L			14:51:32
2	Ag 328.068†	299.4	-409.0	-0.0013	mg/L	-0.0013	mg/L	14:51:34
2	Al 237.313†	-60.0	321.7	0.0366	mg/L	0.0366	mg/L	14:51:45
2	As 188.979†	15.1	15.5	0.0121	mg/L	0.0121	mg/L	14:51:45
2	B 249.677†	-29.2	-16.8	-0.0043	mg/L	-0.0043	mg/L	14:51:03
2	B 182.528†	-23.7	-19.0	-0.0117	mg/L	-0.0117	mg/L	14:51:45
2	Ba 233.527†	-46.4	36.9	0.0009	mg/L	0.0009	mg/L	14:51:45
2	Be 313.107†	-2473.8	-1275.5	-0.0002	mg/L	-0.0002	mg/L	14:51:34
2	Ca 315.887†	47296152.9	51778221.8	463.4	mg/L	463.4	mg/L	14:51:30
2	Cd 228.802†	138.4	4.1	0.0016	mg/L	0.0016	mg/L	14:51:45
2	Co 228.616†	-113.7	53.4	-0.0012	mg/L	-0.0012	mg/L	14:51:45
2	Cr 267.716†	1097.8	491.0	0.0043	mg/L	0.0043	mg/L	14:51:34
2	Cu 324.752†	3870.4	280.5	0.0025	mg/L	0.0025	mg/L	14:51:34
2	Fe 234.349†	706.2	774.8	-0.3677	mg/L	-0.3677	mg/L	14:51:03
2	K 766.490†	624.7	-61.2	0.1173	mg/L	0.1173	mg/L	14:50:53
2	Li 670.784†	-229.2	21.7	0.0024	mg/L	0.0024	mg/L	14:50:53
2	Mg 279.077†	857.4	650.8	0.0403	mg/L	0.0403	mg/L	14:51:34
2	Mn 257.610†	17594.2	3207.1	0.0033	mg/L	0.0033	mg/L	14:51:45
2	Mn 294.920†	-479.7	115.4	0.0001	mg/L	0.0001	mg/L	14:51:34
2	Mo 202.031†	328.2	369.8	0.0166	mg/L	0.0166	mg/L	14:51:45
2	Na 589.592†	3630.1	-252.4	0.0533	mg/L	0.0533	mg/L	14:50:53
2	Ni 231.604†	352.3	208.6	0.0034	mg/L	0.0034	mg/L	14:51:45
2	P 214.914†	-10.0	35.1	0.0668	mg/L	0.0668	mg/L	14:51:45
2	Pb 220.353†	-158.5	-356.7	-0.0189	mg/L	-0.0189	mg/L	14:51:45
2	Sb 206.836†	65.3	26.6	0.0152	mg/L	0.0152	mg/L	14:51:45
2	Se 196.026†	-29.4	-49.0	-0.0227	mg/L	-0.0227	mg/L	14:51:45
2	Sn 189.927†	-965.7	-1094.6	0.1537	mg/L	0.1537	mg/L	14:51:45
2	Sr 407.771†	12065.3	12962.9	0.0113	mg/L	0.0113	mg/L	14:50:53
2	Ti 337.279†	-997.5	205.9	0.0030	mg/L	0.0030	mg/L	14:51:34
2	Tl 190.801†	41.1	52.2	-0.0324	mg/L	-0.0324	mg/L	14:51:45
2	V 292.402†	-787.5	39.7	0.0027	mg/L	0.0027	mg/L	14:51:34
2	Zn 213.857†	384.4	-448.6	-0.0023	mg/L	-0.0023	mg/L	14:51:45

Mean Data: Ca 500

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3085456.2	0.913 mg/L	0.0013			0.14%

Ag 328.068†	-412.5	-0.0013 mg/L	0.00002	-0.0013 mg/L	0.00002	1.79%
Al 237.313†	314.6	0.0359 mg/L	0.00093	0.0359 mg/L	0.00093	2.58%
As 188.979†	14.2	0.0114 mg/L	0.00110	0.0114 mg/L	0.00110	9.69%
B 249.677†	-11.8	-0.0023 mg/L	0.00290	-0.0023 mg/L	0.00290	127.88%
B 182.528†	-18.1	-0.0110 mg/L	0.00101	-0.0110 mg/L	0.00101	9.23%
Ba 233.527†	28.2	0.0008 mg/L	0.00009	0.0008 mg/L	0.00009	11.51%
Be 313.107†	-1224.4	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	11.70%
Ca 315.887†	52003724.8	465.4 mg/L	2.85	465.4 mg/L	2.85	0.61%
Cd 228.802†	3.6	0.0016 mg/L	0.00002	0.0016 mg/L	0.00002	1.29%
Co 228.616†	21.0	-0.0017 mg/L	0.00073	-0.0017 mg/L	0.00073	42.14%
Cr 267.716†	504.9	0.0044 mg/L	0.00015	0.0044 mg/L	0.00015	3.45%
Cu 324.752†	356.6	0.0028 mg/L	0.00046	0.0028 mg/L	0.00046	16.21%
Fe 234.349†	773.9	-0.3715 mg/L	0.00533	-0.3715 mg/L	0.00533	1.44%
K 766.490†	-39.4	0.1266 mg/L	0.01316	0.1266 mg/L	0.01316	10.39%
Li 670.784†	-17.3	0.0015 mg/L	0.00129	0.0015 mg/L	0.00129	86.81%
Mg 279.077†	660.8	0.0409 mg/L	0.00092	0.0409 mg/L	0.00092	2.24%
Mn 257.610†	3198.0	0.0033 mg/L	0.00001	0.0033 mg/L	0.00001	0.42%
Mn 294.920†	63.4	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	424.77%
Mo 202.031†	391.5	0.0174 mg/L	0.00115	0.0174 mg/L	0.00115	6.61%
Na 589.592†	-236.7	0.0554 mg/L	0.00298	0.0554 mg/L	0.00298	5.37%
Ni 231.604†	203.6	0.0033 mg/L	0.00013	0.0033 mg/L	0.00013	3.94%
P 214.914†	29.9	0.0640 mg/L	0.00388	0.0640 mg/L	0.00388	6.06%
Pb 220.353†	-326.6	-0.0171 mg/L	0.00249	-0.0171 mg/L	0.00249	14.53%
Sb 206.836†	27.7	0.0157 mg/L	0.00065	0.0157 mg/L	0.00065	4.13%
Se 196.026†	-45.2	-0.0206 mg/L	0.00297	-0.0206 mg/L	0.00297	14.45%
Sn 189.927†	-1098.5	0.1545 mg/L	0.00108	0.1545 mg/L	0.00108	0.70%
Sr 407.771†	13030.7	0.0113 mg/L	0.00008	0.0113 mg/L	0.00008	0.72%
Ti 337.279†	253.6	0.0030 mg/L	0.00007	0.0030 mg/L	0.00007	2.27%
Tl 190.801†	52.6	-0.0324 mg/L	0.00004	-0.0324 mg/L	0.00004	0.13%
V 292.402†	-0.1	0.0026 mg/L	0.00020	0.0026 mg/L	0.00020	7.95%
Zn 213.857†	-465.0	-0.0024 mg/L	0.00014	-0.0024 mg/L	0.00014	5.90%

Sequence No.: 14
Sample ID: Fe 250
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 157
Date Collected: 6/25/2013 2:54:52 PM
Data Type: Reprocessed on 6/26/2013 10:56:29 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Fe 250

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3220429.6	3220429.6	0.952 mg/L		14:56:42
1	Ag 328.068†	-64.6	-804.7	0.0036 mg/L	0.0036 mg/L	14:56:45
1	Al 237.313†	12312.2	13314.2	1.228 mg/L	1.228 mg/L	14:56:42
1	As 188.979†	20.3	20.2	0.0149 mg/L	0.0149 mg/L	14:56:55
1	B 249.677†	-105.4	-95.4	-0.0364 mg/L	-0.0364 mg/L	14:56:34
1	B 182.528†	2.5	9.6	0.0118 mg/L	0.0118 mg/L	14:56:55
1	Ba 233.527†	370.2	476.4	0.0042 mg/L	0.0042 mg/L	14:56:55
1	Be 313.107†	-2621.3	-1319.4	-0.0003 mg/L	-0.0003 mg/L	14:56:45
1	Ca 315.887†	47194.3	50267.8	0.4585 mg/L	0.4585 mg/L	14:56:45
1	Cd 228.802†	235.2	99.5	-0.0005 mg/L	-0.0005 mg/L	14:56:55
1	Co 228.616†	6329.3	6823.1	0.1067 mg/L	0.1067 mg/L	14:56:55
1	Cr 267.716†	2902.7	2336.8	0.0183 mg/L	0.0183 mg/L	14:56:45
1	Cu 324.752†	20201.8	17253.4	0.0750 mg/L	0.0750 mg/L	14:56:45
1	Fe 234.349†	526232.6	552499.4	273.6 mg/L	273.6 mg/L	14:56:32
1	K 766.490†	712.8	3.3	0.1448 mg/L	0.1448 mg/L	14:56:34
1	Li 670.784†	-283.9	-25.5	0.0013 mg/L	0.0013 mg/L	14:56:34
1	Mg 279.077†	1647.3	1441.7	0.0917 mg/L	0.0917 mg/L	14:56:45
1	Mn 257.610†	50666.2	37140.8	-0.0219 mg/L	-0.0219 mg/L	14:56:42
1	Mn 294.920†	82773.8	87545.7	0.1866 mg/L	0.1866 mg/L	14:56:45
1	Mo 202.031†	-54.0	-46.3	-0.0404 mg/L	-0.0404 mg/L	14:56:45
1	Na 589.592†	3005.3	-1071.2	-0.0564 mg/L	-0.0564 mg/L	14:56:34
1	Ni 231.604†	11468.1	11863.4	0.2202 mg/L	0.2202 mg/L	14:56:45
1	P 214.914†	222.2	279.4	0.1944 mg/L	0.1944 mg/L	14:56:55
1	Pb 220.353†	19.1	-163.1	-0.0078 mg/L	-0.0078 mg/L	14:56:55
1	Sb 206.836†	112.1	72.9	-0.0822 mg/L	-0.0822 mg/L	14:56:55
1	Se 196.026†	-94.6	-116.2	-0.0437 mg/L	-0.0437 mg/L	14:56:55
1	Sn 189.927†	62.2	27.9	0.0053 mg/L	0.0053 mg/L	14:56:55
1	Sr 407.771†	502.6	282.0	0.0005 mg/L	0.0005 mg/L	14:56:34
1	Ti 337.279†	6816.4	8454.6	0.0115 mg/L	0.0115 mg/L	14:56:45

1	Tl 190.801†	-16.4	-10.1	-0.1286	mg/L	-0.1286	mg/L	14:56:55
1	V 292.402†	9742.0	11130.1	0.0459	mg/L	0.0459	mg/L	14:56:45
1	Zn 213.857†	5981.7	5410.9	0.0198	mg/L	0.0198	mg/L	14:56:55
2	Y 371.029	3259595.2	3259595.2	0.964	mg/L			14:56:57
2	Ag 328.068†	-61.9	-801.0	0.0036	mg/L	0.0036	mg/L	14:57:00
2	Al 237.313†	12236.3	13080.1	1.206	mg/L	1.206	mg/L	14:56:57
2	As 188.979†	17.9	17.5	0.0133	mg/L	0.0133	mg/L	14:57:10
2	B 249.677†	-113.6	-102.6	-0.0393	mg/L	-0.0393	mg/L	14:56:38
2	B 182.528†	-1.5	5.4	0.0084	mg/L	0.0084	mg/L	14:57:10
2	Ba 233.527†	329.8	429.8	0.0039	mg/L	0.0039	mg/L	14:57:10
2	Be 313.107†	-2579.6	-1243.0	-0.0002	mg/L	-0.0002	mg/L	14:57:00
2	Ca 315.887†	47941.1	50447.1	0.4601	mg/L	0.4601	mg/L	14:57:00
2	Cd 228.802†	227.2	88.2	-0.0007	mg/L	-0.0007	mg/L	14:57:10
2	Co 228.616†	6312.9	6726.3	0.1051	mg/L	0.1051	mg/L	14:57:10
2	Cr 267.716†	3030.8	2433.0	0.0190	mg/L	0.0190	mg/L	14:57:00
2	Cu 324.752†	20516.9	17325.4	0.0753	mg/L	0.0753	mg/L	14:57:00
2	Fe 234.349†	524955.5	544536.2	269.6	mg/L	269.6	mg/L	14:56:36
2	K 766.490†	608.5	-113.9	0.0948	mg/L	0.0948	mg/L	14:56:38
2	Li 670.784†	-421.9	-165.0	-0.0020	mg/L	-0.0020	mg/L	14:56:38
2	Mg 279.077†	1612.1	1384.4	0.0880	mg/L	0.0880	mg/L	14:57:00
2	Mn 257.610†	51272.5	37130.5	-0.0211	mg/L	-0.0211	mg/L	14:56:57
2	Mn 294.920†	84534.1	88327.5	0.1882	mg/L	0.1882	mg/L	14:57:00
2	Mo 202.031†	-8.6	1.5	-0.0380	mg/L	-0.0380	mg/L	14:57:00
2	Na 589.592†	2963.2	-1152.7	-0.0673	mg/L	-0.0673	mg/L	14:56:38
2	Ni 231.604†	11721.0	11981.0	0.2224	mg/L	0.2224	mg/L	14:57:00
2	P 214.914†	223.5	277.8	0.1936	mg/L	0.1936	mg/L	14:57:10
2	Pb 220.353†	106.1	-73.1	-0.0025	mg/L	-0.0025	mg/L	14:57:10
2	Sb 206.836†	116.9	76.5	-0.0791	mg/L	-0.0791	mg/L	14:57:10
2	Se 196.026†	-95.2	-115.6	-0.0436	mg/L	-0.0436	mg/L	14:57:10
2	Sn 189.927†	88.3	54.2	0.0085	mg/L	0.0085	mg/L	14:57:10
2	Sr 407.771†	466.3	238.1	0.0005	mg/L	0.0005	mg/L	14:56:38
2	Ti 337.279†	7024.5	8584.4	0.0116	mg/L	0.0116	mg/L	14:57:00
2	Tl 190.801†	-23.6	-17.3	-0.1323	mg/L	-0.1323	mg/L	14:57:10
2	V 292.402†	9853.0	11122.3	0.0459	mg/L	0.0459	mg/L	14:57:00
2	Zn 213.857†	5981.7	5335.4	0.0195	mg/L	0.0195	mg/L	14:57:10

Mean Data: Fe 250

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3240012.4	0.958	mg/L	0.0082				0.85%
Ag 328.068†	-802.8	0.0036	mg/L	0.00006	0.0036	mg/L	0.00006	1.59%
Al 237.313†	13197.1	1.217	mg/L	0.0152	1.217	mg/L	0.0152	1.25%
As 188.979†	18.9	0.0141	mg/L	0.00118	0.0141	mg/L	0.00118	8.37%
B 249.677†	-99.0	-0.0379	mg/L	0.00207	-0.0379	mg/L	0.00207	5.46%
B 182.528†	7.5	0.0101	mg/L	0.00241	0.0101	mg/L	0.00241	23.97%
Ba 233.527†	453.1	0.0040	mg/L	0.00025	0.0040	mg/L	0.00025	6.20%
Be 313.107†	-1281.2	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	7.97%
Ca 315.887†	50357.4	0.4593	mg/L	0.00113	0.4593	mg/L	0.00113	0.25%
Cd 228.802†	93.8	-0.0006	mg/L	0.00017	-0.0006	mg/L	0.00017	27.41%
Co 228.616†	6774.7	0.1059	mg/L	0.00109	0.1059	mg/L	0.00109	1.03%
Cr 267.716†	2384.9	0.0186	mg/L	0.00052	0.0186	mg/L	0.00052	2.78%
Cu 324.752†	17289.4	0.0752	mg/L	0.00022	0.0752	mg/L	0.00022	0.29%
Fe 234.349†	548517.8	271.6	mg/L	2.79	271.6	mg/L	2.79	1.03%
K 766.490†	-55.3	0.1198	mg/L	0.03541	0.1198	mg/L	0.03541	29.55%
Li 670.784†	-95.2	-0.0003	mg/L	0.00232	-0.0003	mg/L	0.00232	680.75%
Mg 279.077†	1413.0	0.0898	mg/L	0.00263	0.0898	mg/L	0.00263	2.93%
Mn 257.610†	37135.7	-0.0215	mg/L	0.00062	-0.0215	mg/L	0.00062	2.89%
Mn 294.920†	87936.6	0.1874	mg/L	0.00118	0.1874	mg/L	0.00118	0.63%
Mo 202.031†	-22.4	-0.0392	mg/L	0.00169	-0.0392	mg/L	0.00169	4.30%
Na 589.592†	-1112.0	-0.0619	mg/L	0.00772	-0.0619	mg/L	0.00772	12.49%
Ni 231.604†	11922.2	0.2213	mg/L	0.00155	0.2213	mg/L	0.00155	0.70%
P 214.914†	278.6	0.1940	mg/L	0.00058	0.1940	mg/L	0.00058	0.30%
Pb 220.353†	-118.1	-0.0052	mg/L	0.00373	-0.0052	mg/L	0.00373	71.93%
Sb 206.836†	74.7	-0.0807	mg/L	0.00223	-0.0807	mg/L	0.00223	2.76%
Se 196.026†	-115.9	-0.0437	mg/L	0.00008	-0.0437	mg/L	0.00008	0.19%
Sn 189.927†	41.0	0.0069	mg/L	0.00228	0.0069	mg/L	0.00228	33.13%
Sr 407.771†	260.1	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	5.07%
Ti 337.279†	8519.5	0.0115	mg/L	0.00009	0.0115	mg/L	0.00009	0.82%
Tl 190.801†	-13.7	-0.1305	mg/L	0.00265	-0.1305	mg/L	0.00265	2.03%
V 292.402†	11126.2	0.0459	mg/L	0.00000	0.0459	mg/L	0.00000	0.00%
Zn 213.857†	5373.1	0.0196	mg/L	0.00021	0.0196	mg/L	0.00021	1.09%

Sequence No.: 15

Sample ID: WASH

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 0

Date Collected: 6/25/2013 3:00:17 PM

Data Type: Reprocessed on 6/26/2013 10:56:29 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	Y 371.029	3206890.7	3206890.7	0.948	mg/L			15:02:19
1	Ag 328.068†	787.1	93.1	0.0011	mg/L	0.0011	mg/L	15:02:22
1	Al 237.313†	-87.5	295.2	0.0342	mg/L	0.0342	mg/L	15:02:22
1	As 188.979†	-0.8	-1.9	0.0015	mg/L	0.0015	mg/L	15:02:32
1	B 249.677†	-25.0	-11.2	-0.0020	mg/L	-0.0020	mg/L	15:02:03
1	B 182.528†	-6.5	0.1	0.0040	mg/L	0.0040	mg/L	15:02:32
1	Ba 233.527†	-29.3	56.9	0.0010	mg/L	0.0010	mg/L	15:02:32
1	Be 313.107†	-1267.6	96.2	0.0002	mg/L	0.0002	mg/L	15:02:22
1	Ca 315.887†	6566.6	7641.4	0.0767	mg/L	0.0767	mg/L	15:02:22
1	Cd 228.802†	156.5	17.5	0.0020	mg/L	0.0020	mg/L	15:02:32
1	Co 228.616†	-136.3	34.2	-0.0015	mg/L	-0.0015	mg/L	15:02:32
1	Cr 267.716†	629.1	-47.5	0.0001	mg/L	0.0001	mg/L	15:02:22
1	Cu 324.752†	4075.0	339.8	0.0028	mg/L	0.0028	mg/L	15:02:22
1	Fe 234.349†	98.9	105.9	0.0629	mg/L	0.0629	mg/L	15:02:03
1	K 766.490†	685.1	-22.7	0.1337	mg/L	0.1337	mg/L	15:01:53
1	Li 670.784†	-262.5	-4.1	0.0018	mg/L	0.0018	mg/L	15:01:53
1	Mg 279.077†	729.4	481.1	0.0292	mg/L	0.0292	mg/L	15:02:22
1	Mn 257.610†	16156.7	980.5	0.0010	mg/L	0.0010	mg/L	15:02:22
1	Mn 294.920†	-601.1	6.9	-0.0002	mg/L	-0.0002	mg/L	15:02:22
1	Mo 202.031†	-18.3	-8.9	0.0024	mg/L	0.0024	mg/L	15:02:32
1	Na 589.592†	3430.9	-609.1	0.0055	mg/L	0.0055	mg/L	15:01:53
1	Ni 231.604†	178.2	10.7	-0.0003	mg/L	-0.0003	mg/L	15:02:22
1	P 214.914†	-56.1	-13.1	0.0416	mg/L	0.0416	mg/L	15:02:32
1	Pb 220.353†	148.6	-26.4	0.0004	mg/L	0.0004	mg/L	15:02:32
1	Sb 206.836†	33.6	-9.4	0.0005	mg/L	0.0005	mg/L	15:02:32
1	Se 196.026†	17.8	1.9	0.0055	mg/L	0.0055	mg/L	15:02:32
1	Sn 189.927†	51.4	16.7	0.0037	mg/L	0.0037	mg/L	15:02:32
1	Sr 407.771†	447.2	225.8	0.0005	mg/L	0.0005	mg/L	15:01:53
1	Ti 337.279†	-691.6	568.8	0.0034	mg/L	0.0034	mg/L	15:02:22
1	Tl 190.801†	-3.3	3.6	0.0023	mg/L	0.0023	mg/L	15:02:32
1	V 292.402†	-817.8	39.6	0.0025	mg/L	0.0025	mg/L	15:02:22
1	Zn 213.857†	1148.3	341.3	0.0026	mg/L	0.0026	mg/L	15:02:32
2	Y 371.029	3265751.3	3265751.3	0.966	mg/L			15:02:34
2	Ag 328.068†	646.9	-67.0	0.0003	mg/L	0.0003	mg/L	15:02:36
2	Al 237.313†	-1.1	386.3	0.0425	mg/L	0.0425	mg/L	15:02:36
2	As 188.979†	-5.5	-6.8	-0.0015	mg/L	-0.0015	mg/L	15:02:47
2	B 249.677†	-23.3	-8.9	-0.0011	mg/L	-0.0011	mg/L	15:02:16
2	B 182.528†	-4.9	1.9	0.0054	mg/L	0.0054	mg/L	15:02:47
2	Ba 233.527†	-31.1	55.5	0.0010	mg/L	0.0010	mg/L	15:02:47
2	Be 313.107†	-1326.5	59.3	0.0002	mg/L	0.0002	mg/L	15:02:36
2	Ca 315.887†	6921.7	7884.3	0.0788	mg/L	0.0788	mg/L	15:02:36
2	Cd 228.802†	158.1	16.3	0.0019	mg/L	0.0019	mg/L	15:02:47
2	Co 228.616†	-143.5	29.4	-0.0016	mg/L	-0.0016	mg/L	15:02:47
2	Cr 267.716†	652.9	-34.8	0.0002	mg/L	0.0002	mg/L	15:02:36
2	Cu 324.752†	4067.1	254.2	0.0024	mg/L	0.0024	mg/L	15:02:36
2	Fe 234.349†	72.8	77.0	0.0486	mg/L	0.0486	mg/L	15:02:16
2	K 766.490†	627.6	-95.3	0.1027	mg/L	0.1027	mg/L	15:02:06
2	Li 670.784†	-301.1	-39.1	0.0010	mg/L	0.0010	mg/L	15:02:06
2	Mg 279.077†	678.0	414.1	0.0249	mg/L	0.0249	mg/L	15:02:36
2	Mn 257.610†	16308.3	830.4	0.0008	mg/L	0.0008	mg/L	15:02:36
2	Mn 294.920†	-695.7	-79.7	-0.0003	mg/L	-0.0003	mg/L	15:02:36
2	Mo 202.031†	-2.3	8.0	0.0031	mg/L	0.0031	mg/L	15:02:47
2	Na 589.592†	3268.6	-842.3	-0.0257	mg/L	-0.0257	mg/L	15:02:06
2	Ni 231.604†	216.0	46.5	0.0003	mg/L	0.0003	mg/L	15:02:36
2	P 214.914†	-56.2	-12.2	0.0421	mg/L	0.0421	mg/L	15:02:47
2	Pb 220.353†	158.8	-18.7	0.0008	mg/L	0.0008	mg/L	15:02:47
2	Sb 206.836†	34.6	-9.0	0.0007	mg/L	0.0007	mg/L	15:02:47
2	Se 196.026†	14.7	-1.6	0.0035	mg/L	0.0035	mg/L	15:02:47
2	Sn 189.927†	50.0	14.3	0.0034	mg/L	0.0034	mg/L	15:02:47
2	Sr 407.771†	400.7	169.3	0.0004	mg/L	0.0004	mg/L	15:02:06
2	Ti 337.279†	-583.5	693.8	0.0035	mg/L	0.0035	mg/L	15:02:36

2	Tl 190.801†	-7.2	-0.3	-0.0006 mg/L	-0.0006 mg/L	15:02:47
2	V 292.402†	-891.8	-21.4	0.0023 mg/L	0.0023 mg/L	15:02:36
2	Zn 213.857†	1135.3	306.0	0.0024 mg/L	0.0024 mg/L	15:02:47

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3236321.0	0.957 mg/L		0.0123			1.29%
Ag 328.068†	13.0	0.0007 mg/L		0.00054	0.0007 mg/L	0.00054	76.10%
Al 237.313†	340.8	0.0383 mg/L		0.00590	0.0383 mg/L	0.00590	15.40%
As 188.979†	-4.3	0.0000 mg/L		0.00209	0.0000 mg/L	0.00209	>999.9%
B 249.677†	-10.0	-0.0016 mg/L		0.00064	-0.0016 mg/L	0.00064	40.29%
B 182.528†	1.0	0.0047 mg/L		0.00102	0.0047 mg/L	0.00102	21.53%
Ba 233.527†	56.2	0.0010 mg/L		0.00001	0.0010 mg/L	0.00001	0.71%
Be 313.107†	77.8	0.0002 mg/L		0.00001	0.0002 mg/L	0.00001	3.82%
Ca 315.887†	7762.8	0.0778 mg/L		0.00153	0.0778 mg/L	0.00153	1.97%
Cd 228.802†	16.9	0.0020 mg/L		0.00002	0.0020 mg/L	0.00002	1.22%
Co 228.616†	31.8	-0.0016 mg/L		0.00005	-0.0016 mg/L	0.00005	3.49%
Cr 267.716†	-41.1	0.0002 mg/L		0.00007	0.0002 mg/L	0.00007	35.24%
Cu 324.752†	297.0	0.0026 mg/L		0.00026	0.0026 mg/L	0.00026	10.01%
Fe 234.349†	91.4	0.0557 mg/L		0.01013	0.0557 mg/L	0.01013	18.17%
K 766.490†	-59.0	0.1182 mg/L		0.02192	0.1182 mg/L	0.02192	18.54%
Li 670.784†	-21.6	0.0014 mg/L		0.00058	0.0014 mg/L	0.00058	41.89%
Mg 279.077†	447.6	0.0271 mg/L		0.00308	0.0271 mg/L	0.00308	11.37%
Mn 257.610†	905.5	0.0009 mg/L		0.00011	0.0009 mg/L	0.00011	12.46%
Mn 294.920†	-36.4	-0.0002 mg/L		0.00013	-0.0002 mg/L	0.00013	52.27%
Mo 202.031†	-0.4	0.0027 mg/L		0.00045	0.0027 mg/L	0.00045	16.44%
Na 589.592†	-725.7	-0.0101 mg/L		0.02209	-0.0101 mg/L	0.02209	218.73%
Ni 231.604†	28.6	0.0000 mg/L		0.00047	0.0000 mg/L	0.00047	>999.9%
P 214.914†	-12.6	0.0419 mg/L		0.00035	0.0419 mg/L	0.00035	0.83%
Pb 220.353†	-22.5	0.0006 mg/L		0.00032	0.0006 mg/L	0.00032	52.74%
Sb 206.836†	-9.2	0.0006 mg/L		0.00012	0.0006 mg/L	0.00012	19.26%
Se 196.026†	0.1	0.0045 mg/L		0.00140	0.0045 mg/L	0.00140	30.95%
Sn 189.927†	15.5	0.0035 mg/L		0.00021	0.0035 mg/L	0.00021	5.89%
Sr 407.771†	197.6	0.0005 mg/L		0.00003	0.0005 mg/L	0.00003	7.27%
Ti 337.279†	631.3	0.0034 mg/L		0.00009	0.0034 mg/L	0.00009	2.64%
Tl 190.801†	1.7	0.0009 mg/L		0.00208	0.0009 mg/L	0.00208	238.05%
V 292.402†	9.1	0.0024 mg/L		0.00016	0.0024 mg/L	0.00016	6.84%
Zn 213.857†	323.7	0.0025 mg/L		0.00016	0.0025 mg/L	0.00016	6.33%

Sequence No.: 16

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/25/2013 3:04:18 PM

Data Type: Reprocessed on 6/26/2013 10:56:30 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3206234.2	3206234.2	0.948 mg/L		15:06:09
1	Ag 328.068†	48445.2	50351.6	0.2425 mg/L	0.2425 mg/L	15:06:09
1	Al 237.313†	24560.9	26288.4	2.419 mg/L	2.419 mg/L	15:06:19
1	As 188.979†	738.6	777.8	0.4777 mg/L	0.4777 mg/L	15:06:19
1	B 249.677†	1058.3	1131.2	0.4649 mg/L	0.4649 mg/L	15:05:59
1	B 182.528†	553.2	590.3	0.4889 mg/L	0.4889 mg/L	15:06:19
1	Ba 233.527†	60615.9	64010.8	0.4859 mg/L	0.4859 mg/L	15:06:09
1	Be 313.107†	131700.2	140318.5	0.0496 mg/L	0.0496 mg/L	15:06:09
1	Ca 315.887†	480507.7	507442.2	4.552 mg/L	4.552 mg/L	15:06:09
1	Cd 228.802†	9137.9	9489.0	0.2553 mg/L	0.2553 mg/L	15:06:19
1	Co 228.616†	29309.8	31086.8	0.4927 mg/L	0.4927 mg/L	15:06:19
1	Cr 267.716†	59340.0	61866.8	0.4715 mg/L	0.4715 mg/L	15:06:09
1	Cu 324.752†	107654.2	109571.1	0.4697 mg/L	0.4697 mg/L	15:06:09
1	Fe 234.349†	4528.9	4777.7	2.362 mg/L	2.362 mg/L	15:05:59
1	K 766.490†	53991.0	56191.7	24.14 mg/L	24.14 mg/L	15:05:57
1	Li 670.784†	18955.5	20262.3	0.4777 mg/L	0.4777 mg/L	15:05:59
1	Mg 279.077†	68096.3	71523.7	4.643 mg/L	4.643 mg/L	15:06:09
1	Mn 257.610†	440773.0	448767.4	0.4822 mg/L	0.4822 mg/L	15:06:09
1	Mn 294.920†	213791.2	226096.2	0.4821 mg/L	0.4821 mg/L	15:06:09
1	Mo 202.031†	12091.9	12762.0	0.4792 mg/L	0.4792 mg/L	15:06:19

1	Na 589.592†	174762.2	180070.8	24.21 mg/L	24.21 mg/L	15:05:57
1	Ni 231.604†	24587.6	25752.0	0.4794 mg/L	0.4794 mg/L	15:06:09
1	P 214.914†	8568.3	9081.8	4.803 mg/L	4.803 mg/L	15:06:19
1	Pb 220.353†	8053.3	8309.6	0.4889 mg/L	0.4889 mg/L	15:06:19
1	Sb 206.836†	1156.4	1174.7	0.4848 mg/L	0.4848 mg/L	15:06:19
1	Se 196.026†	1630.4	1702.5	0.9470 mg/L	0.9470 mg/L	15:06:19
1	Sn 189.927†	3770.9	3939.1	0.4881 mg/L	0.4881 mg/L	15:06:19
1	Sr 407.771†	53602.0	56280.9	0.0479 mg/L	0.0479 mg/L	15:05:57
1	Ti 337.279†	438313.6	463525.9	0.4779 mg/L	0.4779 mg/L	15:06:09
1	Tl 190.801†	565.3	603.3	0.4507 mg/L	0.4507 mg/L	15:06:19
1	V 292.402†	115322.2	122516.1	0.4888 mg/L	0.4888 mg/L	15:06:09
1	Zn 213.857†	75874.9	79145.2	0.4826 mg/L	0.4826 mg/L	15:06:09
2	Y 371.029	3198269.2	3198269.2	0.946 mg/L		15:06:23
2	Ag 328.068†	48620.2	50663.8	0.2440 mg/L	0.2440 mg/L	15:06:23
2	Al 237.313†	24571.0	26363.6	2.426 mg/L	2.426 mg/L	15:06:33
2	As 188.979†	746.0	787.6	0.4837 mg/L	0.4837 mg/L	15:06:33
2	B 249.677†	1038.9	1113.5	0.4577 mg/L	0.4577 mg/L	15:06:04
2	B 182.528†	546.9	585.1	0.4846 mg/L	0.4846 mg/L	15:06:33
2	Ba 233.527†	60732.7	64293.6	0.4880 mg/L	0.4880 mg/L	15:06:23
2	Be 313.107†	132356.7	141358.5	0.0499 mg/L	0.0499 mg/L	15:06:23
2	Ca 315.887†	481178.3	509413.1	4.569 mg/L	4.569 mg/L	15:06:23
2	Cd 228.802†	9106.5	9479.9	0.2550 mg/L	0.2550 mg/L	15:06:33
2	Co 228.616†	29204.2	31052.3	0.4921 mg/L	0.4921 mg/L	15:06:33
2	Cr 267.716†	59557.0	62252.0	0.4744 mg/L	0.4744 mg/L	15:06:23
2	Cu 324.752†	108078.7	110302.6	0.4728 mg/L	0.4728 mg/L	15:06:23
2	Fe 234.349†	4454.2	4710.5	2.328 mg/L	2.328 mg/L	15:06:04
2	K 766.490†	53761.7	56091.1	24.10 mg/L	24.10 mg/L	15:06:01
2	Li 670.784†	18844.3	20194.6	0.4761 mg/L	0.4761 mg/L	15:06:04
2	Mg 279.077†	68254.5	71869.9	4.666 mg/L	4.666 mg/L	15:06:23
2	Mn 257.610†	441793.7	451004.1	0.4846 mg/L	0.4846 mg/L	15:06:23
2	Mn 294.920†	214480.8	227386.8	0.4849 mg/L	0.4849 mg/L	15:06:23
2	Mo 202.031†	12095.7	12797.8	0.4806 mg/L	0.4806 mg/L	15:06:33
2	Na 589.592†	174542.1	180297.1	24.25 mg/L	24.25 mg/L	15:06:01
2	Ni 231.604†	24621.4	25852.2	0.4813 mg/L	0.4813 mg/L	15:06:23
2	P 214.914†	8536.9	9071.2	4.797 mg/L	4.797 mg/L	15:06:33
2	Pb 220.353†	8014.1	8289.2	0.4877 mg/L	0.4877 mg/L	15:06:33
2	Sb 206.836†	1149.9	1170.9	0.4832 mg/L	0.4832 mg/L	15:06:33
2	Se 196.026†	1643.4	1720.5	0.9569 mg/L	0.9569 mg/L	15:06:33
2	Sn 189.927†	3768.0	3946.0	0.4890 mg/L	0.4890 mg/L	15:06:33
2	Sr 407.771†	53402.6	56210.9	0.0479 mg/L	0.0479 mg/L	15:06:01
2	Ti 337.279†	439961.2	466418.9	0.4809 mg/L	0.4809 mg/L	15:06:23
2	Tl 190.801†	571.6	611.4	0.4569 mg/L	0.4569 mg/L	15:06:33
2	V 292.402†	115885.0	123413.9	0.4923 mg/L	0.4923 mg/L	15:06:23
2	Zn 213.857†	76007.2	79484.4	0.4847 mg/L	0.4847 mg/L	15:06:23

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3202251.7	0.947 mg/L	0.0017			0.18%
Ag 328.068†	50507.7	0.2433 mg/L	0.00106	0.2433 mg/L	0.00106	0.44%
QC value within limits for Ag 328.068 Recovery = 97.31%						
Al 237.313†	26326.0	2.422 mg/L	0.0049	2.422 mg/L	0.0049	0.20%
QC value within limits for Al 237.313 Recovery = 96.89%						
As 188.979†	782.7	0.4807 mg/L	0.00424	0.4807 mg/L	0.00424	0.88%
QC value within limits for As 188.979 Recovery = 96.13%						
B 249.677†	1122.4	0.4613 mg/L	0.00511	0.4613 mg/L	0.00511	1.11%
QC value within limits for B 249.677 Recovery = 92.26%						
B 182.528†	587.7	0.4868 mg/L	0.00302	0.4868 mg/L	0.00302	0.62%
QC value within limits for B 182.528 Recovery = 97.35%						
Ba 233.527†	64152.2	0.4869 mg/L	0.00152	0.4869 mg/L	0.00152	0.31%
QC value within limits for Ba 233.527 Recovery = 97.39%						
Be 313.107†	140838.5	0.0498 mg/L	0.00026	0.0498 mg/L	0.00026	0.52%
QC value within limits for Be 313.107 Recovery = 99.52%						
Ca 315.887†	508427.7	4.560 mg/L	0.0125	4.560 mg/L	0.0125	0.27%
QC value within limits for Ca 315.887 Recovery = 91.21%						
Cd 228.802†	9484.4	0.2551 mg/L	0.00017	0.2551 mg/L	0.00017	0.07%
QC value within limits for Cd 228.802 Recovery = 102.05%						
Co 228.616†	31069.5	0.4924 mg/L	0.00039	0.4924 mg/L	0.00039	0.08%
QC value within limits for Co 228.616 Recovery = 98.48%						
Cr 267.716†	62059.4	0.4729 mg/L	0.00207	0.4729 mg/L	0.00207	0.44%
QC value within limits for Cr 267.716 Recovery = 94.59%						
Cu 324.752†	109936.9	0.4712 mg/L	0.00221	0.4712 mg/L	0.00221	0.47%

1	Na 589.592†	3217.4	-826.6	-0.0236 mg/L	-0.0236 mg/L	15:09:53
1	Ni 231.604†	195.5	29.4	0.0000 mg/L	0.0000 mg/L	15:10:22
1	P 214.914†	-44.3	-0.8	0.0481 mg/L	0.0481 mg/L	15:10:32
1	Pb 220.353†	117.8	-58.6	-0.0015 mg/L	-0.0015 mg/L	15:10:32
1	Sb 206.836†	36.3	-6.4	0.0017 mg/L	0.0017 mg/L	15:10:32
1	Se 196.026†	20.8	5.1	0.0073 mg/L	0.0073 mg/L	15:10:32
1	Sn 189.927†	47.8	13.1	0.0032 mg/L	0.0032 mg/L	15:10:32
1	Sr 407.771†	246.4	14.7	0.0003 mg/L	0.0003 mg/L	15:09:53
1	Ti 337.279†	-1665.2	-461.7	0.0023 mg/L	0.0023 mg/L	15:10:22
1	Tl 190.801†	-2.0	5.0	0.0034 mg/L	0.0034 mg/L	15:10:32
1	V 292.402†	-1006.3	-161.5	0.0017 mg/L	0.0017 mg/L	15:10:22
1	Zn 213.857†	936.7	120.4	0.0012 mg/L	0.0012 mg/L	15:10:32
2	Y 371.029	3185343.9	3185343.9	0.942 mg/L		15:10:34
2	Ag 328.068†	650.0	-46.8	0.0004 mg/L	0.0004 mg/L	15:10:36
2	Al 237.313†	-426.1	-64.9	0.0011 mg/L	0.0011 mg/L	15:10:36
2	As 188.979†	3.2	2.3	0.0041 mg/L	0.0041 mg/L	15:10:47
2	B 249.677†	-13.5	0.9	0.0029 mg/L	0.0029 mg/L	15:10:16
2	B 182.528†	-9.9	-3.6	0.0009 mg/L	0.0009 mg/L	15:10:47
2	Ba 233.527†	-66.9	16.7	0.0007 mg/L	0.0007 mg/L	15:10:47
2	Be 313.107†	-1441.0	-96.8	0.0002 mg/L	0.0002 mg/L	15:10:36
2	Ca 315.887†	-1696.4	-1082.7	-0.0014 mg/L	-0.0014 mg/L	15:10:36
2	Cd 228.802†	141.2	2.5	0.0016 mg/L	0.0016 mg/L	15:10:47
2	Co 228.616†	-145.2	23.8	-0.0017 mg/L	-0.0017 mg/L	15:10:47
2	Cr 267.716†	588.0	-86.7	-0.0002 mg/L	-0.0002 mg/L	15:10:36
2	Cu 324.752†	4034.6	325.9	0.0027 mg/L	0.0027 mg/L	15:10:36
2	Fe 234.349†	2.8	4.6	0.0129 mg/L	0.0129 mg/L	15:10:16
2	K 766.490†	597.9	-110.5	0.0963 mg/L	0.0963 mg/L	15:10:06
2	Li 670.784†	-161.7	101.0	0.0043 mg/L	0.0043 mg/L	15:10:06
2	Mg 279.077†	265.6	-6.0	-0.0024 mg/L	-0.0024 mg/L	15:10:36
2	Mn 257.610†	15742.6	656.1	0.0006 mg/L	0.0006 mg/L	15:10:36
2	Mn 294.920†	-876.6	-289.9	-0.0008 mg/L	-0.0008 mg/L	15:10:36
2	Mo 202.031†	-15.4	-5.9	0.0025 mg/L	0.0025 mg/L	15:10:47
2	Na 589.592†	3151.5	-881.2	-0.0309 mg/L	-0.0309 mg/L	15:10:06
2	Ni 231.604†	174.1	7.7	-0.0004 mg/L	-0.0004 mg/L	15:10:36
2	P 214.914†	-57.5	-15.0	0.0406 mg/L	0.0406 mg/L	15:10:47
2	Pb 220.353†	142.7	-31.6	0.0001 mg/L	0.0001 mg/L	15:10:47
2	Sb 206.836†	35.1	-7.6	0.0013 mg/L	0.0013 mg/L	15:10:47
2	Se 196.026†	18.7	3.0	0.0061 mg/L	0.0061 mg/L	15:10:47
2	Sn 189.927†	42.2	7.4	0.0025 mg/L	0.0025 mg/L	15:10:47
2	Sr 407.771†	178.3	-56.4	0.0003 mg/L	0.0003 mg/L	15:10:06
2	Ti 337.279†	-1500.3	-294.6	0.0025 mg/L	0.0025 mg/L	15:10:36
2	Tl 190.801†	2.4	9.7	0.0070 mg/L	0.0070 mg/L	15:10:47
2	V 292.402†	-1027.7	-189.0	0.0016 mg/L	0.0016 mg/L	15:10:36
2	Zn 213.857†	935.0	123.0	0.0012 mg/L	0.0012 mg/L	15:10:47

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3192513.2	0.944 mg/L	0.0030			0.32%
Ag 328.068†	-32.0	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	20.33%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-89.3	-0.0011 mg/L	0.00316	-0.0011 mg/L	0.00316	290.40%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	0.2	0.0028 mg/L	0.00181	0.0028 mg/L	0.00181	65.00%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	0.1	0.0025 mg/L	0.00047	0.0025 mg/L	0.00047	18.37%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	-0.8	0.0032 mg/L	0.00319	0.0032 mg/L	0.00319	100.24%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	8.2	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	13.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-15.0	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	19.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-963.5	-0.0003 mg/L	0.00151	-0.0003 mg/L	0.00151	440.10%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	7.6	0.0017 mg/L	0.00019	0.0017 mg/L	0.00019	11.35%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	20.8	-0.0017 mg/L	0.00007	-0.0017 mg/L	0.00007	3.98%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-73.6	-0.0001 mg/L	0.00014	-0.0001 mg/L	0.00014	268.42%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	349.0	0.0028 mg/L	0.00014	0.0028 mg/L	0.00014	4.97%

1	Na 589.592†	3360.9	-745.3	-0.0127	mg/L	-0.0127	mg/L	15:14:04
1	Ni 231.604†	469.1	308.7	0.0052	mg/L	0.0052	mg/L	15:14:33
1	P 214.914†	743.7	816.4	0.4765	mg/L	0.4765	mg/L	15:14:43
1	Pb 220.353†	139.7	-38.4	-0.0003	mg/L	-0.0003	mg/L	15:14:43
1	Sb 206.836†	30.4	-13.3	-0.0011	mg/L	-0.0011	mg/L	15:14:43
1	Se 196.026†	21.0	4.9	0.0071	mg/L	0.0071	mg/L	15:14:43
1	Sn 189.927†	45.5	9.7	0.0028	mg/L	0.0028	mg/L	15:14:43
1	Sr 407.771†	322.1	88.0	0.0004	mg/L	0.0004	mg/L	15:14:04
1	Ti 337.279†	-1104.4	154.0	0.0029	mg/L	0.0029	mg/L	15:14:33
1	Tl 190.801†	-10.0	-3.2	-0.0028	mg/L	-0.0028	mg/L	15:14:43
1	V 292.402†	-896.7	-26.9	0.0022	mg/L	0.0022	mg/L	15:14:33
1	Zn 213.857†	2148.9	1356.4	0.0088	mg/L	0.0088	mg/L	15:14:43
2	Y 371.029	3259432.8	3259432.8	0.964	mg/L			15:14:45
2	Ag 328.068†	667.1	-44.8	0.0004	mg/L	0.0004	mg/L	15:14:47
2	Al 237.313†	135.4	527.9	0.0555	mg/L	0.0555	mg/L	15:14:47
2	As 188.979†	1.1	0.1	0.0027	mg/L	0.0027	mg/L	15:14:58
2	B 249.677†	-2.0	13.1	0.0079	mg/L	0.0079	mg/L	15:14:27
2	B 182.528†	1.7	8.8	0.0111	mg/L	0.0111	mg/L	15:14:58
2	Ba 233.527†	-14.7	72.5	0.0011	mg/L	0.0011	mg/L	15:14:58
2	Be 313.107†	-1265.3	120.3	0.0003	mg/L	0.0003	mg/L	15:14:47
2	Ca 315.887†	2073.9	2869.3	0.0340	mg/L	0.0340	mg/L	15:14:47
2	Cd 228.802†	155.6	13.9	0.0019	mg/L	0.0019	mg/L	15:14:58
2	Co 228.616†	-161.7	10.1	-0.0019	mg/L	-0.0019	mg/L	15:14:58
2	Cr 267.716†	1181.5	514.8	0.0044	mg/L	0.0044	mg/L	15:14:47
2	Cu 324.752†	4295.8	499.5	0.0035	mg/L	0.0035	mg/L	15:14:47
2	Fe 234.349†	55.1	58.8	0.0396	mg/L	0.0396	mg/L	15:14:27
2	K 766.490†	761.3	44.6	0.1625	mg/L	0.1625	mg/L	15:14:17
2	Li 670.784†	-267.1	-4.5	0.0018	mg/L	0.0018	mg/L	15:14:17
2	Mg 279.077†	419.8	147.6	0.0076	mg/L	0.0076	mg/L	15:14:47
2	Mn 257.610†	17401.0	1996.7	0.0021	mg/L	0.0021	mg/L	15:14:47
2	Mn 294.920†	160.1	806.7	0.0015	mg/L	0.0015	mg/L	15:14:47
2	Mo 202.031†	-6.4	3.8	0.0029	mg/L	0.0029	mg/L	15:14:58
2	Na 589.592†	3300.2	-803.0	-0.0205	mg/L	-0.0205	mg/L	15:14:17
2	Ni 231.604†	447.3	286.9	0.0048	mg/L	0.0048	mg/L	15:14:47
2	P 214.914†	741.9	815.7	0.4762	mg/L	0.4762	mg/L	15:14:58
2	Pb 220.353†	155.7	-21.6	0.0007	mg/L	0.0007	mg/L	15:14:58
2	Sb 206.836†	28.9	-14.8	-0.0017	mg/L	-0.0017	mg/L	15:14:58
2	Se 196.026†	18.9	2.8	0.0060	mg/L	0.0060	mg/L	15:14:58
2	Sn 189.927†	40.0	4.0	0.0021	mg/L	0.0021	mg/L	15:14:58
2	Sr 407.771†	249.5	13.2	0.0003	mg/L	0.0003	mg/L	15:14:17
2	Ti 337.279†	-933.7	329.3	0.0031	mg/L	0.0031	mg/L	15:14:47
2	Tl 190.801†	-10.9	-4.2	-0.0035	mg/L	-0.0035	mg/L	15:14:58
2	V 292.402†	-818.7	52.6	0.0026	mg/L	0.0026	mg/L	15:14:47
2	Zn 213.857†	2125.7	1335.7	0.0086	mg/L	0.0086	mg/L	15:14:58

Mean Data: CF31807-BLK1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	3261899.9	0.965	mg/L	0.0010				0.11%
Ag 328.068†	0.6	0.0007	mg/L	0.00031	0.0007	mg/L	0.00031	47.12%
Al 237.313†	476.7	0.0508	mg/L	0.00662	0.0508	mg/L	0.00662	13.04%
As 188.979†	-2.4	0.0012	mg/L	0.00214	0.0012	mg/L	0.00214	178.63%
B 249.677†	15.3	0.0088	mg/L	0.00128	0.0088	mg/L	0.00128	14.57%
B 182.528†	9.4	0.0116	mg/L	0.00068	0.0116	mg/L	0.00068	5.90%
Ba 233.527†	67.9	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.47%
Be 313.107†	142.8	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.30%
Ca 315.887†	2866.7	0.0339	mg/L	0.00003	0.0339	mg/L	0.00003	0.10%
Cd 228.802†	12.0	0.0018	mg/L	0.00007	0.0018	mg/L	0.00007	4.07%
Co 228.616†	16.2	-0.0018	mg/L	0.00014	-0.0018	mg/L	0.00014	7.57%
Cr 267.716†	570.0	0.0048	mg/L	0.00059	0.0048	mg/L	0.00059	12.25%
Cu 324.752†	565.4	0.0037	mg/L	0.00040	0.0037	mg/L	0.00040	10.67%
Fe 234.349†	63.1	0.0417	mg/L	0.00295	0.0417	mg/L	0.00295	7.08%
K 766.490†	-43.6	0.1248	mg/L	0.05327	0.1248	mg/L	0.05327	42.68%
Li 670.784†	19.6	0.0024	mg/L	0.00080	0.0024	mg/L	0.00080	33.99%
Mg 279.077†	155.3	0.0081	mg/L	0.00070	0.0081	mg/L	0.00070	8.69%
Mn 257.610†	1992.4	0.0021	mg/L	0.00001	0.0021	mg/L	0.00001	0.35%
Mn 294.920†	672.6	0.0013	mg/L	0.00040	0.0013	mg/L	0.00040	32.05%
Mo 202.031†	0.8	0.0028	mg/L	0.00017	0.0028	mg/L	0.00017	5.93%
Na 589.592†	-774.2	-0.0166	mg/L	0.00546	-0.0166	mg/L	0.00546	32.93%
Ni 231.604†	297.8	0.0050	mg/L	0.00029	0.0050	mg/L	0.00029	5.72%
P 214.914†	816.0	0.4763	mg/L	0.00026	0.4763	mg/L	0.00026	0.05%
Pb 220.353†	-30.0	0.0002	mg/L	0.00069	0.0002	mg/L	0.00069	422.47%

Sb 206.836†	-14.0	-0.0014 mg/L	0.00043	-0.0014 mg/L	0.00043	30.23%
Se 196.026†	3.8	0.0066 mg/L	0.00084	0.0066 mg/L	0.00084	12.74%
Sn 189.927†	6.9	0.0024 mg/L	0.00049	0.0024 mg/L	0.00049	20.17%
Sr 407.771†	50.6	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	13.12%
Ti 337.279†	241.7	0.0030 mg/L	0.00013	0.0030 mg/L	0.00013	4.19%
Tl 190.801†	-3.7	-0.0032 mg/L	0.00051	-0.0032 mg/L	0.00051	15.90%
V 292.402†	12.8	0.0024 mg/L	0.00022	0.0024 mg/L	0.00022	9.13%
Zn 213.857†	1346.0	0.0087 mg/L	0.00009	0.0087 mg/L	0.00009	1.00%

Sequence No.: 19
Sample ID: CF31807-BLK2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 6/25/2013 3:16:35 PM
Data Type: Reprocessed on 6/26/2013 10:56:32 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF31807-BLK2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Analysis Time
1	Y 371.029	3191325.7	3191325.7	0.944	mg/L		15:18:43
1	Ag 328.068†	647.7	-50.6	0.0004	mg/L	0.0004 mg/L	15:18:46
1	Al 237.313†	345.6	753.6	0.0762	mg/L	0.0762 mg/L	15:18:46
1	As 188.979†	-1.1	-2.2	0.0013	mg/L	0.0013 mg/L	15:18:56
1	B 249.677†	-14.6	-0.3	0.0024	mg/L	0.0024 mg/L	15:18:27
1	B 182.528†	-4.2	2.5	0.0059	mg/L	0.0059 mg/L	15:18:56
1	Ba 233.527†	-12.6	74.4	0.0012	mg/L	0.0012 mg/L	15:18:56
1	Be 313.107†	-1485.5	-141.1	0.0002	mg/L	0.0002 mg/L	15:18:46
1	Ca 315.887†	3091.7	3993.5	0.0440	mg/L	0.0440 mg/L	15:18:46
1	Cd 228.802†	145.8	7.1	0.0017	mg/L	0.0017 mg/L	15:18:56
1	Co 228.616†	-154.7	14.0	-0.0019	mg/L	-0.0019 mg/L	15:18:56
1	Cr 267.716†	1023.0	373.0	0.0033	mg/L	0.0033 mg/L	15:18:46
1	Cu 324.752†	4236.1	531.4	0.0036	mg/L	0.0036 mg/L	15:18:46
1	Fe 234.349†	133.0	142.6	0.0811	mg/L	0.0811 mg/L	15:18:27
1	K 766.490†	720.5	18.3	0.1512	mg/L	0.1512 mg/L	15:18:17
1	Li 670.784†	-251.7	6.0	0.0020	mg/L	0.0020 mg/L	15:18:17
1	Mg 279.077†	566.7	312.6	0.0183	mg/L	0.0183 mg/L	15:18:46
1	Mn 257.610†	21183.1	6389.0	0.0068	mg/L	0.0068 mg/L	15:18:46
1	Mn 294.920†	1959.5	2716.6	0.0056	mg/L	0.0056 mg/L	15:18:46
1	Mo 202.031†	-2.6	7.7	0.0030	mg/L	0.0030 mg/L	15:18:56
1	Na 589.592†	3582.7	-430.7	0.0294	mg/L	0.0294 mg/L	15:18:17
1	Ni 231.604†	374.8	219.9	0.0036	mg/L	0.0036 mg/L	15:18:46
1	P 214.914†	513.9	590.5	0.3581	mg/L	0.3581 mg/L	15:18:56
1	Pb 220.353†	143.2	-31.4	0.0001	mg/L	0.0001 mg/L	15:18:56
1	Sb 206.836†	39.5	-3.0	0.0031	mg/L	0.0031 mg/L	15:18:56
1	Se 196.026†	18.4	2.7	0.0059	mg/L	0.0059 mg/L	15:18:56
1	Sn 189.927†	57.0	23.0	0.0044	mg/L	0.0044 mg/L	15:18:56
1	Sr 407.771†	384.8	162.1	0.0004	mg/L	0.0004 mg/L	15:18:17
1	Ti 337.279†	-1298.3	-77.6	0.0027	mg/L	0.0027 mg/L	15:18:46
1	Tl 190.801†	-6.1	0.7	0.0001	mg/L	0.0001 mg/L	15:18:56
1	V 292.402†	-1005.3	-163.3	0.0017	mg/L	0.0017 mg/L	15:18:46
1	Zn 213.857†	3585.0	2928.8	0.0184	mg/L	0.0184 mg/L	15:18:56
2	Y 371.029	3194431.6	3194431.6	0.945	mg/L		15:18:58
2	Ag 328.068†	632.9	-66.9	0.0003	mg/L	0.0003 mg/L	15:19:00
2	Al 237.313†	242.9	644.5	0.0662	mg/L	0.0662 mg/L	15:19:00
2	As 188.979†	2.2	1.3	0.0034	mg/L	0.0034 mg/L	15:19:11
2	B 249.677†	-18.0	-3.8	0.0010	mg/L	0.0010 mg/L	15:18:40
2	B 182.528†	-4.1	2.7	0.0061	mg/L	0.0061 mg/L	15:19:11
2	Ba 233.527†	-6.0	81.3	0.0012	mg/L	0.0012 mg/L	15:19:11
2	Be 313.107†	-1379.9	-27.8	0.0002	mg/L	0.0002 mg/L	15:19:00
2	Ca 315.887†	3059.9	3956.7	0.0437	mg/L	0.0437 mg/L	15:19:00
2	Cd 228.802†	133.3	-6.3	0.0013	mg/L	0.0013 mg/L	15:19:11
2	Co 228.616†	-163.0	5.4	-0.0020	mg/L	-0.0020 mg/L	15:19:11
2	Cr 267.716†	1016.3	364.9	0.0033	mg/L	0.0033 mg/L	15:19:00
2	Cu 324.752†	4169.0	456.0	0.0033	mg/L	0.0033 mg/L	15:19:00
2	Fe 234.349†	130.6	139.9	0.0797	mg/L	0.0797 mg/L	15:18:40
2	K 766.490†	690.6	-14.1	0.1374	mg/L	0.1374 mg/L	15:18:30
2	Li 670.784†	-243.0	15.4	0.0023	mg/L	0.0023 mg/L	15:18:30
2	Mg 279.077†	497.5	238.8	0.0135	mg/L	0.0135 mg/L	15:19:00
2	Mn 257.610†	21105.6	6285.2	0.0067	mg/L	0.0067 mg/L	15:19:00
2	Mn 294.920†	2012.1	2770.3	0.0057	mg/L	0.0057 mg/L	15:19:00
2	Mo 202.031†	13.9	25.1	0.0037	mg/L	0.0037 mg/L	15:19:11

2	Na 589.592†	3497.3	-524.8	0.0168 mg/L	0.0168 mg/L	15:18:30
2	Ni 231.604†	361.9	205.9	0.0033 mg/L	0.0033 mg/L	15:19:00
2	P 214.914†	491.0	565.7	0.3451 mg/L	0.3451 mg/L	15:19:11
2	Pb 220.353†	158.0	-15.9	0.0010 mg/L	0.0010 mg/L	15:19:11
2	Sb 206.836†	30.5	-12.6	-0.0008 mg/L	-0.0008 mg/L	15:19:11
2	Se 196.026†	17.5	1.6	0.0053 mg/L	0.0053 mg/L	15:19:11
2	Sn 189.927†	30.8	-4.9	0.0010 mg/L	0.0010 mg/L	15:19:11
2	Sr 407.771†	513.9	298.3	0.0006 mg/L	0.0006 mg/L	15:18:30
2	Ti 337.279†	-1409.8	-194.4	0.0026 mg/L	0.0026 mg/L	15:19:00
2	Tl 190.801†	-8.2	-1.6	-0.0016 mg/L	-0.0016 mg/L	15:19:11
2	V 292.402†	-979.6	-135.0	0.0018 mg/L	0.0018 mg/L	15:19:00
2	Zn 213.857†	3543.3	2881.0	0.0181 mg/L	0.0181 mg/L	15:19:11

Mean Data: CF31807-BLK2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3192878.6	0.944	mg/L	0.0006			0.07%
Ag 328.068†	-58.7	0.0004	mg/L	0.00006	0.0004 mg/L	0.00006	14.93%
Al 237.313†	699.0	0.0712	mg/L	0.00707	0.0712 mg/L	0.00707	9.93%
As 188.979†	-0.5	0.0024	mg/L	0.00153	0.0024 mg/L	0.00153	64.81%
B 249.677†	-2.0	0.0017	mg/L	0.00102	0.0017 mg/L	0.00102	60.68%
B 182.528†	2.6	0.0060	mg/L	0.00012	0.0060 mg/L	0.00012	1.95%
Ba 233.527†	77.9	0.0012	mg/L	0.00004	0.0012 mg/L	0.00004	3.14%
Be 313.107†	-84.4	0.0002	mg/L	0.00003	0.0002 mg/L	0.00003	15.35%
Ca 315.887†	3975.1	0.0439	mg/L	0.00023	0.0439 mg/L	0.00023	0.53%
Cd 228.802†	0.4	0.0015	mg/L	0.00025	0.0015 mg/L	0.00025	16.81%
Co 228.616†	9.7	-0.0019	mg/L	0.00010	-0.0019 mg/L	0.00010	5.06%
Cr 267.716†	369.0	0.0033	mg/L	0.00004	0.0033 mg/L	0.00004	1.30%
Cu 324.752†	493.7	0.0034	mg/L	0.00023	0.0034 mg/L	0.00023	6.66%
Fe 234.349†	141.2	0.0804	mg/L	0.00095	0.0804 mg/L	0.00095	1.18%
K 766.490†	2.1	0.1443	mg/L	0.00978	0.1443 mg/L	0.00978	6.78%
Li 670.784†	10.7	0.0021	mg/L	0.00016	0.0021 mg/L	0.00016	7.27%
Mg 279.077†	275.7	0.0159	mg/L	0.00339	0.0159 mg/L	0.00339	21.29%
Mn 257.610†	6337.1	0.0067	mg/L	0.00008	0.0067 mg/L	0.00008	1.17%
Mn 294.920†	2743.5	0.0057	mg/L	0.00008	0.0057 mg/L	0.00008	1.43%
Mo 202.031†	16.4	0.0034	mg/L	0.00046	0.0034 mg/L	0.00046	13.77%
Na 589.592†	-477.7	0.0231	mg/L	0.00892	0.0231 mg/L	0.00892	38.55%
Ni 231.604†	212.9	0.0034	mg/L	0.00018	0.0034 mg/L	0.00018	5.33%
P 214.914†	578.1	0.3516	mg/L	0.00920	0.3516 mg/L	0.00920	2.62%
Pb 220.353†	-23.6	0.0005	mg/L	0.00064	0.0005 mg/L	0.00064	120.82%
Sb 206.836†	-7.8	0.0011	mg/L	0.00278	0.0011 mg/L	0.00278	243.09%
Se 196.026†	2.1	0.0056	mg/L	0.00040	0.0056 mg/L	0.00040	7.09%
Sn 189.927†	9.0	0.0027	mg/L	0.00242	0.0027 mg/L	0.00242	89.30%
Sr 407.771†	230.2	0.0005	mg/L	0.00008	0.0005 mg/L	0.00008	16.53%
Ti 337.279†	-136.0	0.0026	mg/L	0.00008	0.0026 mg/L	0.00008	3.20%
Tl 190.801†	-0.4	-0.0007	mg/L	0.00120	-0.0007 mg/L	0.00120	167.84%
V 292.402†	-149.1	0.0018	mg/L	0.00008	0.0018 mg/L	0.00008	4.80%
Zn 213.857†	2904.9	0.0183	mg/L	0.00021	0.0183 mg/L	0.00021	1.13%

Sequence No.: 20

Sample ID: CF32007-BLK3

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 6/25/2013 3:20:48 PM

Data Type: Reprocessed on 6/26/2013 10:56:32 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32007-BLK3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3167098.2	3167098.2	0.937	mg/L		15:22:53
1	Ag 328.068†	689.6	-0.5	0.0006	mg/L	0.0006 mg/L	15:22:55
1	Al 237.313†	-254.3	116.0	0.0177	mg/L	0.0177 mg/L	15:22:55
1	As 188.979†	-4.3	-5.6	-0.0008	mg/L	-0.0008 mg/L	15:23:05
1	B 249.677†	-5.0	9.9	0.0065	mg/L	0.0065 mg/L	15:22:37
1	B 182.528†	-2.8	3.9	0.0071	mg/L	0.0071 mg/L	15:23:05
1	Ba 233.527†	-14.9	71.9	0.0011	mg/L	0.0011 mg/L	15:23:05
1	Be 313.107†	-1351.5	-10.1	0.0002	mg/L	0.0002 mg/L	15:22:55
1	Ca 315.887†	2213.0	3080.5	0.0359	mg/L	0.0359 mg/L	15:22:55
1	Cd 228.802†	147.3	9.8	0.0018	mg/L	0.0018 mg/L	15:23:05
1	Co 228.616†	-167.2	-0.5	-0.0021	mg/L	-0.0021 mg/L	15:23:05

1	Cr 267.716†	1102.2	465.9	0.0041 mg/L	0.0041 mg/L	15:22:55
1	Cu 324.752†	4318.4	653.6	0.0041 mg/L	0.0041 mg/L	15:22:55
1	Fe 234.349†	53.3	58.5	0.0395 mg/L	0.0395 mg/L	15:22:37
1	K 766.490†	675.3	-24.1	0.1331 mg/L	0.1331 mg/L	15:22:27
1	Li 670.784†	-201.2	57.9	0.0033 mg/L	0.0033 mg/L	15:22:27
1	Mg 279.077†	311.8	45.0	0.0009 mg/L	0.0009 mg/L	15:22:55
1	Mn 257.610†	16505.2	1566.6	0.0016 mg/L	0.0016 mg/L	15:22:55
1	Mn 294.920†	-421.1	191.1	0.0002 mg/L	0.0002 mg/L	15:22:55
1	Mo 202.031†	-9.9	-0.1	0.0028 mg/L	0.0028 mg/L	15:23:05
1	Na 589.592†	2940.2	-1087.5	-0.0586 mg/L	-0.0586 mg/L	15:22:27
1	Ni 231.604†	367.9	215.6	0.0035 mg/L	0.0035 mg/L	15:22:55
1	P 214.914†	474.1	552.2	0.3380 mg/L	0.3380 mg/L	15:23:05
1	Pb 220.353†	152.5	-20.3	0.0007 mg/L	0.0007 mg/L	15:23:05
1	Sb 206.836†	42.2	0.3	0.0044 mg/L	0.0044 mg/L	15:23:05
1	Se 196.026†	15.9	0.1	0.0045 mg/L	0.0045 mg/L	15:23:05
1	Sn 189.927†	63.9	30.8	0.0054 mg/L	0.0054 mg/L	15:23:05
1	Sr 407.771†	323.5	99.8	0.0004 mg/L	0.0004 mg/L	15:22:27
1	Ti 337.279†	-1390.2	-186.3	0.0026 mg/L	0.0026 mg/L	15:22:55
1	Tl 190.801†	-5.0	1.8	0.0010 mg/L	0.0010 mg/L	15:23:05
1	V 292.402†	-905.6	-65.0	0.0021 mg/L	0.0021 mg/L	15:22:55
1	Zn 213.857†	1708.8	954.9	0.0063 mg/L	0.0063 mg/L	15:23:05
2	Y 371.029	3190479.6	3190479.6	0.944 mg/L		15:23:08
2	Ag 328.068†	682.8	-13.2	0.0006 mg/L	0.0006 mg/L	15:23:10
2	Al 237.313†	-262.5	109.3	0.0171 mg/L	0.0171 mg/L	15:23:10
2	As 188.979†	-3.6	-4.9	-0.0004 mg/L	-0.0004 mg/L	15:23:20
2	B 249.677†	-11.2	3.3	0.0039 mg/L	0.0039 mg/L	15:22:49
2	B 182.528†	-3.1	3.7	0.0069 mg/L	0.0069 mg/L	15:23:20
2	Ba 233.527†	-46.0	39.0	0.0009 mg/L	0.0009 mg/L	15:23:20
2	Be 313.107†	-1413.7	-65.4	0.0002 mg/L	0.0002 mg/L	15:23:10
2	Ca 315.887†	2087.6	2930.3	0.0345 mg/L	0.0345 mg/L	15:23:10
2	Cd 228.802†	153.2	14.9	0.0019 mg/L	0.0019 mg/L	15:23:20
2	Co 228.616†	-158.2	10.2	-0.0019 mg/L	-0.0019 mg/L	15:23:20
2	Cr 267.716†	1083.2	437.2	0.0038 mg/L	0.0038 mg/L	15:23:10
2	Cu 324.752†	4315.1	616.3	0.0039 mg/L	0.0039 mg/L	15:23:10
2	Fe 234.349†	58.2	63.3	0.0419 mg/L	0.0419 mg/L	15:22:49
2	K 766.490†	697.7	-5.7	0.1410 mg/L	0.1410 mg/L	15:22:39
2	Li 670.784†	-288.0	-32.6	0.0011 mg/L	0.0011 mg/L	15:22:39
2	Mg 279.077†	316.9	48.0	0.0011 mg/L	0.0011 mg/L	15:23:10
2	Mn 257.610†	16588.0	1525.2	0.0016 mg/L	0.0016 mg/L	15:23:10
2	Mn 294.920†	-493.8	117.3	0.0001 mg/L	0.0001 mg/L	15:23:10
2	Mo 202.031†	-5.7	4.4	0.0029 mg/L	0.0029 mg/L	15:23:20
2	Na 589.592†	3046.2	-998.2	-0.0466 mg/L	-0.0466 mg/L	15:22:39
2	Ni 231.604†	357.4	201.7	0.0032 mg/L	0.0032 mg/L	15:23:10
2	P 214.914†	453.9	527.0	0.3248 mg/L	0.3248 mg/L	15:23:20
2	Pb 220.353†	135.5	-39.6	-0.0004 mg/L	-0.0004 mg/L	15:23:20
2	Sb 206.836†	41.7	-0.6	0.0041 mg/L	0.0041 mg/L	15:23:20
2	Se 196.026†	12.1	-4.0	0.0022 mg/L	0.0022 mg/L	15:23:20
2	Sn 189.927†	60.6	26.7	0.0049 mg/L	0.0049 mg/L	15:23:20
2	Sr 407.771†	250.1	19.4	0.0003 mg/L	0.0003 mg/L	15:22:39
2	Ti 337.279†	-1608.9	-407.1	0.0024 mg/L	0.0024 mg/L	15:23:10
2	Tl 190.801†	-8.2	-1.5	-0.0015 mg/L	-0.0015 mg/L	15:23:20
2	V 292.402†	-934.1	-88.0	0.0020 mg/L	0.0020 mg/L	15:23:10
2	Zn 213.857†	1739.7	974.2	0.0064 mg/L	0.0064 mg/L	15:23:20

Mean Data: CF32007-BLK3

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3178788.9	0.940	mg/L	0.0049			0.52%
Ag 328.068†	-6.9	0.0006	mg/L	0.00004	0.0006 mg/L	0.00004	6.93%
Al 237.313†	112.6	0.0174	mg/L	0.00043	0.0174 mg/L	0.00043	2.49%
As 188.979†	-5.3	-0.0006	mg/L	0.00031	-0.0006 mg/L	0.00031	53.34%
B 249.677†	6.6	0.0052	mg/L	0.00190	0.0052 mg/L	0.00190	36.52%
B 182.528†	3.8	0.0070	mg/L	0.00013	0.0070 mg/L	0.00013	1.92%
Ba 233.527†	55.5	0.0010	mg/L	0.00018	0.0010 mg/L	0.00018	17.31%
Be 313.107†	-37.7	0.0002	mg/L	0.00001	0.0002 mg/L	0.00001	6.87%
Ca 315.887†	3005.4	0.0352	mg/L	0.00095	0.0352 mg/L	0.00095	2.70%
Cd 228.802†	12.3	0.0018	mg/L	0.00010	0.0018 mg/L	0.00010	5.22%
Co 228.616†	4.9	-0.0020	mg/L	0.00012	-0.0020 mg/L	0.00012	6.10%
Cr 267.716†	451.5	0.0039	mg/L	0.00015	0.0039 mg/L	0.00015	3.91%
Cu 324.752†	634.9	0.0040	mg/L	0.00011	0.0040 mg/L	0.00011	2.80%
Fe 234.349†	60.9	0.0407	mg/L	0.00169	0.0407 mg/L	0.00169	4.16%
K 766.490†	-14.9	0.1371	mg/L	0.00557	0.1371 mg/L	0.00557	4.07%

Li 670.784†	12.6	0.0022 mg/L	0.00150	0.0022 mg/L	0.00150	68.46%
Mg 279.077†	46.5	0.0010 mg/L	0.00014	0.0010 mg/L	0.00014	13.38%
Mn 257.610†	1545.9	0.0016 mg/L	0.00003	0.0016 mg/L	0.00003	2.00%
Mn 294.920†	154.2	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	71.02%
Mo 202.031†	2.1	0.0028 mg/L	0.00012	0.0028 mg/L	0.00012	4.26%
Na 589.592†	-1042.9	-0.0526 mg/L	0.00846	-0.0526 mg/L	0.00846	16.08%
Ni 231.604†	208.6	0.0034 mg/L	0.00018	0.0034 mg/L	0.00018	5.44%
P 214.914†	539.6	0.3314 mg/L	0.00934	0.3314 mg/L	0.00934	2.82%
Pb 220.353†	-29.9	0.0002 mg/L	0.00080	0.0002 mg/L	0.00080	449.35%
Sb 206.836†	-0.2	0.0043 mg/L	0.00024	0.0043 mg/L	0.00024	5.74%
Se 196.026†	-2.0	0.0034 mg/L	0.00163	0.0034 mg/L	0.00163	48.50%
Sn 189.927†	28.8	0.0051 mg/L	0.00035	0.0051 mg/L	0.00035	6.87%
Sr 407.771†	59.6	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	13.78%
Ti 337.279†	-296.7	0.0025 mg/L	0.00016	0.0025 mg/L	0.00016	6.45%
Tl 190.801†	0.1	-0.0003 mg/L	0.00176	-0.0003 mg/L	0.00176	625.82%
V 292.402†	-76.5	0.0021 mg/L	0.00006	0.0021 mg/L	0.00006	3.04%
Zn 213.857†	964.6	0.0064 mg/L	0.00009	0.0064 mg/L	0.00009	1.34%

Sequence No.: 21
Sample ID: 1306299-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 6/25/2013 3:24:58 PM
Data Type: Reprocessed on 6/26/2013 10:56:33 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306299-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3084585.0	3084585.0	0.912 mg/L		15:27:11
1	Ag 328.068†	648.5	-25.9	0.0005 mg/L	0.0005 mg/L	15:27:14
1	Al 237.313†	2144.9	2738.6	0.2582 mg/L	0.2582 mg/L	15:27:24
1	As 188.979†	3.0	2.3	0.0040 mg/L	0.0040 mg/L	15:27:24
1	B 249.677†	4020.0	4421.7	1.807 mg/L	1.807 mg/L	15:26:42
1	B 182.528†	2048.8	2252.8	1.855 mg/L	1.855 mg/L	15:27:24
1	Ba 233.527†	22034.8	24241.2	0.1844 mg/L	0.1844 mg/L	15:27:14
1	Be 313.107†	-1459.9	-167.5	0.0002 mg/L	0.0002 mg/L	15:27:14
1	Ca 315.887†	5250697.9	5756268.4	51.53 mg/L	51.53 mg/L	15:27:11
1	Cd 228.802†	141.9	8.1	0.0017 mg/L	0.0017 mg/L	15:27:24
1	Co 228.616†	-153.9	9.2	-0.0019 mg/L	-0.0019 mg/L	15:27:24
1	Cr 267.716†	1270.1	681.4	0.0057 mg/L	0.0057 mg/L	15:27:14
1	Cu 324.752†	5251.9	1800.2	0.0090 mg/L	0.0090 mg/L	15:27:14
1	Fe 234.349†	491.0	539.9	0.1932 mg/L	0.1932 mg/L	15:26:52
1	K 766.490†	17503.9	18441.8	8.019 mg/L	8.019 mg/L	15:26:42
1	Li 670.784†	-279.5	-33.8	0.0011 mg/L	0.0011 mg/L	15:26:42
1	Mg 279.077†	156586.7	171354.6	11.12 mg/L	11.12 mg/L	15:27:14
1	Mn 257.610†	25785.8	12210.8	0.0130 mg/L	0.0130 mg/L	15:27:14
1	Mn 294.920†	3465.8	4439.7	0.0093 mg/L	0.0093 mg/L	15:27:14
1	Mo 202.031†	507.2	566.4	0.0240 mg/L	0.0240 mg/L	15:27:24
1	Na 589.592†	2842814.9	3111924.0	417.1 mg/L	417.1 mg/L	15:26:40
1	Ni 231.604†	357.4	214.6	0.0035 mg/L	0.0035 mg/L	15:27:24
1	P 214.914†	1624.1	1826.3	1.006 mg/L	1.006 mg/L	15:27:24
1	Pb 220.353†	51.4	-126.8	-0.0055 mg/L	-0.0055 mg/L	15:27:24
1	Sb 206.836†	46.6	6.2	0.0070 mg/L	0.0070 mg/L	15:27:24
1	Se 196.026†	13.7	-1.8	0.0034 mg/L	0.0034 mg/L	15:27:24
1	Sn 189.927†	-492.9	-577.8	-0.0375 mg/L	-0.0375 mg/L	15:27:24
1	Sr 407.771†	270461.8	296221.0	0.2510 mg/L	0.2510 mg/L	15:26:40
1	Ti 337.279†	3543.7	5182.3	0.0081 mg/L	0.0081 mg/L	15:27:14
1	Tl 190.801†	14.2	22.7	0.0087 mg/L	0.0087 mg/L	15:27:24
1	V 292.402†	238.9	1163.7	0.0072 mg/L	0.0072 mg/L	15:27:14
1	Zn 213.857†	3836.5	3336.0	0.0209 mg/L	0.0209 mg/L	15:27:24
2	Y 371.029	3070337.2	3070337.2	0.908 mg/L		15:27:27
2	Ag 328.068†	663.4	-6.2	0.0006 mg/L	0.0006 mg/L	15:27:29
2	Al 237.313†	2085.1	2683.6	0.2531 mg/L	0.2531 mg/L	15:27:39
2	As 188.979†	4.6	4.0	0.0051 mg/L	0.0051 mg/L	15:27:39
2	B 249.677†	4126.2	4559.1	1.863 mg/L	1.863 mg/L	15:26:57
2	B 182.528†	2062.8	2278.6	1.876 mg/L	1.876 mg/L	15:27:39
2	Ba 233.527†	22131.9	24460.2	0.1860 mg/L	0.1860 mg/L	15:27:29
2	Be 313.107†	-1483.2	-200.5	0.0001 mg/L	0.0001 mg/L	15:27:29
2	Ca 315.887†	5229197.0	5759299.3	51.55 mg/L	51.55 mg/L	15:27:27
2	Cd 228.802†	150.4	18.2	0.0020 mg/L	0.0020 mg/L	15:27:39
2	Co 228.616†	-140.5	23.2	-0.0017 mg/L	-0.0017 mg/L	15:27:39

2	Cr 267.716†	1254.6	670.8	0.0056 mg/L	0.0056 mg/L	15:27:29
2	Cu 324.752†	5154.5	1719.6	0.0087 mg/L	0.0087 mg/L	15:27:29
2	Fe 234.349†	479.4	529.6	0.1880 mg/L	0.1880 mg/L	15:27:07
2	K 766.490†	17792.9	18849.1	8.193 mg/L	8.193 mg/L	15:26:57
2	Li 670.784†	-200.2	52.2	0.0031 mg/L	0.0031 mg/L	15:26:57
2	Mg 279.077†	156981.7	172586.0	11.20 mg/L	11.20 mg/L	15:27:29
2	Mn 257.610†	25763.2	12317.2	0.0131 mg/L	0.0131 mg/L	15:27:29
2	Mn 294.920†	3600.6	4605.7	0.0097 mg/L	0.0097 mg/L	15:27:29
2	Mo 202.031†	508.0	569.8	0.0241 mg/L	0.0241 mg/L	15:27:39
2	Na 589.592†	2884990.0	3172829.2	425.2 mg/L	425.2 mg/L	15:26:55
2	Ni 231.604†	368.2	228.3	0.0038 mg/L	0.0038 mg/L	15:27:39
2	P 214.914†	1640.0	1852.1	1.019 mg/L	1.019 mg/L	15:27:39
2	Pb 220.353†	80.7	-94.3	-0.0036 mg/L	-0.0036 mg/L	15:27:39
2	Sb 206.836†	48.6	8.7	0.0080 mg/L	0.0080 mg/L	15:27:39
2	Se 196.026†	9.2	-6.8	0.0007 mg/L	0.0007 mg/L	15:27:39
2	Sn 189.927†	-487.7	-574.5	-0.0371 mg/L	-0.0371 mg/L	15:27:39
2	Sr 407.771†	275476.0	303118.5	0.2569 mg/L	0.2569 mg/L	15:26:55
2	Ti 337.279†	3300.5	4932.5	0.0078 mg/L	0.0078 mg/L	15:27:29
2	Tl 190.801†	9.5	17.6	0.0049 mg/L	0.0049 mg/L	15:27:39
2	V 292.402†	473.6	1423.4	0.0082 mg/L	0.0082 mg/L	15:27:29
2	Zn 213.857†	3894.1	3418.9	0.0214 mg/L	0.0214 mg/L	15:27:39

Mean Data: 1306299-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3077461.1	0.910 mg/L		0.0030				0.33%
Ag 328.068†	-16.1	0.0006 mg/L		0.00007	0.0006 mg/L		0.00007	11.50%
Al 237.313†	2711.1	0.2557 mg/L		0.00356	0.2557 mg/L		0.00356	1.39%
As 188.979†	3.1	0.0046 mg/L		0.00073	0.0046 mg/L		0.00073	16.13%
B 249.677†	4490.4	1.835 mg/L		0.0397	1.835 mg/L		0.0397	2.16%
B 182.528†	2265.7	1.865 mg/L		0.0150	1.865 mg/L		0.0150	0.80%
Ba 233.527†	24350.7	0.1852 mg/L		0.00117	0.1852 mg/L		0.00117	0.63%
Be 313.107†	-184.0	0.0001 mg/L		0.00001	0.0001 mg/L		0.00001	5.56%
Ca 315.887†	5757783.9	51.54 mg/L		0.019	51.54 mg/L		0.019	0.04%
Cd 228.802†	13.2	0.0018 mg/L		0.00019	0.0018 mg/L		0.00019	10.32%
Co 228.616†	16.2	-0.0018 mg/L		0.00016	-0.0018 mg/L		0.00016	8.67%
Cr 267.716†	676.1	0.0057 mg/L		0.00006	0.0057 mg/L		0.00006	1.00%
Cu 324.752†	1759.9	0.0088 mg/L		0.00024	0.0088 mg/L		0.00024	2.76%
Fe 234.349†	534.7	0.1906 mg/L		0.00366	0.1906 mg/L		0.00366	1.92%
K 766.490†	18645.5	8.106 mg/L		0.1230	8.106 mg/L		0.1230	1.52%
Li 670.784†	9.2	0.0021 mg/L		0.00143	0.0021 mg/L		0.00143	67.57%
Mg 279.077†	171970.3	11.16 mg/L		0.057	11.16 mg/L		0.057	0.51%
Mn 257.610†	12264.0	0.0131 mg/L		0.00008	0.0131 mg/L		0.00008	0.63%
Mn 294.920†	4522.7	0.0095 mg/L		0.00025	0.0095 mg/L		0.00025	2.64%
Mo 202.031†	568.1	0.0240 mg/L		0.00009	0.0240 mg/L		0.00009	0.38%
Na 589.592†	3142376.6	421.1 mg/L		5.77	421.1 mg/L		5.77	1.37%
Ni 231.604†	221.5	0.0036 mg/L		0.00018	0.0036 mg/L		0.00018	4.98%
P 214.914†	1839.2	1.013 mg/L		0.0096	1.013 mg/L		0.0096	0.95%
Pb 220.353†	-110.5	-0.0045 mg/L		0.00135	-0.0045 mg/L		0.00135	29.65%
Sb 206.836†	7.5	0.0075 mg/L		0.00073	0.0075 mg/L		0.00073	9.73%
Se 196.026†	-4.3	0.0021 mg/L		0.00193	0.0021 mg/L		0.00193	93.13%
Sn 189.927†	-576.1	-0.0373 mg/L		0.00030	-0.0373 mg/L		0.00030	0.79%
Sr 407.771†	299669.7	0.2540 mg/L		0.00413	0.2540 mg/L		0.00413	1.63%
Ti 337.279†	5057.4	0.0080 mg/L		0.00018	0.0080 mg/L		0.00018	2.27%
Tl 190.801†	20.2	0.0068 mg/L		0.00275	0.0068 mg/L		0.00275	40.42%
V 292.402†	1293.5	0.0077 mg/L		0.00072	0.0077 mg/L		0.00072	9.34%
Zn 213.857†	3377.4	0.0212 mg/L		0.00036	0.0212 mg/L		0.00036	1.70%

Sequence No.: 22

Sample ID: 1306275-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 6/25/2013 3:29:16 PM

Data Type: Reprocessed on 6/26/2013 10:56:33 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306275-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3086891.7	3086891.7	0.913 mg/L				15:31:14
1	Ag 328.068†	523.1	-163.9	0.0027 mg/L		0.0027 mg/L		15:31:16

1	Al	237.313†	6737.3	7767.0	0.7191	mg/L	0.7191	mg/L	15:31:14
1	As	188.979†	6.3	5.8	0.0062	mg/L	0.0062	mg/L	15:31:26
1	B	249.677†	62.4	83.5	0.0366	mg/L	0.0366	mg/L	15:31:02
1	B	182.528†	68.2	81.7	0.0710	mg/L	0.0710	mg/L	15:31:26
1	Ba	233.527†	10080.4	11129.1	0.0850	mg/L	0.0850	mg/L	15:31:16
1	Be	313.107†	-1736.1	-468.9	0.0000	mg/L	0.0000	mg/L	15:31:16
1	Ca	315.887†	6206378.6	6798754.0	60.86	mg/L	60.86	mg/L	15:31:11
1	Cd	228.802†	192.0	62.9	0.0013	mg/L	0.0013	mg/L	15:31:26
1	Co	228.616†	1580.8	1909.4	0.0284	mg/L	0.0284	mg/L	15:31:26
1	Cr	267.716†	853.9	224.5	0.0022	mg/L	0.0022	mg/L	15:31:16
1	Cu	324.752†	4049.5	478.8	0.0034	mg/L	0.0034	mg/L	15:31:16
1	Fe	234.349†	207522.9	227307.8	112.5	mg/L	112.5	mg/L	15:30:59
1	K	766.490†	28929.3	30942.0	13.36	mg/L	13.36	mg/L	15:31:02
1	Li	670.784†	-7.3	264.6	0.0081	mg/L	0.0081	mg/L	15:31:02
1	Mg	279.077†	147696.0	161488.1	10.50	mg/L	10.50	mg/L	15:31:16
1	Mn	257.610†	8421433.2	9208198.7	9.880	mg/L	9.880	mg/L	15:31:11
1	Mn	294.920†	4266872.9	4674276.8	9.970	mg/L	9.970	mg/L	15:31:14
1	Mo	202.031†	246.8	280.8	-0.0036	mg/L	-0.0036	mg/L	15:31:16
1	Na	589.592†	130959.9	139217.9	18.74	mg/L	18.74	mg/L	15:30:59
1	Ni	231.604†	1092.0	1019.0	0.0185	mg/L	0.0185	mg/L	15:31:26
1	P	214.914†	2678.3	2979.7	1.611	mg/L	1.611	mg/L	15:31:26
1	Pb	220.353†	68.9	-107.7	-0.0045	mg/L	-0.0045	mg/L	15:31:26
1	Sb	206.836†	69.3	31.1	-0.0307	mg/L	-0.0307	mg/L	15:31:26
1	Se	196.026†	-32.9	-52.9	-0.0182	mg/L	-0.0182	mg/L	15:31:26
1	Sn	189.927†	-537.4	-626.1	-0.0377	mg/L	-0.0377	mg/L	15:31:26
1	Sr	407.771†	359176.2	393171.0	0.3331	mg/L	0.3331	mg/L	15:30:59
1	Ti	337.279†	539.7	1889.0	0.0047	mg/L	0.0047	mg/L	15:31:16
1	Tl	190.801†	-6.4	0.1	-0.0592	mg/L	-0.0592	mg/L	15:31:26
1	V	292.402†	1220.4	2238.6	0.0112	mg/L	0.0112	mg/L	15:31:16
1	Zn	213.857†	5625.8	5292.7	0.0278	mg/L	0.0278	mg/L	15:31:26
2	Y	371.029	3130977.3	3130977.3	0.926	mg/L			15:31:32
2	Ag	328.068†	578.2	-112.3	0.0029	mg/L	0.0029	mg/L	15:31:34
2	Al	237.313†	6935.3	7876.9	0.7292	mg/L	0.7292	mg/L	15:31:32
2	As	188.979†	-0.8	-1.9	0.0015	mg/L	0.0015	mg/L	15:31:44
2	B	249.677†	86.4	108.5	0.0468	mg/L	0.0468	mg/L	15:31:06
2	B	182.528†	71.2	83.8	0.0727	mg/L	0.0727	mg/L	15:31:44
2	Ba	233.527†	9818.8	10691.2	0.0816	mg/L	0.0816	mg/L	15:31:34
2	Be	313.107†	-1760.3	-468.2	0.0000	mg/L	0.0000	mg/L	15:31:34
2	Ca	315.887†	6217562.3	6715111.8	60.11	mg/L	60.11	mg/L	15:31:30
2	Cd	228.802†	177.6	44.4	0.0008	mg/L	0.0008	mg/L	15:31:44
2	Co	228.616†	1571.1	1874.6	0.0278	mg/L	0.0278	mg/L	15:31:44
2	Cr	267.716†	1843.0	1279.5	0.0102	mg/L	0.0102	mg/L	15:31:34
2	Cu	324.752†	4087.0	456.9	0.0033	mg/L	0.0033	mg/L	15:31:34
2	Fe	234.349†	208089.5	224719.1	111.2	mg/L	111.2	mg/L	15:31:04
2	K	766.490†	28820.2	30378.1	13.12	mg/L	13.12	mg/L	15:31:06
2	Li	670.784†	11.5	285.1	0.0086	mg/L	0.0086	mg/L	15:31:06
2	Mg	279.077†	144642.5	155912.7	10.14	mg/L	10.14	mg/L	15:31:34
2	Mn	257.610†	8438517.1	9096766.0	9.761	mg/L	9.761	mg/L	15:31:30
2	Mn	294.920†	4346758.4	4694738.8	10.01	mg/L	10.01	mg/L	15:31:32
2	Mo	202.031†	202.7	229.3	-0.0053	mg/L	-0.0053	mg/L	15:31:34
2	Na	589.592†	131234.2	137494.4	18.51	mg/L	18.51	mg/L	15:31:04
2	Ni	231.604†	1336.5	1266.2	0.0231	mg/L	0.0231	mg/L	15:31:44
2	P	214.914†	2660.3	2918.9	1.579	mg/L	1.579	mg/L	15:31:44
2	Pb	220.353†	33.1	-147.3	-0.0068	mg/L	-0.0068	mg/L	15:31:44
2	Sb	206.836†	61.3	21.4	-0.0342	mg/L	-0.0342	mg/L	15:31:44
2	Se	196.026†	-20.0	-38.5	-0.0103	mg/L	-0.0103	mg/L	15:31:44
2	Sn	189.927†	-547.9	-629.2	-0.0385	mg/L	-0.0385	mg/L	15:31:44
2	Sr	407.771†	360471.8	389030.7	0.3296	mg/L	0.3296	mg/L	15:31:04
2	Ti	337.279†	734.9	2091.6	0.0049	mg/L	0.0049	mg/L	15:31:34
2	Tl	190.801†	1.5	8.7	-0.0520	mg/L	-0.0520	mg/L	15:31:44
2	V	292.402†	1104.0	2094.1	0.0107	mg/L	0.0107	mg/L	15:31:34
2	Zn	213.857†	5638.4	5219.5	0.0274	mg/L	0.0274	mg/L	15:31:44

Mean Data: 1306275-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD	
Y 371.029	3108934.5	0.919	mg/L	0.0092			1.00%	
Ag 328.068†	-138.1	0.0028	mg/L	0.00015	0.0028	mg/L	0.00015	5.46%
Al 237.313†	7822.0	0.7242	mg/L	0.00715	0.7242	mg/L	0.00715	0.99%
As 188.979†	2.0	0.0038	mg/L	0.00334	0.0038	mg/L	0.00334	87.37%
B 249.677†	96.0	0.0417	mg/L	0.00720	0.0417	mg/L	0.00720	17.26%
B 182.528†	82.8	0.0719	mg/L	0.00122	0.0719	mg/L	0.00122	1.70%

Ba 233.527†	10910.2	0.0833 mg/L	0.00235	0.0833 mg/L	0.00235	2.82%
Be 313.107†	-468.5	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	1.81%
Ca 315.887†	6756932.9	60.48 mg/L	0.529	60.48 mg/L	0.529	0.88%
Cd 228.802†	53.6	0.0010 mg/L	0.00034	0.0010 mg/L	0.00034	32.48%
Co 228.616†	1892.0	0.0281 mg/L	0.00039	0.0281 mg/L	0.00039	1.40%
Cr 267.716†	752.0	0.0062 mg/L	0.00567	0.0062 mg/L	0.00567	91.00%
Cu 324.752†	467.9	0.0033 mg/L	0.00007	0.0033 mg/L	0.00007	1.97%
Fe 234.349†	226013.5	111.8 mg/L	0.91	111.8 mg/L	0.91	0.81%
K 766.490†	30660.0	13.24 mg/L	0.170	13.24 mg/L	0.170	1.29%
Li 670.784†	274.8	0.0084 mg/L	0.00034	0.0084 mg/L	0.00034	4.06%
Mg 279.077†	158700.4	10.32 mg/L	0.256	10.32 mg/L	0.256	2.48%
Mn 257.610†	9152482.3	9.820 mg/L	0.0846	9.820 mg/L	0.0846	0.86%
Mn 294.920†	4684507.8	9.992 mg/L	0.0309	9.992 mg/L	0.0309	0.31%
Mo 202.031†	255.1	-0.0044 mg/L	0.00123	-0.0044 mg/L	0.00123	27.72%
Na 589.592†	138356.2	18.63 mg/L	0.163	18.63 mg/L	0.163	0.88%
Ni 231.604†	1142.6	0.0208 mg/L	0.00325	0.0208 mg/L	0.00325	15.66%
P 214.914†	2949.3	1.595 mg/L	0.0225	1.595 mg/L	0.0225	1.41%
Pb 220.353†	-127.5	-0.0056 mg/L	0.00164	-0.0056 mg/L	0.00164	29.16%
Sb 206.836†	26.2	-0.0324 mg/L	0.00248	-0.0324 mg/L	0.00248	7.66%
Se 196.026†	-45.7	-0.0142 mg/L	0.00559	-0.0142 mg/L	0.00559	39.22%
Sn 189.927†	-627.6	-0.0381 mg/L	0.00059	-0.0381 mg/L	0.00059	1.56%
Sr 407.771†	391100.9	0.3314 mg/L	0.00248	0.3314 mg/L	0.00248	0.75%
Ti 337.279†	1990.3	0.0048 mg/L	0.00015	0.0048 mg/L	0.00015	3.04%
Tl 190.801†	4.4	-0.0556 mg/L	0.00511	-0.0556 mg/L	0.00511	9.20%
V 292.402†	2166.4	0.0109 mg/L	0.00040	0.0109 mg/L	0.00040	3.61%
Zn 213.857†	5256.1	0.0276 mg/L	0.00030	0.0276 mg/L	0.00030	1.09%

Sequence No.: 23
Sample ID: CCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/25/2013 3:33:23 PM
Data Type: Reprocessed on 6/26/2013 10:56:34 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3165966.3	3165966.3	0.936 mg/L			15:35:18
1	Ag 328.068†	48362.1	50912.7	0.2452 mg/L		0.2452 mg/L	15:35:18
1	Al 237.313†	24590.9	26649.9	2.452 mg/L		2.452 mg/L	15:35:28
1	As 188.979†	739.8	789.1	0.4846 mg/L		0.4846 mg/L	15:35:28
1	B 249.677†	1097.4	1187.2	0.4878 mg/L		0.4878 mg/L	15:35:08
1	B 182.528†	551.0	595.5	0.4931 mg/L		0.4931 mg/L	15:35:28
1	Ba 233.527†	60748.6	64965.7	0.4931 mg/L		0.4931 mg/L	15:35:18
1	Be 313.107†	132824.7	143286.0	0.0506 mg/L		0.0506 mg/L	15:35:18
1	Ca 315.887†	471234.6	503983.8	4.521 mg/L		4.521 mg/L	15:35:18
1	Cd 228.802†	9257.9	9739.7	0.2620 mg/L		0.2620 mg/L	15:35:28
1	Co 228.616†	29213.5	31377.1	0.4973 mg/L		0.4973 mg/L	15:35:28
1	Cr 267.716†	59222.6	62537.3	0.4766 mg/L		0.4766 mg/L	15:35:18
1	Cu 324.752†	106545.0	109830.5	0.4708 mg/L		0.4708 mg/L	15:35:18
1	Fe 234.349†	4703.0	5024.3	2.484 mg/L		2.484 mg/L	15:35:08
1	K 766.490†	54670.8	57641.8	24.76 mg/L		24.76 mg/L	15:35:06
1	Li 670.784†	19623.7	21230.2	0.5004 mg/L		0.5004 mg/L	15:35:08
1	Mg 279.077†	66905.8	71165.8	4.620 mg/L		4.620 mg/L	15:35:18
1	Mn 257.610†	441105.7	455034.7	0.4889 mg/L		0.4889 mg/L	15:35:18
1	Mn 294.920†	214140.4	229336.7	0.4890 mg/L		0.4890 mg/L	15:35:18
1	Mo 202.031†	12138.1	12973.6	0.4871 mg/L		0.4871 mg/L	15:35:28
1	Na 589.592†	178656.3	186573.6	25.09 mg/L		25.09 mg/L	15:35:06
1	Ni 231.604†	24553.6	26045.5	0.4849 mg/L		0.4849 mg/L	15:35:18
1	P 214.914†	8533.3	9159.4	4.843 mg/L		4.843 mg/L	15:35:28
1	Pb 220.353†	8001.2	8362.0	0.4920 mg/L		0.4920 mg/L	15:35:28
1	Sb 206.836†	1150.2	1183.6	0.4884 mg/L		0.4884 mg/L	15:35:28
1	Se 196.026†	1618.4	1711.6	0.9520 mg/L		0.9520 mg/L	15:35:28
1	Sn 189.927†	3770.7	3989.5	0.4943 mg/L		0.4943 mg/L	15:35:28
1	Sr 407.771†	54682.7	58154.0	0.0495 mg/L		0.0495 mg/L	15:35:06
1	Ti 337.279†	438448.0	469548.5	0.4841 mg/L		0.4841 mg/L	15:35:18
1	Tl 190.801†	554.2	599.0	0.4474 mg/L		0.4474 mg/L	15:35:28
1	V 292.402†	115572.1	124329.8	0.4960 mg/L		0.4960 mg/L	15:35:18
1	Zn 213.857†	75872.7	80160.6	0.4888 mg/L		0.4888 mg/L	15:35:18
2	Y 371.029	3185438.9	3185438.9	0.942 mg/L			15:35:32
2	Ag 328.068†	48545.5	50791.6	0.2446 mg/L		0.2446 mg/L	15:35:32

2	Al 237.313†	24664.5	26567.5	2.444 mg/L	2.444 mg/L	15:35:42
2	As 188.979†	741.4	786.0	0.4827 mg/L	0.4827 mg/L	15:35:42
2	B 249.677†	1105.4	1188.6	0.4883 mg/L	0.4883 mg/L	15:35:13
2	B 182.528†	558.7	600.0	0.4968 mg/L	0.4968 mg/L	15:35:42
2	Ba 233.527†	60941.1	64773.3	0.4916 mg/L	0.4916 mg/L	15:35:32
2	Be 313.107†	133307.2	142931.0	0.0505 mg/L	0.0505 mg/L	15:35:32
2	Ca 315.887†	472129.8	501857.6	4.502 mg/L	4.502 mg/L	15:35:32
2	Cd 228.802†	9276.4	9699.0	0.2609 mg/L	0.2609 mg/L	15:35:42
2	Co 228.616†	29383.0	31366.4	0.4971 mg/L	0.4971 mg/L	15:35:42
2	Cr 267.716†	59337.4	62272.6	0.4746 mg/L	0.4746 mg/L	15:35:32
2	Cu 324.752†	107037.8	109658.0	0.4700 mg/L	0.4700 mg/L	15:35:32
2	Fe 234.349†	4739.4	5032.3	2.488 mg/L	2.488 mg/L	15:35:13
2	K 766.490†	54107.7	56687.2	24.35 mg/L	24.35 mg/L	15:35:11
2	Li 670.784†	19694.8	21177.6	0.4992 mg/L	0.4992 mg/L	15:35:13
2	Mg 279.077†	67188.5	71029.0	4.611 mg/L	4.611 mg/L	15:35:32
2	Mn 257.610†	442431.3	453562.0	0.4873 mg/L	0.4873 mg/L	15:35:32
2	Mn 294.920†	214625.9	228454.1	0.4871 mg/L	0.4871 mg/L	15:35:32
2	Mo 202.031†	12188.3	12947.6	0.4862 mg/L	0.4862 mg/L	15:35:42
2	Na 589.592†	177370.4	184042.4	24.75 mg/L	24.75 mg/L	15:35:11
2	Ni 231.604†	24645.0	25982.1	0.4837 mg/L	0.4837 mg/L	15:35:32
2	P 214.914†	8580.3	9153.5	4.840 mg/L	4.840 mg/L	15:35:42
2	Pb 220.353†	8048.1	8359.5	0.4919 mg/L	0.4919 mg/L	15:35:42
2	Sb 206.836†	1156.3	1182.5	0.4880 mg/L	0.4880 mg/L	15:35:42
2	Se 196.026†	1636.8	1720.5	0.9569 mg/L	0.9569 mg/L	15:35:42
2	Sn 189.927†	3782.9	3977.9	0.4929 mg/L	0.4929 mg/L	15:35:42
2	Sr 407.771†	54015.6	57088.9	0.0486 mg/L	0.0486 mg/L	15:35:11
2	Ti 337.279†	440477.2	468840.0	0.4834 mg/L	0.4834 mg/L	15:35:32
2	Tl 190.801†	569.7	611.8	0.4571 mg/L	0.4571 mg/L	15:35:42
2	V 292.402†	116008.8	124038.8	0.4948 mg/L	0.4948 mg/L	15:35:32
2	Zn 213.857†	75998.8	79799.1	0.4866 mg/L	0.4866 mg/L	15:35:32

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3175702.6	0.939 mg/L		0.0041				0.43%
Ag 328.068†	50852.1	0.2449 mg/L		0.00041	0.2449 mg/L		0.00041	0.17%
	QC value within limits for Ag 328.068	Recovery = 97.97%						
Al 237.313†	26608.7	2.448 mg/L		0.0053	2.448 mg/L		0.0053	0.22%
	QC value within limits for Al 237.313	Recovery = 97.93%						
As 188.979†	787.5	0.4836 mg/L		0.00135	0.4836 mg/L		0.00135	0.28%
	QC value within limits for As 188.979	Recovery = 96.72%						
B 249.677†	1187.9	0.4881 mg/L		0.00038	0.4881 mg/L		0.00038	0.08%
	QC value within limits for B 249.677	Recovery = 97.61%						
B 182.528†	597.7	0.4950 mg/L		0.00263	0.4950 mg/L		0.00263	0.53%
	QC value within limits for B 182.528	Recovery = 98.99%						
Ba 233.527†	64869.5	0.4924 mg/L		0.00103	0.4924 mg/L		0.00103	0.21%
	QC value within limits for Ba 233.527	Recovery = 98.47%						
Be 313.107†	143108.5	0.0506 mg/L		0.00009	0.0506 mg/L		0.00009	0.18%
	QC value within limits for Be 313.107	Recovery = 101.12%						
Ca 315.887†	502920.7	4.511 mg/L		0.0135	4.511 mg/L		0.0135	0.30%
	QC value within limits for Ca 315.887	Recovery = 90.22%						
Cd 228.802†	9719.4	0.2614 mg/L		0.00077	0.2614 mg/L		0.00077	0.29%
	QC value within limits for Cd 228.802	Recovery = 104.57%						
Co 228.616†	31371.7	0.4972 mg/L		0.00012	0.4972 mg/L		0.00012	0.02%
	QC value within limits for Co 228.616	Recovery = 99.44%						
Cr 267.716†	62404.9	0.4756 mg/L		0.00142	0.4756 mg/L		0.00142	0.30%
	QC value within limits for Cr 267.716	Recovery = 95.11%						
Cu 324.752†	109744.2	0.4704 mg/L		0.00052	0.4704 mg/L		0.00052	0.11%
	QC value within limits for Cu 324.752	Recovery = 94.08%						
Fe 234.349†	5028.3	2.486 mg/L		0.0028	2.486 mg/L		0.0028	0.11%
	QC value within limits for Fe 234.349	Recovery = 99.43%						
K 766.490†	57164.5	24.55 mg/L		0.288	24.55 mg/L		0.288	1.17%
	QC value within limits for K 766.490	Recovery = 98.22%						
Li 670.784†	21203.9	0.4998 mg/L		0.00087	0.4998 mg/L		0.00087	0.17%
	QC value within limits for Li 670.784	Recovery = 99.96%						
Mg 279.077†	71097.4	4.615 mg/L		0.0063	4.615 mg/L		0.0063	0.14%
	QC value within limits for Mg 279.077	Recovery = 92.31%						
Mn 257.610†	454298.4	0.4881 mg/L		0.00112	0.4881 mg/L		0.00112	0.23%
	QC value within limits for Mn 257.610	Recovery = 97.62%						
Mn 294.920†	228895.4	0.4881 mg/L		0.00133	0.4881 mg/L		0.00133	0.27%
	QC value within limits for Mn 294.920	Recovery = 97.61%						
Mo 202.031†	12960.6	0.4867 mg/L		0.00069	0.4867 mg/L		0.00069	0.14%

QC value within limits for Mo 202.031 Recovery = 97.33%
Na 589.592† 185308.0 24.92 mg/L 0.240 24.92 mg/L 0.240 0.96%
QC value within limits for Na 589.592 Recovery = 99.67%
Ni 231.604† 26013.8 0.4843 mg/L 0.00083 0.4843 mg/L 0.00083 0.17%
QC value within limits for Ni 231.604 Recovery = 96.85%
P 214.914† 9156.5 4.842 mg/L 0.0022 4.842 mg/L 0.0022 0.05%
QC value within limits for P 214.914 Recovery = 96.83%
Pb 220.353† 8360.8 0.4919 mg/L 0.00010 0.4919 mg/L 0.00010 0.02%
QC value within limits for Pb 220.353 Recovery = 98.38%
Sb 206.836† 1183.1 0.4882 mg/L 0.00029 0.4882 mg/L 0.00029 0.06%
QC value within limits for Sb 206.836 Recovery = 97.64%
Se 196.026† 1716.0 0.9545 mg/L 0.00348 0.9545 mg/L 0.00348 0.36%
QC value within limits for Se 196.026 Recovery = 95.45%
Sn 189.927† 3983.7 0.4936 mg/L 0.00102 0.4936 mg/L 0.00102 0.21%
QC value within limits for Sn 189.927 Recovery = 98.72%
Sr 407.771† 57621.5 0.0491 mg/L 0.00064 0.0491 mg/L 0.00064 1.30%
QC value within limits for Sr 407.771 Recovery = 98.15%
Ti 337.279† 469194.3 0.4837 mg/L 0.00051 0.4837 mg/L 0.00051 0.11%
QC value within limits for Ti 337.279 Recovery = 96.74%
Tl 190.801† 605.4 0.4523 mg/L 0.00683 0.4523 mg/L 0.00683 1.51%
QC value within limits for Tl 190.801 Recovery = 90.45%
V 292.402† 124184.3 0.4954 mg/L 0.00082 0.4954 mg/L 0.00082 0.17%
QC value within limits for V 292.402 Recovery = 99.08%
Zn 213.857† 79979.9 0.4877 mg/L 0.00156 0.4877 mg/L 0.00156 0.32%
QC value within limits for Zn 213.857 Recovery = 97.54%
All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 1
Sample ID: CCB1 Date Collected: 6/25/2013 3:37:21 PM
Analyst: Data Type: Reprocessed on 6/26/2013 10:56:35 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3159914.1	3159914.1	0.935 mg/L			15:39:26
1	Ag 328.068†	682.3	-6.7	0.0006 mg/L		0.0006 mg/L	15:39:29
1	Al 237.313†	-521.5	-170.6	-0.0085 mg/L		-0.0085 mg/L	15:39:29
1	As 188.979†	-1.9	-3.1	0.0007 mg/L		0.0007 mg/L	15:39:39
1	B 249.677†	-7.3	7.4	0.0055 mg/L		0.0055 mg/L	15:39:10
1	B 182.528†	-0.2	6.7	0.0094 mg/L		0.0094 mg/L	15:39:39
1	Ba 233.527†	-71.2	11.6	0.0007 mg/L		0.0007 mg/L	15:39:39
1	Be 313.107†	-1369.0	-32.1	0.0002 mg/L		0.0002 mg/L	15:39:29
1	Ca 315.887†	-1786.9	-1194.0	-0.0024 mg/L		-0.0024 mg/L	15:39:29
1	Cd 228.802†	155.1	18.5	0.0020 mg/L		0.0020 mg/L	15:39:39
1	Co 228.616†	-165.1	1.3	-0.0021 mg/L		-0.0021 mg/L	15:39:39
1	Cr 267.716†	586.6	-83.2	-0.0001 mg/L		-0.0001 mg/L	15:39:29
1	Cu 324.752†	4034.7	360.5	0.0029 mg/L		0.0029 mg/L	15:39:29
1	Fe 234.349†	0.8	2.5	0.0118 mg/L		0.0118 mg/L	15:39:10
1	K 766.490†	684.8	-12.4	0.1381 mg/L		0.1381 mg/L	15:39:00
1	Li 670.784†	-164.9	96.2	0.0042 mg/L		0.0042 mg/L	15:39:00
1	Mg 279.077†	264.0	-5.3	-0.0023 mg/L		-0.0023 mg/L	15:39:29
1	Mn 257.610†	15731.5	778.8	0.0008 mg/L		0.0008 mg/L	15:39:29
1	Mn 294.920†	-897.4	-319.6	-0.0009 mg/L		-0.0009 mg/L	15:39:29
1	Mo 202.031†	-27.0	-18.5	0.0021 mg/L		0.0021 mg/L	15:39:39
1	Na 589.592†	3523.9	-455.8	0.0261 mg/L		0.0261 mg/L	15:39:00
1	Ni 231.604†	159.7	-6.3	-0.0006 mg/L		-0.0006 mg/L	15:39:29
1	P 214.914†	-56.3	-14.2	0.0410 mg/L		0.0410 mg/L	15:39:39
1	Pb 220.353†	135.1	-38.6	-0.0003 mg/L		-0.0003 mg/L	15:39:39
1	Sb 206.836†	32.2	-10.4	0.0001 mg/L		0.0001 mg/L	15:39:39
1	Se 196.026†	16.0	0.2	0.0046 mg/L		0.0046 mg/L	15:39:39
1	Sn 189.927†	53.4	19.6	0.0040 mg/L		0.0040 mg/L	15:39:39
1	Sr 407.771†	287.3	61.8	0.0004 mg/L		0.0004 mg/L	15:39:00
1	Ti 337.279†	-1260.4	-50.7	0.0027 mg/L		0.0027 mg/L	15:39:29
1	Tl 190.801†	-3.3	3.6	0.0024 mg/L		0.0024 mg/L	15:39:39
1	V 292.402†	-1029.6	-199.8	0.0015 mg/L		0.0015 mg/L	15:39:29
1	Zn 213.857†	909.9	104.2	0.0011 mg/L		0.0011 mg/L	15:39:39
2	Y 371.029	3127331.9	3127331.9	0.925 mg/L			15:39:41
2	Ag 328.068†	769.1	94.7	0.0011 mg/L		0.0011 mg/L	15:39:43

2	Al 237.313†	-437.1	-85.1	-0.0007 mg/L	-0.0007 mg/L	15:39:43
2	As 188.979†	-0.2	-1.2	0.0019 mg/L	0.0019 mg/L	15:39:54
2	B 249.677†	-7.7	6.9	0.0053 mg/L	0.0053 mg/L	15:39:23
2	B 182.528†	-7.7	-1.3	0.0028 mg/L	0.0028 mg/L	15:39:54
2	Ba 233.527†	-40.4	44.1	0.0009 mg/L	0.0009 mg/L	15:39:54
2	Be 313.107†	-1336.9	-12.6	0.0002 mg/L	0.0002 mg/L	15:39:43
2	Ca 315.887†	-1887.9	-1323.1	-0.0036 mg/L	-0.0036 mg/L	15:39:43
2	Cd 228.802†	147.8	12.4	0.0018 mg/L	0.0018 mg/L	15:39:54
2	Co 228.616†	-164.7	-0.2	-0.0021 mg/L	-0.0021 mg/L	15:39:54
2	Cr 267.716†	544.2	-122.5	-0.0004 mg/L	-0.0004 mg/L	15:39:43
2	Cu 324.752†	4079.6	454.1	0.0033 mg/L	0.0033 mg/L	15:39:43
2	Fe 234.349†	6.5	8.7	0.0149 mg/L	0.0149 mg/L	15:39:23
2	K 766.490†	601.7	-94.6	0.1030 mg/L	0.1030 mg/L	15:39:13
2	Li 670.784†	-136.3	125.3	0.0048 mg/L	0.0048 mg/L	15:39:13
2	Mg 279.077†	286.9	22.3	-0.0006 mg/L	-0.0006 mg/L	15:39:43
2	Mn 257.610†	15692.4	911.9	0.0009 mg/L	0.0009 mg/L	15:39:43
2	Mn 294.920†	-872.5	-302.7	-0.0008 mg/L	-0.0008 mg/L	15:39:43
2	Mo 202.031†	-8.8	0.9	0.0028 mg/L	0.0028 mg/L	15:39:54
2	Na 589.592†	3473.0	-471.6	0.0240 mg/L	0.0240 mg/L	15:39:13
2	Ni 231.604†	178.2	15.5	-0.0002 mg/L	-0.0002 mg/L	15:39:43
2	P 214.914†	-50.9	-8.9	0.0438 mg/L	0.0438 mg/L	15:39:54
2	Pb 220.353†	139.0	-32.8	0.0000 mg/L	0.0000 mg/L	15:39:54
2	Sb 206.836†	33.3	-8.8	0.0008 mg/L	0.0008 mg/L	15:39:54
2	Se 196.026†	14.7	-1.0	0.0039 mg/L	0.0039 mg/L	15:39:54
2	Sn 189.927†	46.9	13.2	0.0032 mg/L	0.0032 mg/L	15:39:54
2	Sr 407.771†	188.3	-42.0	0.0003 mg/L	0.0003 mg/L	15:39:13
2	Ti 337.279†	-1679.8	-518.3	0.0023 mg/L	0.0023 mg/L	15:39:43
2	Tl 190.801†	-2.2	4.7	0.0032 mg/L	0.0032 mg/L	15:39:54
2	V 292.402†	-989.5	-167.9	0.0017 mg/L	0.0017 mg/L	15:39:43
2	Zn 213.857†	930.1	136.2	0.0013 mg/L	0.0013 mg/L	15:39:54

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc.	Units	Calib Std.Dev.	Conc.	Units	Sample Std.Dev.	RSD
Y 371.029	3143623.0	0.930	mg/L	0.0068				0.73%
Ag 328.068†	44.0	0.0009	mg/L	0.00034	0.0009	mg/L	0.00034	39.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-127.8	-0.0046	mg/L	0.00554	-0.0046	mg/L	0.00554	119.77%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-2.2	0.0013	mg/L	0.00081	0.0013	mg/L	0.00081	61.83%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	7.1	0.0054	mg/L	0.00013	0.0054	mg/L	0.00013	2.44%
QC value within limits for B 249.677 Recovery = Not calculated								
B 182.528†	2.7	0.0061	mg/L	0.00468	0.0061	mg/L	0.00468	76.69%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	27.8	0.0008	mg/L	0.00017	0.0008	mg/L	0.00017	21.59%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-22.4	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.38%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-1258.6	-0.0030	mg/L	0.00082	-0.0030	mg/L	0.00082	27.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	15.4	0.0019	mg/L	0.00012	0.0019	mg/L	0.00012	6.07%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.6	-0.0021	mg/L	0.00002	-0.0021	mg/L	0.00002	0.75%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-102.8	-0.0003	mg/L	0.00021	-0.0003	mg/L	0.00021	76.76%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	407.3	0.0031	mg/L	0.00028	0.0031	mg/L	0.00028	9.22%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	5.6	0.0134	mg/L	0.00217	0.0134	mg/L	0.00217	16.24%
QC value within limits for Fe 234.349 Recovery = Not calculated								
K 766.490†	-53.5	0.1206	mg/L	0.02483	0.1206	mg/L	0.02483	20.59%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	110.7	0.0045	mg/L	0.00048	0.0045	mg/L	0.00048	10.73%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	8.5	-0.0014	mg/L	0.00127	-0.0014	mg/L	0.00127	87.69%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	845.3	0.0008	mg/L	0.00010	0.0008	mg/L	0.00010	11.95%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 294.920†	-311.2	-0.0008	mg/L	0.00003	-0.0008	mg/L	0.00003	3.06%
QC value within limits for Mn 294.920 Recovery = Not calculated								
Mo 202.031†	-8.8	0.0024	mg/L	0.00051	0.0024	mg/L	0.00051	21.05%

QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated
Na 589.592† -463.7 0.0250 mg/L 0.00149 0.0250 mg/L 0.00149 5.97%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† 4.6 -0.0004 mg/L 0.00029 -0.0004 mg/L 0.00029 65.63%
QC value within limits for Ni 231.604 Recovery = Not calculated
P 214.914† -11.6 0.0424 mg/L 0.00195 0.0424 mg/L 0.00195 4.60%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated
Pb 220.353† -35.7 -0.0002 mg/L 0.00024 -0.0002 mg/L 0.00024 151.57%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -9.6 0.0004 mg/L 0.00046 0.0004 mg/L 0.00046 103.47%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -0.4 0.0042 mg/L 0.00047 0.0042 mg/L 0.00047 11.13%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 16.4 0.0036 mg/L 0.00055 0.0036 mg/L 0.00055 15.43%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 407.771† 9.9 0.0003 mg/L 0.00006 0.0003 mg/L 0.00006 20.25%
QC value within limits for Sr 407.771 Recovery = Not calculated
Ti 337.279† -284.5 0.0025 mg/L 0.00034 0.0025 mg/L 0.00034 13.59%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated
Tl 190.801† 4.2 0.0028 mg/L 0.00057 0.0028 mg/L 0.00057 20.40%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† -183.9 0.0016 mg/L 0.00010 0.0016 mg/L 0.00010 5.89%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated
Zn 213.857† 120.2 0.0012 mg/L 0.00014 0.0012 mg/L 0.00014 11.22%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 25 Autosampler Location: 14
Sample ID: 1306283-03 Date Collected: 6/25/2013 3:41:31 PM
Analyst: Data Type: Reprocessed on 6/26/2013 10:56:35 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: 1306283-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	8281986.0	8281986.0	2.45 mg/L		15:43:38
1	Ag 328.068†	667.9	-464.1	-0.0016 mg/L	-0.0016 mg/L	15:43:40
1	Al 237.313†	-457.2	200.8	0.0255 mg/L	0.0255 mg/L	15:43:50
1	As 188.979†	0.8	-0.7	0.0022 mg/L	0.0022 mg/L	15:43:50
1	B 249.677†	-19.3	7.3	0.0055 mg/L	0.0055 mg/L	15:43:21
1	B 182.528†	-10.3	2.8	0.0062 mg/L	0.0062 mg/L	15:43:50
1	Ba 233.527†	-77.6	56.0	0.0010 mg/L	0.0010 mg/L	15:43:50
1	Be 313.107†	-988.6	1029.2	0.0006 mg/L	0.0006 mg/L	15:43:40
1	Ca 315.887†	108.3	762.2	0.0151 mg/L	0.0151 mg/L	15:43:40
1	Cd 228.802†	141.6	-89.6	-0.0009 mg/L	-0.0009 mg/L	15:43:50
1	Co 228.616†	-207.9	93.0	-0.0006 mg/L	-0.0006 mg/L	15:43:50
1	Cr 267.716†	378.3	-556.4	-0.0037 mg/L	-0.0037 mg/L	15:43:40
1	Cu 324.752†	3109.5	-2687.2	-0.0102 mg/L	-0.0102 mg/L	15:43:40
1	Fe 234.349†	-2.3	0.7	0.0110 mg/L	0.0110 mg/L	15:43:21
1	K 766.490†	547.8	-521.5	-0.0792 mg/L	-0.0792 mg/L	15:43:11
1	Li 670.784†	-464.3	83.0	0.0038 mg/L	0.0038 mg/L	15:43:11
1	Mg 279.077†	230.4	-193.8	-0.0146 mg/L	-0.0146 mg/L	15:43:40
1	Mn 257.610†	13716.9	-10454.2	-0.0113 mg/L	-0.0113 mg/L	15:43:50
1	Mn 294.920†	-783.6	320.7	0.0005 mg/L	0.0005 mg/L	15:43:40
1	Mo 202.031†	3.1	11.7	0.0033 mg/L	0.0033 mg/L	15:43:50
1	Na 589.592†	2450.2	-3226.2	-0.3451 mg/L	-0.3451 mg/L	15:43:11
1	Ni 231.604†	173.0	-106.5	-0.0025 mg/L	-0.0025 mg/L	15:43:50
1	P 214.914†	-61.4	21.0	0.0596 mg/L	0.0596 mg/L	15:43:50
1	Pb 220.353†	184.9	-107.6	-0.0044 mg/L	-0.0044 mg/L	15:43:50
1	Sb 206.836†	34.6	-30.7	-0.0081 mg/L	-0.0081 mg/L	15:43:50
1	Se 196.026†	9.1	-13.1	-0.0028 mg/L	-0.0028 mg/L	15:43:50
1	Sn 189.927†	37.5	-22.1	-0.0011 mg/L	-0.0011 mg/L	15:43:50
1	Sr 407.771†	268.8	-135.9	0.0002 mg/L	0.0002 mg/L	15:43:11
1	Ti 337.279†	-973.1	900.6	0.0037 mg/L	0.0037 mg/L	15:43:40
1	Tl 190.801†	-9.8	3.1	0.0020 mg/L	0.0020 mg/L	15:43:50
1	V 292.402†	-842.8	557.8	0.0045 mg/L	0.0045 mg/L	15:43:40
1	Zn 213.857†	1006.9	-458.3	-0.0023 mg/L	-0.0023 mg/L	15:43:50
2	Y 371.029	8406943.1	8406943.1	2.49 mg/L		15:43:52
2	Ag 328.068†	681.3	-462.8	-0.0016 mg/L	-0.0016 mg/L	15:43:55

2	Al 237.313†	-475.3	196.3	0.0251 mg/L	0.0251 mg/L	15:44:05
2	As 188.979†	-2.4	-2.0	0.0014 mg/L	0.0014 mg/L	15:44:05
2	B 249.677†	-12.6	10.1	0.0067 mg/L	0.0067 mg/L	15:43:34
2	B 182.528†	-4.3	5.2	0.0082 mg/L	0.0082 mg/L	15:44:05
2	Ba 233.527†	-66.8	60.9	0.0011 mg/L	0.0011 mg/L	15:44:05
2	Be 313.107†	-1016.7	1023.9	0.0006 mg/L	0.0006 mg/L	15:43:55
2	Ca 315.887†	250.0	818.5	0.0156 mg/L	0.0156 mg/L	15:43:55
2	Cd 228.802†	142.4	-90.2	-0.0009 mg/L	-0.0009 mg/L	15:44:05
2	Co 228.616†	-194.6	99.6	-0.0005 mg/L	-0.0005 mg/L	15:44:05
2	Cr 267.716†	438.6	-534.4	-0.0036 mg/L	-0.0036 mg/L	15:43:55
2	Cu 324.752†	3071.2	-2721.5	-0.0103 mg/L	-0.0103 mg/L	15:43:55
2	Fe 234.349†	17.8	8.8	0.0150 mg/L	0.0150 mg/L	15:43:34
2	K 766.490†	602.4	-502.8	-0.0713 mg/L	-0.0713 mg/L	15:43:24
2	Li 670.784†	-458.7	88.1	0.0040 mg/L	0.0040 mg/L	15:43:24
2	Mg 279.077†	166.0	-221.1	-0.0164 mg/L	-0.0164 mg/L	15:43:55
2	Mn 257.610†	13829.6	-10492.1	-0.0114 mg/L	-0.0114 mg/L	15:44:05
2	Mn 294.920†	-619.1	391.6	0.0007 mg/L	0.0007 mg/L	15:43:55
2	Mo 202.031†	40.2	26.6	0.0038 mg/L	0.0038 mg/L	15:44:05
2	Na 589.592†	2429.8	-3249.2	-0.3482 mg/L	-0.3482 mg/L	15:43:24
2	Ni 231.604†	169.4	-109.0	-0.0026 mg/L	-0.0026 mg/L	15:44:05
2	P 214.914†	-63.7	20.4	0.0593 mg/L	0.0593 mg/L	15:44:05
2	Pb 220.353†	144.7	-124.9	-0.0054 mg/L	-0.0054 mg/L	15:44:05
2	Sb 206.836†	31.1	-32.3	-0.0088 mg/L	-0.0088 mg/L	15:44:05
2	Se 196.026†	14.4	-11.1	-0.0017 mg/L	-0.0017 mg/L	15:44:05
2	Sn 189.927†	57.6	-14.3	-0.0002 mg/L	-0.0002 mg/L	15:44:05
2	Sr 407.771†	113.3	-200.1	0.0001 mg/L	0.0001 mg/L	15:43:24
2	Ti 337.279†	-712.8	1011.2	0.0038 mg/L	0.0038 mg/L	15:43:55
2	Tl 190.801†	-11.0	2.7	0.0016 mg/L	0.0016 mg/L	15:44:05
2	V 292.402†	-755.3	598.1	0.0047 mg/L	0.0047 mg/L	15:43:55
2	Zn 213.857†	1002.1	-466.4	-0.0024 mg/L	-0.0024 mg/L	15:44:05

Mean Data: 1306283-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	8344464.5	2.47 mg/L	0.026			1.06%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 246.8%						
Ag 328.068†	-463.4	-0.0016 mg/L	0.00000	-0.0016 mg/L	0.00000	0.30%
Al 237.313†	198.5	0.0253 mg/L	0.00029	0.0253 mg/L	0.00029	1.16%
As 188.979†	-1.3	0.0018 mg/L	0.00055	0.0018 mg/L	0.00055	30.43%
B 249.677†	8.7	0.0061 mg/L	0.00081	0.0061 mg/L	0.00081	13.35%
B 182.528†	4.0	0.0072 mg/L	0.00143	0.0072 mg/L	0.00143	19.99%
Ba 233.527†	58.5	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.49%
Be 313.107†	1026.5	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.23%
Ca 315.887†	790.3	0.0154 mg/L	0.00036	0.0154 mg/L	0.00036	2.32%
Cd 228.802†	-89.9	-0.0009 mg/L	0.00001	-0.0009 mg/L	0.00001	1.20%
Co 228.616†	96.3	-0.0005 mg/L	0.00007	-0.0005 mg/L	0.00007	13.77%
Cr 267.716†	-545.4	-0.0036 mg/L	0.00012	-0.0036 mg/L	0.00012	3.25%
Cu 324.752†	-2704.3	-0.0102 mg/L	0.00010	-0.0102 mg/L	0.00010	1.01%
Fe 234.349†	4.8	0.0130 mg/L	0.00284	0.0130 mg/L	0.00284	21.85%
K 766.490†	-512.1	-0.0753 mg/L	0.00563	-0.0753 mg/L	0.00563	7.49%
Li 670.784†	85.6	0.0039 mg/L	0.00008	0.0039 mg/L	0.00008	2.17%
Mg 279.077†	-207.5	-0.0155 mg/L	0.00125	-0.0155 mg/L	0.00125	8.09%
Mn 257.610†	-10473.2	-0.0113 mg/L	0.00003	-0.0113 mg/L	0.00003	0.26%
Mn 294.920†	356.1	0.0006 mg/L	0.00011	0.0006 mg/L	0.00011	18.21%
Mo 202.031†	19.1	0.0036 mg/L	0.00040	0.0036 mg/L	0.00040	11.12%
Na 589.592†	-3237.7	-0.3467 mg/L	0.00218	-0.3467 mg/L	0.00218	0.63%
Ni 231.604†	-107.8	-0.0025 mg/L	0.00003	-0.0025 mg/L	0.00003	1.28%
P 214.914†	20.7	0.0595 mg/L	0.00020	0.0595 mg/L	0.00020	0.34%
Pb 220.353†	-116.3	-0.0049 mg/L	0.00071	-0.0049 mg/L	0.00071	14.65%
Sb 206.836†	-31.5	-0.0085 mg/L	0.00047	-0.0085 mg/L	0.00047	5.50%
Se 196.026†	-12.1	-0.0023 mg/L	0.00081	-0.0023 mg/L	0.00081	35.82%
Sn 189.927†	-18.2	-0.0007 mg/L	0.00068	-0.0007 mg/L	0.00068	104.44%
Sr 407.771†	-168.0	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	24.56%
Ti 337.279†	955.9	0.0038 mg/L	0.00008	0.0038 mg/L	0.00008	2.13%
Tl 190.801†	2.9	0.0018 mg/L	0.00024	0.0018 mg/L	0.00024	13.19%
V 292.402†	577.9	0.0046 mg/L	0.00012	0.0046 mg/L	0.00012	2.56%
Zn 213.857†	-462.4	-0.0023 mg/L	0.00003	-0.0023 mg/L	0.00003	1.50%
Internal Standard Check failed. Continue with analysis.						

Analyst:
 Logged In Analyst (Original) : ICP3
 Initial Sample Wt:
 Dilution:

Data Type: Reprocessed on 6/26/2013 10:56:36 AM
 Initial Sample Vol:
 Sample Prep Vol:

 Replicate Data: CF31807-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3179832.7	3179832.7	0.940	mg/L			15:47:49
1	Ag 328.068†	664.7	-30.0	0.0005	mg/L	0.0005	mg/L	15:47:51
1	Al 237.313†	-223.3	150.0	0.0209	mg/L	0.0209	mg/L	15:48:02
1	As 188.979†	12.2	12.0	0.0100	mg/L	0.0100	mg/L	15:48:02
1	B 249.677†	38.5	56.1	0.0254	mg/L	0.0254	mg/L	15:47:33
1	B 182.528†	20.4	28.6	0.0274	mg/L	0.0274	mg/L	15:48:02
1	Ba 233.527†	5377.2	5805.4	0.0446	mg/L	0.0446	mg/L	15:48:02
1	Be 313.107†	-1288.2	63.0	0.0002	mg/L	0.0002	mg/L	15:47:51
1	Ca 315.887†	465391.3	495575.9	4.444	mg/L	4.444	mg/L	15:47:49
1	Cd 228.802†	152.1	14.3	0.0019	mg/L	0.0019	mg/L	15:48:02
1	Co 228.616†	-152.2	16.0	-0.0018	mg/L	-0.0018	mg/L	15:48:02
1	Cr 267.716†	1383.4	760.2	0.0063	mg/L	0.0063	mg/L	15:47:51
1	Cu 324.752†	43092.5	41864.2	0.1801	mg/L	0.1801	mg/L	15:47:51
1	Fe 234.349†	200.2	214.6	0.1094	mg/L	0.1094	mg/L	15:47:33
1	K 766.490†	3534.5	3013.2	1.430	mg/L	1.430	mg/L	15:47:23
1	Li 670.784†	-310.0	-57.0	0.0006	mg/L	0.0006	mg/L	15:47:23
1	Mg 279.077†	67380.5	71359.0	4.632	mg/L	4.632	mg/L	15:47:51
1	Mn 257.610†	19688.2	4880.5	0.0052	mg/L	0.0052	mg/L	15:48:02
1	Mn 294.920†	793.3	1484.2	0.0030	mg/L	0.0030	mg/L	15:47:51
1	Mo 202.031†	9.5	20.6	0.0025	mg/L	0.0025	mg/L	15:48:02
1	Na 589.592†	145294.7	150267.7	20.22	mg/L	20.22	mg/L	15:47:23
1	Ni 231.604†	508.2	363.2	0.0062	mg/L	0.0062	mg/L	15:48:02
1	P 214.914†	537.4	617.5	0.3704	mg/L	0.3704	mg/L	15:48:02
1	Pb 220.353†	143.9	-30.1	0.0001	mg/L	0.0001	mg/L	15:48:02
1	Sb 206.836†	32.3	-10.5	0.0000	mg/L	0.0000	mg/L	15:48:02
1	Se 196.026†	22.4	7.0	0.0083	mg/L	0.0083	mg/L	15:48:02
1	Sn 189.927†	-57.2	-98.3	-0.0078	mg/L	-0.0078	mg/L	15:48:02
1	Sr 407.771†	48596.2	51427.5	0.0438	mg/L	0.0438	mg/L	15:47:23
1	Ti 337.279†	-1443.9	-237.4	0.0025	mg/L	0.0025	mg/L	15:47:51
1	Tl 190.801†	-0.5	6.6	0.0039	mg/L	0.0039	mg/L	15:48:02
1	V 292.402†	-875.8	-29.3	0.0022	mg/L	0.0022	mg/L	15:47:51
1	Zn 213.857†	29756.7	30771.4	0.1892	mg/L	0.1892	mg/L	15:47:51
2	Y 371.029	3113349.4	3113349.4	0.921	mg/L			15:48:04
2	Ag 328.068†	749.8	77.6	0.0010	mg/L	0.0010	mg/L	15:48:06
2	Al 237.313†	-190.9	180.1	0.0236	mg/L	0.0236	mg/L	15:48:17
2	As 188.979†	-1.8	-3.0	0.0008	mg/L	0.0008	mg/L	15:48:17
2	B 249.677†	36.4	54.7	0.0249	mg/L	0.0249	mg/L	15:47:45
2	B 182.528†	23.0	32.0	0.0302	mg/L	0.0302	mg/L	15:48:17
2	Ba 233.527†	5375.6	5925.7	0.0455	mg/L	0.0455	mg/L	15:48:17
2	Be 313.107†	-1289.6	32.2	0.0002	mg/L	0.0002	mg/L	15:48:06
2	Ca 315.887†	454422.0	494230.4	4.432	mg/L	4.432	mg/L	15:48:04
2	Cd 228.802†	143.9	8.9	0.0017	mg/L	0.0017	mg/L	15:48:17
2	Co 228.616†	-144.5	21.0	-0.0017	mg/L	-0.0017	mg/L	15:48:17
2	Cr 267.716†	1318.0	720.6	0.0060	mg/L	0.0060	mg/L	15:48:06
2	Cu 324.752†	42572.2	42277.6	0.1819	mg/L	0.1819	mg/L	15:48:06
2	Fe 234.349†	190.5	208.6	0.1065	mg/L	0.1065	mg/L	15:47:45
2	K 766.490†	3554.7	3115.4	1.474	mg/L	1.474	mg/L	15:47:35
2	Li 670.784†	-362.3	-120.8	-0.0009	mg/L	-0.0009	mg/L	15:47:35
2	Mg 279.077†	66446.8	71874.8	4.665	mg/L	4.665	mg/L	15:48:06
2	Mn 257.610†	19649.3	5285.4	0.0056	mg/L	0.0056	mg/L	15:48:17
2	Mn 294.920†	840.6	1553.5	0.0031	mg/L	0.0031	mg/L	15:48:06
2	Mo 202.031†	39.3	53.1	0.0037	mg/L	0.0037	mg/L	15:48:17
2	Na 589.592†	145017.8	153266.1	20.62	mg/L	20.62	mg/L	15:47:35
2	Ni 231.604†	512.5	379.5	0.0065	mg/L	0.0065	mg/L	15:48:17
2	P 214.914†	552.0	645.6	0.3851	mg/L	0.3851	mg/L	15:48:17
2	Pb 220.353†	165.9	-3.0	0.0017	mg/L	0.0017	mg/L	15:48:17
2	Sb 206.836†	29.5	-12.8	-0.0009	mg/L	-0.0009	mg/L	15:48:17
2	Se 196.026†	15.3	-0.2	0.0043	mg/L	0.0043	mg/L	15:48:17
2	Sn 189.927†	-48.4	-90.1	-0.0067	mg/L	-0.0067	mg/L	15:48:17
2	Sr 407.771†	48602.8	52538.1	0.0448	mg/L	0.0448	mg/L	15:47:35
2	Ti 337.279†	-1522.4	-355.5	0.0024	mg/L	0.0024	mg/L	15:48:06
2	Tl 190.801†	3.7	11.1	0.0073	mg/L	0.0073	mg/L	15:48:17
2	V 292.402†	-1020.0	-205.9	0.0015	mg/L	0.0015	mg/L	15:48:06
2	Zn 213.857†	29566.5	31240.4	0.1921	mg/L	0.1921	mg/L	15:48:06

 Mean Data: CF31807-DUP1

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	3146591.0	0.931	mg/L	0.0139				1.49%
Ag 328.068†	23.8	0.0008	mg/L	0.00036	0.0008	mg/L	0.00036	47.55%
Al 237.313†	165.0	0.0222	mg/L	0.00195	0.0222	mg/L	0.00195	8.75%
As 188.979†	4.5	0.0054	mg/L	0.00646	0.0054	mg/L	0.00646	119.85%
B 249.677†	55.4	0.0251	mg/L	0.00040	0.0251	mg/L	0.00040	1.59%
B 182.528†	30.3	0.0288	mg/L	0.00196	0.0288	mg/L	0.00196	6.81%
Ba 233.527†	5865.6	0.0451	mg/L	0.00065	0.0451	mg/L	0.00065	1.43%
Be 313.107†	47.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.31%
Ca 315.887†	494903.2	4.438	mg/L	0.0085	4.438	mg/L	0.0085	0.19%
Cd 228.802†	11.6	0.0018	mg/L	0.00010	0.0018	mg/L	0.00010	5.70%
Co 228.616†	18.5	-0.0018	mg/L	0.00006	-0.0018	mg/L	0.00006	3.16%
Cr 267.716†	740.4	0.0061	mg/L	0.00021	0.0061	mg/L	0.00021	3.46%
Cu 324.752†	42070.9	0.1810	mg/L	0.00125	0.1810	mg/L	0.00125	0.69%
Fe 234.349†	211.6	0.1080	mg/L	0.00209	0.1080	mg/L	0.00209	1.93%
K 766.490†	3064.3	1.452	mg/L	0.0309	1.452	mg/L	0.0309	2.13%
Li 670.784†	-88.9	-0.0002	mg/L	0.00106	-0.0002	mg/L	0.00106	553.24%
Mg 279.077†	71616.9	4.648	mg/L	0.0237	4.648	mg/L	0.0237	0.51%
Mn 257.610†	5083.0	0.0054	mg/L	0.00031	0.0054	mg/L	0.00031	5.74%
Mn 294.920†	1518.8	0.0031	mg/L	0.00010	0.0031	mg/L	0.00010	3.41%
Mo 202.031†	36.8	0.0031	mg/L	0.00086	0.0031	mg/L	0.00086	27.33%
Na 589.592†	151766.9	20.42	mg/L	0.284	20.42	mg/L	0.284	1.39%
Ni 231.604†	371.3	0.0064	mg/L	0.00022	0.0064	mg/L	0.00022	3.38%
P 214.914†	631.5	0.3777	mg/L	0.01040	0.3777	mg/L	0.01040	2.75%
Pb 220.353†	-16.5	0.0009	mg/L	0.00112	0.0009	mg/L	0.00112	128.73%
Sb 206.836†	-11.6	-0.0005	mg/L	0.00065	-0.0005	mg/L	0.00065	140.20%
Se 196.026†	3.4	0.0063	mg/L	0.00282	0.0063	mg/L	0.00282	44.58%
Sn 189.927†	-94.2	-0.0072	mg/L	0.00071	-0.0072	mg/L	0.00071	9.85%
Sr 407.771†	51982.8	0.0443	mg/L	0.00066	0.0443	mg/L	0.00066	1.50%
Ti 337.279†	-296.5	0.0025	mg/L	0.00009	0.0025	mg/L	0.00009	3.45%
Tl 190.801†	8.9	0.0056	mg/L	0.00240	0.0056	mg/L	0.00240	42.75%
V 292.402†	-117.6	0.0018	mg/L	0.00048	0.0018	mg/L	0.00048	26.32%
Zn 213.857†	31005.9	0.1907	mg/L	0.00203	0.1907	mg/L	0.00203	1.07%

Sequence No.: 27

Sample ID: CF31807-MS1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 6/25/2013 3:49:55 PM

Data Type: Reprocessed on 6/26/2013 10:56:36 AM

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: CF31807-MS1

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units		
1	Y 371.029	3138309.3	3138309.3	0.928 mg/L		15:51:51
1	Ag 328.068†	51419.8	54662.1	0.2632 mg/L	0.2632 mg/L	15:51:51
1	Al 237.313†	26796.1	29257.2	2.691 mg/L	2.691 mg/L	15:51:51
1	As 188.979†	801.6	862.5	0.5294 mg/L	0.5294 mg/L	15:52:02
1	B 249.677†	1262.3	1375.2	0.5646 mg/L	0.5646 mg/L	15:51:42
1	B 182.528†	639.5	695.9	0.5756 mg/L	0.5756 mg/L	15:52:02
1	Ba 233.527†	71317.8	76924.5	0.5838 mg/L	0.5838 mg/L	15:51:51
1	Be 313.107†	148479.0	161401.8	0.0570 mg/L	0.0570 mg/L	15:51:51
1	Ca 315.887†	982569.9	1059323.8	9.491 mg/L	9.491 mg/L	15:51:51
1	Cd 228.802†	10004.1	10630.8	0.2858 mg/L	0.2858 mg/L	15:52:02
1	Co 228.616†	31612.1	34236.3	0.5428 mg/L	0.5428 mg/L	15:52:02
1	Cr 267.716†	65448.9	69802.8	0.5319 mg/L	0.5319 mg/L	15:51:51
1	Cu 324.752†	156116.8	164241.2	0.7032 mg/L	0.7032 mg/L	15:51:51
1	Fe 234.349†	5201.0	5605.1	2.762 mg/L	2.762 mg/L	15:51:42
1	K 766.490†	62531.2	66625.1	28.59 mg/L	28.59 mg/L	15:51:39
1	Li 670.784†	21550.3	23490.5	0.5535 mg/L	0.5535 mg/L	15:51:42
1	Mg 279.077†	137984.5	148374.6	9.633 mg/L	9.633 mg/L	15:51:51
1	Mn 257.610†	481941.7	503182.4	0.5406 mg/L	0.5406 mg/L	15:51:51
1	Mn 294.920†	234492.1	253278.8	0.5401 mg/L	0.5401 mg/L	15:51:51
1	Mo 202.031†	13156.5	14185.0	0.5313 mg/L	0.5313 mg/L	15:52:02
1	Na 589.592†	332709.6	354229.8	47.55 mg/L	47.55 mg/L	15:51:39
1	Ni 231.604†	26855.5	28756.6	0.5354 mg/L	0.5354 mg/L	15:51:51
1	P 214.914†	10007.3	10827.7	5.715 mg/L	5.715 mg/L	15:52:02

1	Pb 220.353†	8787.3	9284.2	0.5459 mg/L	0.5459 mg/L	15:52:02
1	Sb 206.836†	1291.0	1346.1	0.5548 mg/L	0.5548 mg/L	15:52:02
1	Se 196.026†	1805.3	1928.1	1.072 mg/L	1.072 mg/L	15:52:02
1	Sn 189.927†	4039.6	4314.7	0.5373 mg/L	0.5373 mg/L	15:52:02
1	Sr 407.771†	106582.3	114584.5	0.0973 mg/L	0.0973 mg/L	15:51:39
1	Ti 337.279†	487952.5	527010.5	0.5430 mg/L	0.5430 mg/L	15:51:51
1	Tl 190.801†	614.0	668.7	0.4989 mg/L	0.4989 mg/L	15:52:02
1	V 292.402†	127343.2	138099.5	0.5504 mg/L	0.5504 mg/L	15:51:51
1	Zn 213.857†	111349.4	119096.7	0.7273 mg/L	0.7273 mg/L	15:51:51
2	Y 371.029	3227870.9	3227870.9	0.955 mg/L		15:52:05
2	Ag 328.068†	50693.5	52364.2	0.2522 mg/L	0.2522 mg/L	15:52:05
2	Al 237.313†	26467.2	28111.6	2.586 mg/L	2.586 mg/L	15:52:05
2	As 188.979†	803.1	840.2	0.5158 mg/L	0.5158 mg/L	15:52:16
2	B 249.677†	1234.1	1307.9	0.5371 mg/L	0.5371 mg/L	15:51:46
2	B 182.528†	635.8	673.0	0.5568 mg/L	0.5568 mg/L	15:52:16
2	Ba 233.527†	70405.0	73836.3	0.5603 mg/L	0.5603 mg/L	15:52:05
2	Be 313.107†	146738.9	155140.4	0.0548 mg/L	0.0548 mg/L	15:52:05
2	Ca 315.887†	970318.7	1017118.4	9.113 mg/L	9.113 mg/L	15:52:05
2	Cd 228.802†	9952.3	10277.5	0.2763 mg/L	0.2763 mg/L	15:52:16
2	Co 228.616†	31436.8	33107.7	0.5248 mg/L	0.5248 mg/L	15:52:16
2	Cr 267.716†	64597.1	66954.1	0.5102 mg/L	0.5102 mg/L	15:52:05
2	Cu 324.752†	153951.7	157306.4	0.6736 mg/L	0.6736 mg/L	15:52:05
2	Fe 234.349†	5177.6	5425.2	2.674 mg/L	2.674 mg/L	15:51:46
2	K 766.490†	61729.7	63916.3	27.44 mg/L	27.44 mg/L	15:51:44
2	Li 670.784†	21334.5	22620.3	0.5331 mg/L	0.5331 mg/L	15:51:46
2	Mg 279.077†	136353.0	142540.7	9.255 mg/L	9.255 mg/L	15:52:05
2	Mn 257.610†	476243.8	482807.0	0.5187 mg/L	0.5187 mg/L	15:52:05
2	Mn 294.920†	231679.2	243322.5	0.5188 mg/L	0.5188 mg/L	15:52:05
2	Mo 202.031†	13028.6	13657.8	0.5117 mg/L	0.5117 mg/L	15:52:16
2	Na 589.592†	328964.5	340361.0	45.69 mg/L	45.69 mg/L	15:51:44
2	Ni 231.604†	26411.7	27488.8	0.5118 mg/L	0.5118 mg/L	15:52:05
2	P 214.914†	9956.9	10475.8	5.531 mg/L	5.531 mg/L	15:52:16
2	Pb 220.353†	8657.6	8885.6	0.5226 mg/L	0.5226 mg/L	15:52:16
2	Sb 206.836†	1269.0	1284.5	0.5296 mg/L	0.5296 mg/L	15:52:16
2	Se 196.026†	1777.9	1845.5	1.026 mg/L	1.026 mg/L	15:52:16
2	Sn 189.927†	4004.1	4156.8	0.5177 mg/L	0.5177 mg/L	15:52:16
2	Sr 407.771†	105425.8	110186.9	0.0936 mg/L	0.0936 mg/L	15:51:44
2	Ti 337.279†	482083.7	506276.3	0.5217 mg/L	0.5217 mg/L	15:52:05
2	Tl 190.801†	608.8	644.8	0.4811 mg/L	0.4811 mg/L	15:52:16
2	V 292.402†	126028.3	132915.4	0.5299 mg/L	0.5299 mg/L	15:52:05
2	Zn 213.857†	110101.6	114461.1	0.6991 mg/L	0.6991 mg/L	15:52:05

Mean Data: CF31807-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3183090.1	0.941	mg/L	0.0187				1.99%
Ag 328.068†	53513.2	0.2577	mg/L	0.00780	0.2577	mg/L	0.00780	3.03%
Al 237.313†	28684.4	2.639	mg/L	0.0743	2.639	mg/L	0.0743	2.82%
As 188.979†	851.4	0.5226	mg/L	0.00964	0.5226	mg/L	0.00964	1.84%
B 249.677†	1341.5	0.5508	mg/L	0.01945	0.5508	mg/L	0.01945	3.53%
B 182.528†	684.4	0.5662	mg/L	0.01333	0.5662	mg/L	0.01333	2.35%
Ba 233.527†	75380.4	0.5721	mg/L	0.01655	0.5721	mg/L	0.01655	2.89%
Be 313.107†	158271.1	0.0559	mg/L	0.00156	0.0559	mg/L	0.00156	2.79%
Ca 315.887†	1038221.1	9.302	mg/L	0.2672	9.302	mg/L	0.2672	2.87%
Cd 228.802†	10454.2	0.2811	mg/L	0.00668	0.2811	mg/L	0.00668	2.38%
Co 228.616†	33672.0	0.5338	mg/L	0.01270	0.5338	mg/L	0.01270	2.38%
Cr 267.716†	68378.4	0.5210	mg/L	0.01533	0.5210	mg/L	0.01533	2.94%
Cu 324.752†	160773.8	0.6884	mg/L	0.02096	0.6884	mg/L	0.02096	3.04%
Fe 234.349†	5515.2	2.718	mg/L	0.0623	2.718	mg/L	0.0623	2.29%
K 766.490†	65270.7	28.02	mg/L	0.818	28.02	mg/L	0.818	2.92%
Li 670.784†	23055.4	0.5433	mg/L	0.01445	0.5433	mg/L	0.01445	2.66%
Mg 279.077†	145457.7	9.444	mg/L	0.2679	9.444	mg/L	0.2679	2.84%
Mn 257.610†	492994.7	0.5297	mg/L	0.01548	0.5297	mg/L	0.01548	2.92%
Mn 294.920†	248300.7	0.5295	mg/L	0.01502	0.5295	mg/L	0.01502	2.84%
Mo 202.031†	13921.4	0.5215	mg/L	0.01388	0.5215	mg/L	0.01388	2.66%
Na 589.592†	347295.4	46.62	mg/L	1.314	46.62	mg/L	1.314	2.82%
Ni 231.604†	28122.7	0.5236	mg/L	0.01670	0.5236	mg/L	0.01670	3.19%
P 214.914†	10651.8	5.623	mg/L	0.1302	5.623	mg/L	0.1302	2.31%
Pb 220.353†	9084.9	0.5343	mg/L	0.01650	0.5343	mg/L	0.01650	3.09%
Sb 206.836†	1315.3	0.5422	mg/L	0.01781	0.5422	mg/L	0.01781	3.29%
Se 196.026†	1886.8	1.049	mg/L	0.0323	1.049	mg/L	0.0323	3.08%
Sn 189.927†	4235.8	0.5275	mg/L	0.01388	0.5275	mg/L	0.01388	2.63%

Sr 407.771†	112385.7	0.0954 mg/L	0.00263	0.0954 mg/L	0.00263	2.76%
Ti 337.279†	516643.4	0.5324 mg/L	0.01503	0.5324 mg/L	0.01503	2.82%
Tl 190.801†	656.7	0.4900 mg/L	0.01260	0.4900 mg/L	0.01260	2.57%
V 292.402†	135507.4	0.5401 mg/L	0.01455	0.5401 mg/L	0.01455	2.69%
Zn 213.857†	116778.9	0.7132 mg/L	0.01999	0.7132 mg/L	0.01999	2.80%

Sequence No.: 28
Sample ID: CF31807-SD1 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/25/2013 3:53:54 PM
Data Type: Reprocessed on 6/26/2013 10:56:37 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF31807-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3199557.6	3199557.6	0.946	mg/L			15:56:01
1	Ag 328.068†	678.0	-20.3	0.0006	mg/L	0.0006	mg/L	15:56:04
1	Al 237.313†	-219.7	155.2	0.0213	mg/L	0.0213	mg/L	15:56:04
1	As 188.979†	-1.6	-2.7	0.0010	mg/L	0.0010	mg/L	15:56:14
1	B 249.677†	8.7	24.4	0.0125	mg/L	0.0125	mg/L	15:55:45
1	B 182.528†	6.0	13.3	0.0148	mg/L	0.0148	mg/L	15:56:14
1	Ba 233.527†	1206.5	1362.7	0.0109	mg/L	0.0109	mg/L	15:56:14
1	Be 313.107†	-1321.2	36.6	0.0002	mg/L	0.0002	mg/L	15:56:04
1	Ca 315.887†	101875.5	108376.0	0.9782	mg/L	0.9782	mg/L	15:56:01
1	Cd 228.802†	151.8	13.0	0.0018	mg/L	0.0018	mg/L	15:56:14
1	Co 228.616†	-141.1	28.8	-0.0016	mg/L	-0.0016	mg/L	15:56:14
1	Cr 267.716†	1193.9	550.9	0.0047	mg/L	0.0047	mg/L	15:56:04
1	Cu 324.752†	12714.9	9479.9	0.0418	mg/L	0.0418	mg/L	15:56:04
1	Fe 234.349†	119.3	127.7	0.0722	mg/L	0.0722	mg/L	15:55:45
1	K 766.490†	1385.6	719.2	0.4505	mg/L	0.4505	mg/L	15:55:35
1	Li 670.784†	-228.4	31.2	0.0026	mg/L	0.0026	mg/L	15:55:35
1	Mg 279.077†	14960.1	15521.4	1.006	mg/L	1.006	mg/L	15:56:04
1	Mn 257.610†	17538.7	2480.0	0.0026	mg/L	0.0026	mg/L	15:56:04
1	Mn 294.920†	93.4	739.3	0.0014	mg/L	0.0014	mg/L	15:56:04
1	Mo 202.031†	20.3	31.9	0.0037	mg/L	0.0037	mg/L	15:56:14
1	Na 589.592†	34259.6	31977.7	4.372	mg/L	4.372	mg/L	15:55:35
1	Ni 231.604†	429.5	276.7	0.0046	mg/L	0.0046	mg/L	15:56:04
1	P 214.914†	73.7	123.9	0.1131	mg/L	0.1131	mg/L	15:56:14
1	Pb 220.353†	164.9	-8.8	0.0014	mg/L	0.0014	mg/L	15:56:14
1	Sb 206.836†	33.5	-9.4	0.0005	mg/L	0.0005	mg/L	15:56:14
1	Se 196.026†	12.8	-3.4	0.0026	mg/L	0.0026	mg/L	15:56:14
1	Sn 189.927†	26.8	-9.1	0.0011	mg/L	0.0011	mg/L	15:56:14
1	Sr 407.771†	10636.4	10994.5	0.0096	mg/L	0.0096	mg/L	15:55:35
1	Ti 337.279†	-1143.9	89.1	0.0029	mg/L	0.0029	mg/L	15:56:04
1	Tl 190.801†	-3.2	3.7	0.0023	mg/L	0.0023	mg/L	15:56:14
1	V 292.402†	-985.5	-139.6	0.0018	mg/L	0.0018	mg/L	15:56:04
1	Zn 213.857†	8134.2	7726.5	0.0479	mg/L	0.0479	mg/L	15:56:04
2	Y 371.029	3227149.4	3227149.4	0.954	mg/L			15:56:16
2	Ag 328.068†	622.1	-85.0	0.0002	mg/L	0.0002	mg/L	15:56:19
2	Al 237.313†	-233.3	143.0	0.0202	mg/L	0.0202	mg/L	15:56:19
2	As 188.979†	5.0	4.2	0.0052	mg/L	0.0052	mg/L	15:56:29
2	B 249.677†	-1.9	13.2	0.0079	mg/L	0.0079	mg/L	15:55:58
2	B 182.528†	5.7	13.0	0.0145	mg/L	0.0145	mg/L	15:56:29
2	Ba 233.527†	1208.6	1354.1	0.0109	mg/L	0.0109	mg/L	15:56:29
2	Be 313.107†	-1225.7	148.5	0.0003	mg/L	0.0003	mg/L	15:56:19
2	Ca 315.887†	102446.3	108053.6	0.9754	mg/L	0.9754	mg/L	15:56:16
2	Cd 228.802†	146.5	6.1	0.0017	mg/L	0.0017	mg/L	15:56:29
2	Co 228.616†	-152.0	18.7	-0.0018	mg/L	-0.0018	mg/L	15:56:29
2	Cr 267.716†	1153.0	497.2	0.0043	mg/L	0.0043	mg/L	15:56:19
2	Cu 324.752†	12816.0	9471.0	0.0418	mg/L	0.0418	mg/L	15:56:19
2	Fe 234.349†	104.6	111.3	0.0640	mg/L	0.0640	mg/L	15:55:58
2	K 766.490†	1402.8	724.6	0.4529	mg/L	0.4529	mg/L	15:55:48
2	Li 670.784†	-230.5	31.1	0.0026	mg/L	0.0026	mg/L	15:55:48
2	Mg 279.077†	15053.7	15484.3	1.003	mg/L	1.003	mg/L	15:56:19
2	Mn 257.610†	17572.4	2356.8	0.0025	mg/L	0.0025	mg/L	15:56:19
2	Mn 294.920†	80.0	724.5	0.0014	mg/L	0.0014	mg/L	15:56:19
2	Mo 202.031†	15.9	27.1	0.0036	mg/L	0.0036	mg/L	15:56:29
2	Na 589.592†	34414.4	31830.4	4.352	mg/L	4.352	mg/L	15:55:48
2	Ni 231.604†	392.1	233.6	0.0038	mg/L	0.0038	mg/L	15:56:19
2	P 214.914†	82.3	132.3	0.1175	mg/L	0.1175	mg/L	15:56:29

2	Pb 220.353†	168.2	-6.9	0.0015 mg/L	0.0015 mg/L	15:56:29
2	Sb 206.836†	34.5	-8.6	0.0008 mg/L	0.0008 mg/L	15:56:29
2	Se 196.026†	19.6	3.7	0.0065 mg/L	0.0065 mg/L	15:56:29
2	Sn 189.927†	39.3	3.7	0.0026 mg/L	0.0026 mg/L	15:56:29
2	Sr 407.771†	10746.2	11013.4	0.0096 mg/L	0.0096 mg/L	15:55:48
2	Ti 337.279†	-1241.4	-2.7	0.0028 mg/L	0.0028 mg/L	15:56:19
2	Tl 190.801†	-8.1	-1.4	-0.0016 mg/L	-0.0016 mg/L	15:56:29
2	V 292.402†	-821.8	40.8	0.0025 mg/L	0.0025 mg/L	15:56:19
2	Zn 213.857†	8135.2	7654.0	0.0474 mg/L	0.0474 mg/L	15:56:19

Mean Data: CF31807-SD1 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3213353.5	0.950 mg/L		0.0058			0.61%
Ag 328.068†	-52.6	0.0004 mg/L		0.00022	0.0004 mg/L	0.00022	55.00%
Al 237.313†	149.1	0.0208 mg/L		0.00079	0.0208 mg/L	0.00079	3.82%
As 188.979†	0.7	0.0031 mg/L		0.00300	0.0031 mg/L	0.00300	96.94%
B 249.677†	18.8	0.0102 mg/L		0.00323	0.0102 mg/L	0.00323	31.72%
B 182.528†	13.1	0.0147 mg/L		0.00017	0.0147 mg/L	0.00017	1.19%
Ba 233.527†	1358.4	0.0109 mg/L		0.00005	0.0109 mg/L	0.00005	0.43%
Be 313.107†	92.6	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	11.30%
Ca 315.887†	108214.8	0.9768 mg/L		0.00204	0.9768 mg/L	0.00204	0.21%
Cd 228.802†	9.5	0.0018 mg/L		0.00013	0.0018 mg/L	0.00013	7.43%
Co 228.616†	23.8	-0.0017 mg/L		0.00011	-0.0017 mg/L	0.00011	6.73%
Cr 267.716†	524.0	0.0045 mg/L		0.00029	0.0045 mg/L	0.00029	6.42%
Cu 324.752†	9475.5	0.0418 mg/L		0.00003	0.0418 mg/L	0.00003	0.06%
Fe 234.349†	119.5	0.0681 mg/L		0.00576	0.0681 mg/L	0.00576	8.46%
K 766.490†	721.9	0.4517 mg/L		0.00165	0.4517 mg/L	0.00165	0.36%
Li 670.784†	31.2	0.0026 mg/L		0.00000	0.0026 mg/L	0.00000	0.08%
Mg 279.077†	15502.8	1.005 mg/L		0.0017	1.005 mg/L	0.0017	0.17%
Mn 257.610†	2418.4	0.0025 mg/L		0.00009	0.0025 mg/L	0.00009	3.66%
Mn 294.920†	731.9	0.0014 mg/L		0.00002	0.0014 mg/L	0.00002	1.61%
Mo 202.031†	29.5	0.0036 mg/L		0.00013	0.0036 mg/L	0.00013	3.43%
Na 589.592†	31904.1	4.362 mg/L		0.0140	4.362 mg/L	0.0140	0.32%
Ni 231.604†	255.2	0.0042 mg/L		0.00057	0.0042 mg/L	0.00057	13.43%
P 214.914†	128.1	0.1153 mg/L		0.00311	0.1153 mg/L	0.00311	2.70%
Pb 220.353†	-7.9	0.0014 mg/L		0.00008	0.0014 mg/L	0.00008	5.43%
Sb 206.836†	-9.0	0.0006 mg/L		0.00022	0.0006 mg/L	0.00022	34.72%
Se 196.026†	0.2	0.0045 mg/L		0.00277	0.0045 mg/L	0.00277	61.10%
Sn 189.927†	-2.7	0.0018 mg/L		0.00111	0.0018 mg/L	0.00111	60.29%
Sr 407.771†	11004.0	0.0096 mg/L		0.00001	0.0096 mg/L	0.00001	0.12%
Ti 337.279†	43.2	0.0028 mg/L		0.00007	0.0028 mg/L	0.00007	2.35%
Tl 190.801†	1.2	0.0004 mg/L		0.00270	0.0004 mg/L	0.00270	757.44%
V 292.402†	-49.4	0.0022 mg/L		0.00050	0.0022 mg/L	0.00050	23.04%
Zn 213.857†	7690.3	0.0476 mg/L		0.00031	0.0476 mg/L	0.00031	0.65%

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Sequence No.: 29	Autosampler Location: 18
Sample ID: CF31807-PDS1	Date Collected: 6/25/2013 3:58:08 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:56:38 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CF31807-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	8256711.2	8256711.2	2.44 mg/L		16:00:14
1	Ag 328.068†	630.0	-478.8	-0.0016 mg/L	-0.0016 mg/L	16:00:17
1	Al 237.313†	-430.2	211.3	0.0265 mg/L	0.0265 mg/L	16:00:27
1	As 188.979†	2.4	-0.1	0.0026 mg/L	0.0026 mg/L	16:00:27
1	B 249.677†	-14.2	9.4	0.0063 mg/L	0.0063 mg/L	15:59:58
1	B 182.528†	-3.9	5.4	0.0083 mg/L	0.0083 mg/L	16:00:27
1	Ba 233.527†	-68.9	59.5	0.0010 mg/L	0.0010 mg/L	16:00:27
1	Be 313.107†	-968.8	1036.0	0.0006 mg/L	0.0006 mg/L	16:00:17
1	Ca 315.887†	248.6	819.8	0.0156 mg/L	0.0156 mg/L	16:00:17
1	Cd 228.802†	146.9	-87.3	-0.0008 mg/L	-0.0008 mg/L	16:00:27
1	Co 228.616†	-182.7	103.1	-0.0004 mg/L	-0.0004 mg/L	16:00:27
1	Cr 267.716†	383.3	-553.9	-0.0037 mg/L	-0.0037 mg/L	16:00:17
1	Cu 324.752†	3064.3	-2701.8	-0.0102 mg/L	-0.0102 mg/L	16:00:17
1	Fe 234.349†	5.2	3.8	0.0125 mg/L	0.0125 mg/L	15:59:58

1	K 766.490†	582.5	-506.6	-0.0729 mg/L	-0.0729 mg/L	15:59:48
1	Li 670.784†	-295.0	151.8	0.0055 mg/L	0.0055 mg/L	15:59:48
1	Mg 279.077†	217.0	-199.0	-0.0149 mg/L	-0.0149 mg/L	16:00:17
1	Mn 257.610†	13837.9	-10387.5	-0.0112 mg/L	-0.0112 mg/L	16:00:27
1	Mn 294.920†	-714.0	348.2	0.0006 mg/L	0.0006 mg/L	16:00:17
1	Mo 202.031†	-5.5	8.2	0.0031 mg/L	0.0031 mg/L	16:00:27
1	Na 589.592†	2407.8	-3240.5	-0.3470 mg/L	-0.3470 mg/L	15:59:48
1	Ni 231.604†	187.3	-100.5	-0.0024 mg/L	-0.0024 mg/L	16:00:27
1	P 214.914†	-64.6	19.6	0.0589 mg/L	0.0589 mg/L	16:00:27
1	Pb 220.353†	169.1	-113.9	-0.0047 mg/L	-0.0047 mg/L	16:00:27
1	Sb 206.836†	28.7	-33.1	-0.0091 mg/L	-0.0091 mg/L	16:00:27
1	Se 196.026†	11.0	-12.4	-0.0024 mg/L	-0.0024 mg/L	16:00:27
1	Sn 189.927†	44.0	-19.5	-0.0008 mg/L	-0.0008 mg/L	16:00:27
1	Sr 407.771†	177.3	-173.0	0.0002 mg/L	0.0002 mg/L	15:59:48
1	Ti 337.279†	-1147.1	828.2	0.0036 mg/L	0.0036 mg/L	16:00:17
1	Tl 190.801†	-5.3	5.0	0.0034 mg/L	0.0034 mg/L	16:00:27
1	V 292.402†	-880.8	541.2	0.0044 mg/L	0.0044 mg/L	16:00:17
1	Zn 213.857†	1034.3	-445.8	-0.0022 mg/L	-0.0022 mg/L	16:00:27
2	Y 371.029	8497542.2	8497542.2	2.51 mg/L		16:00:29
2	Ag 328.068†	604.0	-496.5	-0.0017 mg/L	-0.0017 mg/L	16:00:32
2	Al 237.313†	-448.8	208.9	0.0262 mg/L	0.0262 mg/L	16:00:42
2	As 188.979†	2.7	0.0	0.0026 mg/L	0.0026 mg/L	16:00:42
2	B 249.677†	-24.1	5.6	0.0048 mg/L	0.0048 mg/L	16:00:11
2	B 182.528†	-5.3	4.9	0.0079 mg/L	0.0079 mg/L	16:00:42
2	Ba 233.527†	-62.9	62.7	0.0011 mg/L	0.0011 mg/L	16:00:42
2	Be 313.107†	-910.0	1070.7	0.0006 mg/L	0.0006 mg/L	16:00:32
2	Ca 315.887†	123.3	767.0	0.0152 mg/L	0.0152 mg/L	16:00:32
2	Cd 228.802†	146.4	-89.2	-0.0009 mg/L	-0.0009 mg/L	16:00:42
2	Co 228.616†	-186.1	103.9	-0.0004 mg/L	-0.0004 mg/L	16:00:42
2	Cr 267.716†	394.1	-554.0	-0.0037 mg/L	-0.0037 mg/L	16:00:32
2	Cu 324.752†	3017.0	-2756.2	-0.0105 mg/L	-0.0105 mg/L	16:00:32
2	Fe 234.349†	15.0	7.6	0.0144 mg/L	0.0144 mg/L	16:00:11
2	K 766.490†	608.3	-503.1	-0.0714 mg/L	-0.0714 mg/L	16:00:00
2	Li 670.784†	-415.8	107.1	0.0044 mg/L	0.0044 mg/L	16:00:00
2	Mg 279.077†	321.6	-159.9	-0.0124 mg/L	-0.0124 mg/L	16:00:32
2	Mn 257.610†	13827.4	-10552.3	-0.0114 mg/L	-0.0114 mg/L	16:00:42
2	Mn 294.920†	-631.3	389.4	0.0007 mg/L	0.0007 mg/L	16:00:32
2	Mo 202.031†	0.6	10.7	0.0032 mg/L	0.0032 mg/L	16:00:42
2	Na 589.592†	2358.5	-3288.0	-0.3534 mg/L	-0.3534 mg/L	16:00:00
2	Ni 231.604†	187.6	-102.5	-0.0024 mg/L	-0.0024 mg/L	16:00:42
2	P 214.914†	-75.2	16.1	0.0571 mg/L	0.0571 mg/L	16:00:42
2	Pb 220.353†	150.8	-123.1	-0.0053 mg/L	-0.0053 mg/L	16:00:42
2	Sb 206.836†	36.1	-30.5	-0.0081 mg/L	-0.0081 mg/L	16:00:42
2	Se 196.026†	12.9	-11.7	-0.0021 mg/L	-0.0021 mg/L	16:00:42
2	Sn 189.927†	30.1	-25.5	-0.0015 mg/L	-0.0015 mg/L	16:00:42
2	Sr 407.771†	245.9	-147.8	0.0002 mg/L	0.0002 mg/L	16:00:00
2	Ti 337.279†	-970.5	911.7	0.0037 mg/L	0.0037 mg/L	16:00:32
2	Tl 190.801†	-9.6	3.3	0.0021 mg/L	0.0021 mg/L	16:00:42
2	V 292.402†	-731.7	610.7	0.0047 mg/L	0.0047 mg/L	16:00:32
2	Zn 213.857†	1029.5	-459.8	-0.0023 mg/L	-0.0023 mg/L	16:00:42

Mean Data: CF31807-PDS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	8377126.7	2.48 mg/L	0.050			2.03%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 247.8%						
Ag 328.068†	-487.6	-0.0017 mg/L	0.00006	-0.0017 mg/L	0.00006	3.54%
Al 237.313†	210.1	0.0263 mg/L	0.00016	0.0263 mg/L	0.00016	0.59%
As 188.979†	-0.0	0.0026 mg/L	0.00004	0.0026 mg/L	0.00004	1.38%
B 249.677†	7.5	0.0056 mg/L	0.00109	0.0056 mg/L	0.00109	19.56%
B 182.528†	5.1	0.0081 mg/L	0.00029	0.0081 mg/L	0.00029	3.56%
Ba 233.527†	61.1	0.0011 mg/L	0.00002	0.0011 mg/L	0.00002	1.61%
Be 313.107†	1053.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.48%
Ca 315.887†	793.4	0.0154 mg/L	0.00033	0.0154 mg/L	0.00033	2.16%
Cd 228.802†	-88.2	-0.0009 mg/L	0.00004	-0.0009 mg/L	0.00004	4.26%
Co 228.616†	103.5	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	2.09%
Cr 267.716†	-553.9	-0.0037 mg/L	0.00000	-0.0037 mg/L	0.00000	0.02%
Cu 324.752†	-2729.0	-0.0103 mg/L	0.00016	-0.0103 mg/L	0.00016	1.59%
Fe 234.349†	5.7	0.0134 mg/L	0.00135	0.0134 mg/L	0.00135	10.06%
K 766.490†	-504.8	-0.0721 mg/L	0.00106	-0.0721 mg/L	0.00106	1.46%
Li 670.784†	129.5	0.0049 mg/L	0.00074	0.0049 mg/L	0.00074	15.02%
Mg 279.077†	-179.4	-0.0137 mg/L	0.00180	-0.0137 mg/L	0.00180	13.13%

Mn 257.610†	-10469.9	-0.0113 mg/L	0.00013	-0.0113 mg/L	0.00013	1.11%
Mn 294.920†	368.8	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.11%
Mo 202.031†	9.4	0.0032 mg/L	0.00007	0.0032 mg/L	0.00007	2.11%
Na 589.592†	-3264.2	-0.3502 mg/L	0.00451	-0.3502 mg/L	0.00451	1.29%
Ni 231.604†	-101.5	-0.0024 mg/L	0.00003	-0.0024 mg/L	0.00003	1.11%
P 214.914†	17.9	0.0580 mg/L	0.00128	0.0580 mg/L	0.00128	2.20%
Pb 220.353†	-118.5	-0.0050 mg/L	0.00038	-0.0050 mg/L	0.00038	7.65%
Sb 206.836†	-31.8	-0.0086 mg/L	0.00075	-0.0086 mg/L	0.00075	8.76%
Se 196.026†	-12.1	-0.0022 mg/L	0.00024	-0.0022 mg/L	0.00024	10.74%
Sn 189.927†	-22.5	-0.0012 mg/L	0.00052	-0.0012 mg/L	0.00052	44.67%
Sr 407.771†	-160.4	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	9.27%
Ti 337.279†	870.0	0.0037 mg/L	0.00006	0.0037 mg/L	0.00006	1.65%
Tl 190.801†	4.1	0.0027 mg/L	0.00090	0.0027 mg/L	0.00090	32.76%
V 292.402†	575.9	0.0046 mg/L	0.00019	0.0046 mg/L	0.00019	4.22%
Zn 213.857†	-452.8	-0.0023 mg/L	0.00006	-0.0023 mg/L	0.00006	2.65%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 30
Sample ID: 1306283-03
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/25/2013 4:02:26 PM
Data Type: Reprocessed on 6/26/2013 10:56:38 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306283-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3159005.5	3159005.5	0.934 mg/L		16:04:34
1	Ag 328.068†	649.7	-41.4	0.0005 mg/L	0.0005 mg/L	16:04:36
1	Al 237.313†	0.1	387.6	0.0427 mg/L	0.0427 mg/L	16:04:46
1	As 188.979†	0.8	-0.1	0.0026 mg/L	0.0026 mg/L	16:04:46
1	B 249.677†	36.0	53.8	0.0245 mg/L	0.0245 mg/L	16:04:17
1	B 182.528†	19.6	28.0	0.0269 mg/L	0.0269 mg/L	16:04:46
1	Ba 233.527†	5513.8	5989.3	0.0460 mg/L	0.0460 mg/L	16:04:46
1	Be 313.107†	-1323.8	15.9	0.0002 mg/L	0.0002 mg/L	16:04:36
1	Ca 315.887†	469596.4	503339.3	4.513 mg/L	4.513 mg/L	16:04:34
1	Cd 228.802†	140.8	3.2	0.0016 mg/L	0.0016 mg/L	16:04:46
1	Co 228.616†	-149.2	18.2	-0.0018 mg/L	-0.0018 mg/L	16:04:46
1	Cr 267.716†	1532.0	928.9	0.0076 mg/L	0.0076 mg/L	16:04:36
1	Cu 324.752†	43706.0	42823.0	0.1842 mg/L	0.1842 mg/L	16:04:36
1	Fe 234.349†	213.7	230.4	0.1171 mg/L	0.1171 mg/L	16:04:17
1	K 766.490†	3594.6	3102.3	1.468 mg/L	1.468 mg/L	16:04:07
1	Li 670.784†	-294.3	-42.4	0.0009 mg/L	0.0009 mg/L	16:04:07
1	Mg 279.077†	67621.9	72089.7	4.679 mg/L	4.679 mg/L	16:04:36
1	Mn 257.610†	19990.0	5341.6	0.0057 mg/L	0.0057 mg/L	16:04:46
1	Mn 294.920†	881.0	1583.6	0.0032 mg/L	0.0032 mg/L	16:04:36
1	Mo 202.031†	20.9	32.8	0.0030 mg/L	0.0030 mg/L	16:04:46
1	Na 589.592†	148827.8	155067.9	20.86 mg/L	20.86 mg/L	16:04:07
1	Ni 231.604†	669.8	539.8	0.0095 mg/L	0.0095 mg/L	16:04:46
1	P 214.914†	540.8	624.8	0.3742 mg/L	0.3742 mg/L	16:04:46
1	Pb 220.353†	162.4	-9.3	0.0013 mg/L	0.0013 mg/L	16:04:46
1	Sb 206.836†	35.5	-6.8	0.0015 mg/L	0.0015 mg/L	16:04:46
1	Se 196.026†	17.7	2.0	0.0056 mg/L	0.0056 mg/L	16:04:46
1	Sn 189.927†	-46.2	-86.9	-0.0063 mg/L	-0.0063 mg/L	16:04:46
1	Sr 407.771†	49739.1	52991.4	0.0452 mg/L	0.0452 mg/L	16:04:07
1	Ti 337.279†	-1114.9	104.5	0.0029 mg/L	0.0029 mg/L	16:04:36
1	Tl 190.801†	-6.8	-0.2	-0.0013 mg/L	-0.0013 mg/L	16:04:46
1	V 292.402†	-986.1	-153.6	0.0017 mg/L	0.0017 mg/L	16:04:36
1	Zn 213.857†	32115.1	33504.2	0.2060 mg/L	0.2060 mg/L	16:04:36
2	Y 371.029	3140934.8	3140934.8	0.929 mg/L		16:04:49
2	Ag 328.068†	719.9	38.2	0.0008 mg/L	0.0008 mg/L	16:04:51
2	Al 237.313†	-29.7	355.5	0.0397 mg/L	0.0397 mg/L	16:05:01
2	As 188.979†	0.5	-0.5	0.0023 mg/L	0.0023 mg/L	16:05:01
2	B 249.677†	36.8	54.8	0.0249 mg/L	0.0249 mg/L	16:04:30
2	B 182.528†	24.2	33.0	0.0310 mg/L	0.0310 mg/L	16:05:01
2	Ba 233.527†	5487.1	5994.6	0.0460 mg/L	0.0460 mg/L	16:05:01
2	Be 313.107†	-1335.3	-4.7	0.0002 mg/L	0.0002 mg/L	16:04:51
2	Ca 315.887†	467907.6	504413.1	4.523 mg/L	4.523 mg/L	16:04:49
2	Cd 228.802†	143.9	7.5	0.0017 mg/L	0.0017 mg/L	16:05:01
2	Co 228.616†	-134.9	32.7	-0.0016 mg/L	-0.0016 mg/L	16:05:01
2	Cr 267.716†	1437.0	836.1	0.0069 mg/L	0.0069 mg/L	16:04:51

2	Cu 324.752†	43916.4	43318.6	0.1864 mg/L	0.1864 mg/L	16:04:51
2	Fe 234.349†	216.2	234.5	0.1191 mg/L	0.1191 mg/L	16:04:30
2	K 766.490†	3565.7	3093.3	1.464 mg/L	1.464 mg/L	16:04:20
2	Li 670.784†	-254.9	-1.8	0.0019 mg/L	0.0019 mg/L	16:04:20
2	Mg 279.077†	68038.7	72954.7	4.735 mg/L	4.735 mg/L	16:04:51
2	Mn 257.610†	19955.1	5427.1	0.0057 mg/L	0.0057 mg/L	16:05:01
2	Mn 294.920†	928.2	1639.8	0.0033 mg/L	0.0033 mg/L	16:04:51
2	Mo 202.031†	67.4	83.0	0.0048 mg/L	0.0048 mg/L	16:05:01
2	Na 589.592†	146931.9	153943.4	20.71 mg/L	20.71 mg/L	16:04:20
2	Ni 231.604†	659.3	532.6	0.0094 mg/L	0.0094 mg/L	16:05:01
2	P 214.914†	538.7	625.9	0.3747 mg/L	0.3747 mg/L	16:05:01
2	Pb 220.353†	148.3	-23.4	0.0005 mg/L	0.0005 mg/L	16:05:01
2	Sb 206.836†	34.7	-7.5	0.0012 mg/L	0.0012 mg/L	16:05:01
2	Se 196.026†	22.3	7.1	0.0084 mg/L	0.0084 mg/L	16:05:01
2	Sn 189.927†	-59.2	-101.2	-0.0081 mg/L	-0.0081 mg/L	16:05:01
2	Sr 407.771†	48963.8	52463.2	0.0447 mg/L	0.0447 mg/L	16:04:20
2	Ti 337.279†	-1164.5	44.4	0.0028 mg/L	0.0028 mg/L	16:04:51
2	Tl 190.801†	1.3	8.5	0.0053 mg/L	0.0053 mg/L	16:05:01
2	V 292.402†	-876.2	-41.4	0.0021 mg/L	0.0021 mg/L	16:04:51
2	Zn 213.857†	32151.8	33741.4	0.2074 mg/L	0.2074 mg/L	16:04:51

Mean Data: 1306283-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3149970.1	0.932	mg/L	0.0038			0.41%
Ag 328.068†	-1.6	0.0006	mg/L	0.00027	0.0006 mg/L	0.00027	41.83%
Al 237.313†	371.5	0.0412	mg/L	0.00208	0.0412 mg/L	0.00208	5.05%
As 188.979†	-0.3	0.0024	mg/L	0.00015	0.0024 mg/L	0.00015	5.98%
B 249.677†	54.3	0.0247	mg/L	0.00029	0.0247 mg/L	0.00029	1.19%
B 182.528†	30.5	0.0289	mg/L	0.00293	0.0289 mg/L	0.00293	10.12%
Ba 233.527†	5991.9	0.0460	mg/L	0.00003	0.0460 mg/L	0.00003	0.06%
Be 313.107†	5.6	0.0002	mg/L	0.00001	0.0002 mg/L	0.00001	2.40%
Ca 315.887†	503876.2	4.518	mg/L	0.0068	4.518 mg/L	0.0068	0.15%
Cd 228.802†	5.4	0.0016	mg/L	0.00008	0.0016 mg/L	0.00008	4.90%
Co 228.616†	25.4	-0.0017	mg/L	0.00016	-0.0017 mg/L	0.00016	9.85%
Cr 267.716†	882.5	0.0072	mg/L	0.00050	0.0072 mg/L	0.00050	6.90%
Cu 324.752†	43070.8	0.1853	mg/L	0.00150	0.1853 mg/L	0.00150	0.81%
Fe 234.349†	232.4	0.1181	mg/L	0.00142	0.1181 mg/L	0.00142	1.20%
K 766.490†	3097.8	1.466	mg/L	0.0027	1.466 mg/L	0.0027	0.18%
Li 670.784†	-22.1	0.0014	mg/L	0.00067	0.0014 mg/L	0.00067	48.93%
Mg 279.077†	72522.2	4.707	mg/L	0.0397	4.707 mg/L	0.0397	0.84%
Mn 257.610†	5384.3	0.0057	mg/L	0.00006	0.0057 mg/L	0.00006	1.14%
Mn 294.920†	1611.7	0.0033	mg/L	0.00008	0.0033 mg/L	0.00008	2.60%
Mo 202.031†	57.9	0.0039	mg/L	0.00133	0.0039 mg/L	0.00133	33.98%
Na 589.592†	154505.6	20.79	mg/L	0.107	20.79 mg/L	0.107	0.51%
Ni 231.604†	536.2	0.0095	mg/L	0.00009	0.0095 mg/L	0.00009	0.99%
P 214.914†	625.4	0.3745	mg/L	0.00038	0.3745 mg/L	0.00038	0.10%
Pb 220.353†	-16.4	0.0009	mg/L	0.00058	0.0009 mg/L	0.00058	66.47%
Sb 206.836†	-7.1	0.0014	mg/L	0.00017	0.0014 mg/L	0.00017	12.56%
Se 196.026†	4.6	0.0070	mg/L	0.00199	0.0070 mg/L	0.00199	28.46%
Sn 189.927†	-94.1	-0.0072	mg/L	0.00124	-0.0072 mg/L	0.00124	17.26%
Sr 407.771†	52727.3	0.0449	mg/L	0.00032	0.0449 mg/L	0.00032	0.70%
Ti 337.279†	74.5	0.0029	mg/L	0.00004	0.0029 mg/L	0.00004	1.52%
Tl 190.801†	4.1	0.0020	mg/L	0.00464	0.0020 mg/L	0.00464	228.60%
V 292.402†	-97.5	0.0019	mg/L	0.00033	0.0019 mg/L	0.00033	17.18%
Zn 213.857†	33622.8	0.2067	mg/L	0.00103	0.2067 mg/L	0.00103	0.50%

Sequence No.: 31

Sample ID: 1306283-04

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 6/25/2013 4:13:38 PM

Data Type: Reprocessed on 6/26/2013 10:56:39 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306283-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3099567.6	3099567.6	0.917 mg/L		16:15:49
1	Ag 328.068†	611.6	-69.6	0.0007 mg/L	0.0007 mg/L	16:15:52
1	Al 237.313†	7144.1	8180.5	0.7571 mg/L	0.7571 mg/L	16:15:52

1	As	188.979†	6.3	5.8	0.0062	mg/L	0.0062	mg/L	16:16:02
1	B	249.677†	392.4	443.3	0.1835	mg/L	0.1835	mg/L	16:15:30
1	B	182.528†	194.5	219.2	0.1839	mg/L	0.1839	mg/L	16:16:02
1	Ba	233.527†	6154.2	6801.1	0.0522	mg/L	0.0522	mg/L	16:16:02
1	Be	313.107†	-1295.8	19.2	0.0002	mg/L	0.0002	mg/L	16:15:52
1	Ca	315.887†	8031760.1	8762172.2	78.43	mg/L	78.43	mg/L	16:15:47
1	Cd	228.802†	164.7	32.2	0.0021	mg/L	0.0021	mg/L	16:16:02
1	Co	228.616†	214.6	412.0	0.0044	mg/L	0.0044	mg/L	16:16:02
1	Cr	267.716†	2047.5	1522.6	0.0121	mg/L	0.0121	mg/L	16:15:52
1	Cu	324.752†	10031.9	6986.7	0.0312	mg/L	0.0312	mg/L	16:15:52
1	Fe	234.349†	25517.2	27837.1	13.66	mg/L	13.66	mg/L	16:15:30
1	K	766.490†	80704.5	87291.5	37.42	mg/L	37.42	mg/L	16:15:20
1	Li	670.784†	461.0	775.5	0.0201	mg/L	0.0201	mg/L	16:15:20
1	Mg	279.077†	106818.0	116234.7	7.547	mg/L	7.547	mg/L	16:15:52
1	Mn	257.610†	711345.3	759917.6	0.8143	mg/L	0.8143	mg/L	16:15:49
1	Mn	294.920†	350011.2	382450.7	0.8156	mg/L	0.8156	mg/L	16:15:52
1	Mo	202.031†	329.0	369.4	0.0144	mg/L	0.0144	mg/L	16:16:02
1	Na	589.592†	475041.4	513973.0	68.95	mg/L	68.95	mg/L	16:15:20
1	Ni	231.604†	1052.4	970.9	0.0176	mg/L	0.0176	mg/L	16:16:02
1	P	214.914†	9346.4	10241.6	5.418	mg/L	5.418	mg/L	16:15:52
1	Pb	220.353†	255.9	96.1	0.0074	mg/L	0.0074	mg/L	16:16:02
1	Sb	206.836†	42.1	1.1	-0.0010	mg/L	-0.0010	mg/L	16:16:02
1	Se	196.026†	-10.0	-27.8	-0.0101	mg/L	-0.0101	mg/L	16:16:02
1	Sn	189.927†	-554.9	-642.8	-0.0289	mg/L	-0.0289	mg/L	16:16:02
1	Sr	407.771†	381922.4	416374.9	0.3528	mg/L	0.3528	mg/L	16:15:20
1	Ti	337.279†	37695.7	42418.3	0.0463	mg/L	0.0463	mg/L	16:15:52
1	Tl	190.801†	21.2	30.2	0.0043	mg/L	0.0043	mg/L	16:16:02
1	V	292.402†	316.0	1246.5	0.0064	mg/L	0.0064	mg/L	16:15:52
1	Zn	213.857†	249105.4	270867.5	1.664	mg/L	1.664	mg/L	16:15:52
2	Y	371.029	3054784.2	3054784.2	0.903	mg/L			16:16:07
2	Ag	328.068†	543.0	-135.8	0.0003	mg/L	0.0003	mg/L	16:16:09
2	Al	237.313†	7216.4	8374.8	0.7749	mg/L	0.7749	mg/L	16:16:09
2	As	188.979†	18.1	19.0	0.0143	mg/L	0.0143	mg/L	16:16:20
2	B	249.677†	388.3	445.0	0.1842	mg/L	0.1842	mg/L	16:15:42
2	B	182.528†	193.6	221.2	0.1857	mg/L	0.1857	mg/L	16:16:20
2	Ba	233.527†	6159.0	6904.8	0.0529	mg/L	0.0529	mg/L	16:16:20
2	Be	313.107†	-1373.5	-87.5	0.0002	mg/L	0.0002	mg/L	16:16:09
2	Ca	315.887†	8049140.6	8909853.4	79.75	mg/L	79.75	mg/L	16:16:05
2	Cd	228.802†	162.6	32.6	0.0021	mg/L	0.0021	mg/L	16:16:20
2	Co	228.616†	207.2	407.2	0.0043	mg/L	0.0043	mg/L	16:16:20
2	Cr	267.716†	2099.1	1612.6	0.0128	mg/L	0.0128	mg/L	16:16:09
2	Cu	324.752†	9958.8	7066.1	0.0315	mg/L	0.0315	mg/L	16:16:09
2	Fe	234.349†	25520.5	28248.9	13.87	mg/L	13.87	mg/L	16:15:42
2	K	766.490†	80797.4	88684.9	38.01	mg/L	38.01	mg/L	16:15:32
2	Li	670.784†	272.7	574.4	0.0154	mg/L	0.0154	mg/L	16:15:32
2	Mg	279.077†	108103.8	119366.0	7.750	mg/L	7.750	mg/L	16:16:09
2	Mn	257.610†	698418.6	756985.5	0.8111	mg/L	0.8111	mg/L	16:16:07
2	Mn	294.920†	353559.0	391974.9	0.8359	mg/L	0.8359	mg/L	16:16:09
2	Mo	202.031†	298.7	341.1	0.0133	mg/L	0.0133	mg/L	16:16:20
2	Na	589.592†	476133.3	522778.4	70.13	mg/L	70.13	mg/L	16:15:32
2	Ni	231.604†	1093.0	1032.7	0.0187	mg/L	0.0187	mg/L	16:16:20
2	P	214.914†	9503.9	10565.3	5.587	mg/L	5.587	mg/L	16:16:09
2	Pb	220.353†	302.4	151.6	0.0106	mg/L	0.0106	mg/L	16:16:20
2	Sb	206.836†	55.9	17.0	0.0054	mg/L	0.0054	mg/L	16:16:20
2	Se	196.026†	-5.0	-22.4	-0.0071	mg/L	-0.0071	mg/L	16:16:20
2	Sn	189.927†	-547.8	-643.8	-0.0282	mg/L	-0.0282	mg/L	16:16:20
2	Sr	407.771†	381912.9	422472.0	0.3579	mg/L	0.3579	mg/L	16:15:32
2	Ti	337.279†	39764.0	45310.4	0.0492	mg/L	0.0492	mg/L	16:16:09
2	Tl	190.801†	8.1	16.1	-0.0067	mg/L	-0.0067	mg/L	16:16:20
2	V	292.402†	426.9	1374.3	0.0069	mg/L	0.0069	mg/L	16:16:09
2	Zn	213.857†	251862.8	277903.1	1.707	mg/L	1.707	mg/L	16:16:09

Mean Data: 1306283-04

Analyte	Mean Corrected Intensity	Conc.	Units	Calib	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3077175.9	0.910	mg/L		0.0094				1.03%
Ag 328.068†	-102.7	0.0005	mg/L		0.00022	0.0005	mg/L	0.00022	43.69%
Al 237.313†	8277.7	0.7660	mg/L		0.01260	0.7660	mg/L	0.01260	1.64%
As 188.979†	12.4	0.0102	mg/L		0.00571	0.0102	mg/L	0.00571	55.78%
B 249.677†	444.2	0.1838	mg/L		0.00050	0.1838	mg/L	0.00050	0.27%
B 182.528†	220.2	0.1848	mg/L		0.00121	0.1848	mg/L	0.00121	0.65%
Ba 233.527†	6853.0	0.0525	mg/L		0.00056	0.0525	mg/L	0.00056	1.06%

Be 313.107†	-34.1	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	14.09%
Ca 315.887†	8836012.8	79.09 mg/L	0.935	79.09 mg/L	0.935	1.18%
Cd 228.802†	32.4	0.0021 mg/L	0.00000	0.0021 mg/L	0.00000	0.22%
Co 228.616†	409.6	0.0044 mg/L	0.00006	0.0044 mg/L	0.00006	1.35%
Cr 267.716†	1567.6	0.0124 mg/L	0.00048	0.0124 mg/L	0.00048	3.88%
Cu 324.752†	7026.4	0.0314 mg/L	0.00024	0.0314 mg/L	0.00024	0.77%
Fe 234.349†	28043.0	13.77 mg/L	0.143	13.77 mg/L	0.143	1.04%
K 766.490†	87988.2	37.72 mg/L	0.421	37.72 mg/L	0.421	1.12%
Li 670.784†	674.9	0.0177 mg/L	0.00334	0.0177 mg/L	0.00334	18.81%
Mg 279.077†	117800.4	7.649 mg/L	0.1438	7.649 mg/L	0.1438	1.88%
Mn 257.610†	758451.6	0.8127 mg/L	0.00226	0.8127 mg/L	0.00226	0.28%
Mn 294.920†	387212.8	0.8258 mg/L	0.01437	0.8258 mg/L	0.01437	1.74%
Mo 202.031†	355.2	0.0139 mg/L	0.00077	0.0139 mg/L	0.00077	5.58%
Na 589.592†	518375.7	69.54 mg/L	0.834	69.54 mg/L	0.834	1.20%
Ni 231.604†	1001.8	0.0181 mg/L	0.00081	0.0181 mg/L	0.00081	4.47%
P 214.914†	10403.4	5.503 mg/L	0.1200	5.503 mg/L	0.1200	2.18%
Pb 220.353†	123.9	0.0090 mg/L	0.00229	0.0090 mg/L	0.00229	25.44%
Sb 206.836†	9.1	0.0022 mg/L	0.00454	0.0022 mg/L	0.00454	205.60%
Se 196.026†	-25.1	-0.0086 mg/L	0.00212	-0.0086 mg/L	0.00212	24.52%
Sn 189.927†	-643.3	-0.0285 mg/L	0.00049	-0.0285 mg/L	0.00049	1.70%
Sr 407.771†	419423.4	0.3553 mg/L	0.00365	0.3553 mg/L	0.00365	1.03%
Ti 337.279†	43864.4	0.0477 mg/L	0.00210	0.0477 mg/L	0.00210	4.39%
Tl 190.801†	23.2	-0.0012 mg/L	0.00776	-0.0012 mg/L	0.00776	662.96%
V 292.402†	1310.4	0.0066 mg/L	0.00032	0.0066 mg/L	0.00032	4.86%
Zn 213.857†	274385.3	1.685 mg/L	0.0305	1.685 mg/L	0.0305	1.81%

Sequence No.: 32
Sample ID: 1306285-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 6/25/2013 4:17:59 PM
Data Type: Reprocessed on 6/26/2013 10:56:39 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306285-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3084258.8	3084258.8	0.912 mg/L			16:20:10
1	Ag 328.068†	587.5	-92.8	0.0002 mg/L		0.0002 mg/L	16:20:12
1	Al 237.313†	34.6	425.3	0.0461 mg/L		0.0461 mg/L	16:20:23
1	As 188.979†	-3.0	-4.3	0.0000 mg/L		0.0000 mg/L	16:20:23
1	B 249.677†	59.2	80.1	0.0352 mg/L		0.0352 mg/L	16:19:54
1	B 182.528†	31.2	41.2	0.0377 mg/L		0.0377 mg/L	16:20:23
1	Ba 233.527†	1872.9	2141.0	0.0168 mg/L		0.0168 mg/L	16:20:23
1	Be 313.107†	-1347.4	-44.3	0.0002 mg/L		0.0002 mg/L	16:20:12
1	Ca 315.887†	536856.4	589255.1	5.282 mg/L		5.282 mg/L	16:20:10
1	Cd 228.802†	159.8	27.7	0.0022 mg/L		0.0022 mg/L	16:20:23
1	Co 228.616†	-149.8	13.7	-0.0019 mg/L		-0.0019 mg/L	16:20:23
1	Cr 267.716†	1070.2	462.4	0.0040 mg/L		0.0040 mg/L	16:20:12
1	Cu 324.752†	16030.5	13617.0	0.0595 mg/L		0.0595 mg/L	16:20:12
1	Fe 234.349†	774.4	850.6	0.4230 mg/L		0.4230 mg/L	16:19:54
1	K 766.490†	3651.5	3257.9	1.535 mg/L		1.535 mg/L	16:19:44
1	Li 670.784†	-129.5	130.6	0.0050 mg/L		0.0050 mg/L	16:19:44
1	Mg 279.077†	39193.6	42678.8	2.769 mg/L		2.769 mg/L	16:20:12
1	Mn 257.610†	25624.7	12037.3	0.0128 mg/L		0.0128 mg/L	16:20:12
1	Mn 294.920†	4210.3	5256.2	0.0110 mg/L		0.0110 mg/L	16:20:12
1	Mo 202.031†	21.1	33.5	0.0036 mg/L		0.0036 mg/L	16:20:23
1	Na 589.592†	393330.0	426967.6	57.30 mg/L		57.30 mg/L	16:19:44
1	Ni 231.604†	388.5	248.8	0.0041 mg/L		0.0041 mg/L	16:20:23
1	P 214.914†	10266.0	11300.3	5.973 mg/L		5.973 mg/L	16:20:12
1	Pb 220.353†	147.6	-21.4	0.0006 mg/L		0.0006 mg/L	16:20:23
1	Sb 206.836†	29.9	-12.0	-0.0007 mg/L		-0.0007 mg/L	16:20:23
1	Se 196.026†	13.9	-1.6	0.0036 mg/L		0.0036 mg/L	16:20:23
1	Sn 189.927†	-49.2	-91.4	-0.0064 mg/L		-0.0064 mg/L	16:20:23
1	Sr 407.771†	58634.2	64033.0	0.0545 mg/L		0.0545 mg/L	16:19:44
1	Ti 337.279†	-296.5	972.9	0.0038 mg/L		0.0038 mg/L	16:20:12
1	Tl 190.801†	-9.7	-3.6	-0.0040 mg/L		-0.0040 mg/L	16:20:23
1	V 292.402†	-1093.9	-297.3	0.0012 mg/L		0.0012 mg/L	16:20:12
1	Zn 213.857†	5017.4	4631.0	0.0288 mg/L		0.0288 mg/L	16:20:23
2	Y 371.029	3125955.9	3125955.9	0.925 mg/L			16:20:25
2	Ag 328.068†	658.6	-24.5	0.0005 mg/L		0.0005 mg/L	16:20:27
2	Al 237.313†	43.9	434.9	0.0470 mg/L		0.0470 mg/L	16:20:37

2	As	188.979†	2.9	2.1	0.0039	mg/L	0.0039	mg/L	16:20:37
2	B	249.677†	58.5	78.4	0.0345	mg/L	0.0345	mg/L	16:20:06
2	B	182.528†	38.3	48.3	0.0436	mg/L	0.0436	mg/L	16:20:37
2	Ba	233.527†	1864.4	2104.4	0.0165	mg/L	0.0165	mg/L	16:20:37
2	Be	313.107†	-1413.3	-95.9	0.0002	mg/L	0.0002	mg/L	16:20:27
2	Ca	315.887†	542497.9	587506.7	5.267	mg/L	5.267	mg/L	16:20:25
2	Cd	228.802†	150.8	15.6	0.0019	mg/L	0.0019	mg/L	16:20:37
2	Co	228.616†	-163.9	0.6	-0.0021	mg/L	-0.0021	mg/L	16:20:37
2	Cr	267.716†	1137.4	519.4	0.0045	mg/L	0.0045	mg/L	16:20:27
2	Cu	324.752†	15920.7	13263.9	0.0580	mg/L	0.0580	mg/L	16:20:27
2	Fe	234.349†	772.2	836.9	0.4163	mg/L	0.4163	mg/L	16:20:06
2	K	766.490†	3655.9	3209.3	1.514	mg/L	1.514	mg/L	16:19:56
2	Li	670.784†	-49.3	219.2	0.0070	mg/L	0.0070	mg/L	16:19:56
2	Mg	279.077†	38947.7	41839.6	2.715	mg/L	2.715	mg/L	16:20:27
2	Mn	257.610†	25642.2	11681.5	0.0124	mg/L	0.0124	mg/L	16:20:27
2	Mn	294.920†	4287.4	5278.0	0.0111	mg/L	0.0111	mg/L	16:20:27
2	Mo	202.031†	24.3	36.7	0.0038	mg/L	0.0038	mg/L	16:20:37
2	Na	589.592†	386558.5	413891.7	55.54	mg/L	55.54	mg/L	16:19:56
2	Ni	231.604†	387.4	241.9	0.0040	mg/L	0.0040	mg/L	16:20:37
2	P	214.914†	10329.2	11218.5	5.930	mg/L	5.930	mg/L	16:20:27
2	Pb	220.353†	164.3	-5.4	0.0016	mg/L	0.0016	mg/L	16:20:37
2	Sb	206.836†	37.3	-4.4	0.0024	mg/L	0.0024	mg/L	16:20:37
2	Se	196.026†	21.1	5.9	0.0078	mg/L	0.0078	mg/L	16:20:37
2	Sn	189.927†	-64.0	-106.7	-0.0083	mg/L	-0.0083	mg/L	16:20:37
2	Sr	407.771†	57555.0	62008.3	0.0528	mg/L	0.0528	mg/L	16:19:56
2	Ti	337.279†	-58.1	1235.1	0.0041	mg/L	0.0041	mg/L	16:20:27
2	Tl	190.801†	-1.3	5.7	0.0029	mg/L	0.0029	mg/L	16:20:37
2	V	292.402†	-724.4	118.3	0.0028	mg/L	0.0028	mg/L	16:20:27
2	Zn	213.857†	4926.1	4458.9	0.0278	mg/L	0.0278	mg/L	16:20:37

Mean Data: 1306285-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3105107.4	0.918	mg/L	0.0087			0.95%
Ag 328.068†	-58.6	0.0004	mg/L	0.00023	0.0004	mg/L	0.00023 61.08%
Al 237.313†	430.1	0.0465	mg/L	0.00062	0.0465	mg/L	0.00062 1.33%
As 188.979†	-1.1	0.0020	mg/L	0.00275	0.0020	mg/L	0.00275 140.86%
B 249.677†	79.3	0.0349	mg/L	0.00049	0.0349	mg/L	0.00049 1.41%
B 182.528†	44.8	0.0407	mg/L	0.00414	0.0407	mg/L	0.00414 10.17%
Ba 233.527†	2122.7	0.0167	mg/L	0.00020	0.0167	mg/L	0.00020 1.18%
Be 313.107†	-70.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001 6.83%
Ca 315.887†	588380.9	5.274	mg/L	0.0111	5.274	mg/L	0.0111 0.21%
Cd 228.802†	21.7	0.0021	mg/L	0.00023	0.0021	mg/L	0.00023 11.04%
Co 228.616†	7.2	-0.0020	mg/L	0.00015	-0.0020	mg/L	0.00015 7.54%
Cr 267.716†	490.9	0.0042	mg/L	0.00031	0.0042	mg/L	0.00031 7.23%
Cu 324.752†	13440.4	0.0587	mg/L	0.00107	0.0587	mg/L	0.00107 1.82%
Fe 234.349†	843.8	0.4196	mg/L	0.00479	0.4196	mg/L	0.00479 1.14%
K 766.490†	3233.6	1.524	mg/L	0.0147	1.524	mg/L	0.0147 0.96%
Li 670.784†	174.9	0.0060	mg/L	0.00147	0.0060	mg/L	0.00147 24.51%
Mg 279.077†	42259.2	2.742	mg/L	0.0385	2.742	mg/L	0.0385 1.41%
Mn 257.610†	11859.4	0.0126	mg/L	0.00027	0.0126	mg/L	0.00027 2.14%
Mn 294.920†	5267.1	0.0111	mg/L	0.00003	0.0111	mg/L	0.00003 0.30%
Mo 202.031†	35.1	0.0037	mg/L	0.00009	0.0037	mg/L	0.00009 2.47%
Na 589.592†	420429.6	56.42	mg/L	1.239	56.42	mg/L	1.239 2.20%
Ni 231.604†	245.3	0.0040	mg/L	0.00009	0.0040	mg/L	0.00009 2.24%
P 214.914†	11259.4	5.951	mg/L	0.0303	5.951	mg/L	0.0303 0.51%
Pb 220.353†	-13.4	0.0011	mg/L	0.00066	0.0011	mg/L	0.00066 59.45%
Sb 206.836†	-8.2	0.0008	mg/L	0.00220	0.0008	mg/L	0.00220 270.97%
Se 196.026†	2.2	0.0057	mg/L	0.00297	0.0057	mg/L	0.00297 52.42%
Sn 189.927†	-99.1	-0.0073	mg/L	0.00133	-0.0073	mg/L	0.00133 18.20%
Sr 407.771†	63020.7	0.0536	mg/L	0.00121	0.0536	mg/L	0.00121 2.26%
Ti 337.279†	1104.0	0.0039	mg/L	0.00019	0.0039	mg/L	0.00019 4.85%
Tl 190.801†	1.1	-0.0005	mg/L	0.00493	-0.0005	mg/L	0.00493 901.74%
V 292.402†	-89.5	0.0020	mg/L	0.00115	0.0020	mg/L	0.00115 57.38%
Zn 213.857†	4545.0	0.0283	mg/L	0.00075	0.0283	mg/L	0.00075 2.64%

Sequence No.: 33

Sample ID: 1306285-02

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Autosampler Location: 21

Date Collected: 6/25/2013 4:22:17 PM

Data Type: Reprocessed on 6/26/2013 10:56:40 AM

Initial Sample Vol:

Replicate Data: 1306285-02

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	Y 371.029	3174362.2	3174362.2	0.939 mg/L		16:24:27
1	Ag 328.068†	572.3	-127.3	0.0000 mg/L	0.0000 mg/L	16:24:29
1	Al 237.313†	-17.6	368.7	0.0409 mg/L	0.0409 mg/L	16:24:39
1	As 188.979†	-0.7	-1.8	0.0016 mg/L	0.0016 mg/L	16:24:39
1	B 249.677†	-4.1	10.8	0.0069 mg/L	0.0069 mg/L	16:24:11
1	B 182.528†	0.5	7.5	0.0101 mg/L	0.0101 mg/L	16:24:39
1	Ba 233.527†	1163.0	1326.5	0.0107 mg/L	0.0107 mg/L	16:24:39
1	Be 313.107†	-1367.4	-23.7	0.0002 mg/L	0.0002 mg/L	16:24:29
1	Ca 315.887†	504239.7	537808.1	4.822 mg/L	4.822 mg/L	16:24:27
1	Cd 228.802†	150.0	12.3	0.0018 mg/L	0.0018 mg/L	16:24:39
1	Co 228.616†	-179.2	-12.9	-0.0023 mg/L	-0.0023 mg/L	16:24:39
1	Cr 267.716†	1128.0	490.7	0.0042 mg/L	0.0042 mg/L	16:24:29
1	Cu 324.752†	19464.8	16776.2	0.0730 mg/L	0.0730 mg/L	16:24:29
1	Fe 234.349†	466.4	498.5	0.2493 mg/L	0.2493 mg/L	16:24:11
1	K 766.490†	2945.3	2392.1	1.165 mg/L	1.165 mg/L	16:24:01
1	Li 670.784†	-189.1	71.1	0.0036 mg/L	0.0036 mg/L	16:24:01
1	Mg 279.077†	11945.5	12435.9	0.8055 mg/L	0.8055 mg/L	16:24:29
1	Mn 257.610†	25435.6	11038.4	0.0118 mg/L	0.0118 mg/L	16:24:39
1	Mn 294.920†	3729.8	4613.4	0.0097 mg/L	0.0097 mg/L	16:24:29
1	Mo 202.031†	11.8	23.0	0.0032 mg/L	0.0032 mg/L	16:24:39
1	Na 589.592†	235301.8	246404.8	33.10 mg/L	33.10 mg/L	16:24:01
1	Ni 231.604†	804.2	679.4	0.0121 mg/L	0.0121 mg/L	16:24:39
1	P 214.914†	884.0	987.6	0.5656 mg/L	0.5656 mg/L	16:24:39
1	Pb 220.353†	701.4	564.0	0.0349 mg/L	0.0349 mg/L	16:24:39
1	Sb 206.836†	34.4	-8.2	0.0009 mg/L	0.0009 mg/L	16:24:39
1	Se 196.026†	12.6	-3.5	0.0025 mg/L	0.0025 mg/L	16:24:39
1	Sn 189.927†	502.0	497.3	0.0656 mg/L	0.0656 mg/L	16:24:39
1	Sr 407.771†	44819.4	47493.7	0.0405 mg/L	0.0405 mg/L	16:24:01
1	Ti 337.279†	-1304.6	-91.7	0.0027 mg/L	0.0027 mg/L	16:24:29
1	Tl 190.801†	-6.3	0.5	-0.0009 mg/L	-0.0009 mg/L	16:24:39
1	V 292.402†	-830.6	17.2	0.0023 mg/L	0.0023 mg/L	16:24:29
1	Zn 213.857†	43387.5	45344.7	0.2788 mg/L	0.2788 mg/L	16:24:29
2	Y 371.029	3141717.5	3141717.5	0.929 mg/L		16:24:42
2	Ag 328.068†	730.7	49.6	0.0009 mg/L	0.0009 mg/L	16:24:44
2	Al 237.313†	-17.8	368.3	0.0409 mg/L	0.0409 mg/L	16:24:54
2	As 188.979†	-4.0	-5.3	-0.0006 mg/L	-0.0006 mg/L	16:24:54
2	B 249.677†	-0.9	14.2	0.0083 mg/L	0.0083 mg/L	16:24:23
2	B 182.528†	0.0	7.0	0.0096 mg/L	0.0096 mg/L	16:24:54
2	Ba 233.527†	1125.1	1298.6	0.0104 mg/L	0.0104 mg/L	16:24:54
2	Be 313.107†	-1367.9	-39.4	0.0002 mg/L	0.0002 mg/L	16:24:44
2	Ca 315.887†	500418.0	539275.8	4.835 mg/L	4.835 mg/L	16:24:42
2	Cd 228.802†	147.3	11.0	0.0018 mg/L	0.0018 mg/L	16:24:54
2	Co 228.616†	-150.0	16.5	-0.0018 mg/L	-0.0018 mg/L	16:24:54
2	Cr 267.716†	1103.7	477.0	0.0041 mg/L	0.0041 mg/L	16:24:44
2	Cu 324.752†	19419.4	16942.7	0.0737 mg/L	0.0737 mg/L	16:24:44
2	Fe 234.349†	470.6	508.1	0.2541 mg/L	0.2541 mg/L	16:24:23
2	K 766.490†	2900.5	2376.5	1.158 mg/L	1.158 mg/L	16:24:13
2	Li 670.784†	-206.1	50.8	0.0031 mg/L	0.0031 mg/L	16:24:13
2	Mg 279.077†	11882.0	12499.7	0.8097 mg/L	0.8097 mg/L	16:24:44
2	Mn 257.610†	25220.4	11088.4	0.0118 mg/L	0.0118 mg/L	16:24:54
2	Mn 294.920†	3765.8	4693.4	0.0098 mg/L	0.0098 mg/L	16:24:44
2	Mo 202.031†	30.1	42.8	0.0039 mg/L	0.0039 mg/L	16:24:54
2	Na 589.592†	235298.9	249006.0	33.45 mg/L	33.45 mg/L	16:24:13
2	Ni 231.604†	810.6	695.2	0.0124 mg/L	0.0124 mg/L	16:24:54
2	P 214.914†	869.6	981.9	0.5626 mg/L	0.5626 mg/L	16:24:54
2	Pb 220.353†	613.6	477.2	0.0298 mg/L	0.0298 mg/L	16:24:54
2	Sb 206.836†	25.8	-17.0	-0.0027 mg/L	-0.0027 mg/L	16:24:54
2	Se 196.026†	12.3	-3.7	0.0024 mg/L	0.0024 mg/L	16:24:54
2	Sn 189.927†	476.9	475.8	0.0630 mg/L	0.0630 mg/L	16:24:54
2	Sr 407.771†	44743.2	47907.7	0.0409 mg/L	0.0409 mg/L	16:24:13
2	Ti 337.279†	-1062.5	154.4	0.0029 mg/L	0.0029 mg/L	16:24:44
2	Tl 190.801†	-7.1	-0.5	-0.0016 mg/L	-0.0016 mg/L	16:24:54
2	V 292.402†	-956.9	-128.0	0.0017 mg/L	0.0017 mg/L	16:24:44
2	Zn 213.857†	43286.3	45716.0	0.2811 mg/L	0.2811 mg/L	16:24:44

Mean Data: 1306285-02

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3158039.8	0.934 mg/L		0.0068				0.73%
Ag 328.068†	-38.8	0.0005 mg/L		0.00060	0.0005 mg/L		0.00060	127.58%
Al 237.313†	368.5	0.0409 mg/L		0.00003	0.0409 mg/L		0.00003	0.08%
As 188.979†	-3.5	0.0005 mg/L		0.00155	0.0005 mg/L		0.00155	330.85%
B 249.677†	12.5	0.0076 mg/L		0.00099	0.0076 mg/L		0.00099	13.03%
B 182.528†	7.3	0.0098 mg/L		0.00033	0.0098 mg/L		0.00033	3.33%
Ba 233.527†	1312.6	0.0105 mg/L		0.00015	0.0105 mg/L		0.00015	1.42%
Be 313.107†	-31.5	0.0002 mg/L		0.00000	0.0002 mg/L		0.00000	1.95%
Ca 315.887†	538541.9	4.828 mg/L		0.0093	4.828 mg/L		0.0093	0.19%
Cd 228.802†	11.7	0.0018 mg/L		0.00002	0.0018 mg/L		0.00002	1.33%
Co 228.616†	1.8	-0.0020 mg/L		0.00033	-0.0020 mg/L		0.00033	16.18%
Cr 267.716†	483.9	0.0042 mg/L		0.00007	0.0042 mg/L		0.00007	1.75%
Cu 324.752†	16859.5	0.0733 mg/L		0.00050	0.0733 mg/L		0.00050	0.69%
Fe 234.349†	503.3	0.2517 mg/L		0.00336	0.2517 mg/L		0.00336	1.33%
K 766.490†	2384.3	1.162 mg/L		0.0047	1.162 mg/L		0.0047	0.41%
Li 670.784†	61.0	0.0033 mg/L		0.00034	0.0033 mg/L		0.00034	10.14%
Mg 279.077†	12467.8	0.8076 mg/L		0.00293	0.8076 mg/L		0.00293	0.36%
Mn 257.610†	11063.4	0.0118 mg/L		0.00004	0.0118 mg/L		0.00004	0.32%
Mn 294.920†	4653.4	0.0098 mg/L		0.00012	0.0098 mg/L		0.00012	1.24%
Mo 202.031†	32.9	0.0036 mg/L		0.00052	0.0036 mg/L		0.00052	14.62%
Na 589.592†	247705.4	33.28 mg/L		0.246	33.28 mg/L		0.246	0.74%
Ni 231.604†	687.3	0.0123 mg/L		0.00021	0.0123 mg/L		0.00021	1.70%
P 214.914†	984.8	0.5641 mg/L		0.00213	0.5641 mg/L		0.00213	0.38%
Pb 220.353†	520.6	0.0323 mg/L		0.00359	0.0323 mg/L		0.00359	11.09%
Sb 206.836†	-12.6	-0.0009 mg/L		0.00255	-0.0009 mg/L		0.00255	275.30%
Se 196.026†	-3.6	0.0025 mg/L		0.00008	0.0025 mg/L		0.00008	3.30%
Sn 189.927†	486.5	0.0643 mg/L		0.00186	0.0643 mg/L		0.00186	2.90%
Sr 407.771†	47700.7	0.0407 mg/L		0.00025	0.0407 mg/L		0.00025	0.61%
Ti 337.279†	31.4	0.0028 mg/L		0.00018	0.0028 mg/L		0.00018	6.33%
Tl 190.801†	-0.0	-0.0012 mg/L		0.00049	-0.0012 mg/L		0.00049	40.63%
V 292.402†	-55.4	0.0020 mg/L		0.00040	0.0020 mg/L		0.00040	19.82%
Zn 213.857†	45530.3	0.2800 mg/L		0.00161	0.2800 mg/L		0.00161	0.58%

Sequence No.: 34
Sample ID: 1306285-03
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 6/25/2013 4:26:34 PM
Data Type: Reprocessed on 6/26/2013 10:56:40 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306285-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Y 371.029	3165686.2	3165686.2	0.936 mg/L			16:28:42
1	Ag 328.068†	653.7	-38.6	0.0005 mg/L		0.0005 mg/L	16:28:44
1	Al 237.313†	40.1	430.3	0.0466 mg/L		0.0466 mg/L	16:28:54
1	As 188.979†	-0.9	-2.0	0.0014 mg/L		0.0014 mg/L	16:28:54
1	B 249.677†	-2.3	12.8	0.0077 mg/L		0.0077 mg/L	16:28:25
1	B 182.528†	0.5	7.5	0.0101 mg/L		0.0101 mg/L	16:28:54
1	Ba 233.527†	1495.8	1685.3	0.0134 mg/L		0.0134 mg/L	16:28:54
1	Be 313.107†	-1400.1	-62.6	0.0002 mg/L		0.0002 mg/L	16:28:44
1	Ca 315.887†	479687.6	513056.7	4.600 mg/L		4.600 mg/L	16:28:42
1	Cd 228.802†	149.7	12.5	0.0018 mg/L		0.0018 mg/L	16:28:54
1	Co 228.616†	-143.2	25.0	-0.0017 mg/L		-0.0017 mg/L	16:28:54
1	Cr 267.716†	1254.3	628.8	0.0053 mg/L		0.0053 mg/L	16:28:44
1	Cu 324.752†	17884.1	15144.7	0.0660 mg/L		0.0660 mg/L	16:28:44
1	Fe 234.349†	675.2	722.8	0.3608 mg/L		0.3608 mg/L	16:28:25
1	K 766.490†	2756.9	2199.4	1.083 mg/L		1.083 mg/L	16:28:15
1	Li 670.784†	-225.2	32.1	0.0027 mg/L		0.0027 mg/L	16:28:15
1	Mg 279.077†	11702.5	12211.3	0.7911 mg/L		0.7911 mg/L	16:28:44
1	Mn 257.610†	94008.6	84353.3	0.0906 mg/L		0.0906 mg/L	16:28:44
1	Mn 294.920†	38335.6	41585.6	0.0885 mg/L		0.0885 mg/L	16:28:44
1	Mo 202.031†	2.3	12.9	0.0028 mg/L		0.0028 mg/L	16:28:54
1	Na 589.592†	230159.6	241599.5	32.46 mg/L		32.46 mg/L	16:28:15
1	Ni 231.604†	750.5	624.4	0.0111 mg/L		0.0111 mg/L	16:28:54
1	P 214.914†	751.1	848.2	0.4926 mg/L		0.4926 mg/L	16:28:54
1	Pb 220.353†	767.2	636.3	0.0391 mg/L		0.0391 mg/L	16:28:54
1	Sb 206.836†	36.8	-5.5	0.0019 mg/L		0.0019 mg/L	16:28:54
1	Se 196.026†	15.6	-0.2	0.0044 mg/L		0.0044 mg/L	16:28:54

1	Sn 189.927†	-30.3	-69.9	-0.0042 mg/L	-0.0042 mg/L	16:28:54
1	Sr 407.771†	40900.0	43438.3	0.0371 mg/L	0.0371 mg/L	16:28:15
1	Ti 337.279†	-871.0	367.6	0.0032 mg/L	0.0032 mg/L	16:28:44
1	Tl 190.801†	-2.8	4.2	0.0019 mg/L	0.0019 mg/L	16:28:54
1	V 292.402†	-987.7	-153.1	0.0017 mg/L	0.0017 mg/L	16:28:44
1	Zn 213.857†	6201.9	5754.6	0.0357 mg/L	0.0357 mg/L	16:28:54
2	Y 371.029	3146513.7	3146513.7	0.931 mg/L		16:28:57
2	Ag 328.068†	616.8	-74.0	0.0003 mg/L	0.0003 mg/L	16:28:59
2	Al 237.313†	38.3	428.6	0.0464 mg/L	0.0464 mg/L	16:29:09
2	As 188.979†	-2.0	-3.2	0.0007 mg/L	0.0007 mg/L	16:29:09
2	B 249.677†	-5.0	9.8	0.0065 mg/L	0.0065 mg/L	16:28:38
2	B 182.528†	4.4	11.7	0.0135 mg/L	0.0135 mg/L	16:29:09
2	Ba 233.527†	1484.9	1683.3	0.0134 mg/L	0.0134 mg/L	16:29:09
2	Be 313.107†	-1280.3	57.0	0.0002 mg/L	0.0002 mg/L	16:28:59
2	Ca 315.887†	477574.7	513908.0	4.608 mg/L	4.608 mg/L	16:28:57
2	Cd 228.802†	138.1	1.0	0.0015 mg/L	0.0015 mg/L	16:29:09
2	Co 228.616†	-156.4	9.9	-0.0019 mg/L	-0.0019 mg/L	16:29:09
2	Cr 267.716†	1255.3	638.1	0.0054 mg/L	0.0054 mg/L	16:28:59
2	Cu 324.752†	17989.9	15374.9	0.0670 mg/L	0.0670 mg/L	16:28:59
2	Fe 234.349†	678.4	730.7	0.3647 mg/L	0.3647 mg/L	16:28:38
2	K 766.490†	2726.6	2184.8	1.076 mg/L	1.076 mg/L	16:28:28
2	Li 670.784†	-298.3	-48.0	0.0008 mg/L	0.0008 mg/L	16:28:28
2	Mg 279.077†	11931.7	12533.7	0.8120 mg/L	0.8120 mg/L	16:28:59
2	Mn 257.610†	95353.0	86409.8	0.0928 mg/L	0.0928 mg/L	16:28:59
2	Mn 294.920†	39153.7	42714.2	0.0909 mg/L	0.0909 mg/L	16:28:59
2	Mo 202.031†	19.3	31.1	0.0035 mg/L	0.0035 mg/L	16:29:09
2	Na 589.592†	231364.7	244392.4	32.83 mg/L	32.83 mg/L	16:28:28
2	Ni 231.604†	735.7	613.4	0.0109 mg/L	0.0109 mg/L	16:29:09
2	P 214.914†	779.1	883.2	0.5109 mg/L	0.5109 mg/L	16:29:09
2	Pb 220.353†	752.6	625.6	0.0385 mg/L	0.0385 mg/L	16:29:09
2	Sb 206.836†	39.4	-2.5	0.0032 mg/L	0.0032 mg/L	16:29:09
2	Se 196.026†	21.8	6.5	0.0081 mg/L	0.0081 mg/L	16:29:09
2	Sn 189.927†	-38.3	-78.6	-0.0052 mg/L	-0.0052 mg/L	16:29:09
2	Sr 407.771†	41316.3	44151.8	0.0377 mg/L	0.0377 mg/L	16:28:28
2	Ti 337.279†	-1161.0	50.3	0.0028 mg/L	0.0028 mg/L	16:28:59
2	Tl 190.801†	-5.4	1.3	-0.0002 mg/L	-0.0002 mg/L	16:29:09
2	V 292.402†	-876.8	-40.4	0.0022 mg/L	0.0022 mg/L	16:28:59
2	Zn 213.857†	6214.9	5809.0	0.0360 mg/L	0.0360 mg/L	16:29:09

Mean Data: 1306285-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3156100.0	0.933 mg/L		0.0040			0.43%
Ag 328.068†	-56.3	0.0004 mg/L		0.00012	0.0004 mg/L	0.00012	30.85%
Al 237.313†	429.4	0.0465 mg/L		0.00011	0.0465 mg/L	0.00011	0.24%
As 188.979†	-2.6	0.0010 mg/L		0.00052	0.0010 mg/L	0.00052	49.99%
B 249.677†	11.3	0.0071 mg/L		0.00085	0.0071 mg/L	0.00085	11.96%
B 182.528†	9.6	0.0118 mg/L		0.00242	0.0118 mg/L	0.00242	20.60%
Ba 233.527†	1684.3	0.0134 mg/L		0.00001	0.0134 mg/L	0.00001	0.08%
Be 313.107†	-2.8	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	14.02%
Ca 315.887†	513482.4	4.604 mg/L		0.0054	4.604 mg/L	0.0054	0.12%
Cd 228.802†	6.7	0.0017 mg/L		0.00022	0.0017 mg/L	0.00022	13.02%
Co 228.616†	17.4	-0.0018 mg/L		0.00017	-0.0018 mg/L	0.00017	9.45%
Cr 267.716†	633.5	0.0053 mg/L		0.00005	0.0053 mg/L	0.00005	0.95%
Cu 324.752†	15259.8	0.0665 mg/L		0.00069	0.0665 mg/L	0.00069	1.04%
Fe 234.349†	726.8	0.3627 mg/L		0.00275	0.3627 mg/L	0.00275	0.76%
K 766.490†	2192.1	1.080 mg/L		0.0044	1.080 mg/L	0.0044	0.41%
Li 670.784†	-7.9	0.0017 mg/L		0.00133	0.0017 mg/L	0.00133	77.80%
Mg 279.077†	12372.5	0.8015 mg/L		0.01481	0.8015 mg/L	0.01481	1.85%
Mn 257.610†	85381.5	0.0917 mg/L		0.00156	0.0917 mg/L	0.00156	1.71%
Mn 294.920†	42149.9	0.0897 mg/L		0.00170	0.0897 mg/L	0.00170	1.90%
Mo 202.031†	22.0	0.0032 mg/L		0.00048	0.0032 mg/L	0.00048	15.06%
Na 589.592†	242996.0	32.65 mg/L		0.265	32.65 mg/L	0.265	0.81%
Ni 231.604†	618.9	0.0110 mg/L		0.00014	0.0110 mg/L	0.00014	1.31%
P 214.914†	865.7	0.5017 mg/L		0.01296	0.5017 mg/L	0.01296	2.58%
Pb 220.353†	630.9	0.0388 mg/L		0.00044	0.0388 mg/L	0.00044	1.13%
Sb 206.836†	-4.0	0.0026 mg/L		0.00088	0.0026 mg/L	0.00088	34.37%
Se 196.026†	3.2	0.0062 mg/L		0.00264	0.0062 mg/L	0.00264	42.41%
Sn 189.927†	-74.3	-0.0047 mg/L		0.00076	-0.0047 mg/L	0.00076	16.12%
Sr 407.771†	43795.1	0.0374 mg/L		0.00043	0.0374 mg/L	0.00043	1.14%
Ti 337.279†	209.0	0.0030 mg/L		0.00023	0.0030 mg/L	0.00023	7.67%
Tl 190.801†	2.7	0.0008 mg/L		0.00153	0.0008 mg/L	0.00153	180.69%

V 292.402†	-96.7	0.0020 mg/L	0.00032	0.0020 mg/L	0.00032	16.15%
Zn 213.857†	5781.8	0.0358 mg/L	0.00024	0.0358 mg/L	0.00024	0.66%

Sequence No.: 35	Autosampler Location: 3
Sample ID: CCV1	Date Collected: 6/25/2013 4:30:49 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:56:41 AM
Logged In Analyst (Original) : ICP3	Initial Sample Vol:
Initial Sample Wt:	Sample Prep Vol:
Dilution:	

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3140104.1	3140104.1	0.929 mg/L		16:32:44
1	Ag 328.068†	47868.5	50806.6	0.2447 mg/L	0.2447 mg/L	16:32:44
1	Al 237.313†	23897.0	26119.0	2.403 mg/L	2.403 mg/L	16:32:54
1	As 188.979†	716.7	770.7	0.4733 mg/L	0.4733 mg/L	16:32:54
1	B 249.677†	1026.7	1120.7	0.4606 mg/L	0.4606 mg/L	16:32:34
1	B 182.528†	543.3	592.0	0.4903 mg/L	0.4903 mg/L	16:32:54
1	Ba 233.527†	59789.9	64467.6	0.4893 mg/L	0.4893 mg/L	16:32:44
1	Be 313.107†	131768.1	143316.5	0.0506 mg/L	0.0506 mg/L	16:32:44
1	Ca 315.887†	463145.9	499419.1	4.480 mg/L	4.480 mg/L	16:32:44
1	Cd 228.802†	9081.3	9631.0	0.2591 mg/L	0.2591 mg/L	16:32:54
1	Co 228.616†	28615.7	30990.5	0.4911 mg/L	0.4911 mg/L	16:32:54
1	Cr 267.716†	58048.9	61794.4	0.4709 mg/L	0.4709 mg/L	16:32:44
1	Cu 324.752†	105646.1	109799.7	0.4706 mg/L	0.4706 mg/L	16:32:44
1	Fe 234.349†	4502.2	4849.5	2.397 mg/L	2.397 mg/L	16:32:34
1	K 766.490†	53906.4	57299.7	24.61 mg/L	24.61 mg/L	16:32:32
1	Li 670.784†	18899.8	20623.3	0.4862 mg/L	0.4862 mg/L	16:32:34
1	Mg 279.077†	65985.9	70763.7	4.594 mg/L	4.594 mg/L	16:32:44
1	Mn 257.610†	434742.3	452062.8	0.4857 mg/L	0.4857 mg/L	16:32:44
1	Mn 294.920†	210300.8	227086.0	0.4842 mg/L	0.4842 mg/L	16:32:44
1	Mo 202.031†	11803.5	12720.0	0.4776 mg/L	0.4776 mg/L	16:32:54
1	Na 589.592†	176448.8	185768.1	24.98 mg/L	24.98 mg/L	16:32:32
1	Ni 231.604†	24097.9	25770.8	0.4797 mg/L	0.4797 mg/L	16:32:44
1	P 214.914†	8374.7	9063.6	4.793 mg/L	4.793 mg/L	16:32:54
1	Pb 220.353†	7842.7	8261.7	0.4861 mg/L	0.4861 mg/L	16:32:54
1	Sb 206.836†	1139.1	1181.7	0.4876 mg/L	0.4876 mg/L	16:32:54
1	Se 196.026†	1611.1	1718.0	0.9555 mg/L	0.9555 mg/L	16:32:54
1	Sn 189.927†	3681.1	3926.3	0.4865 mg/L	0.4865 mg/L	16:32:54
1	Sr 407.771†	53715.6	57593.7	0.0491 mg/L	0.0491 mg/L	16:32:32
1	Ti 337.279†	433223.5	467779.5	0.4823 mg/L	0.4823 mg/L	16:32:44
1	Tl 190.801†	542.9	591.7	0.4420 mg/L	0.4420 mg/L	16:32:54
1	V 292.402†	113898.0	123543.7	0.4928 mg/L	0.4928 mg/L	16:32:44
1	Zn 213.857†	75074.1	79968.0	0.4877 mg/L	0.4877 mg/L	16:32:44
2	Y 371.029	3130853.0	3130853.0	0.926 mg/L		16:32:58
2	Ag 328.068†	47808.5	50894.0	0.2451 mg/L	0.2451 mg/L	16:32:58
2	Al 237.313†	23812.3	26103.6	2.402 mg/L	2.402 mg/L	16:33:08
2	As 188.979†	711.8	767.7	0.4715 mg/L	0.4715 mg/L	16:33:08
2	B 249.677†	1067.9	1168.5	0.4801 mg/L	0.4801 mg/L	16:32:39
2	B 182.528†	537.7	587.7	0.4867 mg/L	0.4867 mg/L	16:33:08
2	Ba 233.527†	59566.3	64416.4	0.4889 mg/L	0.4889 mg/L	16:32:58
2	Be 313.107†	131642.8	143600.5	0.0507 mg/L	0.0507 mg/L	16:32:58
2	Ca 315.887†	461340.7	498943.1	4.476 mg/L	4.476 mg/L	16:32:58
2	Cd 228.802†	9069.5	9647.2	0.2595 mg/L	0.2595 mg/L	16:33:08
2	Co 228.616†	28467.4	30921.3	0.4900 mg/L	0.4900 mg/L	16:33:08
2	Cr 267.716†	57957.3	61880.2	0.4716 mg/L	0.4716 mg/L	16:32:58
2	Cu 324.752†	105524.4	110004.4	0.4715 mg/L	0.4715 mg/L	16:32:58
2	Fe 234.349†	4563.7	4930.3	2.437 mg/L	2.437 mg/L	16:32:39
2	K 766.490†	53446.8	56974.8	24.47 mg/L	24.47 mg/L	16:32:37
2	Li 670.784†	19191.1	20998.0	0.4950 mg/L	0.4950 mg/L	16:32:39
2	Mg 279.077†	65656.3	70617.7	4.584 mg/L	4.584 mg/L	16:32:58
2	Mn 257.610†	434029.0	452675.7	0.4863 mg/L	0.4863 mg/L	16:32:58
2	Mn 294.920†	209941.1	227366.6	0.4848 mg/L	0.4848 mg/L	16:32:58
2	Mo 202.031†	11787.1	12739.9	0.4784 mg/L	0.4784 mg/L	16:33:08
2	Na 589.592†	174677.7	184416.8	24.80 mg/L	24.80 mg/L	16:32:37
2	Ni 231.604†	24073.6	25821.2	0.4807 mg/L	0.4807 mg/L	16:32:58
2	P 214.914†	8352.5	9066.3	4.794 mg/L	4.794 mg/L	16:33:08
2	Pb 220.353†	7815.6	8257.4	0.4859 mg/L	0.4859 mg/L	16:33:08
2	Sb 206.836†	1130.9	1176.5	0.4855 mg/L	0.4855 mg/L	16:33:08
2	Se 196.026†	1593.0	1703.5	0.9475 mg/L	0.9475 mg/L	16:33:08

2	Sn 189.927†	3669.7	3925.6	0.4864 mg/L	0.4864 mg/L	16:33:08
2	Sr 407.771†	53053.4	57049.4	0.0486 mg/L	0.0486 mg/L	16:32:37
2	Ti 337.279†	431954.2	467787.1	0.4823 mg/L	0.4823 mg/L	16:32:58
2	Tl 190.801†	542.5	593.0	0.4430 mg/L	0.4430 mg/L	16:33:08
2	V 292.402†	113875.8	123882.1	0.4941 mg/L	0.4941 mg/L	16:32:58
2	Zn 213.857†	74808.4	79920.0	0.4874 mg/L	0.4874 mg/L	16:32:58

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3135478.6	0.927 mg/L		0.0019			0.21%
Ag 328.068†	50850.3	0.2449 mg/L		0.00030	0.2449 mg/L	0.00030	0.12%
Al 237.313†	26111.3	2.403 mg/L		0.0010	2.403 mg/L	0.0010	0.04%
As 188.979†	769.2	0.4724 mg/L		0.00130	0.4724 mg/L	0.00130	0.27%
B 249.677†	1144.6	0.4704 mg/L		0.01379	0.4704 mg/L	0.01379	2.93%
B 182.528†	589.8	0.4885 mg/L		0.00251	0.4885 mg/L	0.00251	0.51%
Ba 233.527†	64442.0	0.4891 mg/L		0.00027	0.4891 mg/L	0.00027	0.06%
Be 313.107†	143458.5	0.0507 mg/L		0.00007	0.0507 mg/L	0.00007	0.14%
Ca 315.887†	499181.1	4.478 mg/L		0.0030	4.478 mg/L	0.0030	0.07%
Cd 228.802†	9639.1	0.2593 mg/L		0.00031	0.2593 mg/L	0.00031	0.12%
Co 228.616†	30955.9	0.4906 mg/L		0.00078	0.4906 mg/L	0.00078	0.16%
Cr 267.716†	61837.3	0.4712 mg/L		0.00046	0.4712 mg/L	0.00046	0.10%
Cu 324.752†	109902.1	0.4711 mg/L		0.00062	0.4711 mg/L	0.00062	0.13%
Fe 234.349†	4889.9	2.417 mg/L		0.0283	2.417 mg/L	0.0283	1.17%
K 766.490†	57137.3	24.54 mg/L		0.098	24.54 mg/L	0.098	0.40%
Li 670.784†	20810.7	0.4906 mg/L		0.00622	0.4906 mg/L	0.00622	1.27%
Mg 279.077†	70690.7	4.589 mg/L		0.0067	4.589 mg/L	0.0067	0.15%
Mn 257.610†	452369.3	0.4860 mg/L		0.00046	0.4860 mg/L	0.00046	0.09%
Mn 294.920†	227226.3	0.4845 mg/L		0.00042	0.4845 mg/L	0.00042	0.09%
Mo 202.031†	12730.0	0.4780 mg/L		0.00052	0.4780 mg/L	0.00052	0.11%
Na 589.592†	185092.4	24.89 mg/L		0.128	24.89 mg/L	0.128	0.51%
Ni 231.604†	25796.0	0.4802 mg/L		0.00066	0.4802 mg/L	0.00066	0.14%
P 214.914†	9064.9	4.794 mg/L		0.0010	4.794 mg/L	0.0010	0.02%
Pb 220.353†	8259.6	0.4860 mg/L		0.00018	0.4860 mg/L	0.00018	0.04%
Sb 206.836†	1179.1	0.4865 mg/L		0.00153	0.4865 mg/L	0.00153	0.32%
Se 196.026†	1710.7	0.9515 mg/L		0.00566	0.9515 mg/L	0.00566	0.59%
Sn 189.927†	3925.9	0.4865 mg/L		0.00006	0.4865 mg/L	0.00006	0.01%
Sr 407.771†	57321.5	0.0488 mg/L		0.00033	0.0488 mg/L	0.00033	0.67%
Ti 337.279†	467783.3	0.4823 mg/L		0.00001	0.4823 mg/L	0.00001	0.00%
Tl 190.801†	592.4	0.4425 mg/L		0.00065	0.4425 mg/L	0.00065	0.15%
V 292.402†	123712.9	0.4934 mg/L		0.00094	0.4934 mg/L	0.00094	0.19%
Zn 213.857†	79944.0	0.4875 mg/L		0.00022	0.4875 mg/L	0.00022	0.04%

QC value within limits for Zn 213.857 Recovery= 97.50%
 QC Failed. Continue with analysis.

Sequence No.: 36

Sample ID: CCB1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/25/2013 4:34:46 PM

Data Type: Reprocessed on 6/26/2013 10:56:42 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3153045.8	3153045.8	0.933 mg/L		16:36:52
1	Ag 328.068†	597.2	-96.4	0.0002 mg/L	0.0002 mg/L	16:36:55
1	Al 237.313†	-389.0	-29.7	0.0044 mg/L	0.0044 mg/L	16:36:55
1	As 188.979†	-4.8	-6.2	-0.0012 mg/L	-0.0012 mg/L	16:37:05
1	B 249.677†	-3.7	11.2	0.0071 mg/L	0.0071 mg/L	16:36:36
1	B 182.528†	-1.9	4.9	0.0079 mg/L	0.0079 mg/L	16:37:05
1	Ba 233.527†	-91.3	-10.1	0.0005 mg/L	0.0005 mg/L	16:37:05
1	Be 313.107†	-1351.4	-16.4	0.0002 mg/L	0.0002 mg/L	16:36:55
1	Ca 315.887†	-1957.9	-1381.6	-0.0041 mg/L	-0.0041 mg/L	16:36:55
1	Cd 228.802†	146.3	9.5	0.0018 mg/L	0.0018 mg/L	16:37:05
1	Co 228.616†	-157.3	9.3	-0.0019 mg/L	-0.0019 mg/L	16:37:05
1	Cr 267.716†	545.9	-125.5	-0.0004 mg/L	-0.0004 mg/L	16:36:55
1	Cu 324.752†	4087.5	426.5	0.0031 mg/L	0.0031 mg/L	16:36:55
1	Fe 234.349†	1.9	3.7	0.0124 mg/L	0.0124 mg/L	16:36:36
1	K 766.490†	648.0	-50.2	0.1220 mg/L	0.1220 mg/L	16:36:26
1	Li 670.784†	-277.4	-24.8	0.0013 mg/L	0.0013 mg/L	16:36:26
1	Mg 279.077†	269.2	0.8	-0.0019 mg/L	-0.0019 mg/L	16:36:55
1	Mn 257.610†	15578.9	651.8	0.0006 mg/L	0.0006 mg/L	16:36:55
1	Mn 294.920†	-902.1	-326.7	-0.0009 mg/L	-0.0009 mg/L	16:36:55
1	Mo 202.031†	-36.8	-29.0	0.0017 mg/L	0.0017 mg/L	16:37:05
1	Na 589.592†	3315.8	-670.7	-0.0027 mg/L	-0.0027 mg/L	16:36:26
1	Ni 231.604†	171.8	7.0	-0.0004 mg/L	-0.0004 mg/L	16:36:55
1	P 214.914†	-63.3	-21.8	0.0370 mg/L	0.0370 mg/L	16:37:05
1	Pb 220.353†	116.9	-57.8	-0.0014 mg/L	-0.0014 mg/L	16:37:05
1	Sb 206.836†	28.1	-14.6	-0.0016 mg/L	-0.0016 mg/L	16:37:05
1	Se 196.026†	14.0	-1.8	0.0034 mg/L	0.0034 mg/L	16:37:05
1	Sn 189.927†	38.5	3.8	0.0020 mg/L	0.0020 mg/L	16:37:05
1	Sr 407.771†	200.0	-31.2	0.0003 mg/L	0.0003 mg/L	16:36:26
1	Ti 337.279†	-1622.9	-442.4	0.0023 mg/L	0.0023 mg/L	16:36:55
1	Tl 190.801†	-4.1	2.8	0.0017 mg/L	0.0017 mg/L	16:37:05
1	V 292.402†	-1094.9	-272.2	0.0013 mg/L	0.0013 mg/L	16:36:55
1	Zn 213.857†	955.2	154.9	0.0014 mg/L	0.0014 mg/L	16:37:05
2	Y 371.029	3185722.2	3185722.2	0.942 mg/L		16:37:07
2	Ag 328.068†	728.7	36.6	0.0008 mg/L	0.0008 mg/L	16:37:09
2	Al 237.313†	-397.2	-34.2	0.0040 mg/L	0.0040 mg/L	16:37:09
2	As 188.979†	3.4	2.6	0.0042 mg/L	0.0042 mg/L	16:37:20
2	B 249.677†	-12.7	1.7	0.0032 mg/L	0.0032 mg/L	16:36:49
2	B 182.528†	-5.6	1.0	0.0047 mg/L	0.0047 mg/L	16:37:20
2	Ba 233.527†	-75.7	7.4	0.0007 mg/L	0.0007 mg/L	16:37:20
2	Be 313.107†	-1424.3	-78.9	0.0002 mg/L	0.0002 mg/L	16:37:09
2	Ca 315.887†	-1715.7	-1103.0	-0.0016 mg/L	-0.0016 mg/L	16:37:09
2	Cd 228.802†	147.7	9.3	0.0017 mg/L	0.0017 mg/L	16:37:20
2	Co 228.616†	-166.3	1.4	-0.0021 mg/L	-0.0021 mg/L	16:37:20
2	Cr 267.716†	518.2	-160.8	-0.0007 mg/L	-0.0007 mg/L	16:37:09
2	Cu 324.752†	4078.9	372.5	0.0029 mg/L	0.0029 mg/L	16:37:09
2	Fe 234.349†	0.0	1.7	0.0115 mg/L	0.0115 mg/L	16:36:49
2	K 766.490†	656.9	-47.9	0.1230 mg/L	0.1230 mg/L	16:36:39
2	Li 670.784†	-182.3	79.1	0.0038 mg/L	0.0038 mg/L	16:36:39
2	Mg 279.077†	234.9	-38.6	-0.0045 mg/L	-0.0045 mg/L	16:37:09
2	Mn 257.610†	15568.9	469.8	0.0004 mg/L	0.0004 mg/L	16:37:09
2	Mn 294.920†	-812.2	-221.5	-0.0006 mg/L	-0.0006 mg/L	16:37:09
2	Mo 202.031†	-29.8	-21.2	0.0020 mg/L	0.0020 mg/L	16:37:20
2	Na 589.592†	3265.2	-760.9	-0.0148 mg/L	-0.0148 mg/L	16:36:39
2	Ni 231.604†	155.5	-12.1	-0.0007 mg/L	-0.0007 mg/L	16:37:09
2	P 214.914†	-67.9	-26.0	0.0349 mg/L	0.0349 mg/L	16:37:20
2	Pb 220.353†	94.3	-83.0	-0.0029 mg/L	-0.0029 mg/L	16:37:20
2	Sb 206.836†	31.5	-11.3	-0.0003 mg/L	-0.0003 mg/L	16:37:20
2	Se 196.026†	15.5	-0.5	0.0042 mg/L	0.0042 mg/L	16:37:20

2	Sn 189.927†	37.1	1.9	0.0018 mg/L	0.0018 mg/L	16:37:20
2	Sr 407.771†	210.2	-22.5	0.0003 mg/L	0.0003 mg/L	16:36:39
2	Ti 337.279†	-1473.8	-266.3	0.0025 mg/L	0.0025 mg/L	16:37:09
2	Tl 190.801†	-13.4	-7.1	-0.0057 mg/L	-0.0057 mg/L	16:37:20
2	V 292.402†	-881.8	-34.1	0.0022 mg/L	0.0022 mg/L	16:37:09
2	Zn 213.857†	956.2	145.4	0.0014 mg/L	0.0014 mg/L	16:37:20

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3169384.0	0.937 mg/L		0.0068			0.73%
Ag 328.068†	-29.9	0.0005 mg/L		0.00045	0.0005 mg/L	0.00045	89.07%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 237.313†	-31.9	0.0042 mg/L		0.00029	0.0042 mg/L	0.00029	7.00%
QC value within limits for Al 237.313 Recovery = Not calculated							
As 188.979†	-1.8	0.0015 mg/L		0.00382	0.0015 mg/L	0.00382	249.98%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	6.5	0.0052 mg/L		0.00273	0.0052 mg/L	0.00273	52.96%
QC value within limits for B 249.677 Recovery = Not calculated							
B 182.528†	3.0	0.0063 mg/L		0.00227	0.0063 mg/L	0.00227	35.93%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	-1.4	0.0006 mg/L		0.00009	0.0006 mg/L	0.00009	16.03%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-47.7	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	7.96%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	-1242.3	-0.0028 mg/L		0.00177	-0.0028 mg/L	0.00177	62.32%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Cd 228.802†	9.4	0.0018 mg/L		0.00000	0.0018 mg/L	0.00000	0.15%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated							
Co 228.616†	5.3	-0.0020 mg/L		0.00009	-0.0020 mg/L	0.00009	4.46%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-143.1	-0.0006 mg/L		0.00019	-0.0006 mg/L	0.00019	32.66%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	399.5	0.0030 mg/L		0.00016	0.0030 mg/L	0.00016	5.40%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 234.349†	2.7	0.0120 mg/L		0.00070	0.0120 mg/L	0.00070	5.87%
QC value within limits for Fe 234.349 Recovery = Not calculated							
K 766.490†	-49.1	0.1225 mg/L		0.00070	0.1225 mg/L	0.00070	0.57%
QC value within limits for K 766.490 Recovery = Not calculated							
Li 670.784†	27.1	0.0025 mg/L		0.00173	0.0025 mg/L	0.00173	68.11%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	-18.9	-0.0032 mg/L		0.00181	-0.0032 mg/L	0.00181	56.10%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	560.8	0.0005 mg/L		0.00014	0.0005 mg/L	0.00014	25.75%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mn 294.920†	-274.1	-0.0008 mg/L		0.00016	-0.0008 mg/L	0.00016	20.98%
QC value within limits for Mn 294.920 Recovery = Not calculated							
Mo 202.031†	-25.1	0.0018 mg/L		0.00021	0.0018 mg/L	0.00021	11.41%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-715.8	-0.0088 mg/L		0.00855	-0.0088 mg/L	0.00855	97.41%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-2.5	-0.0006 mg/L		0.00025	-0.0006 mg/L	0.00025	43.93%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-23.9	0.0360 mg/L		0.00155	0.0360 mg/L	0.00155	4.31%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated							
Pb 220.353†	-70.4	-0.0022 mg/L		0.00104	-0.0022 mg/L	0.00104	47.68%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-13.0	-0.0009 mg/L		0.00095	-0.0009 mg/L	0.00095	100.77%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-1.1	0.0038 mg/L		0.00052	0.0038 mg/L	0.00052	13.72%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	2.9	0.0019 mg/L		0.00017	0.0019 mg/L	0.00017	8.71%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	-26.8	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	1.87%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	-354.3	0.0024 mg/L		0.00013	0.0024 mg/L	0.00013	5.27%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	-2.1	-0.0020 mg/L		0.00525	-0.0020 mg/L	0.00525	266.55%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-153.2	0.0017 mg/L		0.00066	0.0017 mg/L	0.00066	38.28%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated							
Zn 213.857†	150.2	0.0014 mg/L		0.00004	0.0014 mg/L	0.00004	2.81%

QC value within limits for Zn 213.857 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 37 Autosampler Location: 23
 Sample ID: 1306285-05 Date Collected: 6/25/2013 4:38:57 PM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:56:42 AM
 Logged In Analyst (Original) : ICP3 Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: 1306285-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3045207.0	3045207.0	0.901 mg/L		16:41:05
1	Ag 328.068†	3612.3	3274.1	0.0164 mg/L	0.0164 mg/L	16:41:08
1	Al 237.313†	1452.1	1999.8	0.1904 mg/L	0.1904 mg/L	16:41:18
1	As 188.979†	-0.5	-1.6	0.0017 mg/L	0.0017 mg/L	16:41:18
1	B 249.677†	1492.6	1672.5	0.6851 mg/L	0.6851 mg/L	16:40:49
1	B 182.528†	782.1	875.3	0.7230 mg/L	0.7230 mg/L	16:41:18
1	Ba 233.527†	860.6	1043.3	0.0085 mg/L	0.0085 mg/L	16:41:18
1	Be 313.107†	-1443.6	-170.1	0.0002 mg/L	0.0002 mg/L	16:41:08
1	Ca 315.887†	1019184.3	1132342.9	10.14 mg/L	10.14 mg/L	16:41:05
1	Cd 228.802†	145.0	13.5	0.0019 mg/L	0.0019 mg/L	16:41:18
1	Co 228.616†	-155.4	5.3	-0.0020 mg/L	-0.0020 mg/L	16:41:18
1	Cr 267.716†	994.0	392.9	0.0035 mg/L	0.0035 mg/L	16:41:08
1	Cu 324.752†	12941.9	10413.1	0.0458 mg/L	0.0458 mg/L	16:41:08
1	Fe 234.349†	384.0	428.0	0.2058 mg/L	0.2058 mg/L	16:40:49
1	K 766.490†	9585.6	9898.1	4.370 mg/L	4.370 mg/L	16:40:39
1	Li 670.784†	33.6	309.9	0.0092 mg/L	0.0092 mg/L	16:40:39
1	Mg 279.077†	43250.3	47734.0	3.098 mg/L	3.098 mg/L	16:41:08
1	Mn 257.610†	28052.7	15093.4	0.0161 mg/L	0.0161 mg/L	16:41:08
1	Mn 294.920†	5298.5	6523.6	0.0137 mg/L	0.0137 mg/L	16:41:08
1	Mo 202.031†	28.4	42.0	0.0041 mg/L	0.0041 mg/L	16:41:18
1	Na 589.592†	348267.0	382462.7	51.33 mg/L	51.33 mg/L	16:40:39
1	Ni 231.604†	419.5	288.6	0.0049 mg/L	0.0049 mg/L	16:41:18
1	P 214.914†	1939.4	2199.4	1.201 mg/L	1.201 mg/L	16:41:18
1	Pb 220.353†	136.7	-31.3	0.0000 mg/L	0.0000 mg/L	16:41:18
1	Sb 206.836†	39.1	-1.4	0.0037 mg/L	0.0037 mg/L	16:41:18
1	Se 196.026†	13.6	-1.8	0.0035 mg/L	0.0035 mg/L	16:41:18
1	Sn 189.927†	-110.8	-160.5	-0.0119 mg/L	-0.0119 mg/L	16:41:18
1	Sr 407.771†	40981.1	45256.6	0.0386 mg/L	0.0386 mg/L	16:40:39
1	Ti 337.279†	-1254.1	-94.5	0.0027 mg/L	0.0027 mg/L	16:41:08
1	Tl 190.801†	-3.9	2.8	0.0001 mg/L	0.0001 mg/L	16:41:18
1	V 292.402†	-942.7	-144.8	0.0018 mg/L	0.0018 mg/L	16:41:08
1	Zn 213.857†	4542.0	4173.7	0.0260 mg/L	0.0260 mg/L	16:41:18
2	Y 371.029	3097169.5	3097169.5	0.916 mg/L		16:41:20
2	Ag 328.068†	3636.2	3232.8	0.0162 mg/L	0.0162 mg/L	16:41:22
2	Al 237.313†	1422.6	1940.5	0.1850 mg/L	0.1850 mg/L	16:41:33
2	As 188.979†	-3.6	-4.9	-0.0004 mg/L	-0.0004 mg/L	16:41:33
2	B 249.677†	1515.8	1670.0	0.6841 mg/L	0.6841 mg/L	16:41:01
2	B 182.528†	778.8	857.2	0.7081 mg/L	0.7081 mg/L	16:41:33
2	Ba 233.527†	860.3	1026.9	0.0084 mg/L	0.0084 mg/L	16:41:33
2	Be 313.107†	-1315.7	-3.6	0.0002 mg/L	0.0002 mg/L	16:41:22
2	Ca 315.887†	1035641.6	1131323.5	10.13 mg/L	10.13 mg/L	16:41:20
2	Cd 228.802†	149.2	15.5	0.0019 mg/L	0.0019 mg/L	16:41:33
2	Co 228.616†	-150.6	13.5	-0.0019 mg/L	-0.0019 mg/L	16:41:33
2	Cr 267.716†	922.1	295.8	0.0028 mg/L	0.0028 mg/L	16:41:22
2	Cu 324.752†	12848.1	10069.6	0.0443 mg/L	0.0443 mg/L	16:41:22
2	Fe 234.349†	395.3	433.2	0.2084 mg/L	0.2084 mg/L	16:41:01
2	K 766.490†	9694.2	9838.0	4.345 mg/L	4.345 mg/L	16:40:51
2	Li 670.784†	130.7	415.3	0.0116 mg/L	0.0116 mg/L	16:40:51
2	Mg 279.077†	43224.2	46899.8	3.043 mg/L	3.043 mg/L	16:41:22
2	Mn 257.610†	28044.6	14562.0	0.0156 mg/L	0.0156 mg/L	16:41:22
2	Mn 294.920†	5306.1	6433.2	0.0136 mg/L	0.0136 mg/L	16:41:22
2	Mo 202.031†	50.6	65.7	0.0050 mg/L	0.0050 mg/L	16:41:33
2	Na 589.592†	350918.6	378869.8	50.85 mg/L	50.85 mg/L	16:40:51
2	Ni 231.604†	418.1	279.3	0.0047 mg/L	0.0047 mg/L	16:41:33
2	P 214.914†	1951.7	2176.7	1.189 mg/L	1.189 mg/L	16:41:33
2	Pb 220.353†	173.0	5.7	0.0022 mg/L	0.0022 mg/L	16:41:33
2	Sb 206.836†	35.4	-6.2	0.0018 mg/L	0.0018 mg/L	16:41:33
2	Se 196.026†	15.2	-0.2	0.0043 mg/L	0.0043 mg/L	16:41:33

2	Sn 189.927†	-132.1	-181.7	-0.0145 mg/L	-0.0145 mg/L	16:41:33
2	Sr 407.771†	41429.9	44983.2	0.0384 mg/L	0.0384 mg/L	16:40:51
2	Ti 337.279†	-1317.2	-140.1	0.0026 mg/L	0.0026 mg/L	16:41:22
2	Tl 190.801†	-3.3	3.5	0.0006 mg/L	0.0006 mg/L	16:41:33
2	V 292.402†	-858.1	-34.9	0.0022 mg/L	0.0022 mg/L	16:41:22
2	Zn 213.857†	4566.4	4115.7	0.0257 mg/L	0.0257 mg/L	16:41:33

Mean Data: 1306285-05

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3071188.3	0.908 mg/L	0.0109			1.20%
Ag 328.068†	3253.4	0.0163 mg/L	0.00014	0.0163 mg/L	0.00014	0.86%
Al 237.313†	1970.1	0.1877 mg/L	0.00384	0.1877 mg/L	0.00384	2.05%
As 188.979†	-3.3	0.0006 mg/L	0.00146	0.0006 mg/L	0.00146	225.93%
B 249.677†	1671.3	0.6846 mg/L	0.00073	0.6846 mg/L	0.00073	0.11%
B 182.528†	866.2	0.7156 mg/L	0.01053	0.7156 mg/L	0.01053	1.47%
Ba 233.527†	1035.1	0.0084 mg/L	0.00009	0.0084 mg/L	0.00009	1.04%
Be 313.107†	-86.8	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	22.62%
Ca 315.887†	1131833.2	10.14 mg/L	0.006	10.14 mg/L	0.006	0.06%
Cd 228.802†	14.5	0.0019 mg/L	0.00004	0.0019 mg/L	0.00004	1.94%
Co 228.616†	9.4	-0.0019 mg/L	0.00009	-0.0019 mg/L	0.00009	4.82%
Cr 267.716†	344.3	0.0031 mg/L	0.00052	0.0031 mg/L	0.00052	16.67%
Cu 324.752†	10241.3	0.0451 mg/L	0.00104	0.0451 mg/L	0.00104	2.30%
Fe 234.349†	430.6	0.2071 mg/L	0.00181	0.2071 mg/L	0.00181	0.87%
K 766.490†	9868.0	4.357 mg/L	0.0181	4.357 mg/L	0.0181	0.42%
Li 670.784†	362.6	0.0104 mg/L	0.00175	0.0104 mg/L	0.00175	16.81%
Mg 279.077†	47316.9	3.070 mg/L	0.0383	3.070 mg/L	0.0383	1.25%
Mn 257.610†	14827.7	0.0158 mg/L	0.00040	0.0158 mg/L	0.00040	2.55%
Mn 294.920†	6478.4	0.0136 mg/L	0.00014	0.0136 mg/L	0.00014	1.00%
Mo 202.031†	53.8	0.0045 mg/L	0.00064	0.0045 mg/L	0.00064	14.06%
Na 589.592†	380666.3	51.09 mg/L	0.340	51.09 mg/L	0.340	0.67%
Ni 231.604†	284.0	0.0048 mg/L	0.00012	0.0048 mg/L	0.00012	2.57%
P 214.914†	2188.1	1.195 mg/L	0.0084	1.195 mg/L	0.0084	0.70%
Pb 220.353†	-12.8	0.0011 mg/L	0.00153	0.0011 mg/L	0.00153	136.76%
Sb 206.836†	-3.8	0.0027 mg/L	0.00138	0.0027 mg/L	0.00138	50.51%
Se 196.026†	-1.0	0.0039 mg/L	0.00061	0.0039 mg/L	0.00061	15.64%
Sn 189.927†	-171.1	-0.0132 mg/L	0.00184	-0.0132 mg/L	0.00184	13.97%
Sr 407.771†	45119.9	0.0385 mg/L	0.00016	0.0385 mg/L	0.00016	0.43%
Ti 337.279†	-117.3	0.0027 mg/L	0.00003	0.0027 mg/L	0.00003	1.24%
Tl 190.801†	3.1	0.0004 mg/L	0.00040	0.0004 mg/L	0.00040	110.62%
V 292.402†	-89.9	0.0020 mg/L	0.00031	0.0020 mg/L	0.00031	15.42%
Zn 213.857†	4144.7	0.0258 mg/L	0.00025	0.0258 mg/L	0.00025	0.97%

Sequence No.: 38

Sample ID: CF32127-DUP1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 6/25/2013 4:43:13 PM

Data Type: Reprocessed on 6/26/2013 10:56:43 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32127-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3090798.9	3090798.9	0.914 mg/L		16:45:21
1	Ag 328.068†	3399.7	2982.3	0.0150 mg/L	0.0150 mg/L	16:45:23
1	Al 237.313†	818.8	1283.2	0.1247 mg/L	0.1247 mg/L	16:45:33
1	As 188.979†	1.9	1.0	0.0033 mg/L	0.0033 mg/L	16:45:33
1	B 249.677†	1397.1	1543.6	0.6325 mg/L	0.6325 mg/L	16:45:05
1	B 182.528†	712.0	785.9	0.6496 mg/L	0.6496 mg/L	16:45:33
1	Ba 233.527†	774.8	935.3	0.0077 mg/L	0.0077 mg/L	16:45:33
1	Be 313.107†	-1363.8	-59.1	0.0002 mg/L	0.0002 mg/L	16:45:23
1	Ca 315.887†	956125.5	1046667.5	9.376 mg/L	9.376 mg/L	16:45:21
1	Cd 228.802†	151.0	17.8	0.0020 mg/L	0.0020 mg/L	16:45:33
1	Co 228.616†	-182.6	-21.8	-0.0024 mg/L	-0.0024 mg/L	16:45:33
1	Cr 267.716†	852.5	221.8	0.0022 mg/L	0.0022 mg/L	16:45:23
1	Cu 324.752†	12286.9	9484.5	0.0418 mg/L	0.0418 mg/L	16:45:23
1	Fe 234.349†	351.7	386.4	0.1865 mg/L	0.1865 mg/L	16:45:05
1	K 766.490†	8985.4	9084.4	4.023 mg/L	4.023 mg/L	16:44:55
1	Li 670.784†	153.7	440.7	0.0122 mg/L	0.0122 mg/L	16:44:55
1	Mg 279.077†	40241.4	43734.1	2.838 mg/L	2.838 mg/L	16:45:23

1	Mn 257.610†	27497.4	14026.5	0.0150 mg/L	0.0150 mg/L	16:45:23
1	Mn 294.920†	5160.4	6285.8	0.0132 mg/L	0.0132 mg/L	16:45:23
1	Mo 202.031†	49.1	64.1	0.0049 mg/L	0.0049 mg/L	16:45:33
1	Na 589.592†	324884.0	351179.1	47.14 mg/L	47.14 mg/L	16:44:55
1	Ni 231.604†	360.6	217.3	0.0035 mg/L	0.0035 mg/L	16:45:33
1	P 214.914†	1592.3	1787.9	0.9855 mg/L	0.9855 mg/L	16:45:33
1	Pb 220.353†	147.9	-21.3	0.0006 mg/L	0.0006 mg/L	16:45:33
1	Sb 206.836†	41.2	0.2	0.0044 mg/L	0.0044 mg/L	16:45:33
1	Se 196.026†	19.4	4.4	0.0069 mg/L	0.0069 mg/L	16:45:33
1	Sn 189.927†	-111.9	-159.9	-0.0123 mg/L	-0.0123 mg/L	16:45:33
1	Sr 407.771†	38310.1	41663.6	0.0356 mg/L	0.0356 mg/L	16:44:55
1	Ti 337.279†	-1224.5	-41.7	0.0027 mg/L	0.0027 mg/L	16:45:23
1	Tl 190.801†	-6.3	0.3	-0.0017 mg/L	-0.0017 mg/L	16:45:33
1	V 292.402†	-906.1	-89.4	0.0020 mg/L	0.0020 mg/L	16:45:23
1	Zn 213.857†	4021.2	3529.5	0.0221 mg/L	0.0221 mg/L	16:45:33
2	Y 371.029	3046103.2	3046103.2	0.901 mg/L		16:45:36
2	Ag 328.068†	3379.9	3014.9	0.0151 mg/L	0.0151 mg/L	16:45:38
2	Al 237.313†	810.8	1287.4	0.1251 mg/L	0.1251 mg/L	16:45:48
2	As 188.979†	3.5	2.8	0.0043 mg/L	0.0043 mg/L	16:45:48
2	B 249.677†	1393.1	1561.5	0.6398 mg/L	0.6398 mg/L	16:45:17
2	B 182.528†	728.8	815.9	0.6742 mg/L	0.6742 mg/L	16:45:48
2	Ba 233.527†	774.7	947.7	0.0078 mg/L	0.0078 mg/L	16:45:48
2	Be 313.107†	-1370.9	-88.9	0.0002 mg/L	0.0002 mg/L	16:45:38
2	Ca 315.887†	940734.4	1044930.7	9.360 mg/L	9.360 mg/L	16:45:36
2	Cd 228.802†	148.2	17.0	0.0020 mg/L	0.0020 mg/L	16:45:48
2	Co 228.616†	-150.5	10.8	-0.0019 mg/L	-0.0019 mg/L	16:45:48
2	Cr 267.716†	941.1	333.8	0.0030 mg/L	0.0030 mg/L	16:45:38
2	Cu 324.752†	12250.7	9641.6	0.0425 mg/L	0.0425 mg/L	16:45:38
2	Fe 234.349†	343.5	383.0	0.1848 mg/L	0.1848 mg/L	16:45:17
2	K 766.490†	8875.5	9106.7	4.032 mg/L	4.032 mg/L	16:45:07
2	Li 670.784†	84.7	366.6	0.0105 mg/L	0.0105 mg/L	16:45:07
2	Mg 279.077†	40362.3	44514.2	2.888 mg/L	2.888 mg/L	16:45:38
2	Mn 257.610†	27568.7	14547.0	0.0155 mg/L	0.0155 mg/L	16:45:38
2	Mn 294.920†	5014.0	6206.1	0.0131 mg/L	0.0131 mg/L	16:45:38
2	Mo 202.031†	38.6	53.2	0.0045 mg/L	0.0045 mg/L	16:45:48
2	Na 589.592†	320946.9	352023.8	47.25 mg/L	47.25 mg/L	16:45:07
2	Ni 231.604†	348.4	209.5	0.0034 mg/L	0.0034 mg/L	16:45:48
2	P 214.914†	1602.7	1825.1	1.005 mg/L	1.005 mg/L	16:45:48
2	Pb 220.353†	151.6	-14.9	0.0010 mg/L	0.0010 mg/L	16:45:48
2	Sb 206.836†	38.3	-2.2	0.0034 mg/L	0.0034 mg/L	16:45:48
2	Se 196.026†	12.8	-2.7	0.0030 mg/L	0.0030 mg/L	16:45:48
2	Sn 189.927†	-123.0	-174.0	-0.0140 mg/L	-0.0140 mg/L	16:45:48
2	Sr 407.771†	37790.7	41702.0	0.0356 mg/L	0.0356 mg/L	16:45:07
2	Ti 337.279†	-1115.7	59.5	0.0028 mg/L	0.0028 mg/L	16:45:38
2	Tl 190.801†	1.5	8.8	0.0048 mg/L	0.0048 mg/L	16:45:48
2	V 292.402†	-966.9	-171.4	0.0017 mg/L	0.0017 mg/L	16:45:38
2	Zn 213.857†	4046.5	3622.2	0.0226 mg/L	0.0226 mg/L	16:45:48

Mean Data: CF32127-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3068451.1	0.908 mg/L		0.0093			1.03%
Ag 328.068†	2998.6	0.0151 mg/L		0.00011	0.0151 mg/L	0.00011	0.73%
Al 237.313†	1285.3	0.1249 mg/L		0.00028	0.1249 mg/L	0.00028	0.22%
As 188.979†	1.9	0.0038 mg/L		0.00077	0.0038 mg/L	0.00077	20.29%
B 249.677†	1552.5	0.6361 mg/L		0.00517	0.6361 mg/L	0.00517	0.81%
B 182.528†	800.9	0.6619 mg/L		0.01743	0.6619 mg/L	0.01743	2.63%
Ba 233.527†	941.5	0.0077 mg/L		0.00007	0.0077 mg/L	0.00007	0.85%
Be 313.107†	-74.0	0.0002 mg/L		0.00001	0.0002 mg/L	0.00001	3.92%
Ca 315.887†	1045799.1	9.368 mg/L		0.0110	9.368 mg/L	0.0110	0.12%
Cd 228.802†	17.4	0.0020 mg/L		0.00001	0.0020 mg/L	0.00001	0.73%
Co 228.616†	-5.5	-0.0022 mg/L		0.00037	-0.0022 mg/L	0.00037	17.00%
Cr 267.716†	277.8	0.0026 mg/L		0.00060	0.0026 mg/L	0.00060	22.98%
Cu 324.752†	9563.0	0.0422 mg/L		0.00047	0.0422 mg/L	0.00047	1.13%
Fe 234.349†	384.7	0.1856 mg/L		0.00118	0.1856 mg/L	0.00118	0.64%
K 766.490†	9095.6	4.028 mg/L		0.0067	4.028 mg/L	0.0067	0.17%
Li 670.784†	403.7	0.0114 mg/L		0.00123	0.0114 mg/L	0.00123	10.82%
Mg 279.077†	44124.2	2.863 mg/L		0.0358	2.863 mg/L	0.0358	1.25%
Mn 257.610†	14286.7	0.0153 mg/L		0.00040	0.0153 mg/L	0.00040	2.60%
Mn 294.920†	6245.9	0.0132 mg/L		0.00012	0.0132 mg/L	0.00012	0.91%
Mo 202.031†	58.7	0.0047 mg/L		0.00029	0.0047 mg/L	0.00029	6.17%
Na 589.592†	351601.4	47.20 mg/L		0.080	47.20 mg/L	0.080	0.17%

Ni 231.604†	213.4	0.0035 mg/L	0.00010	0.0035 mg/L	0.00010	2.99%
P 214.914†	1806.5	0.9952 mg/L	0.01378	0.9952 mg/L	0.01378	1.38%
Pb 220.353†	-18.1	0.0008 mg/L	0.00027	0.0008 mg/L	0.00027	32.21%
Sb 206.836†	-1.0	0.0039 mg/L	0.00072	0.0039 mg/L	0.00072	18.58%
Se 196.026†	0.8	0.0049 mg/L	0.00278	0.0049 mg/L	0.00278	56.49%
Sn 189.927†	-166.9	-0.0131 mg/L	0.00123	-0.0131 mg/L	0.00123	9.39%
Sr 407.771†	41682.8	0.0356 mg/L	0.00002	0.0356 mg/L	0.00002	0.06%
Ti 337.279†	8.9	0.0028 mg/L	0.00007	0.0028 mg/L	0.00007	2.62%
Tl 190.801†	4.5	0.0015 mg/L	0.00455	0.0015 mg/L	0.00455	295.41%
V 292.402†	-130.4	0.0019 mg/L	0.00023	0.0019 mg/L	0.00023	12.30%
Zn 213.857†	3575.9	0.0224 mg/L	0.00040	0.0224 mg/L	0.00040	1.80%

Sequence No.: 39
Sample ID: CF32127-MS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 6/25/2013 4:47:25 PM
Data Type: Reprocessed on 6/26/2013 10:56:43 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32127-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	Y 371.029	3037344.4	3037344.4	0.898		mg/L	16:49:17
1	Ag 328.068†	50089.8	55023.1	0.2650	0.2650	mg/L	16:49:17
1	Al 237.313†	25570.2	28852.1	2.654	2.654	mg/L	16:49:17
1	As 188.979†	735.8	818.0	0.5022	0.5022	mg/L	16:49:28
1	B 249.677†	2514.2	2814.0	1.152	1.152	mg/L	16:49:08
1	B 182.528†	1275.2	1426.5	1.176	1.176	mg/L	16:49:28
1	Ba 233.527†	60712.2	67672.4	0.5136	0.5136	mg/L	16:49:17
1	Be 313.107†	135846.2	152656.6	0.0539	0.0539	mg/L	16:49:17
1	Ca 315.887†	1420870.7	1582428.8	14.17	14.17	mg/L	16:49:17
1	Cd 228.802†	9166.5	10056.7	0.2704	0.2704	mg/L	16:49:28
1	Co 228.616†	28844.1	32287.2	0.5118	0.5118	mg/L	16:49:28
1	Cr 267.716†	59302.1	65304.2	0.4976	0.4976	mg/L	16:49:17
1	Cu 324.752†	118889.1	128390.5	0.5501	0.5501	mg/L	16:49:17
1	Fe 234.349†	5083.3	5660.4	2.783	2.783	mg/L	16:49:08
1	K 766.490†	63405.8	69838.1	29.97	29.97	mg/L	16:49:06
1	Li 670.784†	20535.8	23133.0	0.5451	0.5451	mg/L	16:49:08
1	Mg 279.077†	104827.2	116405.6	7.558	7.558	mg/L	16:49:17
1	Mn 257.610†	449672.1	484520.0	0.5205	0.5205	mg/L	16:49:17
1	Mn 294.920†	218252.2	243598.5	0.5194	0.5194	mg/L	16:49:17
1	Mo 202.031†	12020.9	13392.1	0.5024	0.5024	mg/L	16:49:28
1	Na 589.592†	500213.0	552609.8	74.13	74.13	mg/L	16:49:06
1	Ni 231.604†	24344.5	26923.1	0.5012	0.5012	mg/L	16:49:17
1	P 214.914†	10454.8	11684.4	6.166	6.166	mg/L	16:49:28
1	Pb 220.353†	8047.7	8775.5	0.5161	0.5161	mg/L	16:49:28
1	Sb 206.836†	1176.8	1265.2	0.5216	0.5216	mg/L	16:49:28
1	Se 196.026†	1628.2	1795.7	0.9986	0.9986	mg/L	16:49:28
1	Sn 189.927†	3582.4	3950.4	0.4955	0.4955	mg/L	16:49:28
1	Sr 407.771†	91983.6	102150.3	0.0868	0.0868	mg/L	16:49:06
1	Ti 337.279†	436714.4	487447.6	0.5024	0.5024	mg/L	16:49:17
1	Tl 190.801†	527.3	594.1	0.4420	0.4420	mg/L	16:49:28
1	V 292.402†	116332.6	130403.1	0.5200	0.5200	mg/L	16:49:17
1	Zn 213.857†	81289.6	89622.1	0.5467	0.5467	mg/L	16:49:17
2	Y 371.029	3065343.8	3065343.8	0.907		mg/L	16:49:31
2	Ag 328.068†	50412.4	54869.6	0.2642	0.2642	mg/L	16:49:31
2	Al 237.313†	25707.1	28743.1	2.644	2.644	mg/L	16:49:31
2	As 188.979†	732.6	807.0	0.4955	0.4955	mg/L	16:49:42
2	B 249.677†	2516.5	2791.0	1.142	1.142	mg/L	16:49:12
2	B 182.528†	1278.7	1417.4	1.168	1.168	mg/L	16:49:42
2	Ba 233.527†	61478.7	67900.7	0.5153	0.5153	mg/L	16:49:31
2	Be 313.107†	137228.4	152799.8	0.0540	0.0540	mg/L	16:49:31
2	Ca 315.887†	1436684.9	1585424.8	14.20	14.20	mg/L	16:49:31
2	Cd 228.802†	9188.6	9987.9	0.2686	0.2686	mg/L	16:49:42
2	Co 228.616†	28894.7	32049.6	0.5080	0.5080	mg/L	16:49:42
2	Cr 267.716†	59866.9	65324.2	0.4978	0.4978	mg/L	16:49:31
2	Cu 324.752†	120213.8	128642.8	0.5511	0.5511	mg/L	16:49:31
2	Fe 234.349†	5092.1	5618.4	2.762	2.762	mg/L	16:49:12
2	K 766.490†	64234.9	70107.9	30.08	30.08	mg/L	16:49:10
2	Li 670.784†	20756.0	23167.2	0.5459	0.5459	mg/L	16:49:12
2	Mg 279.077†	105897.2	116520.0	7.565	7.565	mg/L	16:49:31

2	Mn 257.610†	454182.6	484922.9	0.5210 mg/L	0.5210 mg/L	16:49:31
2	Mn 294.920†	220451.7	243805.5	0.5199 mg/L	0.5199 mg/L	16:49:31
2	Mo 202.031†	12016.9	13265.4	0.4976 mg/L	0.4976 mg/L	16:49:42
2	Na 589.592†	506472.7	554428.2	74.38 mg/L	74.38 mg/L	16:49:10
2	Ni 231.604†	24594.0	26950.7	0.5017 mg/L	0.5017 mg/L	16:49:31
2	P 214.914†	10469.7	11594.4	6.119 mg/L	6.119 mg/L	16:49:42
2	Pb 220.353†	8017.0	8659.8	0.5094 mg/L	0.5094 mg/L	16:49:42
2	Sb 206.836†	1182.7	1259.8	0.5194 mg/L	0.5194 mg/L	16:49:42
2	Se 196.026†	1636.2	1788.0	0.9943 mg/L	0.9943 mg/L	16:49:42
2	Sn 189.927†	3577.4	3908.5	0.4904 mg/L	0.4904 mg/L	16:49:42
2	Sr 407.771†	93431.8	102812.5	0.0873 mg/L	0.0873 mg/L	16:49:10
2	Ti 337.279†	441138.7	487887.2	0.5029 mg/L	0.5029 mg/L	16:49:31
2	Tl 190.801†	525.5	586.8	0.4365 mg/L	0.4365 mg/L	16:49:42
2	V 292.402†	117378.5	130373.9	0.5198 mg/L	0.5198 mg/L	16:49:31
2	Zn 213.857†	82246.7	89851.2	0.5481 mg/L	0.5481 mg/L	16:49:31

Mean Data: CF32127-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3051344.1	0.902	mg/L	0.0059			0.65%
Ag 328.068†	54946.3	0.2646	mg/L	0.00052	0.2646 mg/L	0.00052	0.20%
Al 237.313†	28797.6	2.649	mg/L	0.0071	2.649 mg/L	0.0071	0.27%
As 188.979†	812.5	0.4989	mg/L	0.00475	0.4989 mg/L	0.00475	0.95%
B 249.677†	2802.5	1.147	mg/L	0.0066	1.147 mg/L	0.0066	0.58%
B 182.528†	1422.0	1.172	mg/L	0.0053	1.172 mg/L	0.0053	0.45%
Ba 233.527†	67786.5	0.5145	mg/L	0.00122	0.5145 mg/L	0.00122	0.24%
Be 313.107†	152728.2	0.0539	mg/L	0.00004	0.0539 mg/L	0.00004	0.07%
Ca 315.887†	1583926.8	14.19	mg/L	0.019	14.19 mg/L	0.019	0.13%
Cd 228.802†	10022.3	0.2695	mg/L	0.00130	0.2695 mg/L	0.00130	0.48%
Co 228.616†	32168.4	0.5099	mg/L	0.00268	0.5099 mg/L	0.00268	0.53%
Cr 267.716†	65314.2	0.4977	mg/L	0.00010	0.4977 mg/L	0.00010	0.02%
Cu 324.752†	128516.6	0.5506	mg/L	0.00076	0.5506 mg/L	0.00076	0.14%
Fe 234.349†	5639.4	2.772	mg/L	0.0147	2.772 mg/L	0.0147	0.53%
K 766.490†	69973.0	30.02	mg/L	0.081	30.02 mg/L	0.081	0.27%
Li 670.784†	23150.1	0.5455	mg/L	0.00057	0.5455 mg/L	0.00057	0.10%
Mg 279.077†	116462.8	7.561	mg/L	0.0053	7.561 mg/L	0.0053	0.07%
Mn 257.610†	484721.4	0.5207	mg/L	0.00031	0.5207 mg/L	0.00031	0.06%
Mn 294.920†	243702.0	0.5197	mg/L	0.00031	0.5197 mg/L	0.00031	0.06%
Mo 202.031†	13328.8	0.5000	mg/L	0.00337	0.5000 mg/L	0.00337	0.67%
Na 589.592†	553519.0	74.25	mg/L	0.172	74.25 mg/L	0.172	0.23%
Ni 231.604†	26936.9	0.5015	mg/L	0.00036	0.5015 mg/L	0.00036	0.07%
P 214.914†	11639.4	6.143	mg/L	0.0333	6.143 mg/L	0.0333	0.54%
Pb 220.353†	8717.7	0.5128	mg/L	0.00479	0.5128 mg/L	0.00479	0.94%
Sb 206.836†	1262.5	0.5205	mg/L	0.00160	0.5205 mg/L	0.00160	0.31%
Se 196.026†	1791.8	0.9964	mg/L	0.00301	0.9964 mg/L	0.00301	0.30%
Sn 189.927†	3929.5	0.4929	mg/L	0.00363	0.4929 mg/L	0.00363	0.74%
Sr 407.771†	102481.4	0.0870	mg/L	0.00040	0.0870 mg/L	0.00040	0.46%
Ti 337.279†	487667.4	0.5027	mg/L	0.00032	0.5027 mg/L	0.00032	0.06%
Tl 190.801†	590.4	0.4393	mg/L	0.00390	0.4393 mg/L	0.00390	0.89%
V 292.402†	130388.5	0.5199	mg/L	0.00013	0.5199 mg/L	0.00013	0.02%
Zn 213.857†	89736.6	0.5474	mg/L	0.00099	0.5474 mg/L	0.00099	0.18%

Sequence No.: 40

Sample ID: CF32127-SD1 @5

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 26

Date Collected: 6/25/2013 4:51:19 PM

Data Type: Reprocessed on 6/26/2013 10:56:44 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32127-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3166078.9	3166078.9	0.936 mg/L		16:53:23
1	Ag 328.068†	1244.0	591.7	0.0035 mg/L	0.0035 mg/L	16:53:26
1	Al 237.313†	-158.0	218.7	0.0272 mg/L	0.0272 mg/L	16:53:36
1	As 188.979†	3.4	2.6	0.0042 mg/L	0.0042 mg/L	16:53:36
1	B 249.677†	303.2	339.0	0.1409 mg/L	0.1409 mg/L	16:53:07
1	B 182.528†	153.6	171.0	0.1444 mg/L	0.1444 mg/L	16:53:36
1	Ba 233.527†	134.3	231.2	0.0023 mg/L	0.0023 mg/L	16:53:36
1	Be 313.107†	-1296.2	48.5	0.0002 mg/L	0.0002 mg/L	16:53:26

1	Ca	315.887†	204018.0	218595.9	1.965	mg/L	1.965	mg/L	16:53:26
1	Cd	228.802†	153.7	16.7	0.0019	mg/L	0.0019	mg/L	16:53:36
1	Co	228.616†	-170.8	-4.5	-0.0021	mg/L	-0.0021	mg/L	16:53:36
1	Cr	267.716†	824.2	169.4	0.0018	mg/L	0.0018	mg/L	16:53:26
1	Cu	324.752†	5937.8	2384.5	0.0115	mg/L	0.0115	mg/L	16:53:26
1	Fe	234.349†	90.6	98.4	0.0561	mg/L	0.0561	mg/L	16:53:07
1	K	766.490†	2374.3	1790.5	0.9080	mg/L	0.9080	mg/L	16:52:57
1	Li	670.784†	-186.5	73.4	0.0036	mg/L	0.0036	mg/L	16:52:57
1	Mg	279.077†	8778.4	9086.9	0.5881	mg/L	0.5881	mg/L	16:53:26
1	Mn	257.610†	19431.2	4697.0	0.0050	mg/L	0.0050	mg/L	16:53:36
1	Mn	294.920†	873.8	1573.7	0.0032	mg/L	0.0032	mg/L	16:53:26
1	Mo	202.031†	11.1	22.3	0.0035	mg/L	0.0035	mg/L	16:53:36
1	Na	589.592†	73308.2	74062.0	10.01	mg/L	10.01	mg/L	16:52:57
1	Ni	231.604†	287.2	129.6	0.0019	mg/L	0.0019	mg/L	16:53:36
1	P	214.914†	310.0	377.1	0.2461	mg/L	0.2461	mg/L	16:53:36
1	Pb	220.353†	165.4	-6.4	0.0015	mg/L	0.0015	mg/L	16:53:36
1	Sb	206.836†	42.2	0.3	0.0045	mg/L	0.0045	mg/L	16:53:36
1	Se	196.026†	17.8	2.1	0.0056	mg/L	0.0056	mg/L	16:53:36
1	Sn	189.927†	5.1	-32.0	-0.0011	mg/L	-0.0011	mg/L	16:53:36
1	Sr	407.771†	8351.3	8673.0	0.0076	mg/L	0.0076	mg/L	16:52:57
1	Ti	337.279†	-1403.7	-201.2	0.0026	mg/L	0.0026	mg/L	16:53:26
1	Tl	190.801†	-1.4	5.6	0.0036	mg/L	0.0036	mg/L	16:53:36
1	V	292.402†	-1018.5	-185.8	0.0016	mg/L	0.0016	mg/L	16:53:26
1	Zn	213.857†	1851.6	1108.0	0.0073	mg/L	0.0073	mg/L	16:53:36
2	Y	371.029	3167979.3	3167979.3	0.937	mg/L			16:53:38
2	Ag	328.068†	1278.7	628.0	0.0037	mg/L	0.0037	mg/L	16:53:40
2	Al	237.313†	-143.4	234.4	0.0286	mg/L	0.0286	mg/L	16:53:51
2	As	188.979†	-3.6	-4.9	-0.0004	mg/L	-0.0004	mg/L	16:53:51
2	B	249.677†	293.6	328.5	0.1366	mg/L	0.1366	mg/L	16:53:20
2	B	182.528†	154.0	171.3	0.1446	mg/L	0.1446	mg/L	16:53:51
2	Ba	233.527†	136.6	233.5	0.0024	mg/L	0.0024	mg/L	16:53:51
2	Be	313.107†	-1314.2	30.2	0.0002	mg/L	0.0002	mg/L	16:53:40
2	Ca	315.887†	204433.3	218908.5	1.968	mg/L	1.968	mg/L	16:53:40
2	Cd	228.802†	149.3	11.9	0.0018	mg/L	0.0018	mg/L	16:53:51
2	Co	228.616†	-166.3	0.4	-0.0021	mg/L	-0.0021	mg/L	16:53:51
2	Cr	267.716†	786.2	128.3	0.0015	mg/L	0.0015	mg/L	16:53:40
2	Cu	324.752†	5867.8	2306.0	0.0112	mg/L	0.0112	mg/L	16:53:40
2	Fe	234.349†	83.0	90.2	0.0520	mg/L	0.0520	mg/L	16:53:20
2	K	766.490†	2413.7	1831.1	0.9253	mg/L	0.9253	mg/L	16:53:10
2	Li	670.784†	-328.5	-78.0	0.0001	mg/L	0.0001	mg/L	16:53:10
2	Mg	279.077†	8850.4	9158.2	0.5927	mg/L	0.5927	mg/L	16:53:40
2	Mn	257.610†	19474.9	4731.3	0.0050	mg/L	0.0050	mg/L	16:53:51
2	Mn	294.920†	884.7	1584.8	0.0032	mg/L	0.0032	mg/L	16:53:40
2	Mo	202.031†	18.4	30.1	0.0038	mg/L	0.0038	mg/L	16:53:51
2	Na	589.592†	73530.1	74251.8	10.04	mg/L	10.04	mg/L	16:53:10
2	Ni	231.604†	295.5	138.2	0.0021	mg/L	0.0021	mg/L	16:53:51
2	P	214.914†	339.2	408.0	0.2623	mg/L	0.2623	mg/L	16:53:51
2	Pb	220.353†	99.3	-77.1	-0.0026	mg/L	-0.0026	mg/L	16:53:51
2	Sb	206.836†	30.9	-11.8	-0.0005	mg/L	-0.0005	mg/L	16:53:51
2	Se	196.026†	14.0	-2.0	0.0034	mg/L	0.0034	mg/L	16:53:51
2	Sn	189.927†	7.4	-29.5	-0.0008	mg/L	-0.0008	mg/L	16:53:51
2	Sr	407.771†	8427.1	8748.6	0.0077	mg/L	0.0077	mg/L	16:53:10
2	Ti	337.279†	-1433.5	-232.0	0.0025	mg/L	0.0025	mg/L	16:53:40
2	Tl	190.801†	-5.0	1.8	0.0007	mg/L	0.0007	mg/L	16:53:51
2	V	292.402†	-941.2	-102.7	0.0020	mg/L	0.0020	mg/L	16:53:40
2	Zn	213.857†	1837.9	1092.2	0.0072	mg/L	0.0072	mg/L	16:53:51

Mean Data: CF32127-SD1 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3167029.1	0.937	mg/L	0.0004				0.04%
Ag 328.068†	609.9	0.0036	mg/L	0.00012	0.0036	mg/L	0.00012	3.43%
Al 237.313†	226.6	0.0279	mg/L	0.00101	0.0279	mg/L	0.00101	3.64%
As 188.979†	-1.2	0.0019	mg/L	0.00325	0.0019	mg/L	0.00325	169.49%
B 249.677†	333.7	0.1387	mg/L	0.00301	0.1387	mg/L	0.00301	2.17%
B 182.528†	171.2	0.1445	mg/L	0.00017	0.1445	mg/L	0.00017	0.12%
Ba 233.527†	232.3	0.0024	mg/L	0.00001	0.0024	mg/L	0.00001	0.53%
Be 313.107†	39.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	2.02%
Ca 315.887†	218752.2	1.966	mg/L	0.0020	1.966	mg/L	0.0020	0.10%
Cd 228.802†	14.3	0.0019	mg/L	0.00009	0.0019	mg/L	0.00009	4.89%
Co 228.616†	-2.1	-0.0021	mg/L	0.00006	-0.0021	mg/L	0.00006	2.63%
Cr 267.716†	148.8	0.0016	mg/L	0.00022	0.0016	mg/L	0.00022	13.47%

Cu 324.752†	2345.3	0.0113 mg/L	0.00024	0.0113 mg/L	0.00024	2.09%
Fe 234.349†	94.3	0.0540 mg/L	0.00287	0.0540 mg/L	0.00287	5.31%
K 766.490†	1810.8	0.9167 mg/L	0.01224	0.9167 mg/L	0.01224	1.34%
Li 670.784†	-2.3	0.0018 mg/L	0.00251	0.0018 mg/L	0.00251	136.49%
Mg 279.077†	9122.6	0.5904 mg/L	0.00327	0.5904 mg/L	0.00327	0.55%
Mn 257.610†	4714.2	0.0050 mg/L	0.00003	0.0050 mg/L	0.00003	0.53%
Mn 294.920†	1579.3	0.0032 mg/L	0.00002	0.0032 mg/L	0.00002	0.52%
Mo 202.031†	26.2	0.0037 mg/L	0.00021	0.0037 mg/L	0.00021	5.67%
Na 589.592†	74156.9	10.02 mg/L	0.018	10.02 mg/L	0.018	0.18%
Ni 231.604†	133.9	0.0020 mg/L	0.00011	0.0020 mg/L	0.00011	5.79%
P 214.914†	392.6	0.2542 mg/L	0.01149	0.2542 mg/L	0.01149	4.52%
Pb 220.353†	-41.8	-0.0005 mg/L	0.00292	-0.0005 mg/L	0.00292	562.15%
Sb 206.836†	-5.8	0.0020 mg/L	0.00350	0.0020 mg/L	0.00350	176.35%
Se 196.026†	0.1	0.0045 mg/L	0.00159	0.0045 mg/L	0.00159	35.60%
Sn 189.927†	-30.8	-0.0010 mg/L	0.00022	-0.0010 mg/L	0.00022	21.96%
Sr 407.771†	8710.8	0.0077 mg/L	0.00005	0.0077 mg/L	0.00005	0.59%
Ti 337.279†	-216.6	0.0026 mg/L	0.00002	0.0026 mg/L	0.00002	0.87%
Tl 190.801†	3.7	0.0021 mg/L	0.00205	0.0021 mg/L	0.00205	97.39%
V 292.402†	-144.2	0.0018 mg/L	0.00023	0.0018 mg/L	0.00023	12.94%
Zn 213.857†	1100.1	0.0072 mg/L	0.00007	0.0072 mg/L	0.00007	0.96%

Sequence No.: 41
Sample ID: CF32127-PDS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 6/25/2013 4:55:28 PM
Data Type: Reprocessed on 6/26/2013 10:56:45 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32127-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3095805.1	3095805.1	0.916 mg/L			16:57:20
1	Ag 328.068†	53224.2	57393.4	0.2764 mg/L		0.2764 mg/L	16:57:20
1	Al 237.313†	27235.8	30133.7	2.772 mg/L		2.772 mg/L	16:57:20
1	As 188.979†	767.9	837.6	0.5142 mg/L		0.5142 mg/L	16:57:30
1	B 249.677†	2605.5	2860.9	1.171 mg/L		1.171 mg/L	16:57:10
1	B 182.528†	1329.4	1458.9	1.202 mg/L		1.202 mg/L	16:57:30
1	Ba 233.527†	65159.3	71253.2	0.5408 mg/L		0.5408 mg/L	16:57:20
1	Be 313.107†	145711.8	160575.8	0.0567 mg/L		0.0567 mg/L	16:57:20
1	Ca 315.887†	1500251.9	1639258.4	14.68 mg/L		14.68 mg/L	16:57:20
1	Cd 228.802†	9712.2	10460.0	0.2812 mg/L		0.2812 mg/L	16:57:30
1	Co 228.616†	30506.0	33495.9	0.5310 mg/L		0.5310 mg/L	16:57:30
1	Cr 267.716†	63538.4	68684.4	0.5234 mg/L		0.5234 mg/L	16:57:20
1	Cu 324.752†	126361.3	134052.2	0.5743 mg/L		0.5743 mg/L	16:57:20
1	Fe 234.349†	5391.8	5890.4	2.895 mg/L		2.895 mg/L	16:57:10
1	K 766.490†	66590.9	71984.0	30.88 mg/L		30.88 mg/L	16:57:08
1	Li 670.784†	21606.6	23870.9	0.5624 mg/L		0.5624 mg/L	16:57:10
1	Mg 279.077†	111399.6	121380.2	7.881 mg/L		7.881 mg/L	16:57:20
1	Mn 257.610†	479972.7	508160.8	0.5459 mg/L		0.5459 mg/L	16:57:20
1	Mn 294.920†	233210.4	255347.6	0.5445 mg/L		0.5445 mg/L	16:57:20
1	Mo 202.031†	12869.3	14066.0	0.5275 mg/L		0.5275 mg/L	16:57:30
1	Na 589.592†	518163.4	561699.5	75.35 mg/L		75.35 mg/L	16:57:08
1	Ni 231.604†	26022.5	28244.1	0.5258 mg/L		0.5258 mg/L	16:57:20
1	P 214.914†	11269.0	12353.8	6.517 mg/L		6.517 mg/L	16:57:30
1	Pb 220.353†	8502.1	9102.7	0.5353 mg/L		0.5353 mg/L	16:57:30
1	Sb 206.836†	1257.2	1328.3	0.5474 mg/L		0.5474 mg/L	16:57:30
1	Se 196.026†	1737.2	1880.5	1.046 mg/L		1.046 mg/L	16:57:30
1	Sn 189.927†	3781.7	4092.9	0.5133 mg/L		0.5133 mg/L	16:57:30
1	Sr 407.771†	96256.9	104883.9	0.0891 mg/L		0.0891 mg/L	16:57:08
1	Ti 337.279†	464578.1	508699.3	0.5242 mg/L		0.5242 mg/L	16:57:20
1	Tl 190.801†	564.1	623.2	0.4637 mg/L		0.4637 mg/L	16:57:30
1	V 292.402†	125541.1	138014.9	0.5501 mg/L		0.5501 mg/L	16:57:20
1	Zn 213.857†	86979.5	94127.6	0.5742 mg/L		0.5742 mg/L	16:57:20
2	Y 371.029	3063828.4	3063828.4	0.906 mg/L			16:57:34
2	Ag 328.068†	52524.3	57227.8	0.2756 mg/L		0.2756 mg/L	16:57:34
2	Al 237.313†	27089.2	30282.4	2.785 mg/L		2.785 mg/L	16:57:34
2	As 188.979†	771.5	850.3	0.5219 mg/L		0.5219 mg/L	16:57:44
2	B 249.677†	2643.5	2932.5	1.200 mg/L		1.200 mg/L	16:57:14
2	B 182.528†	1330.1	1474.8	1.216 mg/L		1.216 mg/L	16:57:44
2	Ba 233.527†	64275.9	71021.1	0.5390 mg/L		0.5390 mg/L	16:57:34
2	Be 313.107†	143560.8	159862.9	0.0565 mg/L		0.0565 mg/L	16:57:34

2	Ca	315.887†	1476359.5	1629992.5	14.60	mg/L	14.60	mg/L	16:57:34
2	Cd	228.802†	9647.5	10499.3	0.2823	mg/L	0.2823	mg/L	16:57:44
2	Co	228.616†	30334.3	33654.1	0.5335	mg/L	0.5335	mg/L	16:57:44
2	Cr	267.716†	62600.6	68373.7	0.5210	mg/L	0.5210	mg/L	16:57:34
2	Cu	324.752†	124514.3	133454.2	0.5717	mg/L	0.5717	mg/L	16:57:34
2	Fe	234.349†	5342.6	5897.6	2.899	mg/L	2.899	mg/L	16:57:14
2	K	766.490†	67648.9	73910.6	31.71	mg/L	31.71	mg/L	16:57:12
2	Li	670.784†	21631.1	24144.1	0.5688	mg/L	0.5688	mg/L	16:57:14
2	Mg	279.077†	109533.9	120591.1	7.829	mg/L	7.829	mg/L	16:57:34
2	Mn	257.610†	473587.7	506585.6	0.5442	mg/L	0.5442	mg/L	16:57:34
2	Mn	294.920†	230089.3	254561.5	0.5428	mg/L	0.5428	mg/L	16:57:34
2	Mo	202.031†	12719.5	14047.4	0.5269	mg/L	0.5269	mg/L	16:57:44
2	Na	589.592†	526787.9	577123.9	77.42	mg/L	77.42	mg/L	16:57:12
2	Ni	231.604†	25600.6	28075.0	0.5227	mg/L	0.5227	mg/L	16:57:34
2	P	214.914†	11180.3	12384.4	6.533	mg/L	6.533	mg/L	16:57:44
2	Pb	220.353†	8404.7	9092.1	0.5347	mg/L	0.5347	mg/L	16:57:44
2	Sb	206.836†	1237.3	1320.7	0.5443	mg/L	0.5443	mg/L	16:57:44
2	Se	196.026†	1725.6	1887.5	1.049	mg/L	1.049	mg/L	16:57:44
2	Sn	189.927†	3793.7	4149.2	0.5202	mg/L	0.5202	mg/L	16:57:44
2	Sr	407.771†	97981.7	107884.6	0.0916	mg/L	0.0916	mg/L	16:57:12
2	Ti	337.279†	457781.7	506494.6	0.5220	mg/L	0.5220	mg/L	16:57:34
2	Tl	190.801†	559.5	624.6	0.4648	mg/L	0.4648	mg/L	16:57:44
2	V	292.402†	123684.7	137397.2	0.5477	mg/L	0.5477	mg/L	16:57:34
2	Zn	213.857†	85775.1	93789.9	0.5721	mg/L	0.5721	mg/L	16:57:34

Mean Data: CF32127-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3079816.8	0.911	mg/L	0.0067				0.73%
Ag 328.068†	57310.6	0.2760	mg/L	0.00056	0.2760	mg/L	0.00056	0.20%
Al 237.313†	30208.1	2.778	mg/L	0.0096	2.778	mg/L	0.0096	0.35%
As 188.979†	844.0	0.5180	mg/L	0.00549	0.5180	mg/L	0.00549	1.06%
B 249.677†	2896.7	1.185	mg/L	0.0207	1.185	mg/L	0.0207	1.74%
B 182.528†	1466.8	1.209	mg/L	0.0093	1.209	mg/L	0.0093	0.77%
Ba 233.527†	71137.1	0.5399	mg/L	0.00124	0.5399	mg/L	0.00124	0.23%
Be 313.107†	160219.4	0.0566	mg/L	0.00018	0.0566	mg/L	0.00018	0.31%
Ca 315.887†	1634625.4	14.64	mg/L	0.059	14.64	mg/L	0.059	0.40%
Cd 228.802†	10479.6	0.2817	mg/L	0.00074	0.2817	mg/L	0.00074	0.26%
Co 228.616†	33575.0	0.5323	mg/L	0.00179	0.5323	mg/L	0.00179	0.34%
Cr 267.716†	68529.0	0.5222	mg/L	0.00167	0.5222	mg/L	0.00167	0.32%
Cu 324.752†	133753.2	0.5730	mg/L	0.00181	0.5730	mg/L	0.00181	0.32%
Fe 234.349†	5894.0	2.897	mg/L	0.0027	2.897	mg/L	0.0027	0.09%
K 766.490†	72947.3	31.29	mg/L	0.582	31.29	mg/L	0.582	1.86%
Li 670.784†	24007.5	0.5656	mg/L	0.00454	0.5656	mg/L	0.00454	0.80%
Mg 279.077†	120985.6	7.855	mg/L	0.0362	7.855	mg/L	0.0362	0.46%
Mn 257.610†	507373.2	0.5451	mg/L	0.00120	0.5451	mg/L	0.00120	0.22%
Mn 294.920†	254954.6	0.5437	mg/L	0.00119	0.5437	mg/L	0.00119	0.22%
Mo 202.031†	14056.7	0.5272	mg/L	0.00049	0.5272	mg/L	0.00049	0.09%
Na 589.592†	569411.7	76.38	mg/L	1.461	76.38	mg/L	1.461	1.91%
Ni 231.604†	28159.5	0.5243	mg/L	0.00223	0.5243	mg/L	0.00223	0.42%
P 214.914†	12369.1	6.525	mg/L	0.0114	6.525	mg/L	0.0114	0.17%
Pb 220.353†	9097.4	0.5350	mg/L	0.00044	0.5350	mg/L	0.00044	0.08%
Sb 206.836†	1324.5	0.5459	mg/L	0.00220	0.5459	mg/L	0.00220	0.40%
Se 196.026†	1884.0	1.047	mg/L	0.0027	1.047	mg/L	0.0027	0.26%
Sn 189.927†	4121.0	0.5167	mg/L	0.00486	0.5167	mg/L	0.00486	0.94%
Sr 407.771†	106384.3	0.0904	mg/L	0.00180	0.0904	mg/L	0.00180	1.99%
Ti 337.279†	507597.0	0.5231	mg/L	0.00160	0.5231	mg/L	0.00160	0.31%
Tl 190.801†	623.9	0.4642	mg/L	0.00079	0.4642	mg/L	0.00079	0.17%
V 292.402†	137706.1	0.5489	mg/L	0.00172	0.5489	mg/L	0.00172	0.31%
Zn 213.857†	93958.7	0.5732	mg/L	0.00145	0.5732	mg/L	0.00145	0.25%

Sequence No.: 42

Sample ID: 1306285-07

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 6/25/2013 4:59:21 PM

Data Type: Reprocessed on 6/26/2013 10:56:45 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306285-07

Net

Corrected

Calib.

Page 150 of 722

Sample Analysis

Repl#	Analyte	Intensity	Intensity	Conc. Units	Conc. Units	Time
1	Y 371.029	8150044.0	8150044.0	2.41 mg/L		17:01:28
1	Ag 328.068†	600.9	-487.5	-0.0017 mg/L	-0.0017 mg/L	17:01:30
1	Al 237.313†	-406.1	218.9	0.0272 mg/L	0.0272 mg/L	17:01:40
1	As 188.979†	-2.6	-2.1	0.0013 mg/L	0.0013 mg/L	17:01:40
1	B 249.677†	1.9	16.0	0.0091 mg/L	0.0091 mg/L	17:01:11
1	B 182.528†	0.1	7.0	0.0096 mg/L	0.0096 mg/L	17:01:40
1	Ba 233.527†	-63.4	61.4	0.0011 mg/L	0.0011 mg/L	17:01:40
1	Be 313.107†	-953.1	1037.4	0.0006 mg/L	0.0006 mg/L	17:01:30
1	Ca 315.887†	162.1	785.2	0.0153 mg/L	0.0153 mg/L	17:01:30
1	Cd 228.802†	139.7	-89.5	-0.0009 mg/L	-0.0009 mg/L	17:01:40
1	Co 228.616†	-177.2	104.4	-0.0004 mg/L	-0.0004 mg/L	17:01:40
1	Cr 267.716†	401.2	-544.4	-0.0036 mg/L	-0.0036 mg/L	17:01:30
1	Cu 324.752†	3033.7	-2698.1	-0.0102 mg/L	-0.0102 mg/L	17:01:30
1	Fe 234.349†	3.7	3.2	0.0122 mg/L	0.0122 mg/L	17:01:11
1	K 766.490†	575.6	-506.3	-0.0728 mg/L	-0.0728 mg/L	17:01:01
1	Li 670.784†	-432.1	93.4	0.0041 mg/L	0.0041 mg/L	17:01:01
1	Mg 279.077†	197.2	-206.0	-0.0154 mg/L	-0.0154 mg/L	17:01:30
1	Mn 257.610†	13580.3	-10420.2	-0.0113 mg/L	-0.0113 mg/L	17:01:40
1	Mn 294.920†	-577.4	401.0	0.0007 mg/L	0.0007 mg/L	17:01:30
1	Mo 202.031†	34.7	24.8	0.0038 mg/L	0.0038 mg/L	17:01:40
1	Na 589.592†	2745.4	-3087.5	-0.3266 mg/L	-0.3266 mg/L	17:01:01
1	Ni 231.604†	189.1	-98.7	-0.0024 mg/L	-0.0024 mg/L	17:01:40
1	P 214.914†	-62.3	20.2	0.0592 mg/L	0.0592 mg/L	17:01:40
1	Pb 220.353†	170.7	-112.3	-0.0046 mg/L	-0.0046 mg/L	17:01:40
1	Sb 206.836†	28.5	-33.0	-0.0091 mg/L	-0.0091 mg/L	17:01:40
1	Se 196.026†	18.5	-9.2	-0.0006 mg/L	-0.0006 mg/L	17:01:40
1	Sn 189.927†	46.2	-18.3	-0.0007 mg/L	-0.0007 mg/L	17:01:40
1	Sr 407.771†	238.9	-146.5	0.0002 mg/L	0.0002 mg/L	17:01:01
1	Ti 337.279†	-854.4	943.4	0.0038 mg/L	0.0038 mg/L	17:01:30
1	Tl 190.801†	-3.0	5.9	0.0041 mg/L	0.0041 mg/L	17:01:40
1	V 292.402†	-904.7	526.5	0.0044 mg/L	0.0044 mg/L	17:01:30
1	Zn 213.857†	1016.0	-447.9	-0.0022 mg/L	-0.0022 mg/L	17:01:40
2	Y 371.029	7970478.5	7970478.5	2.36 mg/L		17:01:43
2	Ag 328.068†	625.5	-471.5	-0.0016 mg/L	-0.0016 mg/L	17:01:45
2	Al 237.313†	-424.5	207.3	0.0261 mg/L	0.0261 mg/L	17:01:55
2	As 188.979†	1.2	-0.5	0.0023 mg/L	0.0023 mg/L	17:01:55
2	B 249.677†	-6.7	12.4	0.0076 mg/L	0.0076 mg/L	17:01:24
2	B 182.528†	-0.2	6.9	0.0095 mg/L	0.0095 mg/L	17:01:55
2	Ba 233.527†	-101.0	44.9	0.0009 mg/L	0.0009 mg/L	17:01:55
2	Be 313.107†	-1040.9	991.2	0.0006 mg/L	0.0006 mg/L	17:01:45
2	Ca 315.887†	286.8	839.6	0.0158 mg/L	0.0158 mg/L	17:01:45
2	Cd 228.802†	146.7	-85.2	-0.0008 mg/L	-0.0008 mg/L	17:01:55
2	Co 228.616†	-199.0	93.5	-0.0006 mg/L	-0.0006 mg/L	17:01:55
2	Cr 267.716†	399.2	-541.5	-0.0036 mg/L	-0.0036 mg/L	17:01:45
2	Cu 324.752†	3124.4	-2631.3	-0.0099 mg/L	-0.0099 mg/L	17:01:45
2	Fe 234.349†	-2.1	0.8	0.0110 mg/L	0.0110 mg/L	17:01:24
2	K 766.490†	621.0	-481.6	-0.0622 mg/L	-0.0622 mg/L	17:01:14
2	Li 670.784†	-456.4	79.0	0.0038 mg/L	0.0038 mg/L	17:01:14
2	Mg 279.077†	227.8	-191.2	-0.0144 mg/L	-0.0144 mg/L	17:01:45
2	Mn 257.610†	13554.5	-10304.2	-0.0112 mg/L	-0.0112 mg/L	17:01:55
2	Mn 294.920†	-688.3	348.6	0.0006 mg/L	0.0006 mg/L	17:01:45
2	Mo 202.031†	16.7	17.5	0.0035 mg/L	0.0035 mg/L	17:01:55
2	Na 589.592†	2656.2	-3099.7	-0.3282 mg/L	-0.3282 mg/L	17:01:14
2	Ni 231.604†	176.7	-102.2	-0.0024 mg/L	-0.0024 mg/L	17:01:55
2	P 214.914†	-71.1	15.9	0.0569 mg/L	0.0569 mg/L	17:01:55
2	Pb 220.353†	166.6	-112.4	-0.0046 mg/L	-0.0046 mg/L	17:01:55
2	Sb 206.836†	28.5	-32.7	-0.0090 mg/L	-0.0090 mg/L	17:01:55
2	Se 196.026†	16.3	-10.0	-0.0011 mg/L	-0.0011 mg/L	17:01:55
2	Sn 189.927†	34.9	-22.7	-0.0012 mg/L	-0.0012 mg/L	17:01:55
2	Sr 407.771†	134.7	-188.5	0.0001 mg/L	0.0001 mg/L	17:01:14
2	Ti 337.279†	-1022.8	864.0	0.0037 mg/L	0.0037 mg/L	17:01:45
2	Tl 190.801†	-8.1	3.7	0.0024 mg/L	0.0024 mg/L	17:01:55
2	V 292.402†	-918.0	512.4	0.0043 mg/L	0.0043 mg/L	17:01:45
2	Zn 213.857†	1045.6	-425.9	-0.0021 mg/L	-0.0021 mg/L	17:01:55

Mean Data: 1306285-07

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	8060261.2	2.38 mg/L	0.038			1.58%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 238.4%						
Ag 328.068†	-479.5	-0.0017 mg/L	0.00005	-0.0017 mg/L	0.00005	3.30%

1	Tl 190.801†	-6.8	-0.2	-0.0016	mg/L	-0.0016	mg/L	17:05:50
1	V 292.402†	-978.1	-139.0	0.0018	mg/L	0.0018	mg/L	17:05:40
1	Zn 213.857†	3789.8	3163.4	0.0198	mg/L	0.0198	mg/L	17:05:50
2	Y 371.029	3191764.8	3191764.8	0.944	mg/L			17:05:53
2	Ag 328.068†	680.7	-15.7	0.0006	mg/L	0.0006	mg/L	17:05:55
2	Al 237.313†	-303.7	65.7	0.0131	mg/L	0.0131	mg/L	17:06:05
2	As 188.979†	5.8	5.1	0.0057	mg/L	0.0057	mg/L	17:06:05
2	B 249.677†	2.0	17.3	0.0096	mg/L	0.0096	mg/L	17:05:34
2	B 182.528†	4.8	12.1	0.0138	mg/L	0.0138	mg/L	17:06:05
2	Ba 233.527†	674.1	801.9	0.0067	mg/L	0.0067	mg/L	17:06:05
2	Be 313.107†	-1309.8	45.2	0.0002	mg/L	0.0002	mg/L	17:05:55
2	Ca 315.887†	707709.4	750423.4	6.725	mg/L	6.725	mg/L	17:05:53
2	Cd 228.802†	149.0	10.4	0.0018	mg/L	0.0018	mg/L	17:06:05
2	Co 228.616†	-170.2	-2.4	-0.0021	mg/L	-0.0021	mg/L	17:06:05
2	Cr 267.716†	629.8	-43.7	0.0002	mg/L	0.0002	mg/L	17:05:55
2	Cu 324.752†	13141.9	9965.1	0.0439	mg/L	0.0439	mg/L	17:05:55
2	Fe 234.349†	339.5	361.4	0.1784	mg/L	0.1784	mg/L	17:05:34
2	K 766.490†	3398.9	2855.5	1.363	mg/L	1.363	mg/L	17:05:24
2	Li 670.784†	-346.2	-94.2	-0.0003	mg/L	-0.0003	mg/L	17:05:24
2	Mg 279.077†	32549.4	34193.1	2.218	mg/L	2.218	mg/L	17:05:55
2	Mn 257.610†	30453.0	16205.8	0.0173	mg/L	0.0173	mg/L	17:05:55
2	Mn 294.920†	6596.3	7628.3	0.0161	mg/L	0.0161	mg/L	17:05:55
2	Mo 202.031†	12.5	23.7	0.0034	mg/L	0.0034	mg/L	17:06:05
2	Na 589.592†	148354.2	152931.2	20.58	mg/L	20.58	mg/L	17:05:24
2	Ni 231.604†	245.7	83.2	0.0010	mg/L	0.0010	mg/L	17:06:05
2	P 214.914†	-41.4	2.2	0.0492	mg/L	0.0492	mg/L	17:06:05
2	Pb 220.353†	115.2	-61.0	-0.0017	mg/L	-0.0017	mg/L	17:06:05
2	Sb 206.836†	35.7	-7.0	0.0015	mg/L	0.0015	mg/L	17:06:05
2	Se 196.026†	12.5	-3.6	0.0024	mg/L	0.0024	mg/L	17:06:05
2	Sn 189.927†	-87.9	-130.6	-0.0103	mg/L	-0.0103	mg/L	17:06:05
2	Sr 407.771†	64290.5	67860.0	0.0577	mg/L	0.0577	mg/L	17:05:24
2	Ti 337.279†	-1745.0	-550.7	0.0022	mg/L	0.0022	mg/L	17:05:55
2	Tl 190.801†	-0.7	6.4	0.0034	mg/L	0.0034	mg/L	17:06:05
2	V 292.402†	-908.5	-60.5	0.0021	mg/L	0.0021	mg/L	17:05:55
2	Zn 213.857†	3817.5	3174.7	0.0199	mg/L	0.0199	mg/L	17:06:05

Mean Data: 1306261-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3184585.1	0.942	mg/L	0.0030				0.32%
Ag 328.068†	-45.8	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	46.89%
Al 237.313†	61.6	0.0127	mg/L	0.00054	0.0127	mg/L	0.00054	4.23%
As 188.979†	3.2	0.0046	mg/L	0.00164	0.0046	mg/L	0.00164	35.78%
B 249.677†	18.4	0.0100	mg/L	0.00063	0.0100	mg/L	0.00063	6.30%
B 182.528†	12.7	0.0144	mg/L	0.00079	0.0144	mg/L	0.00079	5.50%
Ba 233.527†	800.3	0.0067	mg/L	0.00002	0.0067	mg/L	0.00002	0.26%
Be 313.107†	25.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.36%
Ca 315.887†	750670.0	6.727	mg/L	0.0031	6.727	mg/L	0.0031	0.05%
Cd 228.802†	10.7	0.0018	mg/L	0.00001	0.0018	mg/L	0.00001	0.47%
Co 228.616†	-4.9	-0.0022	mg/L	0.00006	-0.0022	mg/L	0.00006	2.63%
Cr 267.716†	22.2	0.0007	mg/L	0.00071	0.0007	mg/L	0.00071	104.64%
Cu 324.752†	10048.6	0.0442	mg/L	0.00051	0.0442	mg/L	0.00051	1.14%
Fe 234.349†	366.6	0.1810	mg/L	0.00364	0.1810	mg/L	0.00364	2.01%
K 766.490†	2867.3	1.368	mg/L	0.0071	1.368	mg/L	0.0071	0.52%
Li 670.784†	-5.4	0.0018	mg/L	0.00295	0.0018	mg/L	0.00295	166.62%
Mg 279.077†	34264.4	2.223	mg/L	0.0066	2.223	mg/L	0.0066	0.29%
Mn 257.610†	16254.7	0.0174	mg/L	0.00007	0.0174	mg/L	0.00007	0.42%
Mn 294.920†	7623.7	0.0161	mg/L	0.00001	0.0161	mg/L	0.00001	0.09%
Mo 202.031†	20.3	0.0033	mg/L	0.00018	0.0033	mg/L	0.00018	5.51%
Na 589.592†	153150.8	20.61	mg/L	0.042	20.61	mg/L	0.042	0.20%
Ni 231.604†	82.1	0.0010	mg/L	0.00003	0.0010	mg/L	0.00003	2.83%
P 214.914†	-2.0	0.0470	mg/L	0.00314	0.0470	mg/L	0.00314	6.68%
Pb 220.353†	-56.0	-0.0014	mg/L	0.00042	-0.0014	mg/L	0.00042	30.51%
Sb 206.836†	-5.3	0.0021	mg/L	0.00094	0.0021	mg/L	0.00094	44.44%
Se 196.026†	-1.3	0.0037	mg/L	0.00181	0.0037	mg/L	0.00181	48.57%
Sn 189.927†	-124.6	-0.0096	mg/L	0.00104	-0.0096	mg/L	0.00104	10.89%
Sr 407.771†	67974.8	0.0578	mg/L	0.00014	0.0578	mg/L	0.00014	0.24%
Ti 337.279†	-334.6	0.0024	mg/L	0.00031	0.0024	mg/L	0.00031	12.83%
Tl 190.801†	3.1	0.0009	mg/L	0.00351	0.0009	mg/L	0.00351	391.36%
V 292.402†	-99.8	0.0020	mg/L	0.00022	0.0020	mg/L	0.00022	11.11%
Zn 213.857†	3169.1	0.0199	mg/L	0.00005	0.0199	mg/L	0.00005	0.25%

Sequence No.: 44
Sample ID: 1306281-03
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 6/25/2013 5:07:44 PM
Data Type: Reprocessed on 6/26/2013 10:56:46 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306281-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	2738234.5	2738234.5	0.810	mg/L			17:09:44
1	Ag 328.068†	-27.2	-770.3	-0.0014	mg/L	-0.0014	mg/L	17:09:44
1	Al 237.313†	2461.4	3426.8	0.3213	mg/L	0.3213	mg/L	17:09:44
1	As 188.979†	28.2	33.8	0.0233	mg/L	0.0233	mg/L	17:09:54
1	B 249.677†	2091.8	2598.2	1.063	mg/L	1.063	mg/L	17:09:31
1	B 182.528†	1115.3	1384.1	1.141	mg/L	1.141	mg/L	17:09:54
1	Ba 233.527†	490296.9	605505.4	4.591	mg/L	4.591	mg/L	17:09:44
1	Be 313.107†	-3127.3	-2428.9	-0.0006	mg/L	-0.0006	mg/L	17:09:44
1	Ca 315.887†	Saturated3	Saturated3					17:09:54
Saturated in preshot (code 3)								
1	Cd 228.802†	156.5	45.8	0.0016	mg/L	0.0016	mg/L	17:09:54
1	Co 228.616†	-47.7	119.0	-0.0002	mg/L	-0.0002	mg/L	17:09:54
1	Cr 267.716†	1363.9	973.3	0.0079	mg/L	0.0079	mg/L	17:09:54
1	Cu 324.752†	6760.6	4391.3	0.0201	mg/L	0.0201	mg/L	17:09:44
1	Fe 234.349†	105704.5	130525.4	64.64	mg/L	64.64	mg/L	17:09:31
1	K 766.490†	921646.6	1137302.3	485.8	mg/L	485.8	mg/L	17:09:29
1	Li 670.784†	2770.0	3693.0	0.0886	mg/L	0.0886	mg/L	17:09:31
1	Mg 279.077†	1012920.3	1250464.2	81.20	mg/L	81.20	mg/L	17:09:44
1	Mn 257.610†	822940.5	1000111.1	1.061	mg/L	1.061	mg/L	17:09:44
1	Mn 294.920†	412533.2	510035.8	1.088	mg/L	1.088	mg/L	17:09:44
1	Mo 202.031†	460.0	578.5	0.0147	mg/L	0.0147	mg/L	17:09:54
1	Na 589.592†	8056398.2	9943798.6	1332	mg/L	1332	mg/L	17:09:27
1	Ni 231.604†	549.3	501.2	0.0088	mg/L	0.0088	mg/L	17:09:54
1	P 214.914†	805.6	1040.8	0.5938	mg/L	0.5938	mg/L	17:09:54
1	Pb 220.353†	-159.4	-379.9	-0.0203	mg/L	-0.0203	mg/L	17:09:54
1	Sb 206.836†	73.0	45.3	-0.0044	mg/L	-0.0044	mg/L	17:09:54
1	Se 196.026†	-19.8	-41.3	-0.0146	mg/L	-0.0146	mg/L	17:09:54
1	Sn 189.927†	-1206.7	-1527.5	-0.1860	mg/L	-0.1860	mg/L	17:09:54
1	Sr 407.771†	5575656.1	6884563.9	5.828	mg/L	5.828	mg/L	17:09:27
1	Ti 337.279†	599.6	2038.3	0.0049	mg/L	0.0049	mg/L	17:09:44
1	Tl 190.801†	42.3	59.3	0.0159	mg/L	0.0159	mg/L	17:09:54
1	V 292.402†	1411.0	2644.1	0.0130	mg/L	0.0130	mg/L	17:09:54
1	Zn 213.857†	5605.4	6052.1	0.0347	mg/L	0.0347	mg/L	17:09:54
2	Y 371.029	2735427.0	2735427.0	0.809	mg/L			17:09:57
2	Ag 328.068†	9.2	-725.4	-0.0012	mg/L	-0.0012	mg/L	17:09:57
2	Al 237.313†	2582.0	3579.0	0.3352	mg/L	0.3352	mg/L	17:09:57
2	As 188.979†	27.0	32.4	0.0224	mg/L	0.0224	mg/L	17:10:08
2	B 249.677†	2104.4	2616.3	1.070	mg/L	1.070	mg/L	17:09:39
2	B 182.528†	1108.1	1376.6	1.135	mg/L	1.135	mg/L	17:10:08
2	Ba 233.527†	488397.6	603779.1	4.578	mg/L	4.578	mg/L	17:09:57
2	Be 313.107†	-3136.5	-2444.1	-0.0006	mg/L	-0.0006	mg/L	17:09:57
2	Ca 315.887†	Saturated3	Saturated3					17:10:08
Saturated in preshot (code 3)								
2	Cd 228.802†	158.2	48.1	0.0017	mg/L	0.0017	mg/L	17:10:08
2	Co 228.616†	-54.7	110.3	-0.0003	mg/L	-0.0003	mg/L	17:10:08
2	Cr 267.716†	1303.9	900.9	0.0074	mg/L	0.0074	mg/L	17:10:08
2	Cu 324.752†	6707.6	4334.3	0.0198	mg/L	0.0198	mg/L	17:09:57
2	Fe 234.349†	104212.2	128814.7	63.79	mg/L	63.79	mg/L	17:09:39
2	K 766.490†	930240.2	1149092.6	490.8	mg/L	490.8	mg/L	17:09:37
2	Li 670.784†	2851.6	3797.4	0.0911	mg/L	0.0911	mg/L	17:09:39
2	Mg 279.077†	1009916.2	1248034.7	81.04	mg/L	81.04	mg/L	17:09:57
2	Mn 257.610†	819850.2	997334.3	1.058	mg/L	1.058	mg/L	17:09:57
2	Mn 294.920†	410827.6	508450.4	1.084	mg/L	1.084	mg/L	17:09:57
2	Mo 202.031†	455.4	573.3	0.0146	mg/L	0.0146	mg/L	17:10:08
2	Na 589.592†	8086870.6	9991674.5	1339	mg/L	1339	mg/L	17:09:34
2	Ni 231.604†	559.1	513.9	0.0091	mg/L	0.0091	mg/L	17:10:08
2	P 214.914†	815.1	1053.6	0.6006	mg/L	0.6006	mg/L	17:10:08
2	Pb 220.353†	-136.2	-351.5	-0.0187	mg/L	-0.0187	mg/L	17:10:08
2	Sb 206.836†	78.6	52.3	-0.0012	mg/L	-0.0012	mg/L	17:10:08
2	Se 196.026†	-25.5	-48.3	-0.0185	mg/L	-0.0185	mg/L	17:10:08
2	Sn 189.927†	-1211.5	-1535.0	-0.1869	mg/L	-0.1869	mg/L	17:10:08

2	Sr 407.771†	5575065.7	6890900.3	5.833 mg/L	5.833 mg/L	17:09:34
2	Ti 337.279†	653.1	2105.2	0.0049 mg/L	0.0049 mg/L	17:09:57
2	Tl 190.801†	41.6	58.6	0.0157 mg/L	0.0157 mg/L	17:10:08
2	V 292.402†	1362.5	2586.0	0.0128 mg/L	0.0128 mg/L	17:10:08
2	Zn 213.857†	5644.0	6107.0	0.0350 mg/L	0.0350 mg/L	17:10:08

Mean Data: 1306281-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2736830.7	0.809 mg/L	0.0006			0.07%
Ag 328.068†	-747.9	-0.0013 mg/L	0.00014	-0.0013 mg/L	0.00014	10.33%
Al 237.313†	3502.9	0.3282 mg/L	0.00987	0.3282 mg/L	0.00987	3.01%
As 188.979†	33.1	0.0229 mg/L	0.00061	0.0229 mg/L	0.00061	2.69%
B 249.677†	2607.2	1.067 mg/L	0.0052	1.067 mg/L	0.0052	0.49%
B 182.528†	1380.4	1.138 mg/L	0.0044	1.138 mg/L	0.0044	0.38%
Ba 233.527†	604642.2	4.584 mg/L	0.0093	4.584 mg/L	0.0093	0.20%
Be 313.107†	-2436.5	-0.0006 mg/L	0.00000	-0.0006 mg/L	0.00000	0.60%
Ca 315.887†	Saturated3					
Cd 228.802†	46.9	0.0017 mg/L	0.00005	0.0017 mg/L	0.00005	3.26%
Co 228.616†	114.7	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	41.02%
Cr 267.716†	937.1	0.0077 mg/L	0.00039	0.0077 mg/L	0.00039	5.09%
Cu 324.752†	4362.8	0.0199 mg/L	0.00017	0.0199 mg/L	0.00017	0.86%
Fe 234.349†	129670.0	64.22 mg/L	0.599	64.22 mg/L	0.599	0.93%
K 766.490†	1143197.5	488.3 mg/L	3.56	488.3 mg/L	3.56	0.73%
Li 670.784†	3745.2	0.0898 mg/L	0.00173	0.0898 mg/L	0.00173	1.93%
Mg 279.077†	1249249.4	81.12 mg/L	0.112	81.12 mg/L	0.112	0.14%
Mn 257.610†	998722.7	1.060 mg/L	0.0020	1.060 mg/L	0.0020	0.19%
Mn 294.920†	509243.1	1.086 mg/L	0.0024	1.086 mg/L	0.0024	0.22%
Mo 202.031†	575.9	0.0147 mg/L	0.00005	0.0147 mg/L	0.00005	0.32%
Na 589.592†	9967736.6	1336 mg/L	4.5	1336 mg/L	4.5	0.34%
Ni 231.604†	507.5	0.0090 mg/L	0.00017	0.0090 mg/L	0.00017	1.87%
P 214.914†	1047.2	0.5972 mg/L	0.00476	0.5972 mg/L	0.00476	0.80%
Pb 220.353†	-365.7	-0.0195 mg/L	0.00117	-0.0195 mg/L	0.00117	6.01%
Sb 206.836†	48.8	-0.0028 mg/L	0.00227	-0.0028 mg/L	0.00227	81.51%
Se 196.026†	-44.8	-0.0166 mg/L	0.00277	-0.0166 mg/L	0.00277	16.73%
Sn 189.927†	-1531.2	-0.1865 mg/L	0.00065	-0.1865 mg/L	0.00065	0.35%
Sr 407.771†	6887732.1	5.831 mg/L	0.0038	5.831 mg/L	0.0038	0.07%
Ti 337.279†	2071.8	0.0049 mg/L	0.00005	0.0049 mg/L	0.00005	0.99%
Tl 190.801†	59.0	0.0158 mg/L	0.00011	0.0158 mg/L	0.00011	0.70%
V 292.402†	2615.0	0.0129 mg/L	0.00016	0.0129 mg/L	0.00016	1.28%
Zn 213.857†	6079.5	0.0348 mg/L	0.00026	0.0348 mg/L	0.00026	0.76%

Sequence No.: 45

Sample ID: CF32007-DUP1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 31

Date Collected: 6/25/2013 5:13:16 PM

Data Type: Reprocessed on 6/26/2013 10:56:47 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32007-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2735321.4	2735321.4	0.809 mg/L		17:15:19
1	Ag 328.068†	-71.0	-824.6	-0.0017 mg/L	-0.0017 mg/L	17:15:19
1	Al 237.313†	2103.2	2987.3	0.2810 mg/L	0.2810 mg/L	17:15:19
1	As 188.979†	27.8	33.3	0.0230 mg/L	0.0230 mg/L	17:15:29
1	B 249.677†	2072.4	2576.9	1.054 mg/L	1.054 mg/L	17:15:06
1	B 182.528†	1116.3	1386.9	1.143 mg/L	1.143 mg/L	17:15:29
1	Ba 233.527†	491209.5	607278.2	4.604 mg/L	4.604 mg/L	17:15:19
1	Be 313.107†	-3145.5	-2455.4	-0.0007 mg/L	-0.0007 mg/L	17:15:19
1	Ca 315.887†	Saturated3	Saturated3			17:15:29
Saturated in preshot (code 3)						
1	Cd 228.802†	152.1	40.6	0.0015 mg/L	0.0015 mg/L	17:15:29
1	Co 228.616†	-49.9	116.3	-0.0002 mg/L	-0.0002 mg/L	17:15:29
1	Cr 267.716†	1331.4	935.0	0.0076 mg/L	0.0076 mg/L	17:15:29
1	Cu 324.752†	6432.8	3994.9	0.0184 mg/L	0.0184 mg/L	17:15:19
1	Fe 234.349†	105138.7	129965.0	64.36 mg/L	64.36 mg/L	17:15:06
1	K 766.490†	924901.7	1142538.0	488.0 mg/L	488.0 mg/L	17:15:04
1	Li 670.784†	2682.9	3589.0	0.0862 mg/L	0.0862 mg/L	17:15:06
1	Mg 279.077†	1021131.1	1261945.7	81.94 mg/L	81.94 mg/L	17:15:19

1	Mn 257.610†	822980.8	1001243.2	1.062 mg/L	1.062 mg/L	17:15:19
1	Mn 294.920†	412197.9	510163.8	1.088 mg/L	1.088 mg/L	17:15:19
1	Mo 202.031†	466.5	587.1	0.0151 mg/L	0.0151 mg/L	17:15:29
1	Na 589.592†	8033878.6	9926556.3	1330 mg/L	1330 mg/L	17:15:01
1	Ni 231.604†	532.6	481.2	0.0085 mg/L	0.0085 mg/L	17:15:29
1	P 214.914†	811.5	1049.2	0.5982 mg/L	0.5982 mg/L	17:15:29
1	Pb 220.353†	-210.6	-443.4	-0.0240 mg/L	-0.0240 mg/L	17:15:29
1	Sb 206.836†	79.0	52.9	-0.0012 mg/L	-0.0012 mg/L	17:15:29
1	Se 196.026†	-14.8	-35.2	-0.0112 mg/L	-0.0112 mg/L	17:15:29
1	Sn 189.927†	-1237.5	-1567.2	-0.1909 mg/L	-0.1909 mg/L	17:15:29
1	Sr 407.771†	5589017.5	6908412.3	5.848 mg/L	5.848 mg/L	17:15:01
1	Ti 337.279†	552.5	1980.9	0.0048 mg/L	0.0048 mg/L	17:15:19
1	Tl 190.801†	38.9	55.2	0.0129 mg/L	0.0129 mg/L	17:15:29
1	V 292.402†	1353.9	2575.5	0.0127 mg/L	0.0127 mg/L	17:15:29
1	Zn 213.857†	6205.6	6801.4	0.0393 mg/L	0.0393 mg/L	17:15:29
2	Y 371.029	2717565.2	2717565.2	0.804 mg/L		17:15:32
2	Ag 328.068†	42.6	-683.8	-0.0010 mg/L	-0.0010 mg/L	17:15:32
2	Al 237.313†	2156.7	3070.8	0.2886 mg/L	0.2886 mg/L	17:15:32
2	As 188.979†	23.7	28.4	0.0200 mg/L	0.0200 mg/L	17:15:42
2	B 249.677†	2106.6	2636.2	1.078 mg/L	1.078 mg/L	17:15:13
2	B 182.528†	1130.8	1413.9	1.166 mg/L	1.166 mg/L	17:15:42
2	Ba 233.527†	488438.4	607797.7	4.608 mg/L	4.608 mg/L	17:15:32
2	Be 313.107†	-3175.5	-2518.2	-0.0007 mg/L	-0.0007 mg/L	17:15:32
2	Ca 315.887†	Saturated3	Saturated3			17:15:42
Saturated in preshot (code 3)						
2	Cd 228.802†	147.9	36.6	0.0014 mg/L	0.0014 mg/L	17:15:42
2	Co 228.616†	-18.5	154.9	0.0004 mg/L	0.0004 mg/L	17:15:42
2	Cr 267.716†	1356.1	976.4	0.0080 mg/L	0.0080 mg/L	17:15:42
2	Cu 324.752†	6399.3	4005.3	0.0184 mg/L	0.0184 mg/L	17:15:32
2	Fe 234.349†	105915.6	131780.8	65.26 mg/L	65.26 mg/L	17:15:13
2	K 766.490†	928265.7	1154193.5	493.0 mg/L	493.0 mg/L	17:15:11
2	Li 670.784†	2776.5	3727.1	0.0894 mg/L	0.0894 mg/L	17:15:13
2	Mg 279.077†	1013817.3	1261093.2	81.89 mg/L	81.89 mg/L	17:15:32
2	Mn 257.610†	818074.0	1001785.0	1.063 mg/L	1.063 mg/L	17:15:32
2	Mn 294.920†	409739.6	510434.3	1.089 mg/L	1.089 mg/L	17:15:32
2	Mo 202.031†	489.3	619.2	0.0162 mg/L	0.0162 mg/L	17:15:42
2	Na 589.592†	8084103.6	10053932.0	1347 mg/L	1347 mg/L	17:15:09
2	Ni 231.604†	545.5	501.5	0.0088 mg/L	0.0088 mg/L	17:15:42
2	P 214.914†	797.4	1038.2	0.5925 mg/L	0.5925 mg/L	17:15:42
2	Pb 220.353†	-147.5	-366.6	-0.0195 mg/L	-0.0195 mg/L	17:15:42
2	Sb 206.836†	67.8	39.5	-0.0070 mg/L	-0.0070 mg/L	17:15:42
2	Se 196.026†	-15.2	-35.7	-0.0115 mg/L	-0.0115 mg/L	17:15:42
2	Sn 189.927†	-1202.9	-1534.1	-0.1868 mg/L	-0.1868 mg/L	17:15:42
2	Sr 407.771†	5665853.2	7049150.6	5.967 mg/L	5.967 mg/L	17:15:09
2	Ti 337.279†	274.0	1638.8	0.0045 mg/L	0.0045 mg/L	17:15:32
2	Tl 190.801†	44.3	62.3	0.0179 mg/L	0.0179 mg/L	17:15:42
2	V 292.402†	1388.2	2629.0	0.0129 mg/L	0.0129 mg/L	17:15:42
2	Zn 213.857†	6206.3	6852.4	0.0396 mg/L	0.0396 mg/L	17:15:42

Mean Data: CF32007-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2726443.3	0.806 mg/L		0.0037			0.46%
Ag 328.068†	-754.2	-0.0013 mg/L		0.00049	-0.0013 mg/L	0.00049	36.65%
Al 237.313†	3029.1	0.2848 mg/L		0.00542	0.2848 mg/L	0.00542	1.90%
As 188.979†	30.9	0.0215 mg/L		0.00213	0.0215 mg/L	0.00213	9.92%
B 249.677†	2606.6	1.066 mg/L		0.0171	1.066 mg/L	0.0171	1.60%
B 182.528†	1400.4	1.154 mg/L		0.0157	1.154 mg/L	0.0157	1.36%
Ba 233.527†	607538.0	4.606 mg/L		0.0028	4.606 mg/L	0.0028	0.06%
Be 313.107†	-2486.8	-0.0007 mg/L		0.00002	-0.0007 mg/L	0.00002	2.35%
Ca 315.887†	Saturated3						
Cd 228.802†	38.6	0.0014 mg/L		0.00009	0.0014 mg/L	0.00009	6.05%
Co 228.616†	135.6	0.0001 mg/L		0.00044	0.0001 mg/L	0.00044	465.15%
Cr 267.716†	955.7	0.0078 mg/L		0.00022	0.0078 mg/L	0.00022	2.87%
Cu 324.752†	4000.1	0.0184 mg/L		0.00003	0.0184 mg/L	0.00003	0.17%
Fe 234.349†	130872.9	64.81 mg/L		0.636	64.81 mg/L	0.636	0.98%
K 766.490†	1148365.8	490.5 mg/L		3.52	490.5 mg/L	3.52	0.72%
Li 670.784†	3658.1	0.0878 mg/L		0.00229	0.0878 mg/L	0.00229	2.61%
Mg 279.077†	1261519.4	81.91 mg/L		0.039	81.91 mg/L	0.039	0.05%
Mn 257.610†	1001514.1	1.063 mg/L		0.0003	1.063 mg/L	0.0003	0.03%
Mn 294.920†	510299.1	1.088 mg/L		0.0004	1.088 mg/L	0.0004	0.04%
Mo 202.031†	603.2	0.0156 mg/L		0.00076	0.0156 mg/L	0.00076	4.84%

Na 589.592†	9990244.2	1339 mg/L	12.1	1339 mg/L	12.1	0.90%
Ni 231.604†	491.3	0.0087 mg/L	0.00027	0.0087 mg/L	0.00027	3.11%
P 214.914†	1043.7	0.5954 mg/L	0.00408	0.5954 mg/L	0.00408	0.69%
Pb 220.353†	-405.0	-0.0218 mg/L	0.00318	-0.0218 mg/L	0.00318	14.60%
Sb 206.836†	46.2	-0.0041 mg/L	0.00414	-0.0041 mg/L	0.00414	100.51%
Se 196.026†	-35.5	-0.0114 mg/L	0.00018	-0.0114 mg/L	0.00018	1.55%
Sn 189.927†	-1550.6	-0.1889 mg/L	0.00288	-0.1889 mg/L	0.00288	1.52%
Sr 407.771†	6978781.4	5.908 mg/L	0.0842	5.908 mg/L	0.0842	1.43%
Ti 337.279†	1809.8	0.0046 mg/L	0.00025	0.0046 mg/L	0.00025	5.34%
Tl 190.801†	58.7	0.0154 mg/L	0.00352	0.0154 mg/L	0.00352	22.84%
V 292.402†	2602.2	0.0128 mg/L	0.00016	0.0128 mg/L	0.00016	1.26%
Zn 213.857†	6826.9	0.0394 mg/L	0.00019	0.0394 mg/L	0.00019	0.48%

Sequence No.: 46
Sample ID: CF32007-MS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 32
Date Collected: 6/25/2013 5:18:51 PM
Data Type: Reprocessed on 6/26/2013 10:56:48 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32007-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2731359.4	2731359.4	0.808 mg/L		17:20:52
1	Ag 328.068†	45970.9	56170.8	0.2720 mg/L	0.2720 mg/L	17:20:52
1	Al 237.313†	26886.2	33670.0	3.096 mg/L	3.096 mg/L	17:20:52
1	As 188.979†	744.6	920.8	0.5650 mg/L	0.5650 mg/L	17:21:02
1	B 249.677†	3037.4	3775.2	1.544 mg/L	1.544 mg/L	17:20:38
1	B 182.528†	1616.4	2007.9	1.654 mg/L	1.654 mg/L	17:21:02
1	Ba 233.527†	535329.4	662775.4	5.025 mg/L	5.025 mg/L	17:20:52
1	Be 313.107†	120713.2	150864.4	0.0533 mg/L	0.0533 mg/L	17:20:52
1	Ca 315.887†	Saturated3	Saturated3			17:21:02
Saturated in preshot (code 3)						
1	Cd 228.802†	8709.7	10634.3	0.2848 mg/L	0.2848 mg/L	17:21:02
1	Co 228.616†	24541.5	30558.0	0.4842 mg/L	0.4842 mg/L	17:21:02
1	Cr 267.716†	54120.2	66284.9	0.5051 mg/L	0.5051 mg/L	17:20:52
1	Cu 324.752†	106220.0	127533.7	0.5464 mg/L	0.5464 mg/L	17:20:52
1	Fe 234.349†	105870.6	131059.5	64.90 mg/L	64.90 mg/L	17:20:38
1	K 766.490†	971637.0	1202050.3	513.5 mg/L	513.5 mg/L	17:20:36
1	Li 670.784†	24539.6	30650.4	0.7216 mg/L	0.7216 mg/L	17:20:38
1	Mg 279.077†	1064386.6	1317322.9	85.54 mg/L	85.54 mg/L	17:20:52
1	Mn 257.610†	1181536.2	1446576.7	1.541 mg/L	1.541 mg/L	17:20:52
1	Mn 294.920†	593593.7	735453.9	1.569 mg/L	1.569 mg/L	17:20:52
1	Mo 202.031†	11710.0	14506.3	0.5349 mg/L	0.5349 mg/L	17:21:02
1	Na 589.592†	8040328.8	9948946.2	1333 mg/L	1333 mg/L	17:20:34
1	Ni 231.604†	20973.3	25785.8	0.4801 mg/L	0.4801 mg/L	17:20:52
1	P 214.914†	9669.2	12015.6	6.340 mg/L	6.340 mg/L	17:21:02
1	Pb 220.353†	6662.1	8063.9	0.4745 mg/L	0.4745 mg/L	17:21:02
1	Sb 206.836†	1168.7	1401.9	0.5515 mg/L	0.5515 mg/L	17:21:02
1	Se 196.026†	1569.2	1925.7	1.074 mg/L	1.074 mg/L	17:21:02
1	Sn 189.927†	2102.7	2565.5	0.3166 mg/L	0.3166 mg/L	17:21:02
1	Sr 407.771†	5494675.7	6801647.4	5.758 mg/L	5.758 mg/L	17:20:34
1	Ti 337.279†	415395.8	515518.9	0.5312 mg/L	0.5312 mg/L	17:20:52
1	Tl 190.801†	498.3	624.0	0.4392 mg/L	0.4392 mg/L	17:21:02
1	V 292.402†	112815.9	140557.4	0.5602 mg/L	0.5602 mg/L	17:20:52
1	Zn 213.857†	74642.5	91531.0	0.5558 mg/L	0.5558 mg/L	17:20:52
2	Y 371.029	2776111.8	2776111.8	0.821 mg/L		17:21:05
2	Ag 328.068†	46509.6	55909.6	0.2708 mg/L	0.2708 mg/L	17:21:05
2	Al 237.313†	27249.4	33575.9	3.087 mg/L	3.087 mg/L	17:21:05
2	As 188.979†	749.9	912.4	0.5599 mg/L	0.5599 mg/L	17:21:16
2	B 249.677†	3070.0	3754.3	1.536 mg/L	1.536 mg/L	17:20:46
2	B 182.528†	1624.0	1984.9	1.635 mg/L	1.635 mg/L	17:21:16
2	Ba 233.527†	542092.4	660329.4	5.007 mg/L	5.007 mg/L	17:21:05
2	Be 313.107†	122376.5	150481.3	0.0531 mg/L	0.0531 mg/L	17:21:05
2	Ca 315.887†	Saturated3	Saturated3			17:21:16
Saturated in preshot (code 3)						
2	Cd 228.802†	8708.9	10459.6	0.2802 mg/L	0.2802 mg/L	17:21:16
2	Co 228.616†	24602.4	30142.4	0.4776 mg/L	0.4776 mg/L	17:21:16
2	Cr 267.716†	54606.8	65797.5	0.5014 mg/L	0.5014 mg/L	17:21:05
2	Cu 324.752†	107478.0	126946.2	0.5439 mg/L	0.5439 mg/L	17:21:05
2	Fe 234.349†	106989.0	130309.0	64.53 mg/L	64.53 mg/L	17:20:46

2	K 766.490†	968667.9	1179044.5	503.6 mg/L	503.6 mg/L	17:20:44
2	Li 670.784†	24946.1	30655.7	0.7218 mg/L	0.7218 mg/L	17:20:46
2	Mg 279.077†	1078674.7	1313484.5	85.29 mg/L	85.29 mg/L	17:21:05
2	Mn 257.610†	1195540.8	1440055.3	1.534 mg/L	1.534 mg/L	17:21:05
2	Mn 294.920†	600576.5	732113.0	1.561 mg/L	1.561 mg/L	17:21:05
2	Mo 202.031†	11711.7	14274.6	0.5263 mg/L	0.5263 mg/L	17:21:16
2	Na 589.592†	7981533.7	9716886.4	1302 mg/L	1302 mg/L	17:20:41
2	Ni 231.604†	21272.8	25732.1	0.4791 mg/L	0.4791 mg/L	17:21:05
2	P 214.914†	9681.0	11837.0	6.246 mg/L	6.246 mg/L	17:21:16
2	Pb 220.353†	6691.9	7967.3	0.4688 mg/L	0.4688 mg/L	17:21:16
2	Sb 206.836†	1171.6	1382.2	0.5436 mg/L	0.5436 mg/L	17:21:16
2	Se 196.026†	1571.6	1897.2	1.058 mg/L	1.058 mg/L	17:21:16
2	Sn 189.927†	2081.0	2497.1	0.3082 mg/L	0.3082 mg/L	17:21:16
2	Sr 407.771†	5481709.5	6676205.1	5.652 mg/L	5.652 mg/L	17:20:41
2	Ti 337.279†	420480.8	513422.6	0.5291 mg/L	0.5291 mg/L	17:21:05
2	Tl 190.801†	492.6	607.1	0.4267 mg/L	0.4267 mg/L	17:21:16
2	V 292.402†	114349.1	140173.4	0.5586 mg/L	0.5586 mg/L	17:21:05
2	Zn 213.857†	75530.0	91122.3	0.5533 mg/L	0.5533 mg/L	17:21:05

Mean Data: CF32007-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2753735.6	0.814 mg/L	0.0094			1.15%
Ag 328.068†	56040.2	0.2714 mg/L	0.00089	0.2714 mg/L	0.00089	0.33%
Al 237.313†	33622.9	3.091 mg/L	0.0061	3.091 mg/L	0.0061	0.20%
As 188.979†	916.6	0.5624 mg/L	0.00364	0.5624 mg/L	0.00364	0.65%
B 249.677†	3764.7	1.540 mg/L	0.0060	1.540 mg/L	0.0060	0.39%
B 182.528†	1996.4	1.644 mg/L	0.0134	1.644 mg/L	0.0134	0.81%
Ba 233.527†	661552.4	5.016 mg/L	0.0131	5.016 mg/L	0.0131	0.26%
Be 313.107†	150672.9	0.0532 mg/L	0.00010	0.0532 mg/L	0.00010	0.18%
Ca 315.887†	Saturated3					
Cd 228.802†	10546.9	0.2825 mg/L	0.00330	0.2825 mg/L	0.00330	1.17%
Co 228.616†	30350.2	0.4809 mg/L	0.00469	0.4809 mg/L	0.00469	0.97%
Cr 267.716†	66041.2	0.5033 mg/L	0.00263	0.5033 mg/L	0.00263	0.52%
Cu 324.752†	127239.9	0.5452 mg/L	0.00177	0.5452 mg/L	0.00177	0.33%
Fe 234.349†	130684.2	64.71 mg/L	0.263	64.71 mg/L	0.263	0.41%
K 766.490†	1190547.4	508.5 mg/L	6.95	508.5 mg/L	6.95	1.37%
Li 670.784†	30653.0	0.7217 mg/L	0.00009	0.7217 mg/L	0.00009	0.01%
Mg 279.077†	1315403.7	85.41 mg/L	0.176	85.41 mg/L	0.176	0.21%
Mn 257.610†	1443316.0	1.538 mg/L	0.0049	1.538 mg/L	0.0049	0.32%
Mn 294.920†	733783.4	1.565 mg/L	0.0050	1.565 mg/L	0.0050	0.32%
Mo 202.031†	14390.5	0.5306 mg/L	0.00610	0.5306 mg/L	0.00610	1.15%
Na 589.592†	9832916.3	1318 mg/L	22.0	1318 mg/L	22.0	1.67%
Ni 231.604†	25759.0	0.4796 mg/L	0.00072	0.4796 mg/L	0.00072	0.15%
P 214.914†	11926.3	6.293 mg/L	0.0661	6.293 mg/L	0.0661	1.05%
Pb 220.353†	8015.6	0.4717 mg/L	0.00402	0.4717 mg/L	0.00402	0.85%
Sb 206.836†	1392.0	0.5475 mg/L	0.00563	0.5475 mg/L	0.00563	1.03%
Se 196.026†	1911.4	1.066 mg/L	0.0112	1.066 mg/L	0.0112	1.05%
Sn 189.927†	2531.3	0.3124 mg/L	0.00594	0.3124 mg/L	0.00594	1.90%
Sr 407.771†	6738926.3	5.705 mg/L	0.0751	5.705 mg/L	0.0751	1.32%
Ti 337.279†	514470.8	0.5301 mg/L	0.00152	0.5301 mg/L	0.00152	0.29%
Tl 190.801†	615.5	0.4330 mg/L	0.00887	0.4330 mg/L	0.00887	2.05%
V 292.402†	140365.4	0.5594 mg/L	0.00115	0.5594 mg/L	0.00115	0.21%
Zn 213.857†	91326.7	0.5546 mg/L	0.00176	0.5546 mg/L	0.00176	0.32%

Sequence No.: 47

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/25/2013 5:24:24 PM

Data Type: Reprocessed on 6/26/2013 10:56:48 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3228325.5	3228325.5	0.955 mg/L		17:26:16
1	Ag 328.068†	49284.6	50881.1	0.2451 mg/L	0.2451 mg/L	17:26:16
1	Al 237.313†	24575.7	26126.6	2.404 mg/L	2.404 mg/L	17:26:26
1	As 188.979†	736.5	770.3	0.4731 mg/L	0.4731 mg/L	17:26:26
1	B 249.677†	1029.6	1093.6	0.4496 mg/L	0.4496 mg/L	17:26:06

1	B	182.528†	557.6	591.0	0.4894	mg/L	0.4894	mg/L	17:26:26
1	Ba	233.527†	62044.6	65069.7	0.4939	mg/L	0.4939	mg/L	17:26:16
1	Be	313.107†	135938.3	143806.9	0.0508	mg/L	0.0508	mg/L	17:26:16
1	Ca	315.887†	484402.9	508054.4	4.557	mg/L	4.557	mg/L	17:26:16
1	Cd	228.802†	9319.8	9613.6	0.2586	mg/L	0.2586	mg/L	17:26:26
1	Co	228.616†	29470.5	31043.7	0.4920	mg/L	0.4920	mg/L	17:26:26
1	Cr	267.716†	60161.7	62299.2	0.4748	mg/L	0.4748	mg/L	17:26:16
1	Cu	324.752†	108272.1	109441.4	0.4691	mg/L	0.4691	mg/L	17:26:16
1	Fe	234.349†	4448.3	4660.6	2.304	mg/L	2.304	mg/L	17:26:06
1	K	766.490†	54574.0	56412.6	24.23	mg/L	24.23	mg/L	17:26:04
1	Li	670.784†	18831.7	19995.9	0.4714	mg/L	0.4714	mg/L	17:26:06
1	Mg	279.077†	68660.1	71622.8	4.650	mg/L	4.650	mg/L	17:26:16
1	Mn	257.610†	449871.2	455115.6	0.4890	mg/L	0.4890	mg/L	17:26:16
1	Mn	294.920†	217595.6	228538.0	0.4873	mg/L	0.4873	mg/L	17:26:16
1	Mo	202.031†	12175.8	12762.7	0.4793	mg/L	0.4793	mg/L	17:26:26
1	Na	589.592†	185698.0	190263.1	25.58	mg/L	25.58	mg/L	17:26:04
1	Ni	231.604†	25140.9	26154.0	0.4869	mg/L	0.4869	mg/L	17:26:16
1	P	214.914†	8613.5	9067.3	4.795	mg/L	4.795	mg/L	17:26:26
1	Pb	220.353†	8105.0	8305.6	0.4887	mg/L	0.4887	mg/L	17:26:26
1	Sb	206.836†	1166.3	1176.7	0.4856	mg/L	0.4856	mg/L	17:26:26
1	Se	196.026†	1638.9	1699.6	0.9454	mg/L	0.9454	mg/L	17:26:26
1	Sn	189.927†	3834.4	3978.5	0.4930	mg/L	0.4930	mg/L	17:26:26
1	Sr	407.771†	52639.8	54886.3	0.0468	mg/L	0.0468	mg/L	17:26:04
1	Ti	337.279†	447364.4	469842.2	0.4844	mg/L	0.4844	mg/L	17:26:16
1	Tl	190.801†	563.7	597.5	0.4464	mg/L	0.4464	mg/L	17:26:26
1	V	292.402†	118041.6	124532.0	0.4967	mg/L	0.4967	mg/L	17:26:16
1	Zn	213.857†	77392.9	80187.6	0.4890	mg/L	0.4890	mg/L	17:26:16
2	Y	371.029	3184282.7	3184282.7	0.942	mg/L			17:26:30
2	Ag	328.068†	48631.2	50901.2	0.2452	mg/L	0.2452	mg/L	17:26:30
2	Al	237.313†	24509.6	26412.5	2.430	mg/L	2.430	mg/L	17:26:40
2	As	188.979†	747.7	792.9	0.4869	mg/L	0.4869	mg/L	17:26:40
2	B	249.677†	1018.4	1096.6	0.4508	mg/L	0.4508	mg/L	17:26:10
2	B	182.528†	551.2	592.2	0.4905	mg/L	0.4905	mg/L	17:26:40
2	Ba	233.527†	61258.7	65134.1	0.4944	mg/L	0.4944	mg/L	17:26:30
2	Be	313.107†	134365.1	144105.6	0.0509	mg/L	0.0509	mg/L	17:26:30
2	Ca	315.887†	477988.0	508259.9	4.559	mg/L	4.559	mg/L	17:26:30
2	Cd	228.802†	9311.2	9739.4	0.2620	mg/L	0.2620	mg/L	17:26:40
2	Co	228.616†	29371.2	31365.1	0.4971	mg/L	0.4971	mg/L	17:26:40
2	Cr	267.716†	59290.0	62245.0	0.4744	mg/L	0.4744	mg/L	17:26:30
2	Cu	324.752†	106917.0	109571.0	0.4697	mg/L	0.4697	mg/L	17:26:30
2	Fe	234.349†	4544.1	4826.7	2.386	mg/L	2.386	mg/L	17:26:10
2	K	766.490†	54771.9	57413.4	24.66	mg/L	24.66	mg/L	17:26:08
2	Li	670.784†	18918.4	20360.8	0.4800	mg/L	0.4800	mg/L	17:26:10
2	Mg	279.077†	67858.4	71766.2	4.659	mg/L	4.659	mg/L	17:26:30
2	Mn	257.610†	444940.7	456397.2	0.4904	mg/L	0.4904	mg/L	17:26:30
2	Mn	294.920†	215196.0	229142.2	0.4886	mg/L	0.4886	mg/L	17:26:30
2	Mo	202.031†	12142.3	12903.5	0.4845	mg/L	0.4845	mg/L	17:26:40
2	Na	589.592†	186523.5	193829.8	26.06	mg/L	26.06	mg/L	17:26:08
2	Ni	231.604†	24706.6	26057.0	0.4851	mg/L	0.4851	mg/L	17:26:30
2	P	214.914†	8610.8	9189.2	4.859	mg/L	4.859	mg/L	17:26:40
2	Pb	220.353†	8011.2	8323.5	0.4897	mg/L	0.4897	mg/L	17:26:40
2	Sb	206.836†	1155.9	1182.6	0.4880	mg/L	0.4880	mg/L	17:26:40
2	Se	196.026†	1640.2	1724.8	0.9593	mg/L	0.9593	mg/L	17:26:40
2	Sn	189.927†	3796.9	3994.2	0.4949	mg/L	0.4949	mg/L	17:26:40
2	Sr	407.771†	53076.9	56113.0	0.0478	mg/L	0.0478	mg/L	17:26:08
2	Ti	337.279†	441937.8	470560.7	0.4851	mg/L	0.4851	mg/L	17:26:30
2	Tl	190.801†	550.1	591.2	0.4416	mg/L	0.4416	mg/L	17:26:40
2	V	292.402†	116638.4	124752.0	0.4976	mg/L	0.4976	mg/L	17:26:30
2	Zn	213.857†	76417.3	80272.7	0.4895	mg/L	0.4895	mg/L	17:26:30

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3206304.1	0.948 mg/L	0.0092			0.97%
Ag 328.068†	50891.2	0.2451 mg/L	0.00007	0.2451 mg/L	0.00007	0.03%
QC value within limits for Ag 328.068 Recovery = 98.05%						
Al 237.313†	26269.5	2.417 mg/L	0.0185	2.417 mg/L	0.0185	0.77%
QC value within limits for Al 237.313 Recovery = 96.69%						
As 188.979†	781.6	0.4800 mg/L	0.00976	0.4800 mg/L	0.00976	2.03%
QC value within limits for As 188.979 Recovery = 95.99%						
B 249.677†	1095.1	0.4502 mg/L	0.00086	0.4502 mg/L	0.00086	0.19%
QC value within limits for B 249.677 Recovery = 90.03%						

B	182.528†	591.6	0.4900 mg/L	0.00072	0.4900 mg/L	0.00072	0.15%
	QC value within limits for B	182.528	Recovery = 97.99%				
Ba	233.527†	65101.9	0.4941 mg/L	0.00035	0.4941 mg/L	0.00035	0.07%
	QC value within limits for Ba	233.527	Recovery = 98.83%				
Be	313.107†	143956.3	0.0509 mg/L	0.00007	0.0509 mg/L	0.00007	0.15%
	QC value within limits for Be	313.107	Recovery = 101.72%				
Ca	315.887†	508157.1	4.558 mg/L	0.0013	4.558 mg/L	0.0013	0.03%
	QC value within limits for Ca	315.887	Recovery = 91.16%				
Cd	228.802†	9676.5	0.2603 mg/L	0.00238	0.2603 mg/L	0.00238	0.91%
	QC value within limits for Cd	228.802	Recovery = 104.11%				
Co	228.616†	31204.4	0.4945 mg/L	0.00362	0.4945 mg/L	0.00362	0.73%
	QC value within limits for Co	228.616	Recovery = 98.91%				
Cr	267.716†	62272.1	0.4746 mg/L	0.00029	0.4746 mg/L	0.00029	0.06%
	QC value within limits for Cr	267.716	Recovery = 94.91%				
Cu	324.752†	109506.2	0.4694 mg/L	0.00039	0.4694 mg/L	0.00039	0.08%
	QC value within limits for Cu	324.752	Recovery = 93.88%				
Fe	234.349†	4743.7	2.345 mg/L	0.0582	2.345 mg/L	0.0582	2.48%
	QC value within limits for Fe	234.349	Recovery = 93.79%				
K	766.490†	56913.0	24.45 mg/L	0.302	24.45 mg/L	0.302	1.24%
	QC value within limits for K	766.490	Recovery = 97.79%				
Li	670.784†	20178.3	0.4757 mg/L	0.00606	0.4757 mg/L	0.00606	1.27%
	QC value within limits for Li	670.784	Recovery = 95.14%				
Mg	279.077†	71694.5	4.654 mg/L	0.0066	4.654 mg/L	0.0066	0.14%
	QC value within limits for Mg	279.077	Recovery = 93.08%				
Mn	257.610†	455756.4	0.4897 mg/L	0.00096	0.4897 mg/L	0.00096	0.20%
	QC value within limits for Mn	257.610	Recovery = 97.94%				
Mn	294.920†	228840.1	0.4880 mg/L	0.00091	0.4880 mg/L	0.00091	0.19%
	QC value within limits for Mn	294.920	Recovery = 97.59%				
Mo	202.031†	12833.1	0.4819 mg/L	0.00373	0.4819 mg/L	0.00373	0.77%
	QC value within limits for Mo	202.031	Recovery = 96.38%				
Na	589.592†	192046.5	25.82 mg/L	0.338	25.82 mg/L	0.338	1.31%
	QC value within limits for Na	589.592	Recovery = 103.28%				
Ni	231.604†	26105.5	0.4860 mg/L	0.00127	0.4860 mg/L	0.00127	0.26%
	QC value within limits for Ni	231.604	Recovery = 97.19%				
P	214.914†	9128.3	4.827 mg/L	0.0452	4.827 mg/L	0.0452	0.94%
	QC value within limits for P	214.914	Recovery = 96.54%				
Pb	220.353†	8314.5	0.4892 mg/L	0.00075	0.4892 mg/L	0.00075	0.15%
	QC value within limits for Pb	220.353	Recovery = 97.84%				
Sb	206.836†	1179.7	0.4868 mg/L	0.00172	0.4868 mg/L	0.00172	0.35%
	QC value within limits for Sb	206.836	Recovery = 97.36%				
Se	196.026†	1712.2	0.9523 mg/L	0.00985	0.9523 mg/L	0.00985	1.03%
	QC value within limits for Se	196.026	Recovery = 95.23%				
Sn	189.927†	3986.3	0.4939 mg/L	0.00136	0.4939 mg/L	0.00136	0.28%
	QC value within limits for Sn	189.927	Recovery = 98.79%				
Sr	407.771†	55499.7	0.0473 mg/L	0.00073	0.0473 mg/L	0.00073	1.55%
	QC value within limits for Sr	407.771	Recovery = 94.56%				
Ti	337.279†	470201.4	0.4848 mg/L	0.00052	0.4848 mg/L	0.00052	0.11%
	QC value within limits for Ti	337.279	Recovery = 96.95%				
Tl	190.801†	594.4	0.4440 mg/L	0.00335	0.4440 mg/L	0.00335	0.76%
	QC value less than the lower limit for Tl	190.801	Recovery = 88.80%				
V	292.402†	124642.0	0.4971 mg/L	0.00066	0.4971 mg/L	0.00066	0.13%
	QC value within limits for V	292.402	Recovery = 99.42%				
Zn	213.857†	80230.2	0.4892 mg/L	0.00038	0.4892 mg/L	0.00038	0.08%
	QC value within limits for Zn	213.857	Recovery = 97.85%				
QC Failed. Continue with analysis.							

Sequence No.: 48
Sample ID: CCB1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/25/2013 5:28:18 PM
Data Type: Reprocessed on 6/26/2013 10:56:49 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3205826.8	3205826.8	0.948 mg/L		17:30:24
1	Ag 328.068†	720.8	23.5	0.0008 mg/L	0.0008 mg/L	17:30:27
1	Al 237.313†	-325.7	43.9	0.0111 mg/L	0.0111 mg/L	17:30:27
1	As 188.979†	3.1	2.2	0.0040 mg/L	0.0040 mg/L	17:30:37
1	B 249.677†	-10.0	4.7	0.0044 mg/L	0.0044 mg/L	17:30:08

1	B 182.528†	-0.7	6.2	0.0090 mg/L	0.0090 mg/L	17:30:37
1	Ba 233.527†	-79.5	3.8	0.0006 mg/L	0.0006 mg/L	17:30:37
1	Be 313.107†	-1347.9	11.1	0.0002 mg/L	0.0002 mg/L	17:30:27
1	Ca 315.887†	-1587.2	-956.1	-0.0003 mg/L	-0.0003 mg/L	17:30:27
1	Cd 228.802†	149.0	9.7	0.0018 mg/L	0.0018 mg/L	17:30:37
1	Co 228.616†	-158.2	11.0	-0.0019 mg/L	-0.0019 mg/L	17:30:37
1	Cr 267.716†	537.5	-143.9	-0.0006 mg/L	-0.0006 mg/L	17:30:27
1	Cu 324.752†	4232.0	506.8	0.0035 mg/L	0.0035 mg/L	17:30:27
1	Fe 234.349†	-5.5	-4.2	0.0085 mg/L	0.0085 mg/L	17:30:08
1	K 766.490†	1420.4	753.0	0.4650 mg/L	0.4650 mg/L	17:29:58
1	Li 670.784†	-169.6	93.7	0.0041 mg/L	0.0041 mg/L	17:29:58
1	Mg 279.077†	229.3	-46.0	-0.0050 mg/L	-0.0050 mg/L	17:30:27
1	Mn 257.610†	15911.7	727.8	0.0007 mg/L	0.0007 mg/L	17:30:27
1	Mn 294.920†	-907.3	-316.3	-0.0008 mg/L	-0.0008 mg/L	17:30:27
1	Mo 202.031†	0.8	11.2	0.0032 mg/L	0.0032 mg/L	17:30:37
1	Na 589.592†	12125.6	8562.3	1.234 mg/L	1.234 mg/L	17:29:58
1	Ni 231.604†	203.0	37.0	0.0002 mg/L	0.0002 mg/L	17:30:27
1	P 214.914†	-46.6	-3.1	0.0468 mg/L	0.0468 mg/L	17:30:37
1	Pb 220.353†	131.1	-44.8	-0.0007 mg/L	-0.0007 mg/L	17:30:37
1	Sb 206.836†	32.1	-11.0	-0.0001 mg/L	-0.0001 mg/L	17:30:37
1	Se 196.026†	17.6	1.7	0.0054 mg/L	0.0054 mg/L	17:30:37
1	Sn 189.927†	36.2	0.7	0.0017 mg/L	0.0017 mg/L	17:30:37
1	Sr 407.771†	230.0	-3.0	0.0003 mg/L	0.0003 mg/L	17:29:58
1	Ti 337.279†	-1537.8	-324.1	0.0025 mg/L	0.0025 mg/L	17:30:27
1	Tl 190.801†	-7.6	-0.9	-0.0011 mg/L	-0.0011 mg/L	17:30:37
1	V 292.402†	-1051.6	-207.3	0.0015 mg/L	0.0015 mg/L	17:30:27
1	Zn 213.857†	941.1	123.2	0.0012 mg/L	0.0012 mg/L	17:30:37
2	Y 371.029	3189149.2	3189149.2	0.943 mg/L		17:30:39
2	Ag 328.068†	794.2	105.2	0.0012 mg/L	0.0012 mg/L	17:30:41
2	Al 237.313†	-512.3	-155.7	-0.0072 mg/L	-0.0072 mg/L	17:30:41
2	As 188.979†	-2.2	-3.4	0.0006 mg/L	0.0006 mg/L	17:30:52
2	B 249.677†	-6.4	8.4	0.0060 mg/L	0.0060 mg/L	17:30:21
2	B 182.528†	0.8	7.9	0.0103 mg/L	0.0103 mg/L	17:30:52
2	Ba 233.527†	-71.4	12.0	0.0007 mg/L	0.0007 mg/L	17:30:52
2	Be 313.107†	-1397.8	-49.1	0.0002 mg/L	0.0002 mg/L	17:30:41
2	Ca 315.887†	-1739.7	-1126.5	-0.0018 mg/L	-0.0018 mg/L	17:30:41
2	Cd 228.802†	143.8	5.0	0.0016 mg/L	0.0016 mg/L	17:30:52
2	Co 228.616†	-158.8	9.6	-0.0019 mg/L	-0.0019 mg/L	17:30:52
2	Cr 267.716†	612.9	-61.0	0.0000 mg/L	0.0000 mg/L	17:30:41
2	Cu 324.752†	4055.0	342.4	0.0028 mg/L	0.0028 mg/L	17:30:41
2	Fe 234.349†	-4.3	-2.9	0.0092 mg/L	0.0092 mg/L	17:30:21
2	K 766.490†	1506.8	852.5	0.5075 mg/L	0.5075 mg/L	17:30:11
2	Li 670.784†	-134.0	130.6	0.0050 mg/L	0.0050 mg/L	17:30:11
2	Mg 279.077†	280.3	9.3	-0.0014 mg/L	-0.0014 mg/L	17:30:41
2	Mn 257.610†	15951.9	858.1	0.0009 mg/L	0.0009 mg/L	17:30:41
2	Mn 294.920†	-818.6	-227.3	-0.0007 mg/L	-0.0007 mg/L	17:30:41
2	Mo 202.031†	-19.8	-10.6	0.0024 mg/L	0.0024 mg/L	17:30:52
2	Na 589.592†	12221.7	8731.1	1.257 mg/L	1.257 mg/L	17:30:11
2	Ni 231.604†	191.9	26.3	0.0000 mg/L	0.0000 mg/L	17:30:41
2	P 214.914†	-56.6	-14.0	0.0411 mg/L	0.0411 mg/L	17:30:52
2	Pb 220.353†	103.4	-73.5	-0.0024 mg/L	-0.0024 mg/L	17:30:52
2	Sb 206.836†	40.3	-2.1	0.0035 mg/L	0.0035 mg/L	17:30:52
2	Se 196.026†	13.8	-2.2	0.0032 mg/L	0.0032 mg/L	17:30:52
2	Sn 189.927†	32.6	-2.9	0.0012 mg/L	0.0012 mg/L	17:30:52
2	Sr 407.771†	193.2	-40.8	0.0003 mg/L	0.0003 mg/L	17:30:11
2	Ti 337.279†	-1632.0	-432.4	0.0023 mg/L	0.0023 mg/L	17:30:41
2	Tl 190.801†	-7.3	-0.6	-0.0008 mg/L	-0.0008 mg/L	17:30:52
2	V 292.402†	-1024.3	-184.1	0.0016 mg/L	0.0016 mg/L	17:30:41
2	Zn 213.857†	968.3	157.1	0.0014 mg/L	0.0014 mg/L	17:30:52

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3197488.0	0.946 mg/L	0.0035			0.37%
Ag 328.068†	64.4	0.0010 mg/L	0.00028	0.0010 mg/L	0.00028	28.93%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-55.9	0.0020 mg/L	0.01294	0.0020 mg/L	0.01294	656.53%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-0.6	0.0023 mg/L	0.00243	0.0023 mg/L	0.00243	107.11%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	6.6	0.0052 mg/L	0.00108	0.0052 mg/L	0.00108	20.72%
QC value within limits for B 249.677 Recovery = Not calculated						

B	182.528†	7.0	0.0097 mg/L	0.00095	0.0097 mg/L	0.00095	9.85%
	QC value within limits for B 182.528 Recovery = Not calculated						
Ba	233.527†	7.9	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	6.67%
	QC value within limits for Ba 233.527 Recovery = Not calculated						
Be	313.107†	-19.0	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	7.23%
	QC value within limits for Be 313.107 Recovery = Not calculated						
Ca	315.887†	-1041.3	-0.0010 mg/L	0.00108	-0.0010 mg/L	0.00108	103.26%
	QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd	228.802†	7.4	0.0017 mg/L	0.00009	0.0017 mg/L	0.00009	5.26%
	QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co	228.616†	10.3	-0.0019 mg/L	0.00002	-0.0019 mg/L	0.00002	0.87%
	QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr	267.716†	-102.5	-0.0003 mg/L	0.00045	-0.0003 mg/L	0.00045	163.96%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	424.6	0.0031 mg/L	0.00050	0.0031 mg/L	0.00050	15.85%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	234.349†	-3.5	0.0088 mg/L	0.00044	0.0088 mg/L	0.00044	5.01%
	QC value within limits for Fe 234.349 Recovery = Not calculated						
K	766.490†	802.8	0.4862 mg/L	0.03003	0.4862 mg/L	0.03003	6.18%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li	670.784†	112.1	0.0045 mg/L	0.00061	0.0045 mg/L	0.00061	13.50%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	-18.3	-0.0032 mg/L	0.00254	-0.0032 mg/L	0.00254	79.65%
	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn	257.610†	792.9	0.0008 mg/L	0.00010	0.0008 mg/L	0.00010	12.58%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	-271.8	-0.0008 mg/L	0.00013	-0.0008 mg/L	0.00013	17.86%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	0.3	0.0028 mg/L	0.00058	0.0028 mg/L	0.00058	20.72%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	8646.7	1.246 mg/L	0.0160	1.246 mg/L	0.0160	1.28%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	31.7	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	214.02%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-8.6	0.0440 mg/L	0.00402	0.0440 mg/L	0.00402	9.13%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	-59.2	-0.0015 mg/L	0.00118	-0.0015 mg/L	0.00118	77.40%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	-6.5	0.0017 mg/L	0.00255	0.0017 mg/L	0.00255	150.29%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	-0.2	0.0043 mg/L	0.00154	0.0043 mg/L	0.00154	35.63%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	-1.1	0.0014 mg/L	0.00032	0.0014 mg/L	0.00032	21.99%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	-21.9	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	8.08%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-378.2	0.0024 mg/L	0.00008	0.0024 mg/L	0.00008	3.28%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	-0.8	-0.0009 mg/L	0.00017	-0.0009 mg/L	0.00017	18.25%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	-195.7	0.0016 mg/L	0.00006	0.0016 mg/L	0.00006	3.67%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	140.2	0.0013 mg/L	0.00015	0.0013 mg/L	0.00015	11.16%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

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Sequence No.: 49                               Autosampler Location: 33
Sample ID: CF32007-SD1 @5                     Date Collected: 6/25/2013 5:32:29 PM
Analyst:                                       Data Type: Reprocessed on 6/26/2013 10:56:49 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
=====

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Replicate Data: CF32007-SD1 @5							
Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time	
1	Y 371.029	3012774.7	3012774.7	0.891 mg/L		17:34:43	
1	Ag 328.068†	466.9	-212.8	0.0000 mg/L	0.0000 mg/L	17:34:46	
1	Al 237.313†	263.0	682.6	0.0697 mg/L	0.0697 mg/L	17:34:46	
1	As 188.979†	8.3	8.3	0.0077 mg/L	0.0077 mg/L	17:34:56	
1	B 249.677†	450.9	521.2	0.2152 mg/L	0.2152 mg/L	17:34:23	

1	B	182.528†	236.2	272.0	0.2274	mg/L	0.2274	mg/L	17:34:56
1	Ba	233.527†	110930.5	124582.4	0.9451	mg/L	0.9451	mg/L	17:34:46
1	Be	313.107†	-1803.7	-591.4	0.0000	mg/L	0.0000	mg/L	17:34:46
1	Ca	315.887†	15583020.3	17489177.5	156.5	mg/L	156.5	mg/L	17:34:41
1	Cd	228.802†	154.0	25.4	0.0020	mg/L	0.0020	mg/L	17:34:56
1	Co	228.616†	-112.7	51.4	-0.0012	mg/L	-0.0012	mg/L	17:34:56
1	Cr	267.716†	829.0	219.6	0.0022	mg/L	0.0022	mg/L	17:34:46
1	Cu	324.752†	4806.5	1437.5	0.0074	mg/L	0.0074	mg/L	17:34:46
1	Fe	234.349†	23507.7	26383.8	12.82	mg/L	12.82	mg/L	17:34:23
1	K	766.490†	179584.1	200798.0	85.89	mg/L	85.89	mg/L	17:34:13
1	Li	670.784†	391.7	712.2	0.0186	mg/L	0.0186	mg/L	17:34:13
1	Mg	279.077†	233668.7	261953.1	17.01	mg/L	17.01	mg/L	17:34:46
1	Mn	257.610†	200910.7	209423.1	0.2223	mg/L	0.2223	mg/L	17:34:46
1	Mn	294.920†	93811.7	105923.3	0.2258	mg/L	0.2258	mg/L	17:34:46
1	Mo	202.031†	287.6	333.2	0.0133	mg/L	0.0133	mg/L	17:34:56
1	Na	589.592†	1722434.8	1928821.9	258.5	mg/L	258.5	mg/L	17:34:13
1	Ni	231.604†	324.3	186.8	0.0030	mg/L	0.0030	mg/L	17:34:56
1	P	214.914†	154.6	219.5	0.1634	mg/L	0.1634	mg/L	17:34:56
1	Pb	220.353†	24.5	-155.6	-0.0072	mg/L	-0.0072	mg/L	17:34:56
1	Sb	206.836†	50.6	12.0	0.0038	mg/L	0.0038	mg/L	17:34:56
1	Se	196.026†	-1.1	-18.1	-0.0048	mg/L	-0.0048	mg/L	17:34:56
1	Sn	189.927†	-735.3	-862.7	-0.0076	mg/L	-0.0076	mg/L	17:34:56
1	Sr	407.771†	1185073.4	1329734.5	1.126	mg/L	1.126	mg/L	17:34:13
1	Ti	337.279†	-976.6	201.9	0.0030	mg/L	0.0030	mg/L	17:34:46
1	Tl	190.801†	29.5	40.2	0.0001	mg/L	0.0001	mg/L	17:34:56
1	V	292.402†	-361.5	496.2	0.0045	mg/L	0.0045	mg/L	17:34:46
1	Zn	213.857†	1508.9	824.0	0.0049	mg/L	0.0049	mg/L	17:34:56
2	Y	371.029	3049475.6	3049475.6	0.902	mg/L			17:35:02
2	Ag	328.068†	583.8	-89.5	0.0005	mg/L	0.0005	mg/L	17:35:04
2	Al	237.313†	222.8	634.5	0.0653	mg/L	0.0653	mg/L	17:35:04
2	As	188.979†	9.5	9.5	0.0084	mg/L	0.0084	mg/L	17:35:15
2	B	249.677†	449.6	513.7	0.2122	mg/L	0.2122	mg/L	17:34:36
2	B	182.528†	242.3	275.6	0.2303	mg/L	0.2303	mg/L	17:35:15
2	Ba	233.527†	110843.1	122987.3	0.9330	mg/L	0.9330	mg/L	17:35:04
2	Be	313.107†	-1810.1	-574.2	0.0000	mg/L	0.0000	mg/L	17:35:04
2	Ca	315.887†	15460018.1	17142320.4	153.4	mg/L	153.4	mg/L	17:35:00
2	Cd	228.802†	154.0	23.3	0.0019	mg/L	0.0019	mg/L	17:35:15
2	Co	228.616†	-95.5	72.0	-0.0009	mg/L	-0.0009	mg/L	17:35:15
2	Cr	267.716†	802.2	178.6	0.0019	mg/L	0.0019	mg/L	17:35:04
2	Cu	324.752†	4894.1	1469.8	0.0076	mg/L	0.0076	mg/L	17:35:04
2	Fe	234.349†	23507.2	26065.7	12.66	mg/L	12.66	mg/L	17:34:36
2	K	766.490†	180331.3	199200.9	85.21	mg/L	85.21	mg/L	17:34:26
2	Li	670.784†	258.8	559.5	0.0150	mg/L	0.0150	mg/L	17:34:26
2	Mg	279.077†	233727.2	258861.8	16.81	mg/L	16.81	mg/L	17:35:04
2	Mn	257.610†	200918.4	206718.0	0.2194	mg/L	0.2194	mg/L	17:35:04
2	Mn	294.920†	93823.9	104669.7	0.2231	mg/L	0.2231	mg/L	17:35:04
2	Mo	202.031†	293.3	335.7	0.0134	mg/L	0.0134	mg/L	17:35:15
2	Na	589.592†	1728697.6	1912501.4	256.3	mg/L	256.3	mg/L	17:34:26
2	Ni	231.604†	303.1	158.9	0.0025	mg/L	0.0025	mg/L	17:35:15
2	P	214.914†	152.9	215.6	0.1614	mg/L	0.1614	mg/L	17:35:15
2	Pb	220.353†	9.5	-172.6	-0.0081	mg/L	-0.0081	mg/L	17:35:15
2	Sb	206.836†	45.2	5.3	0.0012	mg/L	0.0012	mg/L	17:35:15
2	Se	196.026†	-4.4	-21.8	-0.0068	mg/L	-0.0068	mg/L	17:35:15
2	Sn	189.927†	-763.6	-884.2	-0.0121	mg/L	-0.0121	mg/L	17:35:15
2	Sr	407.771†	1188573.5	1317608.8	1.116	mg/L	1.116	mg/L	17:34:26
2	Ti	337.279†	-1060.0	122.6	0.0029	mg/L	0.0029	mg/L	17:35:04
2	Tl	190.801†	31.0	41.4	0.0016	mg/L	0.0016	mg/L	17:35:15
2	V	292.402†	-561.9	278.9	0.0036	mg/L	0.0036	mg/L	17:35:04
2	Zn	213.857†	1501.7	795.6	0.0048	mg/L	0.0048	mg/L	17:35:15

Mean Data: CF32007-SD1 @5

Analyte	Mean Corrected Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3031125.2	0.896	mg/L	0.0077				0.86%
Ag 328.068†	-151.1	0.0003	mg/L	0.00042	0.0003	mg/L	0.00042	166.08%
Al 237.313†	658.6	0.0675	mg/L	0.00312	0.0675	mg/L	0.00312	4.62%
As 188.979†	8.9	0.0081	mg/L	0.00053	0.0081	mg/L	0.00053	6.60%
B 249.677†	517.4	0.2137	mg/L	0.00218	0.2137	mg/L	0.00218	1.02%
B 182.528†	273.8	0.2288	mg/L	0.00208	0.2288	mg/L	0.00208	0.91%
Ba 233.527†	123784.8	0.9390	mg/L	0.00855	0.9390	mg/L	0.00855	0.91%
Be 313.107†	-582.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	53.38%
Ca 315.887†	17315748.9	155.0	mg/L	2.20	155.0	mg/L	2.20	1.42%

Cd 228.802†	24.3	0.0019 mg/L	0.00004	0.0019 mg/L	0.00004	2.01%
Co 228.616†	61.7	-0.0011 mg/L	0.00023	-0.0011 mg/L	0.00023	21.34%
Cr 267.716†	199.1	0.0020 mg/L	0.00022	0.0020 mg/L	0.00022	10.85%
Cu 324.752†	1453.6	0.0075 mg/L	0.00010	0.0075 mg/L	0.00010	1.29%
Fe 234.349†	26224.7	12.74 mg/L	0.108	12.74 mg/L	0.108	0.85%
K 766.490†	199999.4	85.55 mg/L	0.482	85.55 mg/L	0.482	0.56%
Li 670.784†	635.9	0.0168 mg/L	0.00254	0.0168 mg/L	0.00254	15.07%
Mg 279.077†	260407.5	16.91 mg/L	0.142	16.91 mg/L	0.142	0.84%
Mn 257.610†	208070.6	0.2208 mg/L	0.00203	0.2208 mg/L	0.00203	0.92%
Mn 294.920†	105296.5	0.2244 mg/L	0.00189	0.2244 mg/L	0.00189	0.84%
Mo 202.031†	334.4	0.0134 mg/L	0.00008	0.0134 mg/L	0.00008	0.61%
Na 589.592†	1920661.6	257.4 mg/L	1.55	257.4 mg/L	1.55	0.60%
Ni 231.604†	172.8	0.0027 mg/L	0.00037	0.0027 mg/L	0.00037	13.52%
P 214.914†	217.6	0.1624 mg/L	0.00148	0.1624 mg/L	0.00148	0.91%
Pb 220.353†	-164.1	-0.0076 mg/L	0.00070	-0.0076 mg/L	0.00070	9.19%
Sb 206.836†	8.6	0.0025 mg/L	0.00190	0.0025 mg/L	0.00190	75.97%
Se 196.026†	-19.9	-0.0058 mg/L	0.00144	-0.0058 mg/L	0.00144	24.69%
Sn 189.927†	-873.4	-0.0098 mg/L	0.00322	-0.0098 mg/L	0.00322	32.72%
Sr 407.771†	1323671.7	1.121 mg/L	0.0073	1.121 mg/L	0.0073	0.65%
Ti 337.279†	162.3	0.0030 mg/L	0.00006	0.0030 mg/L	0.00006	1.95%
Tl 190.801†	40.8	0.0009 mg/L	0.00106	0.0009 mg/L	0.00106	121.23%
V 292.402†	387.5	0.0040 mg/L	0.00060	0.0040 mg/L	0.00060	14.88%
Zn 213.857†	809.8	0.0048 mg/L	0.00012	0.0048 mg/L	0.00012	2.39%

Sequence No.: 50
Sample ID: CF32007-PDS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 6/25/2013 5:36:53 PM
Data Type: Reprocessed on 6/26/2013 10:56:50 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32007-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2809447.9	2809447.9	0.831 mg/L			17:38:53
1	Ag 328.068†	49037.3	58279.6	0.2822 mg/L		0.2822 mg/L	17:38:53
1	Al 237.313†	28734.1	34968.9	3.215 mg/L		3.215 mg/L	17:38:53
1	As 188.979†	791.0	950.9	0.5834 mg/L		0.5834 mg/L	17:39:03
1	B 249.677†	3162.0	3820.7	1.563 mg/L		1.563 mg/L	17:38:40
1	B 182.528†	1657.4	2001.6	1.648 mg/L		1.648 mg/L	17:39:03
1	Ba 233.527†	554248.0	667124.4	5.058 mg/L		5.058 mg/L	17:38:53
1	Be 313.107†	128790.0	156431.4	0.0552 mg/L		0.0552 mg/L	17:38:53
1	Ca 315.887†	Saturated3	Saturated3				17:39:03
	Saturated in preshot (code 3)						
1	Cd 228.802†	9143.0	10856.2	0.2908 mg/L		0.2908 mg/L	17:39:03
1	Co 228.616†	25851.8	31290.5	0.4958 mg/L		0.4958 mg/L	17:39:03
1	Cr 267.716†	57564.9	68568.4	0.5225 mg/L		0.5225 mg/L	17:38:53
1	Cu 324.752†	113111.6	132172.9	0.5662 mg/L		0.5662 mg/L	17:38:53
1	Fe 234.349†	109846.8	132202.1	65.46 mg/L		65.46 mg/L	17:38:40
1	K 766.490†	996444.5	1198474.5	511.9 mg/L		511.9 mg/L	17:38:38
1	Li 670.784†	25873.1	31410.8	0.7395 mg/L		0.7395 mg/L	17:38:40
1	Mg 279.077†	1106198.7	1331020.7	86.43 mg/L		86.43 mg/L	17:38:53
1	Mn 257.610†	1232825.3	1467649.3	1.564 mg/L		1.564 mg/L	17:38:53
1	Mn 294.920†	619615.1	746346.5	1.592 mg/L		1.592 mg/L	17:38:53
1	Mo 202.031†	12303.6	14817.8	0.5464 mg/L		0.5464 mg/L	17:39:03
1	Na 589.592†	8227154.7	9897142.8	1326 mg/L		1326 mg/L	17:38:35
1	Ni 231.604†	22308.2	26670.7	0.4966 mg/L		0.4966 mg/L	17:38:53
1	P 214.914†	10215.0	12339.8	6.509 mg/L		6.509 mg/L	17:39:03
1	Pb 220.353†	7070.2	8325.8	0.4898 mg/L		0.4898 mg/L	17:39:03
1	Sb 206.836†	1216.7	1419.5	0.5585 mg/L		0.5585 mg/L	17:39:03
1	Se 196.026†	1649.7	1968.5	1.098 mg/L		1.098 mg/L	17:39:03
1	Sn 189.927†	2243.0	2662.0	0.3285 mg/L		0.3285 mg/L	17:39:03
1	Sr 407.771†	5661369.7	6813205.0	5.768 mg/L		5.768 mg/L	17:38:35
1	Ti 337.279†	442056.0	533311.7	0.5494 mg/L		0.5494 mg/L	17:38:53
1	Tl 190.801†	520.2	633.2	0.4458 mg/L		0.4458 mg/L	17:39:03
1	V 292.402†	120207.5	145571.4	0.5800 mg/L		0.5800 mg/L	17:38:53
1	Zn 213.857†	81000.6	96614.7	0.5869 mg/L		0.5869 mg/L	17:38:53
2	Y 371.029	2808463.0	2808463.0	0.831 mg/L			17:39:07
2	Ag 328.068†	48856.2	58082.3	0.2813 mg/L		0.2813 mg/L	17:39:07
2	Al 237.313†	28660.8	34892.8	3.208 mg/L		3.208 mg/L	17:39:07
2	As 188.979†	793.3	954.1	0.5854 mg/L		0.5854 mg/L	17:39:17

2	B 249.677†	3215.9	3886.9	1.590 mg/L	1.590 mg/L	17:38:47
2	B 182.528†	1664.5	2010.9	1.656 mg/L	1.656 mg/L	17:39:17
2	Ba 233.527†	553720.6	666723.4	5.055 mg/L	5.055 mg/L	17:39:07
2	Be 313.107†	128496.8	156132.7	0.0551 mg/L	0.0551 mg/L	17:39:07
2	Ca 315.887†	Saturated3	Saturated3			17:39:17
Saturated in preshot (code 3)						
2	Cd 228.802†	9217.9	10950.2	0.2933 mg/L	0.2933 mg/L	17:39:17
2	Co 228.616†	26006.9	31488.1	0.4990 mg/L	0.4990 mg/L	17:39:17
2	Cr 267.716†	57531.5	68552.5	0.5224 mg/L	0.5224 mg/L	17:39:07
2	Cu 324.752†	112767.4	131806.4	0.5647 mg/L	0.5647 mg/L	17:39:07
2	Fe 234.349†	111173.4	133845.6	66.28 mg/L	66.28 mg/L	17:38:47
2	K 766.490†	998300.8	1201129.9	513.1 mg/L	513.1 mg/L	17:38:45
2	Li 670.784†	26248.9	31874.2	0.7504 mg/L	0.7504 mg/L	17:38:47
2	Mg 279.077†	1103541.0	1328288.0	86.25 mg/L	86.25 mg/L	17:39:07
2	Mn 257.610†	1231119.7	1466116.2	1.562 mg/L	1.562 mg/L	17:39:07
2	Mn 294.920†	618210.1	744916.6	1.589 mg/L	1.589 mg/L	17:39:07
2	Mo 202.031†	12339.7	14866.4	0.5482 mg/L	0.5482 mg/L	17:39:17
2	Na 589.592†	8216814.0	9888165.7	1325 mg/L	1325 mg/L	17:38:43
2	Ni 231.604†	22287.2	26654.9	0.4963 mg/L	0.4963 mg/L	17:39:07
2	P 214.914†	10270.1	12410.4	6.546 mg/L	6.546 mg/L	17:39:17
2	Pb 220.353†	7132.8	8404.2	0.4944 mg/L	0.4944 mg/L	17:39:17
2	Sb 206.836†	1238.7	1446.5	0.5692 mg/L	0.5692 mg/L	17:39:17
2	Se 196.026†	1651.2	1971.1	1.099 mg/L	1.099 mg/L	17:39:17
2	Sn 189.927†	2290.2	2719.8	0.3356 mg/L	0.3356 mg/L	17:39:17
2	Sr 407.771†	5657010.1	6810345.8	5.765 mg/L	5.765 mg/L	17:38:43
2	Ti 337.279†	441424.7	532738.2	0.5489 mg/L	0.5489 mg/L	17:39:07
2	Tl 190.801†	519.9	633.0	0.4454 mg/L	0.4454 mg/L	17:39:17
2	V 292.402†	120039.4	145419.8	0.5794 mg/L	0.5794 mg/L	17:39:07
2	Zn 213.857†	80686.8	96271.1	0.5847 mg/L	0.5847 mg/L	17:39:07

Mean Data: CF32007-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2808955.5	0.831	mg/L	0.0002			0.02%
Ag 328.068†	58180.9	0.2817	mg/L	0.00066	0.2817 mg/L	0.00066	0.23%
Al 237.313†	34930.8	3.211	mg/L	0.0049	3.211 mg/L	0.0049	0.15%
As 188.979†	952.5	0.5844	mg/L	0.00138	0.5844 mg/L	0.00138	0.24%
B 249.677†	3853.8	1.576	mg/L	0.0191	1.576 mg/L	0.0191	1.21%
B 182.528†	2006.3	1.652	mg/L	0.0054	1.652 mg/L	0.0054	0.32%
Ba 233.527†	666923.9	5.057	mg/L	0.0021	5.057 mg/L	0.0021	0.04%
Be 313.107†	156282.0	0.0552	mg/L	0.00007	0.0552 mg/L	0.00007	0.13%
Ca 315.887†	Saturated3						
Cd 228.802†	10903.2	0.2920	mg/L	0.00177	0.2920 mg/L	0.00177	0.61%
Co 228.616†	31389.3	0.4974	mg/L	0.00223	0.4974 mg/L	0.00223	0.45%
Cr 267.716†	68560.5	0.5224	mg/L	0.00008	0.5224 mg/L	0.00008	0.02%
Cu 324.752†	131989.6	0.5655	mg/L	0.00111	0.5655 mg/L	0.00111	0.20%
Fe 234.349†	133023.8	65.87	mg/L	0.575	65.87 mg/L	0.575	0.87%
K 766.490†	1199802.2	512.5	mg/L	0.80	512.5 mg/L	0.80	0.16%
Li 670.784†	31642.5	0.7449	mg/L	0.00770	0.7449 mg/L	0.00770	1.03%
Mg 279.077†	1329654.4	86.34	mg/L	0.125	86.34 mg/L	0.125	0.15%
Mn 257.610†	1466882.8	1.563	mg/L	0.0013	1.563 mg/L	0.0013	0.08%
Mn 294.920†	745631.5	1.590	mg/L	0.0022	1.590 mg/L	0.0022	0.14%
Mo 202.031†	14842.1	0.5473	mg/L	0.00121	0.5473 mg/L	0.00121	0.22%
Na 589.592†	9892654.3	1326	mg/L	0.9	1326 mg/L	0.9	0.06%
Ni 231.604†	26662.8	0.4965	mg/L	0.00021	0.4965 mg/L	0.00021	0.04%
P 214.914†	12375.1	6.528	mg/L	0.0262	6.528 mg/L	0.0262	0.40%
Pb 220.353†	8365.0	0.4921	mg/L	0.00325	0.4921 mg/L	0.00325	0.66%
Sb 206.836†	1433.0	0.5638	mg/L	0.00760	0.5638 mg/L	0.00760	1.35%
Se 196.026†	1969.8	1.099	mg/L	0.0010	1.099 mg/L	0.0010	0.09%
Sn 189.927†	2690.9	0.3320	mg/L	0.00502	0.3320 mg/L	0.00502	1.51%
Sr 407.771†	6811775.4	5.766	mg/L	0.0017	5.766 mg/L	0.0017	0.03%
Ti 337.279†	533025.0	0.5492	mg/L	0.00042	0.5492 mg/L	0.00042	0.08%
Tl 190.801†	633.1	0.4456	mg/L	0.00032	0.4456 mg/L	0.00032	0.07%
V 292.402†	145495.6	0.5797	mg/L	0.00040	0.5797 mg/L	0.00040	0.07%
Zn 213.857†	96442.9	0.5858	mg/L	0.00152	0.5858 mg/L	0.00152	0.26%

Sequence No.: 51

Sample ID: 1306329-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Autosampler Location: 35

Date Collected: 6/25/2013 5:42:27 PM

Data Type: Reprocessed on 6/26/2013 10:56:51 AM

Initial Sample Vol:

Replicate Data: 1306329-01

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc.	Units	Conc.	Units	
1	Y 371.029	3127437.4	3127437.4			0.925	mg/L			17:44:42
1	Ag 328.068†	659.9	-23.3			0.0006	mg/L	0.0006	mg/L	17:44:44
1	Al 237.313†	-398.3	-43.2			0.0031	mg/L	0.0031	mg/L	17:44:44
1	As 188.979†	8.7	8.4			0.0078	mg/L	0.0078	mg/L	17:44:54
1	B 249.677†	82.1	103.9			0.0450	mg/L	0.0450	mg/L	17:44:21
1	B 182.528†	54.3	65.6			0.0578	mg/L	0.0578	mg/L	17:44:54
1	Ba 233.527†	13757.2	14961.1			0.1140	mg/L	0.1140	mg/L	17:44:44
1	Be 313.107†	-1842.0	-558.6			0.0000	mg/L	0.0000	mg/L	17:44:44
1	Ca 315.887†	18311025.8	19797318.8			177.2	mg/L	177.2	mg/L	17:44:39
1	Cd 228.802†	157.5	22.8			0.0021	mg/L	0.0021	mg/L	17:44:54
1	Co 228.616†	-148.2	17.7			-0.0018	mg/L	-0.0018	mg/L	17:44:54
1	Cr 267.716†	752.3	102.5			0.0013	mg/L	0.0013	mg/L	17:44:44
1	Cu 324.752†	86764.0	89846.4			0.3851	mg/L	0.3851	mg/L	17:44:44
1	Fe 234.349†	1885.0	2039.6			0.7290	mg/L	0.7290	mg/L	17:44:21
1	K 766.490†	14821.7	15279.1			6.668	mg/L	6.668	mg/L	17:44:11
1	Li 670.784†	171.7	458.2			0.0127	mg/L	0.0127	mg/L	17:44:11
1	Mg 279.077†	767893.9	829905.4			53.89	mg/L	53.89	mg/L	17:44:42
1	Mn 257.610†	91106.5	82443.8			0.0884	mg/L	0.0884	mg/L	17:44:44
1	Mn 294.920†	35213.8	38711.3			0.0824	mg/L	0.0824	mg/L	17:44:44
1	Mo 202.031†	271.0	303.4			0.0119	mg/L	0.0119	mg/L	17:44:54
1	Na 589.592†	810419.9	871942.8			116.9	mg/L	116.9	mg/L	17:44:11
1	Ni 231.604†	777.6	663.6			0.0118	mg/L	0.0118	mg/L	17:44:54
1	P 214.914†	1181.4	1323.3			0.7382	mg/L	0.7382	mg/L	17:44:54
1	Pb 220.353†	453.7	307.4			0.0197	mg/L	0.0197	mg/L	17:44:54
1	Sb 206.836†	60.1	20.2			0.0123	mg/L	0.0123	mg/L	17:44:54
1	Se 196.026†	13.4	-2.4			0.0032	mg/L	0.0032	mg/L	17:44:54
1	Sn 189.927†	-881.7	-990.7			-0.0105	mg/L	-0.0105	mg/L	17:44:54
1	Sr 407.771†	1570293.5	1697446.0			1.437	mg/L	1.437	mg/L	17:44:11
1	Ti 337.279†	-1525.2	-351.1			0.0024	mg/L	0.0024	mg/L	17:44:44
1	Tl 190.801†	28.4	37.9			0.0005	mg/L	0.0005	mg/L	17:44:54
1	V 292.402†	-842.0	-8.5			0.0021	mg/L	0.0021	mg/L	17:44:44
1	Zn 213.857†	88694.0	95020.3			0.5836	mg/L	0.5836	mg/L	17:44:44
2	Y 371.029	3106446.0	3106446.0			0.919	mg/L			17:45:00
2	Ag 328.068†	606.1	-77.1			0.0003	mg/L	0.0003	mg/L	17:45:03
2	Al 237.313†	-423.4	-73.4			0.0004	mg/L	0.0004	mg/L	17:45:03
2	As 188.979†	-2.0	-3.2			0.0007	mg/L	0.0007	mg/L	17:45:13
2	B 249.677†	68.1	89.3			0.0390	mg/L	0.0390	mg/L	17:44:34
2	B 182.528†	44.4	55.3			0.0493	mg/L	0.0493	mg/L	17:45:13
2	Ba 233.527†	13823.3	15133.5			0.1153	mg/L	0.1153	mg/L	17:45:03
2	Be 313.107†	-1911.6	-647.9			0.0000	mg/L	0.0000	mg/L	17:45:03
2	Ca 315.887†	18323840.4	19945039.8			178.5	mg/L	178.5	mg/L	17:44:58
2	Cd 228.802†	153.4	19.5			0.0020	mg/L	0.0020	mg/L	17:45:13
2	Co 228.616†	-142.0	23.4			-0.0017	mg/L	-0.0017	mg/L	17:45:13
2	Cr 267.716†	733.6	87.7			0.0012	mg/L	0.0012	mg/L	17:45:03
2	Cu 324.752†	87801.3	91609.4			0.3926	mg/L	0.3926	mg/L	17:45:03
2	Fe 234.349†	1894.0	2063.2			0.7385	mg/L	0.7385	mg/L	17:44:34
2	K 766.490†	14749.1	15308.4			6.681	mg/L	6.681	mg/L	17:44:24
2	Li 670.784†	246.6	541.0			0.0146	mg/L	0.0146	mg/L	17:44:24
2	Mg 279.077†	767081.6	834631.1			54.19	mg/L	54.19	mg/L	17:45:00
2	Mn 257.610†	92402.9	84520.4			0.0906	mg/L	0.0906	mg/L	17:45:03
2	Mn 294.920†	35696.0	39493.3			0.0841	mg/L	0.0841	mg/L	17:45:03
2	Mo 202.031†	306.4	343.9			0.0133	mg/L	0.0133	mg/L	17:45:13
2	Na 589.592†	813753.8	881492.2			118.2	mg/L	118.2	mg/L	17:44:24
2	Ni 231.604†	763.1	653.4			0.0117	mg/L	0.0117	mg/L	17:45:13
2	P 214.914†	1201.8	1354.2			0.7543	mg/L	0.7543	mg/L	17:45:13
2	Pb 220.353†	504.3	365.8			0.0232	mg/L	0.0232	mg/L	17:45:13
2	Sb 206.836†	48.1	7.5			0.0071	mg/L	0.0071	mg/L	17:45:13
2	Se 196.026†	4.5	-12.0			-0.0021	mg/L	-0.0021	mg/L	17:45:13
2	Sn 189.927†	-871.8	-986.3			-0.0092	mg/L	-0.0092	mg/L	17:45:13
2	Sr 407.771†	1576576.7	1715756.7			1.453	mg/L	1.453	mg/L	17:44:24
2	Ti 337.279†	-1443.5	-273.3			0.0025	mg/L	0.0025	mg/L	17:45:03
2	Tl 190.801†	26.3	35.8			-0.0013	mg/L	-0.0013	mg/L	17:45:13
2	V 292.402†	-962.3	-145.6			0.0016	mg/L	0.0016	mg/L	17:45:03
2	Zn 213.857†	89835.4	96910.7			0.5952	mg/L	0.5952	mg/L	17:45:03

Mean Data: 1306329-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3116941.7	0.922 mg/L		0.0044				0.48%
Ag 328.068†	-50.2	0.0004 mg/L		0.00018	0.0004 mg/L		0.00018	41.97%
Al 237.313†	-58.3	0.0018 mg/L		0.00196	0.0018 mg/L		0.00196	111.64%
As 188.979†	2.6	0.0042 mg/L		0.00501	0.0042 mg/L		0.00501	118.34%
B 249.677†	96.6	0.0420 mg/L		0.00423	0.0420 mg/L		0.00423	10.08%
B 182.528†	60.5	0.0536 mg/L		0.00600	0.0536 mg/L		0.00600	11.19%
Ba 233.527†	15047.3	0.1147 mg/L		0.00092	0.1147 mg/L		0.00092	0.81%
Be 313.107†	-603.3	0.0000 mg/L		0.00002	0.0000 mg/L		0.00002	>999.9%
Ca 315.887†	19871179.3	177.9 mg/L		0.93	177.9 mg/L		0.93	0.53%
Cd 228.802†	21.2	0.0020 mg/L		0.00006	0.0020 mg/L		0.00006	3.09%
Co 228.616†	20.6	-0.0017 mg/L		0.00006	-0.0017 mg/L		0.00006	3.69%
Cr 267.716†	95.1	0.0012 mg/L		0.00008	0.0012 mg/L		0.00008	6.37%
Cu 324.752†	90727.9	0.3889 mg/L		0.00532	0.3889 mg/L		0.00532	1.37%
Fe 234.349†	2051.4	0.7337 mg/L		0.00673	0.7337 mg/L		0.00673	0.92%
K 766.490†	15293.7	6.674 mg/L		0.0088	6.674 mg/L		0.0088	0.13%
Li 670.784†	499.6	0.0136 mg/L		0.00137	0.0136 mg/L		0.00137	10.09%
Mg 279.077†	832268.2	54.04 mg/L		0.217	54.04 mg/L		0.217	0.40%
Mn 257.610†	83482.1	0.0895 mg/L		0.00158	0.0895 mg/L		0.00158	1.76%
Mn 294.920†	39102.3	0.0832 mg/L		0.00118	0.0832 mg/L		0.00118	1.42%
Mo 202.031†	323.7	0.0126 mg/L		0.00104	0.0126 mg/L		0.00104	8.28%
Na 589.592†	876717.5	117.6 mg/L		0.90	117.6 mg/L		0.90	0.77%
Ni 231.604†	658.5	0.0117 mg/L		0.00013	0.0117 mg/L		0.00013	1.12%
P 214.914†	1338.7	0.7463 mg/L		0.01138	0.7463 mg/L		0.01138	1.53%
Pb 220.353†	336.6	0.0214 mg/L		0.00241	0.0214 mg/L		0.00241	11.25%
Sb 206.836†	13.9	0.0097 mg/L		0.00366	0.0097 mg/L		0.00366	37.60%
Se 196.026†	-7.2	0.0005 mg/L		0.00373	0.0005 mg/L		0.00373	712.26%
Sn 189.927†	-988.5	-0.0098 mg/L		0.00096	-0.0098 mg/L		0.00096	9.76%
Sr 407.771†	1706601.3	1.445 mg/L		0.0110	1.445 mg/L		0.0110	0.76%
Ti 337.279†	-312.2	0.0025 mg/L		0.00006	0.0025 mg/L		0.00006	2.29%
Tl 190.801†	36.8	-0.0004 mg/L		0.00125	-0.0004 mg/L		0.00125	338.15%
V 292.402†	-77.0	0.0019 mg/L		0.00037	0.0019 mg/L		0.00037	19.69%
Zn 213.857†	95965.5	0.5894 mg/L		0.00820	0.5894 mg/L		0.00820	1.39%

Sequence No.: 52
Sample ID: 1306333-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 36
Date Collected: 6/25/2013 5:46:52 PM
Data Type: Reprocessed on 6/26/2013 10:56:51 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306333-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	8072716.9	8072716.9	2.39 mg/L		17:49:02
1	Ag 328.068†	690.6	-447.5	-0.0015 mg/L	-0.0015 mg/L	17:49:04
1	Al 237.313†	-451.3	198.4	0.0253 mg/L	0.0253 mg/L	17:49:04
1	As 188.979†	0.5	-0.8	0.0021 mg/L	0.0021 mg/L	17:49:14
1	B 249.677†	-15.5	8.7	0.0061 mg/L	0.0061 mg/L	17:48:45
1	B 182.528†	-4.0	5.3	0.0082 mg/L	0.0082 mg/L	17:49:14
1	Ba 233.527†	-76.0	55.9	0.0010 mg/L	0.0010 mg/L	17:49:14
1	Be 313.107†	-982.8	1021.1	0.0006 mg/L	0.0006 mg/L	17:49:04
1	Ca 315.887†	1297.0	1261.2	0.0196 mg/L	0.0196 mg/L	17:49:04
1	Cd 228.802†	145.3	-86.6	-0.0008 mg/L	-0.0008 mg/L	17:49:14
1	Co 228.616†	-199.8	94.3	-0.0006 mg/L	-0.0006 mg/L	17:49:14
1	Cr 267.716†	389.4	-547.7	-0.0037 mg/L	-0.0037 mg/L	17:49:04
1	Cu 324.752†	3090.2	-2662.4	-0.0101 mg/L	-0.0101 mg/L	17:49:04
1	Fe 234.349†	7.8	4.9	0.0130 mg/L	0.0130 mg/L	17:48:45
1	K 766.490†	1104.1	-282.6	0.0227 mg/L	0.0227 mg/L	17:48:35
1	Li 670.784†	-479.2	71.9	0.0036 mg/L	0.0036 mg/L	17:48:35
1	Mg 279.077†	253.8	-181.5	-0.0138 mg/L	-0.0138 mg/L	17:49:04
1	Mn 257.610†	13980.7	-10198.5	-0.0110 mg/L	-0.0110 mg/L	17:49:14
1	Mn 294.920†	-600.8	389.0	0.0007 mg/L	0.0007 mg/L	17:49:04
1	Mo 202.031†	15.9	17.1	0.0035 mg/L	0.0035 mg/L	17:49:14
1	Na 589.592†	7844.0	-941.1	-0.0390 mg/L	-0.0390 mg/L	17:48:35
1	Ni 231.604†	182.4	-100.8	-0.0024 mg/L	-0.0024 mg/L	17:49:04
1	P 214.914†	-63.2	19.6	0.0589 mg/L	0.0589 mg/L	17:49:14
1	Pb 220.353†	182.6	-106.6	-0.0043 mg/L	-0.0043 mg/L	17:49:14
1	Sb 206.836†	32.7	-31.1	-0.0083 mg/L	-0.0083 mg/L	17:49:14
1	Se 196.026†	15.7	-10.3	-0.0013 mg/L	-0.0013 mg/L	17:49:14

1	Sn 189.927†	33.4	-23.5	-0.0013	mg/L	-0.0013	mg/L	17:49:14
1	Sr 407.771†	308.5	-116.4	0.0002	mg/L	0.0002	mg/L	17:48:35
1	Ti 337.279†	-947.9	900.9	0.0037	mg/L	0.0037	mg/L	17:49:04
1	Tl 190.801†	-15.4	0.7	0.0001	mg/L	0.0001	mg/L	17:49:14
1	V 292.402†	-761.2	583.0	0.0046	mg/L	0.0046	mg/L	17:49:04
1	Zn 213.857†	1027.4	-439.1	-0.0022	mg/L	-0.0022	mg/L	17:49:14
2	Y 371.029	8305228.1	8305228.1	2.46	mg/L			17:49:17
2	Ag 328.068†	656.6	-469.5	-0.0016	mg/L	-0.0016	mg/L	17:49:19
2	Al 237.313†	-390.9	228.3	0.0280	mg/L	0.0280	mg/L	17:49:19
2	As 188.979†	-5.4	-3.3	0.0006	mg/L	0.0006	mg/L	17:49:29
2	B 249.677†	-17.1	8.2	0.0059	mg/L	0.0059	mg/L	17:48:58
2	B 182.528†	-4.0	5.3	0.0083	mg/L	0.0083	mg/L	17:49:29
2	Ba 233.527†	-64.6	61.4	0.0011	mg/L	0.0011	mg/L	17:49:29
2	Be 313.107†	-1017.2	1018.7	0.0006	mg/L	0.0006	mg/L	17:49:19
2	Ca 315.887†	991.7	1121.7	0.0183	mg/L	0.0183	mg/L	17:49:19
2	Cd 228.802†	128.8	-95.0	-0.0010	mg/L	-0.0010	mg/L	17:49:29
2	Co 228.616†	-181.8	103.9	-0.0004	mg/L	-0.0004	mg/L	17:49:29
2	Cr 267.716†	381.0	-555.7	-0.0037	mg/L	-0.0037	mg/L	17:49:19
2	Cu 324.752†	3090.2	-2698.6	-0.0102	mg/L	-0.0102	mg/L	17:49:19
2	Fe 234.349†	8.6	5.2	0.0132	mg/L	0.0132	mg/L	17:48:58
2	K 766.490†	1059.2	-313.9	0.0094	mg/L	0.0094	mg/L	17:48:48
2	Li 670.784†	-309.7	146.5	0.0053	mg/L	0.0053	mg/L	17:48:48
2	Mg 279.077†	249.0	-186.5	-0.0141	mg/L	-0.0141	mg/L	17:49:19
2	Mn 257.610†	13979.6	-10362.9	-0.0112	mg/L	-0.0112	mg/L	17:49:29
2	Mn 294.920†	-516.6	430.3	0.0007	mg/L	0.0007	mg/L	17:49:19
2	Mo 202.031†	22.2	19.4	0.0036	mg/L	0.0036	mg/L	17:49:29
2	Na 589.592†	7813.4	-1045.5	-0.0530	mg/L	-0.0530	mg/L	17:48:48
2	Ni 231.604†	169.9	-108.0	-0.0025	mg/L	-0.0025	mg/L	17:49:19
2	P 214.914†	-61.4	21.0	0.0597	mg/L	0.0597	mg/L	17:49:29
2	Pb 220.353†	181.9	-109.1	-0.0044	mg/L	-0.0044	mg/L	17:49:29
2	Sb 206.836†	29.5	-32.8	-0.0090	mg/L	-0.0090	mg/L	17:49:29
2	Se 196.026†	14.2	-11.1	-0.0017	mg/L	-0.0017	mg/L	17:49:29
2	Sn 189.927†	42.5	-20.2	-0.0009	mg/L	-0.0009	mg/L	17:49:29
2	Sr 407.771†	274.6	-133.8	0.0002	mg/L	0.0002	mg/L	17:48:48
2	Ti 337.279†	-1023.1	881.4	0.0037	mg/L	0.0037	mg/L	17:49:19
2	Tl 190.801†	-14.9	1.1	0.0004	mg/L	0.0004	mg/L	17:49:29
2	V 292.402†	-862.9	550.6	0.0045	mg/L	0.0045	mg/L	17:49:19
2	Zn 213.857†	1037.0	-447.3	-0.0022	mg/L	-0.0022	mg/L	17:49:29

Mean Data: 1306333-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	8188972.5	2.42 mg/L	0.049			2.01%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 242.2%						
Ag 328.068†	-458.5	-0.0015 mg/L	0.00007	-0.0015 mg/L	0.00007	4.81%
Al 237.313†	213.3	0.0266 mg/L	0.00194	0.0266 mg/L	0.00194	7.27%
As 188.979†	-2.1	0.0014 mg/L	0.00104	0.0014 mg/L	0.00104	75.42%
B 249.677†	8.5	0.0060 mg/L	0.00014	0.0060 mg/L	0.00014	2.26%
B 182.528†	5.3	0.0082 mg/L	0.00002	0.0082 mg/L	0.00002	0.23%
Ba 233.527†	58.7	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.85%
Be 313.107†	1019.9	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.11%
Ca 315.887†	1191.4	0.0190 mg/L	0.00088	0.0190 mg/L	0.00088	4.66%
Cd 228.802†	-90.8	-0.0009 mg/L	0.00016	-0.0009 mg/L	0.00016	17.21%
Co 228.616†	99.1	-0.0005 mg/L	0.00011	-0.0005 mg/L	0.00011	21.83%
Cr 267.716†	-551.7	-0.0037 mg/L	0.00004	-0.0037 mg/L	0.00004	1.16%
Cu 324.752†	-2680.5	-0.0101 mg/L	0.00011	-0.0101 mg/L	0.00011	1.08%
Fe 234.349†	5.0	0.0131 mg/L	0.00009	0.0131 mg/L	0.00009	0.68%
K 766.490†	-298.3	0.0161 mg/L	0.00943	0.0161 mg/L	0.00943	58.72%
Li 670.784†	109.2	0.0045 mg/L	0.00124	0.0045 mg/L	0.00124	27.77%
Mg 279.077†	-184.0	-0.0140 mg/L	0.00023	-0.0140 mg/L	0.00023	1.62%
Mn 257.610†	-10280.7	-0.0111 mg/L	0.00013	-0.0111 mg/L	0.00013	1.12%
Mn 294.920†	409.6	0.0007 mg/L	0.00006	0.0007 mg/L	0.00006	8.88%
Mo 202.031†	18.3	0.0035 mg/L	0.00006	0.0035 mg/L	0.00006	1.79%
Na 589.592†	-993.3	-0.0460 mg/L	0.00989	-0.0460 mg/L	0.00989	21.53%
Ni 231.604†	-104.4	-0.0025 mg/L	0.00009	-0.0025 mg/L	0.00009	3.85%
P 214.914†	20.3	0.0593 mg/L	0.00055	0.0593 mg/L	0.00055	0.93%
Pb 220.353†	-107.8	-0.0044 mg/L	0.00010	-0.0044 mg/L	0.00010	2.34%
Sb 206.836†	-31.9	-0.0087 mg/L	0.00048	-0.0087 mg/L	0.00048	5.58%
Se 196.026†	-10.7	-0.0015 mg/L	0.00030	-0.0015 mg/L	0.00030	20.31%
Sn 189.927†	-21.8	-0.0011 mg/L	0.00029	-0.0011 mg/L	0.00029	26.39%
Sr 407.771†	-125.1	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.40%
Ti 337.279†	891.1	0.0037 mg/L	0.00001	0.0037 mg/L	0.00001	0.38%

Tl 190.801†	0.9	0.0003 mg/L	0.00020	0.0003 mg/L	0.00020	72.02%
V 292.402†	566.8	0.0045 mg/L	0.00009	0.0045 mg/L	0.00009	1.96%
Zn 213.857†	-443.2	-0.0022 mg/L	0.00003	-0.0022 mg/L	0.00003	1.56%

Internal Standard Check failed. Continue with analysis.

Sequence No.: 53
Sample ID: 1306335-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 6/25/2013 5:51:08 PM
Data Type: Reprocessed on 6/26/2013 10:56:52 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306335-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3242426.9	3242426.9	0.959 mg/L		17:53:16
1	Ag 328.068†	778.6	75.2	0.0010 mg/L	0.0010 mg/L	17:53:18
1	Al 237.313†	384.6	788.5	0.0794 mg/L	0.0794 mg/L	17:53:28
1	As 188.979†	2.2	1.3	0.0034 mg/L	0.0034 mg/L	17:53:28
1	B 249.677†	16.3	32.2	0.0157 mg/L	0.0157 mg/L	17:53:00
1	B 182.528†	7.3	14.5	0.0158 mg/L	0.0158 mg/L	17:53:28
1	Ba 233.527†	187.5	283.2	0.0027 mg/L	0.0027 mg/L	17:53:28
1	Be 313.107†	-1292.2	85.2	0.0002 mg/L	0.0002 mg/L	17:53:18
1	Ca 315.887†	1996717.7	2082873.0	18.65 mg/L	18.65 mg/L	17:53:16
1	Cd 228.802†	154.3	13.5	0.0019 mg/L	0.0019 mg/L	17:53:28
1	Co 228.616†	-166.3	4.5	-0.0020 mg/L	-0.0020 mg/L	17:53:28
1	Cr 267.716†	746.2	67.3	0.0010 mg/L	0.0010 mg/L	17:53:18
1	Cu 324.752†	8010.2	4396.2	0.0201 mg/L	0.0201 mg/L	17:53:18
1	Fe 234.349†	106.0	112.2	0.0355 mg/L	0.0355 mg/L	17:53:00
1	K 766.490†	3140.4	2529.7	1.224 mg/L	1.224 mg/L	17:52:49
1	Li 670.784†	-205.3	58.5	0.0033 mg/L	0.0033 mg/L	17:52:49
1	Mg 279.077†	29990.9	30986.3	2.010 mg/L	2.010 mg/L	17:53:18
1	Mn 257.610†	19943.5	4742.7	0.0050 mg/L	0.0050 mg/L	17:53:28
1	Mn 294.920†	714.7	1385.9	0.0028 mg/L	0.0028 mg/L	17:53:18
1	Mo 202.031†	213.0	232.5	0.0114 mg/L	0.0114 mg/L	17:53:28
1	Na 589.592†	91884.9	91590.1	12.36 mg/L	12.36 mg/L	17:52:49
1	Ni 231.604†	223.2	55.7	0.0005 mg/L	0.0005 mg/L	17:53:28
1	P 214.914†	550.5	620.1	0.3733 mg/L	0.3733 mg/L	17:53:28
1	Pb 220.353†	103.1	-75.6	-0.0025 mg/L	-0.0025 mg/L	17:53:28
1	Sb 206.836†	46.3	3.5	0.0059 mg/L	0.0059 mg/L	17:53:28
1	Se 196.026†	14.6	-1.7	0.0035 mg/L	0.0035 mg/L	17:53:28
1	Sn 189.927†	-217.4	-264.2	-0.0193 mg/L	-0.0193 mg/L	17:53:28
1	Sr 407.771†	62327.9	64749.2	0.0551 mg/L	0.0551 mg/L	17:52:49
1	Ti 337.279†	-1476.4	-241.6	0.0025 mg/L	0.0025 mg/L	17:53:18
1	Tl 190.801†	0.9	8.1	0.0029 mg/L	0.0029 mg/L	17:53:28
1	V 292.402†	-1103.7	-249.1	0.0015 mg/L	0.0015 mg/L	17:53:18
1	Zn 213.857†	3263.8	2534.1	0.0160 mg/L	0.0160 mg/L	17:53:28
2	Y 371.029	3203017.0	3203017.0	0.947 mg/L		17:53:31
2	Ag 328.068†	756.4	61.6	0.0009 mg/L	0.0009 mg/L	17:53:33
2	Al 237.313†	340.7	747.1	0.0756 mg/L	0.0756 mg/L	17:53:43
2	As 188.979†	-5.5	-6.9	-0.0016 mg/L	-0.0016 mg/L	17:53:43
2	B 249.677†	15.8	31.9	0.0155 mg/L	0.0155 mg/L	17:53:12
2	B 182.528†	16.9	24.8	0.0242 mg/L	0.0242 mg/L	17:53:43
2	Ba 233.527†	172.5	269.8	0.0026 mg/L	0.0026 mg/L	17:53:43
2	Be 313.107†	-1407.8	-53.3	0.0002 mg/L	0.0002 mg/L	17:53:33
2	Ca 315.887†	1973528.8	2084013.1	18.66 mg/L	18.66 mg/L	17:53:31
2	Cd 228.802†	143.5	4.0	0.0016 mg/L	0.0016 mg/L	17:53:43
2	Co 228.616†	-184.0	-16.3	-0.0023 mg/L	-0.0023 mg/L	17:53:43
2	Cr 267.716†	741.6	72.0	0.0011 mg/L	0.0011 mg/L	17:53:33
2	Cu 324.752†	8085.3	4578.4	0.0209 mg/L	0.0209 mg/L	17:53:33
2	Fe 234.349†	114.7	122.7	0.0407 mg/L	0.0407 mg/L	17:53:12
2	K 766.490†	3129.7	2558.7	1.236 mg/L	1.236 mg/L	17:53:02
2	Li 670.784†	-230.0	29.8	0.0026 mg/L	0.0026 mg/L	17:53:02
2	Mg 279.077†	29972.9	31352.1	2.034 mg/L	2.034 mg/L	17:53:33
2	Mn 257.610†	19826.6	4875.2	0.0052 mg/L	0.0052 mg/L	17:53:43
2	Mn 294.920†	592.9	1266.5	0.0025 mg/L	0.0025 mg/L	17:53:33
2	Mo 202.031†	219.1	241.7	0.0117 mg/L	0.0117 mg/L	17:53:43
2	Na 589.592†	90496.1	91302.9	12.32 mg/L	12.32 mg/L	17:53:02
2	Ni 231.604†	206.2	40.5	0.0002 mg/L	0.0002 mg/L	17:53:43
2	P 214.914†	545.9	622.3	0.3745 mg/L	0.3745 mg/L	17:53:43
2	Pb 220.353†	99.5	-78.1	-0.0026 mg/L	-0.0026 mg/L	17:53:43

2	Sb 206.836†	38.6	-4.0	0.0028 mg/L	0.0028 mg/L	17:53:43
2	Se 196.026†	15.2	-0.8	0.0040 mg/L	0.0040 mg/L	17:53:43
2	Sn 189.927†	-216.0	-265.5	-0.0195 mg/L	-0.0195 mg/L	17:53:43
2	Sr 407.771†	61123.6	64277.6	0.0547 mg/L	0.0547 mg/L	17:53:02
2	Ti 337.279†	-1509.1	-295.2	0.0025 mg/L	0.0025 mg/L	17:53:33
2	Tl 190.801†	0.4	7.5	0.0024 mg/L	0.0024 mg/L	17:53:43
2	V 292.402†	-962.3	-114.0	0.0020 mg/L	0.0020 mg/L	17:53:33
2	Zn 213.857†	3192.7	2500.9	0.0158 mg/L	0.0158 mg/L	17:53:43

Mean Data: 1306335-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3222721.9	0.953 mg/L		0.0082			0.86%
Ag 328.068†	68.4	0.0010 mg/L		0.00005	0.0010 mg/L	0.00005	4.67%
Al 237.313†	767.8	0.0775 mg/L		0.00268	0.0775 mg/L	0.00268	3.46%
As 188.979†	-2.8	0.0009 mg/L		0.00352	0.0009 mg/L	0.00352	375.61%
B 249.677†	32.0	0.0156 mg/L		0.00009	0.0156 mg/L	0.00009	0.56%
B 182.528†	19.6	0.0200 mg/L		0.00595	0.0200 mg/L	0.00595	29.73%
Ba 233.527†	276.5	0.0027 mg/L		0.00007	0.0027 mg/L	0.00007	2.67%
Be 313.107†	16.0	0.0002 mg/L		0.00003	0.0002 mg/L	0.00003	15.75%
Ca 315.887†	2083443.1	18.66 mg/L		0.007	18.66 mg/L	0.007	0.04%
Cd 228.802†	8.8	0.0017 mg/L		0.00018	0.0017 mg/L	0.00018	10.33%
Co 228.616†	-5.9	-0.0022 mg/L		0.00024	-0.0022 mg/L	0.00024	10.86%
Cr 267.716†	69.6	0.0010 mg/L		0.00003	0.0010 mg/L	0.00003	2.46%
Cu 324.752†	4487.3	0.0205 mg/L		0.00055	0.0205 mg/L	0.00055	2.69%
Fe 234.349†	117.4	0.0381 mg/L		0.00369	0.0381 mg/L	0.00369	9.69%
K 766.490†	2544.2	1.230 mg/L		0.0088	1.230 mg/L	0.0088	0.71%
Li 670.784†	44.1	0.0029 mg/L		0.00048	0.0029 mg/L	0.00048	16.24%
Mg 279.077†	31169.2	2.022 mg/L		0.0168	2.022 mg/L	0.0168	0.83%
Mn 257.610†	4808.9	0.0051 mg/L		0.00010	0.0051 mg/L	0.00010	1.96%
Mn 294.920†	1326.2	0.0027 mg/L		0.00018	0.0027 mg/L	0.00018	6.78%
Mo 202.031†	237.1	0.0116 mg/L		0.00024	0.0116 mg/L	0.00024	2.08%
Na 589.592†	91446.5	12.34 mg/L		0.027	12.34 mg/L	0.027	0.22%
Ni 231.604†	48.1	0.0004 mg/L		0.00020	0.0004 mg/L	0.00020	51.74%
P 214.914†	621.2	0.3739 mg/L		0.00082	0.3739 mg/L	0.00082	0.22%
Pb 220.353†	-76.9	-0.0026 mg/L		0.00010	-0.0026 mg/L	0.00010	3.94%
Sb 206.836†	-0.3	0.0043 mg/L		0.00218	0.0043 mg/L	0.00218	50.42%
Se 196.026†	-1.2	0.0038 mg/L		0.00034	0.0038 mg/L	0.00034	9.10%
Sn 189.927†	-264.9	-0.0194 mg/L		0.00011	-0.0194 mg/L	0.00011	0.57%
Sr 407.771†	64513.4	0.0549 mg/L		0.00028	0.0549 mg/L	0.00028	0.51%
Ti 337.279†	-268.4	0.0025 mg/L		0.00004	0.0025 mg/L	0.00004	1.55%
Tl 190.801†	7.8	0.0027 mg/L		0.00030	0.0027 mg/L	0.00030	11.21%
V 292.402†	-181.5	0.0018 mg/L		0.00038	0.0018 mg/L	0.00038	21.55%
Zn 213.857†	2517.5	0.0159 mg/L		0.00014	0.0159 mg/L	0.00014	0.90%

Sequence No.: 54

Sample ID: 1306337-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 6/25/2013 5:55:27 PM

Data Type: Reprocessed on 6/26/2013 10:56:52 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306337-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2633150.7	2633150.7	0.779 mg/L			17:57:50
1	Ag 328.068†	548.5	-32.5	0.0005 mg/L		0.0005 mg/L	17:57:50
1	Al 237.313†	235.7	690.1	0.0704 mg/L		0.0704 mg/L	17:58:00
1	As 188.979†	14.6	17.7	0.0135 mg/L		0.0135 mg/L	17:58:00
1	B 249.677†	4900.2	6307.4	2.577 mg/L		2.577 mg/L	17:57:15
1	B 182.528†	2064.9	2658.4	2.188 mg/L		2.188 mg/L	17:57:50
1	Ba 233.527†	1266.8	1714.4	0.0136 mg/L		0.0136 mg/L	17:58:00
1	Be 313.107†	-1850.0	-942.8	-0.0001 mg/L		-0.0001 mg/L	17:57:50
1	Ca 315.887†	17814387.5	22875752.8	204.7 mg/L		204.7 mg/L	17:57:47
1	Cd 228.802†	143.4	36.7	0.0025 mg/L		0.0025 mg/L	17:58:00
1	Co 228.616†	-129.7	11.4	-0.0019 mg/L		-0.0019 mg/L	17:58:00
1	Cr 267.716†	1039.1	623.5	0.0053 mg/L		0.0053 mg/L	17:58:00
1	Cu 324.752†	4611.6	1965.0	0.0097 mg/L		0.0097 mg/L	17:57:50
1	Fe 234.349†	676.3	870.0	0.1047 mg/L		0.1047 mg/L	17:57:25
1	K 766.490†	663288.1	850967.5	363.5 mg/L		363.5 mg/L	17:57:13

1	Li 670.784†	6953.4	9201.4	0.2180 mg/L	0.2180 mg/L	17:57:15
1	Mg 279.077†	7988870.3	10258032.1	666.1 mg/L	666.1 mg/L	17:57:47
1	Mn 257.610†	60495.4	61626.5	0.0661 mg/L	0.0661 mg/L	17:57:50
1	Mn 294.920†	17660.3	23317.8	0.0496 mg/L	0.0496 mg/L	17:57:50
1	Mo 202.031†	422.3	552.7	0.0234 mg/L	0.0234 mg/L	17:58:00
1	Na 589.592†	Saturated2	Saturated2			17:57:25
Saturated in preshot (code 2)						
1	Ni 231.604†	306.3	216.1	0.0035 mg/L	0.0035 mg/L	17:58:00
1	P 214.914†	436.0	605.9	0.3659 mg/L	0.3659 mg/L	17:58:00
1	Pb 220.353†	-2.1	-185.8	-0.0089 mg/L	-0.0089 mg/L	17:58:00
1	Sb 206.836†	53.8	24.2	0.0143 mg/L	0.0143 mg/L	17:58:00
1	Se 196.026†	53.6	51.9	0.0332 mg/L	0.0332 mg/L	17:58:00
1	Sn 189.927†	-1030.6	-1360.9	-0.0389 mg/L	-0.0389 mg/L	17:58:00
1	Sr 407.771†	4337701.0	5569694.0	4.715 mg/L	4.715 mg/L	17:57:13
1	Ti 337.279†	-234.4	996.9	0.0038 mg/L	0.0038 mg/L	17:57:50
1	Tl 190.801†	81.1	111.3	0.0519 mg/L	0.0519 mg/L	17:58:00
1	V 292.402†	-863.1	-206.4	0.0018 mg/L	0.0018 mg/L	17:58:00
1	Zn 213.857†	5175.0	5775.7	0.0359 mg/L	0.0359 mg/L	17:58:00
2	Y 371.029	2272836.0	2272836.0	0.672 mg/L		17:58:08
2	Ag 328.068†	493.6	-2.6	0.0007 mg/L	0.0007 mg/L	17:58:08
2	Al 237.313†	147.2	606.3	0.0627 mg/L	0.0627 mg/L	17:58:18
2	As 188.979†	3.8	4.6	0.0055 mg/L	0.0055 mg/L	17:58:18
2	B 249.677†	4841.2	7217.2	2.948 mg/L	2.948 mg/L	17:57:30
2	B 182.528†	2145.2	3198.3	2.632 mg/L	2.632 mg/L	17:58:08
2	Ba 233.527†	1254.9	1954.6	0.0154 mg/L	0.0154 mg/L	17:58:18
2	Be 313.107†	-1920.6	-1424.4	-0.0003 mg/L	-0.0003 mg/L	17:58:08
2	Ca 315.887†	18187604.2	27057364.7	242.2 mg/L	242.2 mg/L	17:58:05
2	Cd 228.802†	143.9	66.6	0.0033 mg/L	0.0033 mg/L	17:58:18
2	Co 228.616†	-134.3	-21.9	-0.0024 mg/L	-0.0024 mg/L	17:58:18
2	Cr 267.716†	1050.4	851.7	0.0070 mg/L	0.0070 mg/L	17:58:18
2	Cu 324.752†	4671.6	2992.9	0.0141 mg/L	0.0141 mg/L	17:58:08
2	Fe 234.349†	665.9	992.3	0.1037 mg/L	0.1037 mg/L	17:57:40
2	K 766.490†	666246.7	990391.7	423.1 mg/L	423.1 mg/L	17:57:28
2	Li 670.784†	6767.1	10339.6	0.2447 mg/L	0.2447 mg/L	17:57:30
2	Mg 279.077†	8154924.5	12131321.6	787.7 mg/L	787.7 mg/L	17:58:05
2	Mn 257.610†	61696.8	75728.5	0.0813 mg/L	0.0813 mg/L	17:58:08
2	Mn 294.920†	18126.6	27606.5	0.0587 mg/L	0.0587 mg/L	17:58:08
2	Mo 202.031†	427.6	646.6	0.0269 mg/L	0.0269 mg/L	17:58:18
2	Na 589.592†	Saturated2	Saturated2			17:57:40
Saturated in preshot (code 2)						
2	Ni 231.604†	301.8	271.8	0.0046 mg/L	0.0046 mg/L	17:58:18
2	P 214.914†	442.8	704.7	0.4176 mg/L	0.4176 mg/L	17:58:18
2	Pb 220.353†	-22.4	-216.5	-0.0107 mg/L	-0.0107 mg/L	17:58:18
2	Sb 206.836†	47.6	25.9	0.0150 mg/L	0.0150 mg/L	17:58:18
2	Se 196.026†	52.7	61.5	0.0385 mg/L	0.0385 mg/L	17:58:18
2	Sn 189.927†	-1031.2	-1571.5	-0.0417 mg/L	-0.0417 mg/L	17:58:18
2	Sr 407.771†	4353955.2	6476881.7	5.483 mg/L	5.483 mg/L	17:57:28
2	Ti 337.279†	-607.8	393.8	0.0032 mg/L	0.0032 mg/L	17:58:08
2	Tl 190.801†	88.0	138.0	0.0663 mg/L	0.0663 mg/L	17:58:18
2	V 292.402†	-821.0	-319.5	0.0014 mg/L	0.0014 mg/L	17:58:18
2	Zn 213.857†	5171.0	6823.2	0.0423 mg/L	0.0423 mg/L	17:58:18

Mean Data: 1306337-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2452993.4	0.725	mg/L	0.0754				10.39%
Ag 328.068†	-17.5	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	17.74%
Al 237.313†	648.2	0.0665	mg/L	0.00542	0.0665	mg/L	0.00542	8.15%
As 188.979†	11.2	0.0095	mg/L	0.00565	0.0095	mg/L	0.00565	59.69%
B 249.677†	6762.3	2.762	mg/L	0.2626	2.762	mg/L	0.2626	9.50%
B 182.528†	2928.4	2.410	mg/L	0.3137	2.410	mg/L	0.3137	13.02%
Ba 233.527†	1834.5	0.0145	mg/L	0.00129	0.0145	mg/L	0.00129	8.88%
Be 313.107†	-1183.6	-0.0002	mg/L	0.00012	-0.0002	mg/L	0.00012	58.93%
Ca 315.887†	24966558.8	223.5	mg/L	26.46	223.5	mg/L	26.46	11.84%
Cd 228.802†	51.7	0.0029	mg/L	0.00056	0.0029	mg/L	0.00056	19.65%
Co 228.616†	-5.3	-0.0021	mg/L	0.00037	-0.0021	mg/L	0.00037	17.33%
Cr 267.716†	737.6	0.0061	mg/L	0.00123	0.0061	mg/L	0.00123	20.04%
Cu 324.752†	2479.0	0.0119	mg/L	0.00310	0.0119	mg/L	0.00310	26.09%
Fe 234.349†	931.2	0.1042	mg/L	0.00071	0.1042	mg/L	0.00071	0.68%
K 766.490†	920679.6	393.3	mg/L	42.10	393.3	mg/L	42.10	10.70%
Li 670.784†	9770.5	0.2313	mg/L	0.01890	0.2313	mg/L	0.01890	8.17%
Mg 279.077†	11194676.8	726.9	mg/L	86.01	726.9	mg/L	86.01	11.83%

Mn 257.610†	68677.5	0.0737 mg/L	0.01072	0.0737 mg/L	0.01072	14.54%
Mn 294.920†	25462.2	0.0541 mg/L	0.00647	0.0541 mg/L	0.00647	11.95%
Mo 202.031†	599.6	0.0252 mg/L	0.00247	0.0252 mg/L	0.00247	9.81%
Na 589.592†	Saturated2					
Ni 231.604†	244.0	0.0041 mg/L	0.00074	0.0041 mg/L	0.00074	18.20%
P 214.914†	655.3	0.3918 mg/L	0.03658	0.3918 mg/L	0.03658	9.34%
Pb 220.353†	-201.1	-0.0098 mg/L	0.00126	-0.0098 mg/L	0.00126	12.89%
Sb 206.836†	25.1	0.0146 mg/L	0.00050	0.0146 mg/L	0.00050	3.40%
Se 196.026†	56.7	0.0359 mg/L	0.00375	0.0359 mg/L	0.00375	10.47%
Sn 189.927†	-1466.2	-0.0403 mg/L	0.00192	-0.0403 mg/L	0.00192	4.76%
Sr 407.771†	6023287.8	5.099 mg/L	0.5430	5.099 mg/L	0.5430	10.65%
Ti 337.279†	695.3	0.0035 mg/L	0.00044	0.0035 mg/L	0.00044	12.50%
Tl 190.801†	124.6	0.0591 mg/L	0.01016	0.0591 mg/L	0.01016	17.20%
V 292.402†	-262.9	0.0016 mg/L	0.00027	0.0016 mg/L	0.00027	16.83%
Zn 213.857†	6299.4	0.0391 mg/L	0.00454	0.0391 mg/L	0.00454	11.60%

Sequence No.: 55
Sample ID: 1306338-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/25/2013 6:01:28 PM
Data Type: Reprocessed on 6/26/2013 10:56:53 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306338-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2657778.3	2657778.3	0.786 mg/L		18:03:47
1	Ag 328.068†	572.7	-8.2	0.0006 mg/L	0.0006 mg/L	18:03:47
1	Al 237.313†	114.5	533.1	0.0560 mg/L	0.0560 mg/L	18:03:57
1	As 188.979†	0.5	-0.4	0.0024 mg/L	0.0024 mg/L	18:03:57
1	B 249.677†	2829.6	3614.9	1.478 mg/L	1.478 mg/L	18:03:24
1	B 182.528†	1283.6	1639.9	1.351 mg/L	1.351 mg/L	18:03:47
1	Ba 233.527†	1765.9	2334.3	0.0183 mg/L	0.0183 mg/L	18:03:57
1	Be 313.107†	-1828.6	-893.5	-0.0001 mg/L	-0.0001 mg/L	18:03:47
1	Ca 315.887†	11171386.9	14212709.1	127.2 mg/L	127.2 mg/L	18:03:44
1	Cd 228.802†	143.5	35.1	0.0024 mg/L	0.0024 mg/L	18:03:57
1	Co 228.616†	-154.2	-18.2	-0.0024 mg/L	-0.0024 mg/L	18:03:57
1	Cr 267.716†	879.5	408.1	0.0036 mg/L	0.0036 mg/L	18:03:57
1	Cu 324.752†	4747.7	2083.3	0.0102 mg/L	0.0102 mg/L	18:03:47
1	Fe 234.349†	734.2	935.7	0.2647 mg/L	0.2647 mg/L	18:03:24
1	K 766.490†	340368.6	432264.3	184.7 mg/L	184.7 mg/L	18:03:12
1	Li 670.784†	3240.6	4395.2	0.1051 mg/L	0.1051 mg/L	18:03:14
1	Mg 279.077†	4838054.0	6154577.4	399.6 mg/L	399.6 mg/L	18:03:44
1	Mn 257.610†	73187.1	77052.8	0.0827 mg/L	0.0827 mg/L	18:03:47
1	Mn 294.920†	24295.3	31548.6	0.0671 mg/L	0.0671 mg/L	18:03:47
1	Mo 202.031†	344.6	448.8	0.0195 mg/L	0.0195 mg/L	18:03:57
1	Na 589.592†	Saturated2	Saturated2			18:03:24
Saturated in preshot (code 2)						
1	Ni 231.604†	266.7	162.1	0.0025 mg/L	0.0025 mg/L	18:03:57
1	P 214.914†	652.2	875.7	0.5074 mg/L	0.5074 mg/L	18:03:57
1	Pb 220.353†	66.4	-98.6	-0.0038 mg/L	-0.0038 mg/L	18:03:57
1	Sb 206.836†	53.5	23.3	0.0138 mg/L	0.0138 mg/L	18:03:57
1	Se 196.026†	47.2	43.2	0.0284 mg/L	0.0284 mg/L	18:03:57
1	Sn 189.927†	-907.4	-1191.8	-0.0661 mg/L	-0.0661 mg/L	18:03:57
1	Sr 407.771†	2511899.4	3195337.1	2.705 mg/L	2.705 mg/L	18:03:12
1	Ti 337.279†	-97.8	1173.5	0.0040 mg/L	0.0040 mg/L	18:03:47
1	Tl 190.801†	44.9	64.3	0.0284 mg/L	0.0284 mg/L	18:03:57
1	V 292.402†	-829.3	-153.2	0.0020 mg/L	0.0020 mg/L	18:03:57
1	Zn 213.857†	4120.2	4372.2	0.0273 mg/L	0.0273 mg/L	18:03:57
2	Y 371.029	2603947.9	2603947.9	0.770 mg/L		18:04:04
2	Ag 328.068†	556.9	-13.7	0.0006 mg/L	0.0006 mg/L	18:04:04
2	Al 237.313†	132.6	559.7	0.0584 mg/L	0.0584 mg/L	18:04:14
2	As 188.979†	-3.3	-5.3	-0.0006 mg/L	-0.0006 mg/L	18:04:14
2	B 249.677†	2713.4	3538.5	1.447 mg/L	1.447 mg/L	18:03:39
2	B 182.528†	1262.5	1646.2	1.356 mg/L	1.356 mg/L	18:04:04
2	Ba 233.527†	1787.4	2408.7	0.0189 mg/L	0.0189 mg/L	18:04:14
2	Be 313.107†	-1798.4	-902.4	-0.0001 mg/L	-0.0001 mg/L	18:04:04
2	Ca 315.887†	11145611.6	14473039.5	129.5 mg/L	129.5 mg/L	18:04:00
2	Cd 228.802†	147.8	44.5	0.0027 mg/L	0.0027 mg/L	18:04:14
2	Co 228.616†	-145.5	-11.0	-0.0022 mg/L	-0.0022 mg/L	18:04:14
2	Cr 267.716†	854.7	399.0	0.0036 mg/L	0.0036 mg/L	18:04:14

2	Cu 324.752†	4650.8	2082.3	0.0102 mg/L	0.0102 mg/L	18:04:04
2	Fe 234.349†	715.6	930.8	0.2585 mg/L	0.2585 mg/L	18:03:39
2	K 766.490†	331455.4	429642.2	183.6 mg/L	183.6 mg/L	18:03:27
2	Li 670.784†	2942.5	4093.4	0.0980 mg/L	0.0980 mg/L	18:03:29
2	Mg 279.077†	4824123.5	6263726.1	406.7 mg/L	406.7 mg/L	18:04:00
2	Mn 257.610†	72547.5	78147.1	0.0839 mg/L	0.0839 mg/L	18:04:04
2	Mn 294.920†	24151.4	32000.6	0.0681 mg/L	0.0681 mg/L	18:04:04
2	Mo 202.031†	334.2	444.4	0.0194 mg/L	0.0194 mg/L	18:04:14
2	Na 589.592†	Saturated2	Saturated2			18:03:39
Saturated in preshot (code 2)						
2	Ni 231.604†	273.0	177.4	0.0028 mg/L	0.0028 mg/L	18:04:14
2	P 214.914†	679.6	928.5	0.5351 mg/L	0.5351 mg/L	18:04:14
2	Pb 220.353†	47.1	-122.0	-0.0052 mg/L	-0.0052 mg/L	18:04:14
2	Sb 206.836†	37.2	3.5	0.0057 mg/L	0.0057 mg/L	18:04:14
2	Se 196.026†	46.7	43.8	0.0287 mg/L	0.0287 mg/L	18:04:14
2	Sn 189.927†	-900.0	-1206.1	-0.0664 mg/L	-0.0664 mg/L	18:04:14
2	Sr 407.771†	2419963.1	3142021.0	2.660 mg/L	2.660 mg/L	18:03:27
2	Ti 337.279†	-372.3	814.5	0.0036 mg/L	0.0036 mg/L	18:04:04
2	Tl 190.801†	46.4	67.4	0.0304 mg/L	0.0304 mg/L	18:04:14
2	V 292.402†	-885.7	-248.1	0.0016 mg/L	0.0016 mg/L	18:04:14
2	Zn 213.857†	4107.6	4464.2	0.0279 mg/L	0.0279 mg/L	18:04:14

Mean Data: 1306338-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2630863.1	0.778	mg/L	0.0113			1.45%
Ag 328.068†	-11.0	0.0006	mg/L	0.00002	0.0006 mg/L	0.00002	3.06%
Al 237.313†	546.4	0.0572	mg/L	0.00172	0.0572 mg/L	0.00172	3.01%
As 188.979†	-2.8	0.0009	mg/L	0.00213	0.0009 mg/L	0.00213	236.62%
B 249.677†	3576.7	1.462	mg/L	0.0221	1.462 mg/L	0.0221	1.51%
B 182.528†	1643.1	1.354	mg/L	0.0037	1.354 mg/L	0.0037	0.27%
Ba 233.527†	2371.5	0.0186	mg/L	0.00040	0.0186 mg/L	0.00040	2.15%
Be 313.107†	-897.9	-0.0001	mg/L	0.00000	-0.0001 mg/L	0.00000	2.08%
Ca 315.887†	14342874.3	128.4	mg/L	1.65	128.4 mg/L	1.65	1.28%
Cd 228.802†	39.8	0.0026	mg/L	0.00018	0.0026 mg/L	0.00018	6.95%
Co 228.616†	-14.6	-0.0023	mg/L	0.00008	-0.0023 mg/L	0.00008	3.55%
Cr 267.716†	403.5	0.0036	mg/L	0.00005	0.0036 mg/L	0.00005	1.36%
Cu 324.752†	2082.8	0.0102	mg/L	0.00000	0.0102 mg/L	0.00000	0.03%
Fe 234.349†	933.3	0.2616	mg/L	0.00442	0.2616 mg/L	0.00442	1.69%
K 766.490†	430953.2	184.2	mg/L	0.79	184.2 mg/L	0.79	0.43%
Li 670.784†	4244.3	0.1016	mg/L	0.00501	0.1016 mg/L	0.00501	4.94%
Mg 279.077†	6209151.8	403.2	mg/L	5.01	403.2 mg/L	5.01	1.24%
Mn 257.610†	77599.9	0.0833	mg/L	0.00083	0.0833 mg/L	0.00083	1.00%
Mn 294.920†	31774.6	0.0676	mg/L	0.00068	0.0676 mg/L	0.00068	1.01%
Mo 202.031†	446.6	0.0194	mg/L	0.00012	0.0194 mg/L	0.00012	0.60%
Na 589.592†	Saturated2						
Ni 231.604†	169.7	0.0027	mg/L	0.00020	0.0027 mg/L	0.00020	7.54%
P 214.914†	902.1	0.5212	mg/L	0.01958	0.5212 mg/L	0.01958	3.76%
Pb 220.353†	-110.3	-0.0045	mg/L	0.00097	-0.0045 mg/L	0.00097	21.54%
Sb 206.836†	13.4	0.0098	mg/L	0.00573	0.0098 mg/L	0.00573	58.63%
Se 196.026†	43.5	0.0286	mg/L	0.00022	0.0286 mg/L	0.00022	0.77%
Sn 189.927†	-1198.9	-0.0663	mg/L	0.00022	-0.0663 mg/L	0.00022	0.34%
Sr 407.771†	3168679.1	2.683	mg/L	0.0319	2.683 mg/L	0.0319	1.19%
Ti 337.279†	994.0	0.0038	mg/L	0.00026	0.0038 mg/L	0.00026	6.84%
Tl 190.801†	65.8	0.0294	mg/L	0.00140	0.0294 mg/L	0.00140	4.78%
V 292.402†	-200.7	0.0018	mg/L	0.00026	0.0018 mg/L	0.00026	14.77%
Zn 213.857†	4418.2	0.0276	mg/L	0.00040	0.0276 mg/L	0.00040	1.44%

Sequence No.: 56

Sample ID: 1306339-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 6/25/2013 6:07:24 PM

Data Type: Reprocessed on 6/26/2013 10:56:53 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306339-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3197244.1	3197244.1	0.946 mg/L		18:09:29
1	Ag 328.068†	608.3	-93.5	0.0002 mg/L	0.0002 mg/L	18:09:31

1	Al 237.313†	-192.3	184.1	0.0240	mg/L	0.0240	mg/L	18:09:41
1	As 188.979†	-1.6	-2.7	0.0010	mg/L	0.0010	mg/L	18:09:41
1	B 249.677†	9.7	25.4	0.0129	mg/L	0.0129	mg/L	18:09:13
1	B 182.528†	3.9	11.1	0.0130	mg/L	0.0130	mg/L	18:09:41
1	Ba 233.527†	2.1	90.0	0.0013	mg/L	0.0013	mg/L	18:09:41
1	Be 313.107†	-1535.0	-190.5	0.0001	mg/L	0.0001	mg/L	18:09:31
1	Ca 315.887†	965082.7	1021317.4	9.149	mg/L	9.149	mg/L	18:09:29
1	Cd 228.802†	143.4	4.2	0.0016	mg/L	0.0016	mg/L	18:09:41
1	Co 228.616†	-193.4	-26.6	-0.0025	mg/L	-0.0025	mg/L	18:09:41
1	Cr 267.716†	690.9	19.8	0.0007	mg/L	0.0007	mg/L	18:09:31
1	Cu 324.752†	6508.8	2926.5	0.0138	mg/L	0.0138	mg/L	18:09:31
1	Fe 234.349†	78.2	84.3	0.0373	mg/L	0.0373	mg/L	18:09:13
1	K 766.490†	4641.9	4163.8	1.921	mg/L	1.921	mg/L	18:09:02
1	Li 670.784†	-353.7	-101.5	-0.0005	mg/L	-0.0005	mg/L	18:09:02
1	Mg 279.077†	12805.9	13254.7	0.8587	mg/L	0.8587	mg/L	18:09:31
1	Mn 257.610†	21092.5	6251.6	0.0066	mg/L	0.0066	mg/L	18:09:41
1	Mn 294.920†	1398.2	2119.2	0.0043	mg/L	0.0043	mg/L	18:09:31
1	Mo 202.031†	82.2	97.3	0.0064	mg/L	0.0064	mg/L	18:09:41
1	Na 589.592†	82245.3	82750.1	11.17	mg/L	11.17	mg/L	18:09:02
1	Ni 231.604†	215.7	51.0	0.0004	mg/L	0.0004	mg/L	18:09:41
1	P 214.914†	899.4	997.2	0.5712	mg/L	0.5712	mg/L	18:09:41
1	Pb 220.353†	151.7	-22.7	0.0006	mg/L	0.0006	mg/L	18:09:41
1	Sb 206.836†	43.0	0.7	0.0047	mg/L	0.0047	mg/L	18:09:41
1	Se 196.026†	11.6	-4.6	0.0019	mg/L	0.0019	mg/L	18:09:41
1	Sn 189.927†	-122.1	-166.6	-0.0132	mg/L	-0.0132	mg/L	18:09:41
1	Sr 407.771†	21965.4	22983.4	0.0198	mg/L	0.0198	mg/L	18:09:02
1	Ti 337.279†	-1616.8	-411.9	0.0024	mg/L	0.0024	mg/L	18:09:31
1	Tl 190.801†	-0.4	6.7	0.0033	mg/L	0.0033	mg/L	18:09:41
1	V 292.402†	-1022.1	-179.0	0.0017	mg/L	0.0017	mg/L	18:09:31
1	Zn 213.857†	3950.1	3307.9	0.0208	mg/L	0.0208	mg/L	18:09:41
2	Y 371.029	3181025.1	3181025.1	0.941	mg/L			18:09:44
2	Ag 328.068†	597.6	-101.6	0.0002	mg/L	0.0002	mg/L	18:09:46
2	Al 237.313†	-171.4	205.2	0.0259	mg/L	0.0259	mg/L	18:09:56
2	As 188.979†	-5.6	-6.9	-0.0016	mg/L	-0.0016	mg/L	18:09:56
2	B 249.677†	12.1	28.1	0.0140	mg/L	0.0140	mg/L	18:09:25
2	B 182.528†	4.1	11.3	0.0131	mg/L	0.0131	mg/L	18:09:56
2	Ba 233.527†	16.6	105.4	0.0014	mg/L	0.0014	mg/L	18:09:56
2	Be 313.107†	-1482.9	-143.4	0.0002	mg/L	0.0002	mg/L	18:09:46
2	Ca 315.887†	955424.4	1016255.1	9.104	mg/L	9.104	mg/L	18:09:44
2	Cd 228.802†	155.9	18.2	0.0020	mg/L	0.0020	mg/L	18:09:56
2	Co 228.616†	-186.6	-20.4	-0.0024	mg/L	-0.0024	mg/L	18:09:56
2	Cr 267.716†	683.8	16.1	0.0006	mg/L	0.0006	mg/L	18:09:46
2	Cu 324.752†	6621.9	3081.8	0.0145	mg/L	0.0145	mg/L	18:09:46
2	Fe 234.349†	77.6	84.2	0.0373	mg/L	0.0373	mg/L	18:09:25
2	K 766.490†	4555.2	4096.7	1.893	mg/L	1.893	mg/L	18:09:15
2	Li 670.784†	-273.3	-17.9	0.0015	mg/L	0.0015	mg/L	18:09:15
2	Mg 279.077†	12968.9	13497.0	0.8744	mg/L	0.8744	mg/L	18:09:46
2	Mn 257.610†	21064.0	6335.0	0.0067	mg/L	0.0067	mg/L	18:09:56
2	Mn 294.920†	1360.7	2086.9	0.0043	mg/L	0.0043	mg/L	18:09:46
2	Mo 202.031†	37.1	49.9	0.0046	mg/L	0.0046	mg/L	18:09:56
2	Na 589.592†	81616.4	82525.0	11.14	mg/L	11.14	mg/L	18:09:15
2	Ni 231.604†	221.6	58.4	0.0006	mg/L	0.0006	mg/L	18:09:56
2	P 214.914†	891.0	993.1	0.5690	mg/L	0.5690	mg/L	18:09:56
2	Pb 220.353†	126.1	-49.1	-0.0009	mg/L	-0.0009	mg/L	18:09:56
2	Sb 206.836†	32.3	-10.5	0.0001	mg/L	0.0001	mg/L	18:09:56
2	Se 196.026†	14.0	-2.0	0.0033	mg/L	0.0033	mg/L	18:09:56
2	Sn 189.927†	-129.7	-175.3	-0.0143	mg/L	-0.0143	mg/L	18:09:56
2	Sr 407.771†	21929.8	23064.0	0.0198	mg/L	0.0198	mg/L	18:09:15
2	Ti 337.279†	-1667.8	-474.8	0.0023	mg/L	0.0023	mg/L	18:09:46
2	Tl 190.801†	0.1	7.2	0.0037	mg/L	0.0037	mg/L	18:09:56
2	V 292.402†	-881.9	-35.6	0.0022	mg/L	0.0022	mg/L	18:09:46
2	Zn 213.857†	3940.1	3318.6	0.0208	mg/L	0.0208	mg/L	18:09:56

Mean Data: 1306339-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3189134.6	0.943	mg/L	0.0034				0.36%
Ag 328.068†	-97.6	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	14.88%
Al 237.313†	194.6	0.0249	mg/L	0.00137	0.0249	mg/L	0.00137	5.50%
As 188.979†	-4.8	-0.0003	mg/L	0.00182	-0.0003	mg/L	0.00182	556.99%
B 249.677†	26.7	0.0134	mg/L	0.00076	0.0134	mg/L	0.00076	5.66%
B 182.528†	11.2	0.0131	mg/L	0.00011	0.0131	mg/L	0.00011	0.83%

Ba 233.527†	97.7	0.0013 mg/L	0.00008	0.0013 mg/L	0.00008	6.16%
Be 313.107†	-167.0	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	7.58%
Ca 315.887†	1018786.2	9.126 mg/L	0.0320	9.126 mg/L	0.0320	0.35%
Cd 228.802†	11.2	0.0018 mg/L	0.00027	0.0018 mg/L	0.00027	14.78%
Co 228.616†	-23.5	-0.0024 mg/L	0.00007	-0.0024 mg/L	0.00007	2.83%
Cr 267.716†	17.9	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	3.25%
Cu 324.752†	3004.2	0.0141 mg/L	0.00047	0.0141 mg/L	0.00047	3.32%
Fe 234.349†	84.2	0.0373 mg/L	0.00001	0.0373 mg/L	0.00001	0.02%
K 766.490†	4130.3	1.907 mg/L	0.0202	1.907 mg/L	0.0202	1.06%
Li 670.784†	-59.7	0.0005 mg/L	0.00139	0.0005 mg/L	0.00139	280.60%
Mg 279.077†	13375.8	0.8666 mg/L	0.01113	0.8666 mg/L	0.01113	1.28%
Mn 257.610†	6293.3	0.0067 mg/L	0.00006	0.0067 mg/L	0.00006	0.95%
Mn 294.920†	2103.0	0.0043 mg/L	0.00005	0.0043 mg/L	0.00005	1.13%
Mo 202.031†	73.6	0.0055 mg/L	0.00126	0.0055 mg/L	0.00126	23.11%
Na 589.592†	82637.5	11.16 mg/L	0.021	11.16 mg/L	0.021	0.19%
Ni 231.604†	54.7	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	19.10%
P 214.914†	995.2	0.5701 mg/L	0.00151	0.5701 mg/L	0.00151	0.26%
Pb 220.353†	-35.9	-0.0002 mg/L	0.00110	-0.0002 mg/L	0.00110	630.88%
Sb 206.836†	-4.9	0.0024 mg/L	0.00325	0.0024 mg/L	0.00325	137.34%
Se 196.026†	-3.3	0.0026 mg/L	0.00102	0.0026 mg/L	0.00102	39.40%
Sn 189.927†	-171.0	-0.0138 mg/L	0.00078	-0.0138 mg/L	0.00078	5.63%
Sr 407.771†	23023.7	0.0198 mg/L	0.00005	0.0198 mg/L	0.00005	0.24%
Ti 337.279†	-443.4	0.0023 mg/L	0.00005	0.0023 mg/L	0.00005	1.96%
Tl 190.801†	7.0	0.0035 mg/L	0.00027	0.0035 mg/L	0.00027	7.61%
V 292.402†	-107.3	0.0020 mg/L	0.00038	0.0020 mg/L	0.00038	19.43%
Zn 213.857†	3313.3	0.0208 mg/L	0.00005	0.0208 mg/L	0.00005	0.22%

Sequence No.: 57
Sample ID: 1306340-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 6/25/2013 6:12:07 PM
Data Type: Reprocessed on 6/26/2013 10:56:54 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306340-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3284222.7	3284222.7	0.971	mg/L			18:14:15
1	Ag 328.068†	592.0	-127.3	0.0000	mg/L	0.0000	mg/L	18:14:17
1	Al 237.313†	1193.8	1616.4	0.1553	mg/L	0.1553	mg/L	18:14:27
1	As 188.979†	-0.0	-1.1	0.0020	mg/L	0.0020	mg/L	18:14:27
1	B 249.677†	3.1	18.4	0.0100	mg/L	0.0100	mg/L	18:13:58
1	B 182.528†	8.3	15.5	0.0166	mg/L	0.0166	mg/L	18:14:27
1	Ba 233.527†	3902.1	4105.0	0.0317	mg/L	0.0317	mg/L	18:14:27
1	Be 313.107†	-279.0	1145.5	0.0006	mg/L	0.0006	mg/L	18:14:17
1	Ca 315.887†	309265.3	319112.2	2.864	mg/L	2.864	mg/L	18:14:15
1	Cd 228.802†	143.2	0.0	0.0015	mg/L	0.0015	mg/L	18:14:27
1	Co 228.616†	-155.7	17.6	-0.0018	mg/L	-0.0018	mg/L	18:14:27
1	Cr 267.716†	625.4	-66.9	0.0000	mg/L	0.0000	mg/L	18:14:17
1	Cu 324.752†	12882.7	9306.3	0.0411	mg/L	0.0411	mg/L	18:14:17
1	Fe 234.349†	66.6	70.3	0.0407	mg/L	0.0407	mg/L	18:13:58
1	K 766.490†	4112.7	3489.0	1.633	mg/L	1.633	mg/L	18:13:48
1	Li 670.784†	-370.0	-108.3	-0.0006	mg/L	-0.0006	mg/L	18:13:48
1	Mg 279.077†	14056.6	14183.6	0.9191	mg/L	0.9191	mg/L	18:14:17
1	Mn 257.610†	58936.0	44621.4	0.0479	mg/L	0.0479	mg/L	18:14:17
1	Mn 294.920†	20533.6	21780.3	0.0463	mg/L	0.0463	mg/L	18:14:17
1	Mo 202.031†	1.2	11.6	0.0030	mg/L	0.0030	mg/L	18:14:27
1	Na 589.592†	154053.4	154374.3	20.77	mg/L	20.77	mg/L	18:13:48
1	Ni 231.604†	221.4	50.8	0.0004	mg/L	0.0004	mg/L	18:14:27
1	P 214.914†	918.3	991.4	0.5679	mg/L	0.5679	mg/L	18:14:27
1	Pb 220.353†	149.2	-29.6	0.0001	mg/L	0.0001	mg/L	18:14:27
1	Sb 206.836†	33.3	-10.5	0.0001	mg/L	0.0001	mg/L	18:14:27
1	Se 196.026†	19.1	2.8	0.0060	mg/L	0.0060	mg/L	18:14:27
1	Sn 189.927†	-3.1	-40.7	-0.0016	mg/L	-0.0016	mg/L	18:14:27
1	Sr 407.771†	27464.8	28029.9	0.0240	mg/L	0.0240	mg/L	18:13:48
1	Ti 337.279†	-375.7	911.1	0.0037	mg/L	0.0037	mg/L	18:14:17
1	Tl 190.801†	-10.2	-3.4	-0.0034	mg/L	-0.0034	mg/L	18:14:27
1	V 292.402†	-938.6	-64.5	0.0021	mg/L	0.0021	mg/L	18:14:17
1	Zn 213.857†	4176.6	3430.5	0.0215	mg/L	0.0215	mg/L	18:14:27
2	Y 371.029	3305165.7	3305165.7	0.978	mg/L			18:14:30
2	Ag 328.068†	674.2	-47.1	0.0004	mg/L	0.0004	mg/L	18:14:32

2	Al	237.313†	1167.7	1581.9	0.1521 mg/L	0.1521 mg/L	18:14:42
2	As	188.979†	2.8	1.8	0.0037 mg/L	0.0037 mg/L	18:14:42
2	B	249.677†	15.1	30.6	0.0150 mg/L	0.0150 mg/L	18:14:11
2	B	182.528†	5.3	12.4	0.0141 mg/L	0.0141 mg/L	18:14:42
2	Ba	233.527†	3881.2	4058.2	0.0314 mg/L	0.0314 mg/L	18:14:42
2	Be	313.107†	-294.7	1131.3	0.0006 mg/L	0.0006 mg/L	18:14:32
2	Ca	315.887†	311544.0	319425.8	2.867 mg/L	2.867 mg/L	18:14:30
2	Cd	228.802†	162.4	18.7	0.0020 mg/L	0.0020 mg/L	18:14:42
2	Co	228.616†	-184.5	-10.8	-0.0023 mg/L	-0.0023 mg/L	18:14:42
2	Cr	267.716†	619.9	-76.6	-0.0001 mg/L	-0.0001 mg/L	18:14:32
2	Cu	324.752†	12825.2	9163.4	0.0405 mg/L	0.0405 mg/L	18:14:32
2	Fe	234.349†	67.0	70.2	0.0406 mg/L	0.0406 mg/L	18:14:11
2	K	766.490†	4019.3	3366.7	1.581 mg/L	1.581 mg/L	18:14:01
2	Li	670.784†	-298.0	-32.2	0.0011 mg/L	0.0011 mg/L	18:14:01
2	Mg	279.077†	14064.5	14100.1	0.9136 mg/L	0.9136 mg/L	18:14:32
2	Mn	257.610†	59164.0	44470.3	0.0478 mg/L	0.0478 mg/L	18:14:32
2	Mn	294.920†	20620.0	21734.8	0.0462 mg/L	0.0462 mg/L	18:14:32
2	Mo	202.031†	3.2	13.7	0.0031 mg/L	0.0031 mg/L	18:14:42
2	Na	589.592†	154158.2	153476.6	20.65 mg/L	20.65 mg/L	18:14:01
2	Ni	231.604†	213.8	41.6	0.0003 mg/L	0.0003 mg/L	18:14:42
2	P	214.914†	901.9	968.7	0.5560 mg/L	0.5560 mg/L	18:14:42
2	Pb	220.353†	146.4	-33.4	-0.0001 mg/L	-0.0001 mg/L	18:14:42
2	Sb	206.836†	36.3	-7.7	0.0012 mg/L	0.0012 mg/L	18:14:42
2	Se	196.026†	16.1	-0.4	0.0042 mg/L	0.0042 mg/L	18:14:42
2	Sn	189.927†	-15.1	-52.9	-0.0032 mg/L	-0.0032 mg/L	18:14:42
2	Sr	407.771†	27445.7	27831.2	0.0239 mg/L	0.0239 mg/L	18:14:01
2	Ti	337.279†	-398.8	889.9	0.0037 mg/L	0.0037 mg/L	18:14:32
2	Tl	190.801†	-7.0	-0.0	-0.0008 mg/L	-0.0008 mg/L	18:14:42
2	V	292.402†	-1020.5	-142.1	0.0018 mg/L	0.0018 mg/L	18:14:32
2	Zn	213.857†	4201.1	3428.3	0.0215 mg/L	0.0215 mg/L	18:14:42

Mean Data: 1306340-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3294694.2	0.974 mg/L	0.0044			0.45%
Ag 328.068†	-87.2	0.0002 mg/L	0.00027	0.0002 mg/L	0.00027	116.93%
Al 237.313†	1599.2	0.1537 mg/L	0.00224	0.1537 mg/L	0.00224	1.45%
As 188.979†	0.4	0.0029 mg/L	0.00123	0.0029 mg/L	0.00123	43.09%
B 249.677†	24.5	0.0125 mg/L	0.00353	0.0125 mg/L	0.00353	28.19%
B 182.528†	14.0	0.0153 mg/L	0.00182	0.0153 mg/L	0.00182	11.85%
Ba 233.527†	4081.6	0.0315 mg/L	0.00025	0.0315 mg/L	0.00025	0.80%
Be 313.107†	1138.4	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.57%
Ca 315.887†	319269.0	2.866 mg/L	0.0020	2.866 mg/L	0.0020	0.07%
Cd 228.802†	9.3	0.0017 mg/L	0.00035	0.0017 mg/L	0.00035	20.14%
Co 228.616†	3.4	-0.0020 mg/L	0.00032	-0.0020 mg/L	0.00032	15.80%
Cr 267.716†	-71.8	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	136.42%
Cu 324.752†	9234.8	0.0408 mg/L	0.00043	0.0408 mg/L	0.00043	1.06%
Fe 234.349†	70.2	0.0407 mg/L	0.00003	0.0407 mg/L	0.00003	0.08%
K 766.490†	3427.8	1.607 mg/L	0.0369	1.607 mg/L	0.0369	2.30%
Li 670.784†	-70.3	0.0002 mg/L	0.00126	0.0002 mg/L	0.00126	513.44%
Mg 279.077†	14141.8	0.9164 mg/L	0.00384	0.9164 mg/L	0.00384	0.42%
Mn 257.610†	44545.8	0.0478 mg/L	0.00011	0.0478 mg/L	0.00011	0.24%
Mn 294.920†	21757.6	0.0462 mg/L	0.00007	0.0462 mg/L	0.00007	0.15%
Mo 202.031†	12.7	0.0030 mg/L	0.00006	0.0030 mg/L	0.00006	1.85%
Na 589.592†	153925.4	20.71 mg/L	0.085	20.71 mg/L	0.085	0.41%
Ni 231.604†	46.2	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	35.81%
P 214.914†	980.1	0.5619 mg/L	0.00841	0.5619 mg/L	0.00841	1.50%
Pb 220.353†	-31.5	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	456.18%
Sb 206.836†	-9.1	0.0006 mg/L	0.00082	0.0006 mg/L	0.00082	127.87%
Se 196.026†	1.2	0.0051 mg/L	0.00124	0.0051 mg/L	0.00124	24.35%
Sn 189.927†	-46.8	-0.0024 mg/L	0.00106	-0.0024 mg/L	0.00106	44.37%
Sr 407.771†	27930.6	0.0239 mg/L	0.00012	0.0239 mg/L	0.00012	0.50%
Ti 337.279†	900.5	0.0037 mg/L	0.00002	0.0037 mg/L	0.00002	0.41%
Tl 190.801†	-1.7	-0.0021 mg/L	0.00180	-0.0021 mg/L	0.00180	86.23%
V 292.402†	-103.3	0.0019 mg/L	0.00021	0.0019 mg/L	0.00021	11.10%
Zn 213.857†	3429.4	0.0215 mg/L	0.00001	0.0215 mg/L	0.00001	0.04%

Sequence No.: 58

Sample ID: CF32127-BLK2

Analyst:

Logged In Analyst (Original) : ICP3

Autosampler Location: 42

Date Collected: 6/25/2013 6:16:18 PM

Data Type: Reprocessed on 6/26/2013 10:56:55 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32127-BLK2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3250611.8	3250611.8	0.961	mg/L			18:18:23
1	Ag 328.068†	716.2	8.2	0.0007	mg/L	0.0007	mg/L	18:18:25
1	Al 237.313†	-224.3	154.1	0.0212	mg/L	0.0212	mg/L	18:18:25
1	As 188.979†	-2.1	-3.2	0.0007	mg/L	0.0007	mg/L	18:18:35
1	B 249.677†	5.6	21.1	0.0111	mg/L	0.0111	mg/L	18:18:07
1	B 182.528†	7.5	14.7	0.0160	mg/L	0.0160	mg/L	18:18:35
1	Ba 233.527†	-63.9	21.3	0.0008	mg/L	0.0008	mg/L	18:18:35
1	Be 313.107†	-1337.5	41.5	0.0002	mg/L	0.0002	mg/L	18:18:25
1	Ca 315.887†	3340.2	4192.4	0.0458	mg/L	0.0458	mg/L	18:18:25
1	Cd 228.802†	150.3	8.8	0.0017	mg/L	0.0017	mg/L	18:18:35
1	Co 228.616†	-149.4	22.5	-0.0017	mg/L	-0.0017	mg/L	18:18:35
1	Cr 267.716†	774.2	94.4	0.0012	mg/L	0.0012	mg/L	18:18:25
1	Cu 324.752†	4216.8	429.5	0.0032	mg/L	0.0032	mg/L	18:18:25
1	Fe 234.349†	24.5	27.1	0.0239	mg/L	0.0239	mg/L	18:18:07
1	K 766.490†	1276.6	582.8	0.3923	mg/L	0.3923	mg/L	18:17:57
1	Li 670.784†	-178.0	87.4	0.0039	mg/L	0.0039	mg/L	18:17:57
1	Mg 279.077†	445.5	175.5	0.0094	mg/L	0.0094	mg/L	18:18:25
1	Mn 257.610†	17371.4	2014.8	0.0021	mg/L	0.0021	mg/L	18:18:25
1	Mn 294.920†	-223.9	407.7	0.0007	mg/L	0.0007	mg/L	18:18:25
1	Mo 202.031†	-32.9	-23.8	0.0019	mg/L	0.0019	mg/L	18:18:35
1	Na 589.592†	26305.7	23135.8	3.187	mg/L	3.187	mg/L	18:17:57
1	Ni 231.604†	262.6	96.0	0.0013	mg/L	0.0013	mg/L	18:18:25
1	P 214.914†	2012.7	2139.6	1.170	mg/L	1.170	mg/L	18:18:35
1	Pb 220.353†	97.4	-81.9	-0.0029	mg/L	-0.0029	mg/L	18:18:35
1	Sb 206.836†	28.1	-15.6	-0.0020	mg/L	-0.0020	mg/L	18:18:35
1	Se 196.026†	19.7	3.6	0.0064	mg/L	0.0064	mg/L	18:18:35
1	Sn 189.927†	66.4	31.6	0.0055	mg/L	0.0055	mg/L	18:18:35
1	Sr 407.771†	244.2	8.4	0.0003	mg/L	0.0003	mg/L	18:17:57
1	Ti 337.279†	-1301.5	-55.9	0.0027	mg/L	0.0027	mg/L	18:18:25
1	Tl 190.801†	-9.6	-2.8	-0.0025	mg/L	-0.0025	mg/L	18:18:35
1	V 292.402†	-1026.5	-165.9	0.0017	mg/L	0.0017	mg/L	18:18:25
1	Zn 213.857†	2174.5	1392.4	0.0090	mg/L	0.0090	mg/L	18:18:35
2	Y 371.029	3204111.5	3204111.5	0.948	mg/L			18:18:38
2	Ag 328.068†	692.5	-6.0	0.0006	mg/L	0.0006	mg/L	18:18:40
2	Al 237.313†	-146.2	233.1	0.0285	mg/L	0.0285	mg/L	18:18:40
2	As 188.979†	-1.8	-2.9	0.0009	mg/L	0.0009	mg/L	18:18:50
2	B 249.677†	12.0	27.9	0.0139	mg/L	0.0139	mg/L	18:18:19
2	B 182.528†	6.3	13.6	0.0151	mg/L	0.0151	mg/L	18:18:50
2	Ba 233.527†	-33.4	52.5	0.0010	mg/L	0.0010	mg/L	18:18:50
2	Be 313.107†	-1342.9	15.6	0.0002	mg/L	0.0002	mg/L	18:18:40
2	Ca 315.887†	3325.0	4226.7	0.0461	mg/L	0.0461	mg/L	18:18:40
2	Cd 228.802†	148.7	9.5	0.0018	mg/L	0.0018	mg/L	18:18:50
2	Co 228.616†	-141.5	28.6	-0.0016	mg/L	-0.0016	mg/L	18:18:50
2	Cr 267.716†	760.1	91.3	0.0012	mg/L	0.0012	mg/L	18:18:40
2	Cu 324.752†	4123.4	394.6	0.0030	mg/L	0.0030	mg/L	18:18:40
2	Fe 234.349†	22.8	25.8	0.0233	mg/L	0.0233	mg/L	18:18:19
2	K 766.490†	1365.6	696.0	0.4406	mg/L	0.4406	mg/L	18:18:09
2	Li 670.784†	-321.3	-66.5	0.0003	mg/L	0.0003	mg/L	18:18:09
2	Mg 279.077†	385.5	118.9	0.0057	mg/L	0.0057	mg/L	18:18:40
2	Mn 257.610†	17336.7	2240.5	0.0023	mg/L	0.0023	mg/L	18:18:40
2	Mn 294.920†	-277.6	347.6	0.0006	mg/L	0.0006	mg/L	18:18:40
2	Mo 202.031†	-13.9	-4.2	0.0026	mg/L	0.0026	mg/L	18:18:50
2	Na 589.592†	25898.0	23102.7	3.183	mg/L	3.183	mg/L	18:18:09
2	Ni 231.604†	255.0	91.9	0.0012	mg/L	0.0012	mg/L	18:18:40
2	P 214.914†	1985.8	2141.6	1.171	mg/L	1.171	mg/L	18:18:50
2	Pb 220.353†	179.8	6.6	0.0023	mg/L	0.0023	mg/L	18:18:50
2	Sb 206.836†	40.3	-2.3	0.0034	mg/L	0.0034	mg/L	18:18:50
2	Se 196.026†	13.0	-3.2	0.0027	mg/L	0.0027	mg/L	18:18:50
2	Sn 189.927†	42.5	7.3	0.0025	mg/L	0.0025	mg/L	18:18:50
2	Sr 407.771†	252.0	20.2	0.0003	mg/L	0.0003	mg/L	18:18:09
2	Ti 337.279†	-1422.7	-203.4	0.0026	mg/L	0.0026	mg/L	18:18:40
2	Tl 190.801†	-8.5	-1.8	-0.0017	mg/L	-0.0017	mg/L	18:18:50
2	V 292.402†	-967.0	-118.6	0.0019	mg/L	0.0019	mg/L	18:18:40
2	Zn 213.857†	2130.0	1378.3	0.0089	mg/L	0.0089	mg/L	18:18:50

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	3227361.7	0.955	mg/L	0.0097				1.02%
Ag 328.068†	1.1	0.0007	mg/L	0.00005	0.0007	mg/L	0.00005	7.32%
Al 237.313†	193.6	0.0249	mg/L	0.00512	0.0249	mg/L	0.00512	20.60%
As 188.979†	-3.1	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	16.74%
B 249.677†	24.5	0.0125	mg/L	0.00197	0.0125	mg/L	0.00197	15.75%
B 182.528†	14.2	0.0155	mg/L	0.00063	0.0155	mg/L	0.00063	4.05%
Ba 233.527†	36.9	0.0009	mg/L	0.00017	0.0009	mg/L	0.00017	19.10%
Be 313.107†	28.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	2.88%
Ca 315.887†	4209.5	0.0460	mg/L	0.00022	0.0460	mg/L	0.00022	0.47%
Cd 228.802†	9.2	0.0017	mg/L	0.00001	0.0017	mg/L	0.00001	0.70%
Co 228.616†	25.5	-0.0017	mg/L	0.00007	-0.0017	mg/L	0.00007	4.12%
Cr 267.716†	92.9	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	1.35%
Cu 324.752†	412.0	0.0031	mg/L	0.00011	0.0031	mg/L	0.00011	3.44%
Fe 234.349†	26.4	0.0236	mg/L	0.00048	0.0236	mg/L	0.00048	2.01%
K 766.490†	639.4	0.4165	mg/L	0.03417	0.4165	mg/L	0.03417	8.20%
Li 670.784†	10.5	0.0021	mg/L	0.00256	0.0021	mg/L	0.00256	119.32%
Mg 279.077†	147.2	0.0076	mg/L	0.00260	0.0076	mg/L	0.00260	34.37%
Mn 257.610†	2127.7	0.0022	mg/L	0.00017	0.0022	mg/L	0.00017	7.74%
Mn 294.920†	377.6	0.0006	mg/L	0.00009	0.0006	mg/L	0.00009	14.30%
Mo 202.031†	-14.0	0.0022	mg/L	0.00052	0.0022	mg/L	0.00052	23.21%
Na 589.592†	23119.2	3.185	mg/L	0.0031	3.185	mg/L	0.0031	0.10%
Ni 231.604†	94.0	0.0012	mg/L	0.00005	0.0012	mg/L	0.00005	4.36%
P 214.914†	2140.6	1.171	mg/L	0.0007	1.171	mg/L	0.0007	0.06%
Pb 220.353†	-37.6	-0.0003	mg/L	0.00366	-0.0003	mg/L	0.00366	>999.9%
Sb 206.836†	-9.0	0.0007	mg/L	0.00384	0.0007	mg/L	0.00384	557.47%
Se 196.026†	0.2	0.0046	mg/L	0.00266	0.0046	mg/L	0.00266	58.35%
Sn 189.927†	19.5	0.0040	mg/L	0.00211	0.0040	mg/L	0.00211	52.75%
Sr 407.771†	14.3	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.28%
Ti 337.279†	-129.7	0.0027	mg/L	0.00011	0.0027	mg/L	0.00011	4.03%
Tl 190.801†	-2.3	-0.0021	mg/L	0.00054	-0.0021	mg/L	0.00054	25.80%
V 292.402†	-142.2	0.0018	mg/L	0.00014	0.0018	mg/L	0.00014	7.78%
Zn 213.857†	1385.4	0.0090	mg/L	0.00006	0.0090	mg/L	0.00006	0.67%

Sequence No.: 59
 Sample ID: CCV1
 Analyst:
 Logged In Analyst (Original) : ICP3
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 6/25/2013 6:20:27 PM
 Data Type: Reprocessed on 6/26/2013 10:56:55 AM
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net		Calib. Conc. Units	Sample		Analysis Time	
		Intensity	Corrected Intensity		Conc.	Units		
1	Y 371.029	3234602.0	3234602.0	0.957	mg/L		18:22:21	
1	Ag 328.068†	49143.6	50633.6	0.2439	mg/L	0.2439	mg/L	18:22:21
1	Al 237.313†	24725.7	26233.5	2.414	mg/L	2.414	mg/L	18:22:32
1	As 188.979†	741.1	773.6	0.4751	mg/L	0.4751	mg/L	18:22:32
1	B 249.677†	1091.7	1156.4	0.4752	mg/L	0.4752	mg/L	18:22:12
1	B 182.528†	550.2	582.1	0.4821	mg/L	0.4821	mg/L	18:22:32
1	Ba 233.527†	61970.0	64865.6	0.4923	mg/L	0.4923	mg/L	18:22:21
1	Be 313.107†	134718.9	142256.0	0.0503	mg/L	0.0503	mg/L	18:22:21
1	Ca 315.887†	488151.4	510988.2	4.583	mg/L	4.583	mg/L	18:22:21
1	Cd 228.802†	9285.2	9558.4	0.2571	mg/L	0.2571	mg/L	18:22:32
1	Co 228.616†	29600.8	31119.9	0.4932	mg/L	0.4932	mg/L	18:22:32
1	Cr 267.716†	60547.7	62580.3	0.4769	mg/L	0.4769	mg/L	18:22:21
1	Cu 324.752†	108638.6	109604.5	0.4698	mg/L	0.4698	mg/L	18:22:21
1	Fe 234.349†	4701.1	4915.7	2.430	mg/L	2.430	mg/L	18:22:12
1	K 766.490†	54869.7	56610.9	24.32	mg/L	24.32	mg/L	18:22:09
1	Li 670.784†	19571.1	20730.5	0.4887	mg/L	0.4887	mg/L	18:22:12
1	Mg 279.077†	69217.3	72065.7	4.678	mg/L	4.678	mg/L	18:22:21
1	Mn 257.610†	449780.7	454106.7	0.4879	mg/L	0.4879	mg/L	18:22:21
1	Mn 294.920†	217475.6	227970.4	0.4861	mg/L	0.4861	mg/L	18:22:21
1	Mo 202.031†	12311.8	12880.1	0.4836	mg/L	0.4836	mg/L	18:22:32
1	Na 589.592†	197534.8	202258.9	27.19	mg/L	27.19	mg/L	18:22:09
1	Ni 231.604†	25102.3	26062.6	0.4852	mg/L	0.4852	mg/L	18:22:21
1	P 214.914†	8633.1	9070.3	4.797	mg/L	4.797	mg/L	18:22:32
1	Pb 220.353†	8162.4	8349.1	0.4912	mg/L	0.4912	mg/L	18:22:32
1	Sb 206.836†	1165.7	1173.7	0.4843	mg/L	0.4843	mg/L	18:22:32

1	Se 196.026†	1657.7	1716.0	0.9544 mg/L	0.9544 mg/L	18:22:32
1	Sn 189.927†	3857.7	3995.0	0.4950 mg/L	0.4950 mg/L	18:22:32
1	Sr 407.771†	54099.3	56305.0	0.0480 mg/L	0.0480 mg/L	18:22:09
1	Ti 337.279†	448445.5	470063.1	0.4846 mg/L	0.4846 mg/L	18:22:21
1	Tl 190.801†	570.2	603.1	0.4506 mg/L	0.4506 mg/L	18:22:32
1	V 292.402†	117965.0	124212.0	0.4955 mg/L	0.4955 mg/L	18:22:21
1	Zn 213.857†	77036.3	79657.5	0.4857 mg/L	0.4857 mg/L	18:22:21
2	Y 371.029	3193713.1	3193713.1	0.945 mg/L		18:22:35
2	Ag 328.068†	48945.3	51081.3	0.2460 mg/L	0.2460 mg/L	18:22:35
2	Al 237.313†	24804.2	26647.5	2.452 mg/L	2.452 mg/L	18:22:46
2	As 188.979†	751.5	794.6	0.4879 mg/L	0.4879 mg/L	18:22:46
2	B 249.677†	1075.3	1153.6	0.4741 mg/L	0.4741 mg/L	18:22:16
2	B 182.528†	551.5	590.8	0.4893 mg/L	0.4893 mg/L	18:22:46
2	Ba 233.527†	61623.2	65327.9	0.4958 mg/L	0.4958 mg/L	18:22:35
2	Be 313.107†	134170.9	143478.8	0.0507 mg/L	0.0507 mg/L	18:22:35
2	Ca 315.887†	485843.7	515078.1	4.620 mg/L	4.620 mg/L	18:22:35
2	Cd 228.802†	9297.1	9695.3	0.2608 mg/L	0.2608 mg/L	18:22:46
2	Co 228.616†	29722.1	31644.5	0.5016 mg/L	0.5016 mg/L	18:22:46
2	Cr 267.716†	60233.8	63058.4	0.4805 mg/L	0.4805 mg/L	18:22:35
2	Cu 324.752†	108265.2	110663.1	0.4743 mg/L	0.4743 mg/L	18:22:35
2	Fe 234.349†	4637.3	4911.2	2.427 mg/L	2.427 mg/L	18:22:16
2	K 766.490†	54673.4	57137.3	24.54 mg/L	24.54 mg/L	18:22:14
2	Li 670.784†	19563.9	20984.8	0.4947 mg/L	0.4947 mg/L	18:22:16
2	Mg 279.077†	68807.5	72558.3	4.710 mg/L	4.710 mg/L	18:22:35
2	Mn 257.610†	448651.9	458931.1	0.4931 mg/L	0.4931 mg/L	18:22:35
2	Mn 294.920†	216598.2	229951.9	0.4903 mg/L	0.4903 mg/L	18:22:35
2	Mo 202.031†	12303.6	13036.2	0.4895 mg/L	0.4895 mg/L	18:22:46
2	Na 589.592†	197037.2	204375.7	27.47 mg/L	27.47 mg/L	18:22:14
2	Ni 231.604†	25056.1	26349.6	0.4905 mg/L	0.4905 mg/L	18:22:35
2	P 214.914†	8646.7	9200.2	4.865 mg/L	4.865 mg/L	18:22:46
2	Pb 220.353†	8189.0	8486.6	0.4993 mg/L	0.4993 mg/L	18:22:46
2	Sb 206.836†	1175.6	1199.8	0.4951 mg/L	0.4951 mg/L	18:22:46
2	Se 196.026†	1653.1	1733.2	0.9640 mg/L	0.9640 mg/L	18:22:46
2	Sn 189.927†	3817.7	4004.3	0.4962 mg/L	0.4962 mg/L	18:22:46
2	Sr 407.771†	53905.6	56823.9	0.0484 mg/L	0.0484 mg/L	18:22:14
2	Ti 337.279†	446382.6	473880.7	0.4885 mg/L	0.4885 mg/L	18:22:35
2	Tl 190.801†	575.6	616.5	0.4606 mg/L	0.4606 mg/L	18:22:46
2	V 292.402†	117556.6	125358.4	0.5000 mg/L	0.5000 mg/L	18:22:35
2	Zn 213.857†	76719.9	80353.5	0.4900 mg/L	0.4900 mg/L	18:22:35

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3214157.6	0.951 mg/L	0.0086			0.90%
Ag 328.068†	50857.4	0.2450 mg/L	0.00152	0.2450 mg/L	0.00152	0.62%
QC value within limits for Ag 328.068 Recovery = 97.98%						
Al 237.313†	26440.5	2.433 mg/L	0.0268	2.433 mg/L	0.0268	1.10%
QC value within limits for Al 237.313 Recovery = 97.31%						
As 188.979†	784.1	0.4815 mg/L	0.00907	0.4815 mg/L	0.00907	1.88%
QC value within limits for As 188.979 Recovery = 96.30%						
B 249.677†	1155.0	0.4746 mg/L	0.00079	0.4746 mg/L	0.00079	0.17%
QC value within limits for B 249.677 Recovery = 94.92%						
B 182.528†	586.4	0.4857 mg/L	0.00506	0.4857 mg/L	0.00506	1.04%
QC value within limits for B 182.528 Recovery = 97.14%						
Ba 233.527†	65096.8	0.4941 mg/L	0.00248	0.4941 mg/L	0.00248	0.50%
QC value within limits for Ba 233.527 Recovery = 98.82%						
Be 313.107†	142867.4	0.0505 mg/L	0.00030	0.0505 mg/L	0.00030	0.60%
QC value within limits for Be 313.107 Recovery = 100.95%						
Ca 315.887†	513033.2	4.602 mg/L	0.0259	4.602 mg/L	0.0259	0.56%
QC value within limits for Ca 315.887 Recovery = 92.03%						
Cd 228.802†	9626.9	0.2589 mg/L	0.00259	0.2589 mg/L	0.00259	1.00%
QC value within limits for Cd 228.802 Recovery = 103.58%						
Co 228.616†	31382.2	0.4974 mg/L	0.00591	0.4974 mg/L	0.00591	1.19%
QC value within limits for Co 228.616 Recovery = 99.48%						
Cr 267.716†	62819.4	0.4787 mg/L	0.00257	0.4787 mg/L	0.00257	0.54%
QC value within limits for Cr 267.716 Recovery = 95.74%						
Cu 324.752†	110133.8	0.4721 mg/L	0.00320	0.4721 mg/L	0.00320	0.68%
QC value within limits for Cu 324.752 Recovery = 94.41%						
Fe 234.349†	4913.5	2.429 mg/L	0.0017	2.429 mg/L	0.0017	0.07%
QC value within limits for Fe 234.349 Recovery = 97.15%						
K 766.490†	56874.1	24.43 mg/L	0.159	24.43 mg/L	0.159	0.65%
QC value within limits for K 766.490 Recovery = 97.72%						

Li	670.784†	20857.7	0.4917 mg/L	0.00422	0.4917 mg/L	0.00422	0.86%
	QC value within limits for Li 670.784 Recovery = 98.34%						
Mg	279.077†	72312.0	4.694 mg/L	0.0226	4.694 mg/L	0.0226	0.48%
	QC value within limits for Mg 279.077 Recovery = 93.89%						
Mn	257.610†	456518.9	0.4905 mg/L	0.00367	0.4905 mg/L	0.00367	0.75%
	QC value within limits for Mn 257.610 Recovery = 98.10%						
Mn	294.920†	228961.2	0.4882 mg/L	0.00299	0.4882 mg/L	0.00299	0.61%
	QC value within limits for Mn 294.920 Recovery = 97.64%						
Mo	202.031†	12958.1	0.4866 mg/L	0.00413	0.4866 mg/L	0.00413	0.85%
	QC value within limits for Mo 202.031 Recovery = 97.31%						
Na	589.592†	203317.3	27.33 mg/L	0.201	27.33 mg/L	0.201	0.73%
	QC value within limits for Na 589.592 Recovery = 109.32%						
Ni	231.604†	26206.1	0.4879 mg/L	0.00378	0.4879 mg/L	0.00378	0.78%
	QC value within limits for Ni 231.604 Recovery = 97.57%						
P	214.914†	9135.3	4.831 mg/L	0.0481	4.831 mg/L	0.0481	1.00%
	QC value within limits for P 214.914 Recovery = 96.61%						
Pb	220.353†	8417.8	0.4953 mg/L	0.00569	0.4953 mg/L	0.00569	1.15%
	QC value within limits for Pb 220.353 Recovery = 99.05%						
Sb	206.836†	1186.8	0.4897 mg/L	0.00759	0.4897 mg/L	0.00759	1.55%
	QC value within limits for Sb 206.836 Recovery = 97.94%						
Se	196.026†	1724.6	0.9592 mg/L	0.00676	0.9592 mg/L	0.00676	0.70%
	QC value within limits for Se 196.026 Recovery = 95.92%						
Sn	189.927†	3999.6	0.4956 mg/L	0.00082	0.4956 mg/L	0.00082	0.17%
	QC value within limits for Sn 189.927 Recovery = 99.12%						
Sr	407.771†	56564.4	0.0482 mg/L	0.00031	0.0482 mg/L	0.00031	0.64%
	QC value within limits for Sr 407.771 Recovery = 96.36%						
Ti	337.279†	471971.9	0.4866 mg/L	0.00277	0.4866 mg/L	0.00277	0.57%
	QC value within limits for Ti 337.279 Recovery = 97.31%						
Tl	190.801†	609.8	0.4556 mg/L	0.00710	0.4556 mg/L	0.00710	1.56%
	QC value within limits for Tl 190.801 Recovery = 91.12%						
V	292.402†	124785.2	0.4978 mg/L	0.00323	0.4978 mg/L	0.00323	0.65%
	QC value within limits for V 292.402 Recovery = 99.55%						
Zn	213.857†	80005.5	0.4878 mg/L	0.00299	0.4878 mg/L	0.00299	0.61%
	QC value within limits for Zn 213.857 Recovery = 97.57%						

All analyte(s) passed QC.

Sequence No.: 60	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 6/25/2013 6:24:24 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:56:56 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3284281.3	3284281.3	0.971 mg/L			18:26:30
1	Ag 328.068†	708.3	-7.6	0.0006 mg/L		0.0006 mg/L	18:26:33
1	Al 237.313†	-486.5	-113.4	-0.0033 mg/L		-0.0033 mg/L	18:26:33
1	As 188.979†	-0.8	-1.9	0.0015 mg/L		0.0015 mg/L	18:26:43
1	B 249.677†	-8.7	6.3	0.0051 mg/L		0.0051 mg/L	18:26:14
1	B 182.528†	-5.3	1.5	0.0051 mg/L		0.0051 mg/L	18:26:43
1	Ba 233.527†	-71.0	14.6	0.0007 mg/L		0.0007 mg/L	18:26:43
1	Be 313.107†	-1328.0	65.6	0.0002 mg/L		0.0002 mg/L	18:26:33
1	Ca 315.887†	-1668.0	-999.3	-0.0007 mg/L		-0.0007 mg/L	18:26:33
1	Cd 228.802†	152.8	9.9	0.0018 mg/L		0.0018 mg/L	18:26:43
1	Co 228.616†	-171.5	1.4	-0.0021 mg/L		-0.0021 mg/L	18:26:43
1	Cr 267.716†	598.4	-94.8	-0.0002 mg/L		-0.0002 mg/L	18:26:33
1	Cu 324.752†	3996.4	157.6	0.0020 mg/L		0.0020 mg/L	18:26:33
1	Fe 234.349†	7.8	9.7	0.0154 mg/L		0.0154 mg/L	18:26:14
1	K 766.490†	1096.6	383.8	0.3073 mg/L		0.3073 mg/L	18:26:04
1	Li 670.784†	-200.8	65.8	0.0034 mg/L		0.0034 mg/L	18:26:04
1	Mg 279.077†	256.7	-23.6	-0.0035 mg/L		-0.0035 mg/L	18:26:33
1	Mn 257.610†	15837.4	250.4	0.0002 mg/L		0.0002 mg/L	18:26:33
1	Mn 294.920†	-881.5	-266.9	-0.0007 mg/L		-0.0007 mg/L	18:26:33
1	Mo 202.031†	-18.6	-8.7	0.0024 mg/L		0.0024 mg/L	18:26:43
1	Na 589.592†	21389.9	17794.4	2.471 mg/L		2.471 mg/L	18:26:04
1	Ni 231.604†	150.5	-22.2	-0.0009 mg/L		-0.0009 mg/L	18:26:33
1	P 214.914†	-59.5	-15.2	0.0405 mg/L		0.0405 mg/L	18:26:43
1	Pb 220.353†	148.9	-29.8	0.0002 mg/L		0.0002 mg/L	18:26:43
1	Sb 206.836†	33.5	-10.3	0.0002 mg/L		0.0002 mg/L	18:26:43

1	Se 196.026†	21.8	5.6	0.0075 mg/L	0.0075 mg/L	18:26:43
1	Sn 189.927†	50.4	14.4	0.0033 mg/L	0.0033 mg/L	18:26:43
1	Sr 407.771†	233.3	-5.4	0.0003 mg/L	0.0003 mg/L	18:26:04
1	Ti 337.279†	-1817.9	-573.6	0.0022 mg/L	0.0022 mg/L	18:26:33
1	Tl 190.801†	-7.9	-1.0	-0.0011 mg/L	-0.0011 mg/L	18:26:43
1	V 292.402†	-1014.3	-142.4	0.0018 mg/L	0.0018 mg/L	18:26:33
1	Zn 213.857†	933.3	91.4	0.0010 mg/L	0.0010 mg/L	18:26:43
2	Y 371.029	3270866.0	3270866.0	0.967 mg/L		18:26:45
2	Ag 328.068†	596.5	-120.2	0.0001 mg/L	0.0001 mg/L	18:26:47
2	Al 237.313†	-426.7	-53.6	0.0022 mg/L	0.0022 mg/L	18:26:47
2	As 188.979†	-1.7	-2.8	0.0009 mg/L	0.0009 mg/L	18:26:58
2	B 249.677†	-12.8	2.0	0.0033 mg/L	0.0033 mg/L	18:26:27
2	B 182.528†	-2.6	4.3	0.0074 mg/L	0.0074 mg/L	18:26:58
2	Ba 233.527†	-84.4	0.5	0.0006 mg/L	0.0006 mg/L	18:26:58
2	Be 313.107†	-1336.5	51.2	0.0002 mg/L	0.0002 mg/L	18:26:47
2	Ca 315.887†	-1473.5	-805.3	0.0011 mg/L	0.0011 mg/L	18:26:47
2	Cd 228.802†	148.6	6.1	0.0017 mg/L	0.0017 mg/L	18:26:58
2	Co 228.616†	-153.2	19.6	-0.0018 mg/L	-0.0018 mg/L	18:26:58
2	Cr 267.716†	570.1	-121.5	-0.0004 mg/L	-0.0004 mg/L	18:26:47
2	Cu 324.752†	3913.9	89.2	0.0017 mg/L	0.0017 mg/L	18:26:47
2	Fe 234.349†	-12.1	-10.8	0.0052 mg/L	0.0052 mg/L	18:26:27
2	K 766.490†	1117.4	410.0	0.3185 mg/L	0.3185 mg/L	18:26:17
2	Li 670.784†	-230.2	34.7	0.0027 mg/L	0.0027 mg/L	18:26:17
2	Mg 279.077†	242.1	-37.6	-0.0044 mg/L	-0.0044 mg/L	18:26:47
2	Mn 257.610†	15829.9	309.5	0.0003 mg/L	0.0003 mg/L	18:26:47
2	Mn 294.920†	-1032.6	-426.8	-0.0011 mg/L	-0.0011 mg/L	18:26:47
2	Mo 202.031†	-5.2	5.0	0.0030 mg/L	0.0030 mg/L	18:26:58
2	Na 589.592†	21252.8	17743.0	2.465 mg/L	2.465 mg/L	18:26:17
2	Ni 231.604†	225.7	56.1	0.0005 mg/L	0.0005 mg/L	18:26:47
2	P 214.914†	-43.2	1.4	0.0492 mg/L	0.0492 mg/L	18:26:58
2	Pb 220.353†	157.1	-20.7	0.0007 mg/L	0.0007 mg/L	18:26:58
2	Sb 206.836†	34.1	-9.6	0.0005 mg/L	0.0005 mg/L	18:26:58
2	Se 196.026†	22.5	6.4	0.0080 mg/L	0.0080 mg/L	18:26:58
2	Sn 189.927†	53.2	17.5	0.0037 mg/L	0.0037 mg/L	18:26:58
2	Sr 407.771†	339.8	105.6	0.0004 mg/L	0.0004 mg/L	18:26:17
2	Ti 337.279†	-1378.3	-126.8	0.0027 mg/L	0.0027 mg/L	18:26:47
2	Tl 190.801†	-9.3	-2.5	-0.0023 mg/L	-0.0023 mg/L	18:26:58
2	V 292.402†	-980.0	-111.2	0.0019 mg/L	0.0019 mg/L	18:26:47
2	Zn 213.857†	949.6	112.2	0.0012 mg/L	0.0012 mg/L	18:26:58

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3277573.6	0.969 mg/L	0.0028			0.29%
Ag 328.068†	-63.9	0.0003 mg/L	0.00038	0.0003 mg/L	0.00038	111.22%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-83.5	-0.0006 mg/L	0.00387	-0.0006 mg/L	0.00387	691.28%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-2.3	0.0012 mg/L	0.00037	0.0012 mg/L	0.00037	30.69%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.1	0.0042 mg/L	0.00124	0.0042 mg/L	0.00124	29.51%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	2.9	0.0063 mg/L	0.00163	0.0063 mg/L	0.00163	26.03%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	7.5	0.0007 mg/L	0.00008	0.0007 mg/L	0.00008	11.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	58.4	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.57%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-902.3	0.0002 mg/L	0.00123	0.0002 mg/L	0.00123	598.65%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	8.0	0.0017 mg/L	0.00007	0.0017 mg/L	0.00007	4.14%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	10.5	-0.0019 mg/L	0.00020	-0.0019 mg/L	0.00020	10.74%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-108.1	-0.0003 mg/L	0.00014	-0.0003 mg/L	0.00014	45.50%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	123.4	0.0018 mg/L	0.00021	0.0018 mg/L	0.00021	11.21%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	-0.6	0.0103 mg/L	0.00720	0.0103 mg/L	0.00720	69.76%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	396.9	0.3129 mg/L	0.00789	0.3129 mg/L	0.00789	2.52%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						

Li	670.784†	50.3	0.0031 mg/L	0.00052	0.0031 mg/L	0.00052	16.81%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	-30.6	-0.0040 mg/L	0.00064	-0.0040 mg/L	0.00064	16.09%
	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn	257.610†	279.9	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	19.80%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	-346.9	-0.0009 mg/L	0.00024	-0.0009 mg/L	0.00024	26.44%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	-1.8	0.0027 mg/L	0.00037	0.0027 mg/L	0.00037	13.56%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	17768.7	2.468 mg/L	0.0049	2.468 mg/L	0.0049	0.20%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	17.0	-0.0002 mg/L	0.00103	-0.0002 mg/L	0.00103	497.64%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-6.9	0.0449 mg/L	0.00613	0.0449 mg/L	0.00613	13.66%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	-25.3	0.0005 mg/L	0.00038	0.0005 mg/L	0.00038	83.24%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	-9.9	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	69.33%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	6.0	0.0078 mg/L	0.00032	0.0078 mg/L	0.00032	4.12%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	16.0	0.0035 mg/L	0.00027	0.0035 mg/L	0.00027	7.63%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	50.1	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	19.48%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-350.2	0.0024 mg/L	0.00032	0.0024 mg/L	0.00032	13.35%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	-1.8	-0.0017 mg/L	0.00082	-0.0017 mg/L	0.00082	48.80%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	-126.8	0.0018 mg/L	0.00009	0.0018 mg/L	0.00009	4.89%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	101.8	0.0011 mg/L	0.00008	0.0011 mg/L	0.00008	7.59%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 61
Sample ID: 1306356-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/25/2013 6:28:35 PM
Data Type: Reprocessed on 6/26/2013 10:56:56 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306356-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Analysis Time
1	Y 371.029	3112898.1	3112898.1	0.921	mg/L		18:30:49
1	Ag 328.068†	493.2	-201.1	-0.0003	mg/L	-0.0003 mg/L	18:30:51
1	Al 237.313†	-48.2	335.0	0.0378	mg/L	0.0378 mg/L	18:31:01
1	As 188.979†	5.2	4.6	0.0055	mg/L	0.0055 mg/L	18:31:01
1	B 249.677†	3891.9	4242.5	1.734	mg/L	1.734 mg/L	18:30:16
1	B 182.528†	1964.7	2141.0	1.763	mg/L	1.763 mg/L	18:30:51
1	Ba 233.527†	22362.9	24377.9	0.1854	mg/L	0.1854 mg/L	18:30:51
1	Be 313.107†	-1997.2	-736.6	0.0000	mg/L	0.0000 mg/L	18:30:51
1	Ca 315.887†	26798810.8	29109042.3	260.5	mg/L	260.5 mg/L	18:30:46
1	Cd 228.802†	158.3	24.5	0.0021	mg/L	0.0021 mg/L	18:31:01
1	Co 228.616†	-110.3	58.1	-0.0011	mg/L	-0.0011 mg/L	18:31:01
1	Cr 267.716†	936.7	306.7	0.0029	mg/L	0.0029 mg/L	18:30:51
1	Cu 324.752†	5198.2	1689.5	0.0085	mg/L	0.0085 mg/L	18:30:51
1	Fe 234.349†	684.9	745.6	-0.0486	mg/L	-0.0486 mg/L	18:30:26
1	K 766.490†	41497.6	44328.7	19.07	mg/L	19.07 mg/L	18:30:16
1	Li 670.784†	-233.3	19.2	0.0023	mg/L	0.0023 mg/L	18:30:16
1	Mg 279.077†	380946.2	413488.1	26.85	mg/L	26.85 mg/L	18:30:49
1	Mn 257.610†	72593.3	62795.2	0.0674	mg/L	0.0674 mg/L	18:30:51
1	Mn 294.920†	26449.3	29369.3	0.0625	mg/L	0.0625 mg/L	18:30:51
1	Mo 202.031†	338.5	378.1	0.0169	mg/L	0.0169 mg/L	18:31:01
1	Na 589.592†	451255.0	485917.6	65.20	mg/L	65.20 mg/L	18:30:14
1	Ni 231.604†	252.9	97.5	0.0013	mg/L	0.0013 mg/L	18:31:01
1	P 214.914†	2361.5	2611.1	1.417	mg/L	1.417 mg/L	18:31:01
1	Pb 220.353†	-19.1	-203.8	-0.0100	mg/L	-0.0100 mg/L	18:31:01
1	Sb 206.836†	52.4	12.1	0.0093	mg/L	0.0093 mg/L	18:31:01

1	Se 196.026†	1.4	-15.3	-0.0040	mg/L	-0.0040	mg/L	18:31:01
1	Sn 189.927†	-889.4	-1003.5	0.0395	mg/L	0.0395	mg/L	18:31:01
1	Sr 407.771†	1093042.4	1186994.8	1.005	mg/L	1.005	mg/L	18:30:14
1	Ti 337.279†	-348.2	919.7	0.0037	mg/L	0.0037	mg/L	18:30:51
1	Tl 190.801†	39.7	50.2	-0.0027	mg/L	-0.0027	mg/L	18:31:01
1	V 292.402†	-610.7	238.6	0.0035	mg/L	0.0035	mg/L	18:30:51
1	Zn 213.857†	6545.3	6239.9	0.0388	mg/L	0.0388	mg/L	18:31:01
2	Y 371.029	3065296.0	3065296.0	0.907	mg/L			18:31:07
2	Ag 328.068†	559.1	-120.1	0.0001	mg/L	0.0001	mg/L	18:31:10
2	Al 237.313†	-8.8	377.8	0.0417	mg/L	0.0417	mg/L	18:31:20
2	As 188.979†	8.5	8.4	0.0078	mg/L	0.0078	mg/L	18:31:20
2	B 249.677†	3957.2	4380.2	1.790	mg/L	1.790	mg/L	18:30:31
2	B 182.528†	1955.2	2163.7	1.782	mg/L	1.782	mg/L	18:31:10
2	Ba 233.527†	22265.9	24648.1	0.1875	mg/L	0.1875	mg/L	18:31:10
2	Be 313.107†	-2002.4	-776.0	-0.0001	mg/L	-0.0001	mg/L	18:31:10
2	Ca 315.887†	26753680.9	29511295.0	264.1	mg/L	264.1	mg/L	18:31:05
2	Cd 228.802†	155.7	24.3	0.0021	mg/L	0.0021	mg/L	18:31:20
2	Co 228.616†	-136.3	27.5	-0.0016	mg/L	-0.0016	mg/L	18:31:20
2	Cr 267.716†	955.4	343.1	0.0031	mg/L	0.0031	mg/L	18:31:10
2	Cu 324.752†	5159.6	1734.6	0.0087	mg/L	0.0087	mg/L	18:31:10
2	Fe 234.349†	679.9	751.7	-0.0515	mg/L	-0.0515	mg/L	18:30:41
2	K 766.490†	41807.8	45370.9	19.52	mg/L	19.52	mg/L	18:30:31
2	Li 670.784†	-289.4	-46.6	0.0008	mg/L	0.0008	mg/L	18:30:31
2	Mg 279.077†	376303.5	414792.8	26.93	mg/L	26.93	mg/L	18:31:07
2	Mn 257.610†	72336.5	63736.4	0.0684	mg/L	0.0684	mg/L	18:31:10
2	Mn 294.920†	26166.6	29503.6	0.0628	mg/L	0.0628	mg/L	18:31:10
2	Mo 202.031†	363.4	411.2	0.0181	mg/L	0.0181	mg/L	18:31:20
2	Na 589.592†	452587.1	494998.5	66.41	mg/L	66.41	mg/L	18:30:29
2	Ni 231.604†	255.0	104.2	0.0014	mg/L	0.0014	mg/L	18:31:20
2	P 214.914†	2368.3	2658.4	1.442	mg/L	1.442	mg/L	18:31:20
2	Pb 220.353†	5.5	-177.1	-0.0084	mg/L	-0.0084	mg/L	18:31:20
2	Sb 206.836†	62.9	24.6	0.0144	mg/L	0.0144	mg/L	18:31:20
2	Se 196.026†	-1.4	-18.4	-0.0057	mg/L	-0.0057	mg/L	18:31:20
2	Sn 189.927†	-892.8	-1022.3	0.0394	mg/L	0.0394	mg/L	18:31:20
2	Sr 407.771†	1094888.8	1207468.5	1.022	mg/L	1.022	mg/L	18:30:29
2	Ti 337.279†	-602.6	633.2	0.0034	mg/L	0.0034	mg/L	18:31:10
2	Tl 190.801†	28.2	38.2	-0.0123	mg/L	-0.0123	mg/L	18:31:20
2	V 292.402†	-692.8	137.7	0.0031	mg/L	0.0031	mg/L	18:31:10
2	Zn 213.857†	6511.2	6312.8	0.0392	mg/L	0.0392	mg/L	18:31:20

Mean Data: 1306356-01

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	3089097.0	0.914	mg/L	0.0100				1.09%
Ag 328.068†	-160.6	-0.0001	mg/L	0.00028	-0.0001	mg/L	0.00028	247.87%
Al 237.313†	356.4	0.0398	mg/L	0.00277	0.0398	mg/L	0.00277	6.96%
As 188.979†	6.5	0.0066	mg/L	0.00161	0.0066	mg/L	0.00161	24.36%
B 249.677†	4311.4	1.762	mg/L	0.0397	1.762	mg/L	0.0397	2.26%
B 182.528†	2152.3	1.772	mg/L	0.0132	1.772	mg/L	0.0132	0.74%
Ba 233.527†	24513.0	0.1864	mg/L	0.00145	0.1864	mg/L	0.00145	0.78%
Be 313.107†	-756.3	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	18.36%
Ca 315.887†	29310168.6	262.3	mg/L	2.55	262.3	mg/L	2.55	0.97%
Cd 228.802†	24.4	0.0021	mg/L	0.00000	0.0021	mg/L	0.00000	0.16%
Co 228.616†	42.8	-0.0014	mg/L	0.00034	-0.0014	mg/L	0.00034	24.73%
Cr 267.716†	324.9	0.0030	mg/L	0.00020	0.0030	mg/L	0.00020	6.57%
Cu 324.752†	1712.0	0.0086	mg/L	0.00014	0.0086	mg/L	0.00014	1.57%
Fe 234.349†	748.6	-0.0500	mg/L	0.00205	-0.0500	mg/L	0.00205	4.10%
K 766.490†	44849.8	19.30	mg/L	0.315	19.30	mg/L	0.315	1.63%
Li 670.784†	-13.7	0.0016	mg/L	0.00109	0.0016	mg/L	0.00109	69.49%
Mg 279.077†	414140.5	26.89	mg/L	0.060	26.89	mg/L	0.060	0.22%
Mn 257.610†	63265.8	0.0679	mg/L	0.00072	0.0679	mg/L	0.00072	1.05%
Mn 294.920†	29436.4	0.0626	mg/L	0.00020	0.0626	mg/L	0.00020	0.32%
Mo 202.031†	394.7	0.0175	mg/L	0.00088	0.0175	mg/L	0.00088	5.02%
Na 589.592†	490458.0	65.80	mg/L	0.860	65.80	mg/L	0.860	1.31%
Ni 231.604†	100.8	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.49%
P 214.914†	2634.7	1.430	mg/L	0.0175	1.430	mg/L	0.0175	1.23%
Pb 220.353†	-190.4	-0.0092	mg/L	0.00111	-0.0092	mg/L	0.00111	12.07%
Sb 206.836†	18.4	0.0118	mg/L	0.00361	0.0118	mg/L	0.00361	30.50%
Se 196.026†	-16.8	-0.0049	mg/L	0.00120	-0.0049	mg/L	0.00120	24.68%
Sn 189.927†	-1012.9	0.0394	mg/L	0.00006	0.0394	mg/L	0.00006	0.16%
Sr 407.771†	1197231.7	1.014	mg/L	0.0123	1.014	mg/L	0.0123	1.21%
Ti 337.279†	776.4	0.0036	mg/L	0.00021	0.0036	mg/L	0.00021	5.80%

Tl 190.801†	44.2	-0.0075 mg/L	0.00681	-0.0075 mg/L	0.00681	90.77%
V 292.402†	188.1	0.0033 mg/L	0.00027	0.0033 mg/L	0.00027	8.12%
Zn 213.857†	6276.4	0.0390 mg/L	0.00032	0.0390 mg/L	0.00032	0.81%

Sequence No.: 62
Sample ID: 1306356-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/25/2013 6:32:57 PM
Data Type: Reprocessed on 6/26/2013 10:56:57 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306356-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3200457.7	3200457.7	0.947	mg/L			18:35:08
1	Ag 328.068†	681.8	-16.5	0.0006	mg/L	0.0006	mg/L	18:35:10
1	Al 237.313†	-267.2	105.2	0.0167	mg/L	0.0167	mg/L	18:35:20
1	As 188.979†	3.2	2.3	0.0041	mg/L	0.0041	mg/L	18:35:20
1	B 249.677†	4133.6	4382.2	1.791	mg/L	1.791	mg/L	18:34:39
1	B 182.528†	2137.8	2265.5	1.865	mg/L	1.865	mg/L	18:35:20
1	Ba 233.527†	14615.8	15528.8	0.1183	mg/L	0.1183	mg/L	18:35:10
1	Be 313.107†	-1655.0	-315.7	0.0001	mg/L	0.0001	mg/L	18:35:10
1	Ca 315.887†	7495297.1	7919225.5	70.89	mg/L	70.89	mg/L	18:35:05
1	Cd 228.802†	155.8	17.2	0.0020	mg/L	0.0020	mg/L	18:35:20
1	Co 228.616†	25.1	204.5	0.0012	mg/L	0.0012	mg/L	18:35:20
1	Cr 267.716†	723.3	53.3	0.0009	mg/L	0.0009	mg/L	18:35:10
1	Cu 324.752†	4283.4	568.6	0.0037	mg/L	0.0037	mg/L	18:35:10
1	Fe 234.349†	376.1	399.0	0.0915	mg/L	0.0915	mg/L	18:34:49
1	K 766.490†	4007.1	3488.2	1.633	mg/L	1.633	mg/L	18:34:39
1	Li 670.784†	-422.6	-173.9	-0.0022	mg/L	-0.0022	mg/L	18:34:39
1	Mg 279.077†	237232.4	250339.5	16.25	mg/L	16.25	mg/L	18:35:10
1	Mn 257.610†	128597.5	119804.4	0.1288	mg/L	0.1288	mg/L	18:35:10
1	Mn 294.920†	54532.9	58252.6	0.1241	mg/L	0.1241	mg/L	18:35:10
1	Mo 202.031†	219.3	242.2	0.0118	mg/L	0.0118	mg/L	18:35:20
1	Na 589.592†	336398.8	351166.6	47.14	mg/L	47.14	mg/L	18:34:39
1	Ni 231.604†	510.6	362.3	0.0062	mg/L	0.0062	mg/L	18:35:20
1	P 214.914†	2623.8	2818.0	1.526	mg/L	1.526	mg/L	18:35:20
1	Pb 220.353†	37.1	-143.9	-0.0065	mg/L	-0.0065	mg/L	18:35:20
1	Sb 206.836†	46.3	4.1	0.0060	mg/L	0.0060	mg/L	18:35:20
1	Se 196.026†	11.6	-4.6	0.0019	mg/L	0.0019	mg/L	18:35:20
1	Sn 189.927†	-575.3	-645.3	-0.0338	mg/L	-0.0338	mg/L	18:35:20
1	Sr 407.771†	411975.0	434991.0	0.3685	mg/L	0.3685	mg/L	18:34:39
1	Ti 337.279†	-1367.8	-147.1	0.0026	mg/L	0.0026	mg/L	18:35:10
1	Tl 190.801†	17.5	25.6	0.0079	mg/L	0.0079	mg/L	18:35:20
1	V 292.402†	-870.4	-17.7	0.0024	mg/L	0.0024	mg/L	18:35:10
1	Zn 213.857†	5786.0	5243.2	0.0326	mg/L	0.0326	mg/L	18:35:20
2	Y 371.029	3187202.6	3187202.6	0.943	mg/L			18:35:25
2	Ag 328.068†	531.4	-173.1	-0.0002	mg/L	-0.0002	mg/L	18:35:28
2	Al 237.313†	-309.6	59.0	0.0125	mg/L	0.0125	mg/L	18:35:38
2	As 188.979†	-4.2	-5.5	-0.0007	mg/L	-0.0007	mg/L	18:35:38
2	B 249.677†	4070.9	4333.8	1.771	mg/L	1.771	mg/L	18:34:51
2	B 182.528†	2154.7	2292.8	1.888	mg/L	1.888	mg/L	18:35:38
2	Ba 233.527†	14813.6	15802.9	0.1204	mg/L	0.1204	mg/L	18:35:28
2	Be 313.107†	-1591.1	-255.2	0.0001	mg/L	0.0001	mg/L	18:35:28
2	Ca 315.887†	7483841.3	7940004.7	71.07	mg/L	71.07	mg/L	18:35:23
2	Cd 228.802†	156.1	18.1	0.0020	mg/L	0.0020	mg/L	18:35:38
2	Co 228.616†	38.1	218.4	0.0014	mg/L	0.0014	mg/L	18:35:38
2	Cr 267.716†	745.9	80.5	0.0011	mg/L	0.0011	mg/L	18:35:28
2	Cu 324.752†	4452.8	767.1	0.0046	mg/L	0.0046	mg/L	18:35:28
2	Fe 234.349†	367.9	391.9	0.0877	mg/L	0.0877	mg/L	18:35:01
2	K 766.490†	3964.2	3460.3	1.621	mg/L	1.621	mg/L	18:34:51
2	Li 670.784†	-247.3	10.2	0.0021	mg/L	0.0021	mg/L	18:34:51
2	Mg 279.077†	240331.3	254669.3	16.53	mg/L	16.53	mg/L	18:35:28
2	Mn 257.610†	129726.0	121566.6	0.1307	mg/L	0.1307	mg/L	18:35:28
2	Mn 294.920†	55154.8	59151.9	0.1260	mg/L	0.1260	mg/L	18:35:28
2	Mo 202.031†	195.7	218.0	0.0109	mg/L	0.0109	mg/L	18:35:38
2	Na 589.592†	335374.8	351558.3	47.19	mg/L	47.19	mg/L	18:34:51
2	Ni 231.604†	503.0	356.4	0.0061	mg/L	0.0061	mg/L	18:35:38
2	P 214.914†	2637.4	2843.9	1.539	mg/L	1.539	mg/L	18:35:38
2	Pb 220.353†	40.4	-140.3	-0.0062	mg/L	-0.0062	mg/L	18:35:38
2	Sb 206.836†	58.1	16.8	0.0113	mg/L	0.0113	mg/L	18:35:38

1	Mg	279.077†	205850.1	221731.2	14.40	mg/L	14.40	mg/L	18:39:26
1	Mn	257.610†	33630.4	20217.7	0.0215	mg/L	0.0215	mg/L	18:39:26
1	Mn	294.920†	7328.9	8545.2	0.0181	mg/L	0.0181	mg/L	18:39:26
1	Mo	202.031†	228.1	256.5	0.0123	mg/L	0.0123	mg/L	18:39:36
1	Na	589.592†	530884.6	568357.8	76.24	mg/L	76.24	mg/L	18:38:55
1	Ni	231.604†	1129.1	1040.6	0.0189	mg/L	0.0189	mg/L	18:39:36
1	P	214.914†	2127.6	2340.7	1.276	mg/L	1.276	mg/L	18:39:36
1	Pb	220.353†	25.7	-155.4	-0.0072	mg/L	-0.0072	mg/L	18:39:36
1	Sb	206.836†	51.4	10.7	0.0084	mg/L	0.0084	mg/L	18:39:36
1	Se	196.026†	2.7	-13.9	-0.0032	mg/L	-0.0032	mg/L	18:39:36
1	Sn	189.927†	-650.2	-738.7	-0.0314	mg/L	-0.0314	mg/L	18:39:36
1	Sr	407.771†	630243.1	679501.4	0.5755	mg/L	0.5755	mg/L	18:38:55
1	Ti	337.279†	13191.8	15525.9	0.0187	mg/L	0.0187	mg/L	18:39:26
1	Tl	190.801†	18.0	26.5	0.0049	mg/L	0.0049	mg/L	18:39:36
1	V	292.402†	-745.1	98.2	0.0028	mg/L	0.0028	mg/L	18:39:26
1	Zn	213.857†	5190.8	4729.2	0.0294	mg/L	0.0294	mg/L	18:39:36
2	Y	371.029	3156277.9	3156277.9	0.933	mg/L			18:39:41
2	Ag	328.068†	598.3	-95.9	0.0002	mg/L	0.0002	mg/L	18:39:44
2	Al	237.313†	3222.6	3839.6	0.3591	mg/L	0.3591	mg/L	18:39:44
2	As	188.979†	1.6	0.7	0.0031	mg/L	0.0031	mg/L	18:39:54
2	B	249.677†	7691.5	8254.8	3.371	mg/L	3.371	mg/L	18:39:17
2	B	182.528†	3965.2	4254.7	3.500	mg/L	3.500	mg/L	18:39:44
2	Ba	233.527†	9888.5	10680.9	0.0816	mg/L	0.0816	mg/L	18:39:54
2	Be	313.107†	-1598.2	-279.3	0.0001	mg/L	0.0001	mg/L	18:39:44
2	Ca	315.887†	9750552.1	10446009.0	93.50	mg/L	93.50	mg/L	18:39:39
2	Cd	228.802†	171.2	35.9	0.0024	mg/L	0.0024	mg/L	18:39:54
2	Co	228.616†	147.6	336.1	0.0033	mg/L	0.0033	mg/L	18:39:54
2	Cr	267.716†	1540.4	939.4	0.0077	mg/L	0.0077	mg/L	18:39:44
2	Cu	324.752†	4751.1	1133.0	0.0062	mg/L	0.0062	mg/L	18:39:44
2	Fe	234.349†	1549.6	1661.6	0.6794	mg/L	0.6794	mg/L	18:39:17
2	K	766.490†	2847.4	2305.2	1.128	mg/L	1.128	mg/L	18:39:17
2	Li	670.784†	-342.6	-94.4	-0.0003	mg/L	-0.0003	mg/L	18:39:07
2	Mg	279.077†	206886.8	221339.9	14.37	mg/L	14.37	mg/L	18:39:44
2	Mn	257.610†	33682.1	20027.7	0.0213	mg/L	0.0213	mg/L	18:39:44
2	Mn	294.920†	7413.6	8582.5	0.0181	mg/L	0.0181	mg/L	18:39:44
2	Mo	202.031†	253.5	281.9	0.0132	mg/L	0.0132	mg/L	18:39:54
2	Na	589.592†	533108.5	566866.7	76.04	mg/L	76.04	mg/L	18:39:07
2	Ni	231.604†	1122.8	1025.6	0.0186	mg/L	0.0186	mg/L	18:39:54
2	P	214.914†	2103.4	2299.4	1.254	mg/L	1.254	mg/L	18:39:54
2	Pb	220.353†	37.7	-142.8	-0.0065	mg/L	-0.0065	mg/L	18:39:54
2	Sb	206.836†	40.0	-2.0	0.0032	mg/L	0.0032	mg/L	18:39:54
2	Se	196.026†	-4.9	-22.1	-0.0077	mg/L	-0.0077	mg/L	18:39:54
2	Sn	189.927†	-647.1	-730.7	-0.0303	mg/L	-0.0303	mg/L	18:39:54
2	Sr	407.771†	632853.8	677699.8	0.5740	mg/L	0.5740	mg/L	18:39:07
2	Ti	337.279†	14080.6	16381.8	0.0196	mg/L	0.0196	mg/L	18:39:44
2	Tl	190.801†	15.4	23.7	0.0028	mg/L	0.0028	mg/L	18:39:54
2	V	292.402†	-837.4	4.7	0.0025	mg/L	0.0025	mg/L	18:39:44
2	Zn	213.857†	5104.1	4598.4	0.0286	mg/L	0.0286	mg/L	18:39:54

Mean Data: 1306356-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3145602.2	0.930	mg/L	0.0045			0.48%
Ag 328.068†	-106.1	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007 42.85%
Al 237.313†	3850.7	0.3601	mg/L	0.00144	0.3601	mg/L	0.00144 0.40%
As 188.979†	-0.7	0.0022	mg/L	0.00121	0.0022	mg/L	0.00121 54.60%
B 249.677†	8325.3	3.400	mg/L	0.0407	3.400	mg/L	0.0407 1.20%
B 182.528†	4252.6	3.498	mg/L	0.0024	3.498	mg/L	0.0024 0.07%
Ba 233.527†	10797.7	0.0825	mg/L	0.00125	0.0825	mg/L	0.00125 1.52%
Be 313.107†	-256.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001 9.79%
Ca 315.887†	10440068.3	93.45	mg/L	0.075	93.45	mg/L	0.075 0.08%
Cd 228.802†	30.8	0.0023	mg/L	0.00019	0.0023	mg/L	0.00019 8.34%
Co 228.616†	333.9	0.0032	mg/L	0.00005	0.0032	mg/L	0.00005 1.45%
Cr 267.716†	960.4	0.0078	mg/L	0.00023	0.0078	mg/L	0.00023 2.88%
Cu 324.752†	1182.0	0.0064	mg/L	0.00030	0.0064	mg/L	0.00030 4.64%
Fe 234.349†	1661.6	0.6794	mg/L	0.00005	0.6794	mg/L	0.00005 0.01%
K 766.490†	2321.9	1.135	mg/L	0.0101	1.135	mg/L	0.0101 0.89%
Li 670.784†	28.9	0.0026	mg/L	0.00410	0.0026	mg/L	0.00410 159.05%
Mg 279.077†	221535.5	14.38	mg/L	0.018	14.38	mg/L	0.018 0.12%
Mn 257.610†	20122.7	0.0214	mg/L	0.00014	0.0214	mg/L	0.00014 0.68%
Mn 294.920†	8563.8	0.0181	mg/L	0.00006	0.0181	mg/L	0.00006 0.31%
Mo 202.031†	269.2	0.0127	mg/L	0.00068	0.0127	mg/L	0.00068 5.32%

Na 589.592†	567612.2	76.14 mg/L	0.141	76.14 mg/L	0.141	0.19%
Ni 231.604†	1033.1	0.0187 mg/L	0.00020	0.0187 mg/L	0.00020	1.05%
P 214.914†	2320.0	1.265 mg/L	0.0153	1.265 mg/L	0.0153	1.21%
Pb 220.353†	-149.1	-0.0068 mg/L	0.00052	-0.0068 mg/L	0.00052	7.65%
Sb 206.836†	4.3	0.0058 mg/L	0.00366	0.0058 mg/L	0.00366	62.73%
Se 196.026†	-18.0	-0.0055 mg/L	0.00318	-0.0055 mg/L	0.00318	58.10%
Sn 189.927†	-734.7	-0.0309 mg/L	0.00075	-0.0309 mg/L	0.00075	2.42%
Sr 407.771†	678600.6	0.5747 mg/L	0.00108	0.5747 mg/L	0.00108	0.19%
Ti 337.279†	15953.8	0.0191 mg/L	0.00062	0.0191 mg/L	0.00062	3.24%
Tl 190.801†	25.1	0.0038 mg/L	0.00151	0.0038 mg/L	0.00151	39.52%
V 292.402†	51.5	0.0027 mg/L	0.00025	0.0027 mg/L	0.00025	9.41%
Zn 213.857†	4663.8	0.0290 mg/L	0.00057	0.0290 mg/L	0.00057	1.96%

Sequence No.: 64
Sample ID: CF3227-DUP2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 6/25/2013 6:41:31 PM
Data Type: Reprocessed on 6/26/2013 10:56:58 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF3227-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3127352.5	3127352.5	0.925 mg/L		18:43:40
1	Ag 328.068†	925.4	263.7	0.0019 mg/L	0.0019 mg/L	18:43:43
1	Al 237.313†	3151.0	3794.2	0.3550 mg/L	0.3550 mg/L	18:43:43
1	As 188.979†	-5.6	-7.1	-0.0017 mg/L	-0.0017 mg/L	18:43:53
1	B 249.677†	7531.8	8158.2	3.332 mg/L	3.332 mg/L	18:43:21
1	B 182.528†	3893.2	4216.2	3.468 mg/L	3.468 mg/L	18:43:43
1	Ba 233.527†	9800.7	10683.8	0.0816 mg/L	0.0816 mg/L	18:43:53
1	Be 313.107†	-1518.1	-208.5	0.0001 mg/L	0.0001 mg/L	18:43:43
1	Ca 315.887†	9559696.0	10336273.6	92.52 mg/L	92.52 mg/L	18:43:38
1	Cd 228.802†	162.9	28.6	0.0023 mg/L	0.0023 mg/L	18:43:53
1	Co 228.616†	123.1	311.0	0.0029 mg/L	0.0029 mg/L	18:43:53
1	Cr 267.716†	1529.2	942.4	0.0077 mg/L	0.0077 mg/L	18:43:43
1	Cu 324.752†	4921.6	1364.4	0.0072 mg/L	0.0072 mg/L	18:43:43
1	Fe 234.349†	1455.1	1574.9	0.6380 mg/L	0.6380 mg/L	18:43:21
1	K 766.490†	2713.4	2188.5	1.078 mg/L	1.078 mg/L	18:43:21
1	Li 670.784†	-268.9	-18.1	0.0015 mg/L	0.0015 mg/L	18:43:11
1	Mg 279.077†	203011.4	219199.8	14.23 mg/L	14.23 mg/L	18:43:43
1	Mn 257.610†	32648.1	19243.6	0.0205 mg/L	0.0205 mg/L	18:43:43
1	Mn 294.920†	6785.4	7976.7	0.0168 mg/L	0.0168 mg/L	18:43:43
1	Mo 202.031†	230.5	259.6	0.0124 mg/L	0.0124 mg/L	18:43:53
1	Na 589.592†	519920.7	557890.7	74.84 mg/L	74.84 mg/L	18:43:11
1	Ni 231.604†	1087.0	998.1	0.0181 mg/L	0.0181 mg/L	18:43:53
1	P 214.914†	1004.3	1131.9	0.6418 mg/L	0.6418 mg/L	18:43:53
1	Pb 220.353†	24.5	-156.7	-0.0073 mg/L	-0.0073 mg/L	18:43:53
1	Sb 206.836†	54.5	14.1	0.0099 mg/L	0.0099 mg/L	18:43:53
1	Se 196.026†	2.0	-14.7	-0.0036 mg/L	-0.0036 mg/L	18:43:53
1	Sn 189.927†	-625.4	-713.6	-0.0288 mg/L	-0.0288 mg/L	18:43:53
1	Sr 407.771†	614911.2	664571.4	0.5628 mg/L	0.5628 mg/L	18:43:11
1	Ti 337.279†	12145.3	14428.9	0.0176 mg/L	0.0176 mg/L	18:43:43
1	Tl 190.801†	19.1	27.7	0.0060 mg/L	0.0060 mg/L	18:43:53
1	V 292.402†	-761.9	78.2	0.0028 mg/L	0.0028 mg/L	18:43:43
1	Zn 213.857†	4694.9	4206.5	0.0262 mg/L	0.0262 mg/L	18:43:53
2	Y 371.029	3170089.8	3170089.8	0.938 mg/L		18:43:58
2	Ag 328.068†	946.4	272.6	0.0020 mg/L	0.0020 mg/L	18:44:00
2	Al 237.313†	3106.7	3701.0	0.3464 mg/L	0.3464 mg/L	18:44:00
2	As 188.979†	0.9	-0.1	0.0026 mg/L	0.0026 mg/L	18:44:10
2	B 249.677†	7569.5	8088.7	3.304 mg/L	3.304 mg/L	18:43:34
2	B 182.528†	3862.0	4126.1	3.394 mg/L	3.394 mg/L	18:44:00
2	Ba 233.527†	9766.8	10504.9	0.0802 mg/L	0.0802 mg/L	18:44:10
2	Be 313.107†	-1498.4	-165.4	0.0002 mg/L	0.0002 mg/L	18:44:00
2	Ca 315.887†	9643342.2	10286151.4	92.07 mg/L	92.07 mg/L	18:43:56
2	Cd 228.802†	167.6	31.3	0.0023 mg/L	0.0023 mg/L	18:44:10
2	Co 228.616†	145.4	333.0	0.0032 mg/L	0.0032 mg/L	18:44:10
2	Cr 267.716†	1552.7	945.2	0.0077 mg/L	0.0077 mg/L	18:44:00
2	Cu 324.752†	4938.3	1310.5	0.0069 mg/L	0.0069 mg/L	18:44:00
2	Fe 234.349†	1475.0	1574.8	0.6387 mg/L	0.6387 mg/L	18:43:34
2	K 766.490†	2779.7	2219.7	1.091 mg/L	1.091 mg/L	18:43:34
2	Li 670.784†	-272.0	-17.5	0.0015 mg/L	0.0015 mg/L	18:43:24

2	Mg	279.077†	201878.9	215033.0	13.96	mg/L	13.96	mg/L	18:44:00
2	Mn	257.610†	32563.4	18677.3	0.0198	mg/L	0.0198	mg/L	18:44:00
2	Mn	294.920†	6869.7	7967.7	0.0168	mg/L	0.0168	mg/L	18:44:00
2	Mo	202.031†	241.3	267.7	0.0127	mg/L	0.0127	mg/L	18:44:10
2	Na	589.592†	524026.0	554691.2	74.41	mg/L	74.41	mg/L	18:43:24
2	Ni	231.604†	1065.3	959.0	0.0173	mg/L	0.0173	mg/L	18:44:10
2	P	214.914†	1006.8	1119.9	0.6355	mg/L	0.6355	mg/L	18:44:10
2	Pb	220.353†	16.6	-165.5	-0.0078	mg/L	-0.0078	mg/L	18:44:10
2	Sb	206.836†	48.2	6.6	0.0068	mg/L	0.0068	mg/L	18:44:10
2	Se	196.026†	-2.4	-19.4	-0.0062	mg/L	-0.0062	mg/L	18:44:10
2	Sn	189.927†	-640.3	-720.5	-0.0300	mg/L	-0.0300	mg/L	18:44:10
2	Sr	407.771†	619866.9	660894.5	0.5597	mg/L	0.5597	mg/L	18:43:24
2	Ti	337.279†	12409.3	14533.4	0.0177	mg/L	0.0177	mg/L	18:44:00
2	Tl	190.801†	15.8	23.9	0.0032	mg/L	0.0032	mg/L	18:44:10
2	V	292.402†	-685.5	170.7	0.0031	mg/L	0.0031	mg/L	18:44:00
2	Zn	213.857†	4649.7	4089.9	0.0254	mg/L	0.0254	mg/L	18:44:10

Mean Data: CF3227-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3148721.1	0.931 mg/L	0.0089			0.96%
Ag 328.068†	268.2	0.0020 mg/L	0.00003	0.0020 mg/L	0.00003	1.54%
Al 237.313†	3747.6	0.3507 mg/L	0.00604	0.3507 mg/L	0.00604	1.72%
As 188.979†	-3.6	0.0004 mg/L	0.00305	0.0004 mg/L	0.00305	709.64%
B 249.677†	8123.5	3.318 mg/L	0.0201	3.318 mg/L	0.0201	0.60%
B 182.528†	4171.2	3.431 mg/L	0.0523	3.431 mg/L	0.0523	1.52%
Ba 233.527†	10594.3	0.0809 mg/L	0.00096	0.0809 mg/L	0.00096	1.19%
Be 313.107†	-187.0	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	7.41%
Ca 315.887†	10311212.5	92.29 mg/L	0.317	92.29 mg/L	0.317	0.34%
Cd 228.802†	30.0	0.0023 mg/L	0.00005	0.0023 mg/L	0.00005	2.19%
Co 228.616†	322.0	0.0030 mg/L	0.00025	0.0030 mg/L	0.00025	8.18%
Cr 267.716†	943.8	0.0077 mg/L	0.00002	0.0077 mg/L	0.00002	0.20%
Cu 324.752†	1337.4	0.0070 mg/L	0.00016	0.0070 mg/L	0.00016	2.31%
Fe 234.349†	1574.9	0.6384 mg/L	0.00051	0.6384 mg/L	0.00051	0.08%
K 766.490†	2204.1	1.085 mg/L	0.0094	1.085 mg/L	0.0094	0.87%
Li 670.784†	-17.8	0.0015 mg/L	0.00001	0.0015 mg/L	0.00001	0.70%
Mg 279.077†	217116.4	14.10 mg/L	0.191	14.10 mg/L	0.191	1.36%
Mn 257.610†	18960.4	0.0202 mg/L	0.00043	0.0202 mg/L	0.00043	2.14%
Mn 294.920†	7972.2	0.0168 mg/L	0.00001	0.0168 mg/L	0.00001	0.08%
Mo 202.031†	263.7	0.0125 mg/L	0.00022	0.0125 mg/L	0.00022	1.73%
Na 589.592†	556290.9	74.62 mg/L	0.303	74.62 mg/L	0.303	0.41%
Ni 231.604†	978.6	0.0177 mg/L	0.00051	0.0177 mg/L	0.00051	2.90%
P 214.914†	1125.9	0.6387 mg/L	0.00443	0.6387 mg/L	0.00443	0.69%
Pb 220.353†	-161.1	-0.0075 mg/L	0.00036	-0.0075 mg/L	0.00036	4.79%
Sb 206.836†	10.4	0.0083 mg/L	0.00216	0.0083 mg/L	0.00216	26.01%
Se 196.026†	-17.0	-0.0049 mg/L	0.00184	-0.0049 mg/L	0.00184	37.14%
Sn 189.927†	-717.0	-0.0294 mg/L	0.00079	-0.0294 mg/L	0.00079	2.70%
Sr 407.771†	662732.9	0.5613 mg/L	0.00220	0.5613 mg/L	0.00220	0.39%
Ti 337.279†	14481.2	0.0176 mg/L	0.00008	0.0176 mg/L	0.00008	0.43%
Tl 190.801†	25.8	0.0046 mg/L	0.00197	0.0046 mg/L	0.00197	42.92%
V 292.402†	124.4	0.0030 mg/L	0.00026	0.0030 mg/L	0.00026	8.78%
Zn 213.857†	4148.2	0.0258 mg/L	0.00050	0.0258 mg/L	0.00050	1.95%

Sequence No.: 65

Autosampler Location: 47

Sample ID: CF32127-MS2

Date Collected: 6/25/2013 6:45:49 PM

Analyst:

Data Type: Reprocessed on 6/26/2013 10:56:59 AM

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CF32127-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3144596.9	3144596.9	0.930 mg/L		18:47:47
1	Ag 328.068†	51147.1	54258.1	0.2613 mg/L	0.2613 mg/L	18:47:47
1	Al 237.313†	29998.2	32642.4	3.002 mg/L	3.002 mg/L	18:47:47
1	As 188.979†	811.3	871.3	0.5348 mg/L	0.5348 mg/L	18:47:58
1	B 249.677†	9171.7	9876.9	4.034 mg/L	4.034 mg/L	18:47:35
1	B 182.528†	4643.6	4999.9	4.112 mg/L	4.112 mg/L	18:47:58
1	Ba 233.527†	74264.1	79938.8	0.6066 mg/L	0.6066 mg/L	18:47:47

1	Be	313.107†	147191.1	159697.1	0.0564	mg/L	0.0564	mg/L	18:47:47
1	Ca	315.887†	10478158.9	11267154.4	100.9	mg/L	100.9	mg/L	18:47:44
1	Cd	228.802†	9715.1	10298.5	0.2769	mg/L	0.2769	mg/L	18:47:58
1	Co	228.616†	30234.1	32686.6	0.5181	mg/L	0.5181	mg/L	18:47:58
1	Cr	267.716†	65321.4	69524.7	0.5298	mg/L	0.5298	mg/L	18:47:47
1	Cu	324.752†	117426.0	122303.3	0.5241	mg/L	0.5241	mg/L	18:47:47
1	Fe	234.349†	6518.4	7010.4	3.308	mg/L	3.308	mg/L	18:47:35
1	K	766.490†	62137.9	66067.5	28.36	mg/L	28.36	mg/L	18:47:33
1	Li	670.784†	21259.9	23131.9	0.5451	mg/L	0.5451	mg/L	18:47:35
1	Mg	279.077†	278489.0	299152.1	19.42	mg/L	19.42	mg/L	18:47:47
1	Mn	257.610†	485459.6	505926.7	0.5434	mg/L	0.5434	mg/L	18:47:47
1	Mn	294.920†	234640.1	252932.8	0.5393	mg/L	0.5393	mg/L	18:47:47
1	Mo	202.031†	13301.1	14312.2	0.5370	mg/L	0.5370	mg/L	18:47:58
1	Na	589.592†	732895.2	783804.8	105.1	mg/L	105.1	mg/L	18:47:33
1	Ni	231.604†	26463.8	28277.5	0.5265	mg/L	0.5265	mg/L	18:47:47
1	P	214.914†	11974.4	12921.2	6.815	mg/L	6.815	mg/L	18:47:58
1	Pb	220.353†	8316.5	8759.0	0.5152	mg/L	0.5152	mg/L	18:47:58
1	Sb	206.836†	1287.3	1339.4	0.5518	mg/L	0.5518	mg/L	18:47:58
1	Se	196.026†	1776.4	1893.2	1.053	mg/L	1.053	mg/L	18:47:58
1	Sn	189.927†	3444.3	3666.0	0.5142	mg/L	0.5142	mg/L	18:47:58
1	Sr	407.771†	711642.2	764933.8	0.6478	mg/L	0.6478	mg/L	18:47:33
1	Ti	337.279†	496074.8	534692.6	0.5509	mg/L	0.5509	mg/L	18:47:47
1	Tl	190.801†	611.4	664.5	0.4813	mg/L	0.4813	mg/L	18:47:58
1	V	292.402†	128106.3	138645.6	0.5527	mg/L	0.5527	mg/L	18:47:47
1	Zn	213.857†	85195.8	90735.7	0.5534	mg/L	0.5534	mg/L	18:47:47
2	Y	371.029	3119488.8	3119488.8	0.923	mg/L			18:48:04
2	Ag	328.068†	50489.2	53987.7	0.2600	mg/L	0.2600	mg/L	18:48:04
2	Al	237.313†	29759.8	32643.7	3.002	mg/L	3.002	mg/L	18:48:04
2	As	188.979†	817.9	885.4	0.5434	mg/L	0.5434	mg/L	18:48:14
2	B	249.677†	9082.3	9859.4	4.027	mg/L	4.027	mg/L	18:47:39
2	B	182.528†	4719.5	5122.3	4.212	mg/L	4.212	mg/L	18:48:14
2	Ba	233.527†	73604.6	79866.6	0.6061	mg/L	0.6061	mg/L	18:48:04
2	Be	313.107†	145287.5	158907.7	0.0561	mg/L	0.0561	mg/L	18:48:04
2	Ca	315.887†	10461253.2	11339511.9	101.5	mg/L	101.5	mg/L	18:48:01
2	Cd	228.802†	9839.0	10516.9	0.2827	mg/L	0.2827	mg/L	18:48:14
2	Co	228.616†	30628.9	33376.2	0.5291	mg/L	0.5291	mg/L	18:48:14
2	Cr	267.716†	64722.3	69440.7	0.5291	mg/L	0.5291	mg/L	18:48:04
2	Cu	324.752†	116112.9	121896.3	0.5224	mg/L	0.5224	mg/L	18:48:04
2	Fe	234.349†	6464.2	7008.1	3.306	mg/L	3.306	mg/L	18:47:39
2	K	766.490†	61886.5	66332.7	28.47	mg/L	28.47	mg/L	18:47:37
2	Li	670.784†	20915.3	22942.4	0.5406	mg/L	0.5406	mg/L	18:47:39
2	Mg	279.077†	275218.6	298017.4	19.35	mg/L	19.35	mg/L	18:48:04
2	Mn	257.610†	480413.3	504658.5	0.5420	mg/L	0.5420	mg/L	18:48:04
2	Mn	294.920†	232076.4	252184.7	0.5377	mg/L	0.5377	mg/L	18:48:04
2	Mo	202.031†	13506.7	14650.2	0.5497	mg/L	0.5497	mg/L	18:48:14
2	Na	589.592†	729305.2	786256.4	105.4	mg/L	105.4	mg/L	18:47:37
2	Ni	231.604†	26130.4	28145.2	0.5240	mg/L	0.5240	mg/L	18:48:04
2	P	214.914†	12175.4	13242.8	6.983	mg/L	6.983	mg/L	18:48:14
2	Pb	220.353†	8441.1	8966.1	0.5274	mg/L	0.5274	mg/L	18:48:14
2	Sb	206.836†	1319.9	1385.8	0.5709	mg/L	0.5709	mg/L	18:48:14
2	Se	196.026†	1806.6	1941.3	1.079	mg/L	1.079	mg/L	18:48:14
2	Sn	189.927†	3518.9	3776.6	0.5281	mg/L	0.5281	mg/L	18:48:14
2	Sr	407.771†	706969.9	766028.4	0.6487	mg/L	0.6487	mg/L	18:47:37
2	Ti	337.279†	491214.5	533717.8	0.5499	mg/L	0.5499	mg/L	18:48:04
2	Tl	190.801†	620.1	679.3	0.4924	mg/L	0.4924	mg/L	18:48:14
2	V	292.402†	126969.6	138522.3	0.5524	mg/L	0.5524	mg/L	18:48:04
2	Zn	213.857†	84214.8	90409.7	0.5514	mg/L	0.5514	mg/L	18:48:04

Mean Data: CF32127-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3132042.9	0.926	mg/L	0.0053				0.57%
Ag 328.068†	54122.9	0.2607	mg/L	0.00092	0.2607	mg/L	0.00092	0.35%
Al 237.313†	32643.1	3.002	mg/L	0.0001	3.002	mg/L	0.0001	0.00%
As 188.979†	878.4	0.5391	mg/L	0.00611	0.5391	mg/L	0.00611	1.13%
B 249.677†	9868.1	4.031	mg/L	0.0050	4.031	mg/L	0.0050	0.12%
B 182.528†	5061.1	4.162	mg/L	0.0711	4.162	mg/L	0.0711	1.71%
Ba 233.527†	79902.7	0.6063	mg/L	0.00039	0.6063	mg/L	0.00039	0.06%
Be 313.107†	159302.4	0.0563	mg/L	0.00020	0.0563	mg/L	0.00020	0.35%
Ca 315.887†	11303333.2	101.2	mg/L	0.46	101.2	mg/L	0.46	0.45%
Cd 228.802†	10407.7	0.2798	mg/L	0.00413	0.2798	mg/L	0.00413	1.48%
Co 228.616†	33031.4	0.5236	mg/L	0.00778	0.5236	mg/L	0.00778	1.49%

Cr 267.716†	69482.7	0.5295 mg/L	0.00045	0.5295 mg/L	0.00045	0.08%
Cu 324.752†	122099.8	0.5232 mg/L	0.00124	0.5232 mg/L	0.00124	0.24%
Fe 234.349†	7009.3	3.307 mg/L	0.0015	3.307 mg/L	0.0015	0.05%
K 766.490†	66200.1	28.41 mg/L	0.080	28.41 mg/L	0.080	0.28%
Li 670.784†	23037.2	0.5429 mg/L	0.00315	0.5429 mg/L	0.00315	0.58%
Mg 279.077†	298584.7	19.39 mg/L	0.052	19.39 mg/L	0.052	0.27%
Mn 257.610†	505292.6	0.5427 mg/L	0.00096	0.5427 mg/L	0.00096	0.18%
Mn 294.920†	252558.7	0.5385 mg/L	0.00113	0.5385 mg/L	0.00113	0.21%
Mo 202.031†	14481.2	0.5433 mg/L	0.00899	0.5433 mg/L	0.00899	1.65%
Na 589.592†	785030.6	105.3 mg/L	0.23	105.3 mg/L	0.23	0.22%
Ni 231.604†	28211.3	0.5253 mg/L	0.00173	0.5253 mg/L	0.00173	0.33%
P 214.914†	13082.0	6.899 mg/L	0.1191	6.899 mg/L	0.1191	1.73%
Pb 220.353†	8862.5	0.5213 mg/L	0.00860	0.5213 mg/L	0.00860	1.65%
Sb 206.836†	1362.6	0.5613 mg/L	0.01353	0.5613 mg/L	0.01353	2.41%
Se 196.026†	1917.2	1.066 mg/L	0.0188	1.066 mg/L	0.0188	1.77%
Sn 189.927†	3721.3	0.5211 mg/L	0.00989	0.5211 mg/L	0.00989	1.90%
Sr 407.771†	765481.1	0.6483 mg/L	0.00066	0.6483 mg/L	0.00066	0.10%
Ti 337.279†	534205.2	0.5504 mg/L	0.00071	0.5504 mg/L	0.00071	0.13%
Tl 190.801†	671.9	0.4869 mg/L	0.00782	0.4869 mg/L	0.00782	1.61%
V 292.402†	138584.0	0.5526 mg/L	0.00021	0.5526 mg/L	0.00021	0.04%
Zn 213.857†	90572.7	0.5524 mg/L	0.00140	0.5524 mg/L	0.00140	0.25%

Sequence No.: 66
Sample ID: CF32127-SD2 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 6/25/2013 6:49:53 PM
Data Type: Reprocessed on 6/26/2013 10:56:59 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32127-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3263469.3	3263469.3	0.965	mg/L		18:52:02
1	Ag 328.068†	605.1	-109.9	0.0001	mg/L	0.0001 mg/L	18:52:04
1	Al 237.313†	841.7	1259.5	0.1226	mg/L	0.1226 mg/L	18:52:14
1	As 188.979†	-2.6	-3.8	0.0003	mg/L	0.0003 mg/L	18:52:14
1	B 249.677†	1630.5	1704.5	0.6981	mg/L	0.6981 mg/L	18:51:45
1	B 182.528†	832.9	869.9	0.7186	mg/L	0.7186 mg/L	18:52:14
1	Ba 233.527†	2076.0	2238.7	0.0176	mg/L	0.0176 mg/L	18:52:14
1	Be 313.107†	-1310.0	75.5	0.0002	mg/L	0.0002 mg/L	18:52:04
1	Ca 315.887†	2048060.0	2122641.5	19.01	mg/L	19.01 mg/L	18:52:02
1	Cd 228.802†	151.2	9.2	0.0017	mg/L	0.0017 mg/L	18:52:14
1	Co 228.616†	-81.9	93.1	-0.0006	mg/L	-0.0006 mg/L	18:52:14
1	Cr 267.716†	794.0	111.8	0.0014	mg/L	0.0014 mg/L	18:52:04
1	Cu 324.752†	4298.6	496.9	0.0034	mg/L	0.0034 mg/L	18:52:04
1	Fe 234.349†	324.5	337.9	0.1466	mg/L	0.1466 mg/L	18:51:45
1	K 766.490†	1349.9	653.5	0.4225	mg/L	0.4225 mg/L	18:51:35
1	Li 670.784†	-303.6	-42.0	0.0009	mg/L	0.0009 mg/L	18:51:35
1	Mg 279.077†	43107.8	44374.6	2.879	mg/L	2.879 mg/L	18:52:04
1	Mn 257.610†	21019.6	5723.5	0.0061	mg/L	0.0061 mg/L	18:52:14
1	Mn 294.920†	1386.5	2077.1	0.0043	mg/L	0.0043 mg/L	18:52:04
1	Mo 202.031†	81.1	94.5	0.0063	mg/L	0.0063 mg/L	18:52:14
1	Na 589.592†	120078.0	120182.2	16.19	mg/L	16.19 mg/L	18:51:35
1	Ni 231.604†	424.2	262.3	0.0044	mg/L	0.0044 mg/L	18:52:14
1	P 214.914†	393.2	453.4	0.2862	mg/L	0.2862 mg/L	18:52:14
1	Pb 220.353†	94.8	-84.9	-0.0031	mg/L	-0.0031 mg/L	18:52:14
1	Sb 206.836†	33.1	-10.5	0.0000	mg/L	0.0000 mg/L	18:52:14
1	Se 196.026†	13.7	-2.6	0.0030	mg/L	0.0030 mg/L	18:52:14
1	Sn 189.927†	-250.4	-296.9	-0.0231	mg/L	-0.0231 mg/L	18:52:14
1	Sr 407.771†	128757.1	133155.1	0.1130	mg/L	0.1130 mg/L	18:51:35
1	Ti 337.279†	1828.4	3192.3	0.0061	mg/L	0.0061 mg/L	18:52:04
1	Tl 190.801†	-7.1	-0.2	-0.0035	mg/L	-0.0035 mg/L	18:52:14
1	V 292.402†	-878.8	-8.7	0.0023	mg/L	0.0023 mg/L	18:52:04
1	Zn 213.857†	4281.3	3566.3	0.0223	mg/L	0.0223 mg/L	18:52:14
2	Y 371.029	3303074.3	3303074.3	0.977	mg/L		18:52:16
2	Ag 328.068†	730.1	10.5	0.0007	mg/L	0.0007 mg/L	18:52:19
2	Al 237.313†	858.5	1266.2	0.1232	mg/L	0.1232 mg/L	18:52:29
2	As 188.979†	-1.5	-2.6	0.0011	mg/L	0.0011 mg/L	18:52:29
2	B 249.677†	1627.0	1680.7	0.6884	mg/L	0.6884 mg/L	18:51:58
2	B 182.528†	828.0	854.6	0.7060	mg/L	0.7060 mg/L	18:52:29
2	Ba 233.527†	2073.0	2209.7	0.0173	mg/L	0.0173 mg/L	18:52:29

2	Be 313.107†	-1325.2	76.3	0.0002 mg/L	0.0002 mg/L	18:52:19
2	Ca 315.887†	2059466.7	2108875.2	18.88 mg/L	18.88 mg/L	18:52:16
2	Cd 228.802†	143.0	-1.1	0.0015 mg/L	0.0015 mg/L	18:52:29
2	Co 228.616†	-78.7	97.4	-0.0005 mg/L	-0.0005 mg/L	18:52:29
2	Cr 267.716†	885.8	195.9	0.0020 mg/L	0.0020 mg/L	18:52:19
2	Cu 324.752†	4281.8	426.3	0.0031 mg/L	0.0031 mg/L	18:52:19
2	Fe 234.349†	315.4	324.5	0.1402 mg/L	0.1402 mg/L	18:51:58
2	K 766.490†	1386.2	673.9	0.4312 mg/L	0.4312 mg/L	18:51:48
2	Li 670.784†	-315.1	-49.9	0.0007 mg/L	0.0007 mg/L	18:51:48
2	Mg 279.077†	43285.8	44021.3	2.856 mg/L	2.856 mg/L	18:52:19
2	Mn 257.610†	21065.8	5509.6	0.0058 mg/L	0.0058 mg/L	18:52:29
2	Mn 294.920†	1398.0	2071.6	0.0042 mg/L	0.0042 mg/L	18:52:19
2	Mo 202.031†	107.0	120.0	0.0073 mg/L	0.0073 mg/L	18:52:29
2	Na 589.592†	119861.2	118468.5	15.96 mg/L	15.96 mg/L	18:51:48
2	Ni 231.604†	422.0	254.9	0.0042 mg/L	0.0042 mg/L	18:52:29
2	P 214.914†	394.9	450.3	0.2845 mg/L	0.2845 mg/L	18:52:29
2	Pb 220.353†	99.6	-81.2	-0.0028 mg/L	-0.0028 mg/L	18:52:29
2	Sb 206.836†	47.1	3.4	0.0057 mg/L	0.0057 mg/L	18:52:29
2	Se 196.026†	19.6	3.2	0.0062 mg/L	0.0062 mg/L	18:52:29
2	Sn 189.927†	-227.0	-269.8	-0.0199 mg/L	-0.0199 mg/L	18:52:29
2	Sr 407.771†	128463.7	131255.3	0.1114 mg/L	0.1114 mg/L	18:51:48
2	Ti 337.279†	1800.0	3140.4	0.0060 mg/L	0.0060 mg/L	18:52:19
2	Tl 190.801†	1.2	8.4	0.0030 mg/L	0.0030 mg/L	18:52:29
2	V 292.402†	-919.5	-39.3	0.0022 mg/L	0.0022 mg/L	18:52:19
2	Zn 213.857†	4308.5	3541.0	0.0222 mg/L	0.0222 mg/L	18:52:29

Mean Data: CF32127-SD2 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3283271.8	0.971 mg/L		0.0083			0.85%
Ag 328.068†	-49.7	0.0004 mg/L		0.00041	0.0004 mg/L	0.00041	98.12%
Al 237.313†	1262.8	0.1229 mg/L		0.00044	0.1229 mg/L	0.00044	0.36%
As 188.979†	-3.2	0.0007 mg/L		0.00052	0.0007 mg/L	0.00052	73.97%
B 249.677†	1692.6	0.6933 mg/L		0.00686	0.6933 mg/L	0.00686	0.99%
B 182.528†	862.2	0.7123 mg/L		0.00893	0.7123 mg/L	0.00893	1.25%
Ba 233.527†	2224.2	0.0175 mg/L		0.00016	0.0175 mg/L	0.00016	0.89%
Be 313.107†	75.9	0.0002 mg/L		0.00000	0.0002 mg/L	0.00000	0.11%
Ca 315.887†	2115758.4	18.94 mg/L		0.087	18.94 mg/L	0.087	0.46%
Cd 228.802†	4.0	0.0016 mg/L		0.00019	0.0016 mg/L	0.00019	12.06%
Co 228.616†	95.2	-0.0006 mg/L		0.00005	-0.0006 mg/L	0.00005	8.70%
Cr 267.716†	153.9	0.0017 mg/L		0.00045	0.0017 mg/L	0.00045	26.95%
Cu 324.752†	461.6	0.0033 mg/L		0.00021	0.0033 mg/L	0.00021	6.50%
Fe 234.349†	331.2	0.1434 mg/L		0.00455	0.1434 mg/L	0.00455	3.17%
K 766.490†	663.7	0.4269 mg/L		0.00616	0.4269 mg/L	0.00616	1.44%
Li 670.784†	-45.9	0.0008 mg/L		0.00013	0.0008 mg/L	0.00013	16.05%
Mg 279.077†	44197.9	2.868 mg/L		0.0162	2.868 mg/L	0.0162	0.57%
Mn 257.610†	5616.5	0.0059 mg/L		0.00016	0.0059 mg/L	0.00016	2.72%
Mn 294.920†	2074.4	0.0043 mg/L		0.00001	0.0043 mg/L	0.00001	0.19%
Mo 202.031†	107.2	0.0068 mg/L		0.00068	0.0068 mg/L	0.00068	10.03%
Na 589.592†	119325.3	16.08 mg/L		0.162	16.08 mg/L	0.162	1.01%
Ni 231.604†	258.6	0.0043 mg/L		0.00010	0.0043 mg/L	0.00010	2.27%
P 214.914†	451.8	0.2853 mg/L		0.00116	0.2853 mg/L	0.00116	0.41%
Pb 220.353†	-83.1	-0.0029 mg/L		0.00016	-0.0029 mg/L	0.00016	5.31%
Sb 206.836†	-3.5	0.0029 mg/L		0.00403	0.0029 mg/L	0.00403	139.63%
Se 196.026†	0.3	0.0046 mg/L		0.00229	0.0046 mg/L	0.00229	49.60%
Sn 189.927†	-283.3	-0.0215 mg/L		0.00230	-0.0215 mg/L	0.00230	10.70%
Sr 407.771†	132205.2	0.1122 mg/L		0.00114	0.1122 mg/L	0.00114	1.01%
Ti 337.279†	3166.3	0.0060 mg/L		0.00004	0.0060 mg/L	0.00004	0.62%
Tl 190.801†	4.1	-0.0003 mg/L		0.00460	-0.0003 mg/L	0.00460	>999.9%
V 292.402†	-24.0	0.0023 mg/L		0.00007	0.0023 mg/L	0.00007	3.20%
Zn 213.857†	3553.6	0.0223 mg/L		0.00011	0.0223 mg/L	0.00011	0.49%

Sequence No.: 67

Sample ID: CF32127-PDS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 6/25/2013 6:54:07 PM

Data Type: Reprocessed on 6/26/2013 10:57:00 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32127-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	8686768.1	8686768.1	2.57	mg/L			18:56:14
1	Ag 328.068†	565.8	-516.6	-0.0018	mg/L	-0.0018	mg/L	18:56:16
1	Al 237.313†	-443.0	215.0	0.0268	mg/L	0.0268	mg/L	18:56:26
1	As 188.979†	-3.4	-2.4	0.0012	mg/L	0.0012	mg/L	18:56:26
1	B 249.677†	17.1	21.8	0.0114	mg/L	0.0114	mg/L	18:55:57
1	B 182.528†	10.1	10.9	0.0128	mg/L	0.0128	mg/L	18:56:26
1	Ba 233.527†	-86.6	54.0	0.0010	mg/L	0.0010	mg/L	18:56:26
1	Be 313.107†	-971.8	1054.5	0.0006	mg/L	0.0006	mg/L	18:56:16
1	Ca 315.887†	417.1	880.3	0.0162	mg/L	0.0162	mg/L	18:56:16
1	Cd 228.802†	144.6	-91.2	-0.0009	mg/L	-0.0009	mg/L	18:56:26
1	Co 228.616†	-196.8	101.3	-0.0005	mg/L	-0.0005	mg/L	18:56:26
1	Cr 267.716†	376.9	-564.1	-0.0038	mg/L	-0.0038	mg/L	18:56:16
1	Cu 324.752†	3059.9	-2765.7	-0.0105	mg/L	-0.0105	mg/L	18:56:16
1	Fe 234.349†	-19.4	-5.9	0.0077	mg/L	0.0077	mg/L	18:55:57
1	K 766.490†	747.3	-454.2	-0.0505	mg/L	-0.0505	mg/L	18:55:47
1	Li 670.784†	-340.3	140.1	0.0052	mg/L	0.0052	mg/L	18:55:47
1	Mg 279.077†	216.2	-203.7	-0.0152	mg/L	-0.0152	mg/L	18:56:16
1	Mn 257.610†	13784.5	-10688.9	-0.0116	mg/L	-0.0116	mg/L	18:56:26
1	Mn 294.920†	-725.0	358.4	0.0006	mg/L	0.0006	mg/L	18:56:16
1	Mo 202.031†	19.5	18.0	0.0035	mg/L	0.0035	mg/L	18:56:26
1	Na 589.592†	7738.4	-1214.4	-0.0756	mg/L	-0.0756	mg/L	18:55:47
1	Ni 231.604†	183.8	-105.6	-0.0025	mg/L	-0.0025	mg/L	18:56:26
1	P 214.914†	-60.5	22.5	0.0604	mg/L	0.0604	mg/L	18:56:26
1	Pb 220.353†	156.5	-122.2	-0.0052	mg/L	-0.0052	mg/L	18:56:26
1	Sb 206.836†	28.8	-33.6	-0.0093	mg/L	-0.0093	mg/L	18:56:26
1	Se 196.026†	18.0	-9.8	-0.0010	mg/L	-0.0010	mg/L	18:56:26
1	Sn 189.927†	52.6	-17.0	-0.0005	mg/L	-0.0005	mg/L	18:56:26
1	Sr 407.771†	185.4	-173.5	0.0002	mg/L	0.0002	mg/L	18:55:47
1	Ti 337.279†	-839.1	971.3	0.0038	mg/L	0.0038	mg/L	18:56:16
1	Tl 190.801†	-6.1	4.7	0.0032	mg/L	0.0032	mg/L	18:56:26
1	V 292.402†	-827.9	579.6	0.0046	mg/L	0.0046	mg/L	18:56:16
1	Zn 213.857†	996.6	-481.5	-0.0024	mg/L	-0.0024	mg/L	18:56:26
2	Y 371.029	8493873.3	8493873.3	2.51	mg/L			18:56:28
2	Ag 328.068†	684.4	-464.4	-0.0016	mg/L	-0.0016	mg/L	18:56:31
2	Al 237.313†	-393.8	230.7	0.0282	mg/L	0.0282	mg/L	18:56:41
2	As 188.979†	-4.5	-2.8	0.0009	mg/L	0.0009	mg/L	18:56:41
2	B 249.677†	20.4	23.3	0.0120	mg/L	0.0120	mg/L	18:56:10
2	B 182.528†	7.3	9.9	0.0120	mg/L	0.0120	mg/L	18:56:41
2	Ba 233.527†	-79.4	56.2	0.0010	mg/L	0.0010	mg/L	18:56:41
2	Be 313.107†	-883.5	1081.1	0.0006	mg/L	0.0006	mg/L	18:56:31
2	Ca 315.887†	572.0	945.7	0.0168	mg/L	0.0168	mg/L	18:56:31
2	Cd 228.802†	141.1	-91.3	-0.0009	mg/L	-0.0009	mg/L	18:56:41
2	Co 228.616†	-175.3	108.1	-0.0004	mg/L	-0.0004	mg/L	18:56:41
2	Cr 267.716†	401.6	-551.0	-0.0037	mg/L	-0.0037	mg/L	18:56:31
2	Cu 324.752†	3004.3	-2760.8	-0.0105	mg/L	-0.0105	mg/L	18:56:31
2	Fe 234.349†	6.5	4.2	0.0127	mg/L	0.0127	mg/L	18:56:10
2	K 766.490†	607.2	-503.4	-0.0715	mg/L	-0.0715	mg/L	18:56:00
2	Li 670.784†	-281.0	160.8	0.0057	mg/L	0.0057	mg/L	18:56:00
2	Mg 279.077†	206.3	-205.7	-0.0154	mg/L	-0.0154	mg/L	18:56:31
2	Mn 257.610†	13668.8	-10613.1	-0.0115	mg/L	-0.0115	mg/L	18:56:41
2	Mn 294.920†	-696.0	363.5	0.0006	mg/L	0.0006	mg/L	18:56:31
2	Mo 202.031†	2.4	11.4	0.0033	mg/L	0.0033	mg/L	18:56:41
2	Na 589.592†	7681.6	-1168.7	-0.0694	mg/L	-0.0694	mg/L	18:56:00
2	Ni 231.604†	171.9	-108.7	-0.0025	mg/L	-0.0025	mg/L	18:56:41
2	P 214.914†	-60.1	22.1	0.0602	mg/L	0.0602	mg/L	18:56:41
2	Pb 220.353†	171.8	-114.7	-0.0048	mg/L	-0.0048	mg/L	18:56:41
2	Sb 206.836†	36.7	-30.2	-0.0079	mg/L	-0.0079	mg/L	18:56:41
2	Se 196.026†	16.2	-10.4	-0.0013	mg/L	-0.0013	mg/L	18:56:41
2	Sn 189.927†	50.9	-17.2	-0.0005	mg/L	-0.0005	mg/L	18:56:41
2	Sr 407.771†	244.4	-148.3	0.0002	mg/L	0.0002	mg/L	18:56:00
2	Ti 337.279†	-1097.0	861.2	0.0037	mg/L	0.0037	mg/L	18:56:31
2	Tl 190.801†	-10.6	2.9	0.0018	mg/L	0.0018	mg/L	18:56:41
2	V 292.402†	-755.7	601.0	0.0047	mg/L	0.0047	mg/L	18:56:31
2	Zn 213.857†	979.6	-479.5	-0.0024	mg/L	-0.0024	mg/L	18:56:41

Mean Data: CF32127-PDS2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	8590320.7	2.54 mg/L	0.040			1.59%

Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 254.1%

Ag 328.068†	-490.5	-0.0017 mg/L	0.00018	-0.0017 mg/L	0.00018	10.41%
Al 237.313†	222.8	0.0275 mg/L	0.00102	0.0275 mg/L	0.00102	3.69%
As 188.979†	-2.6	0.0010 mg/L	0.00020	0.0010 mg/L	0.00020	18.96%
B 249.677†	22.6	0.0117 mg/L	0.00043	0.0117 mg/L	0.00043	3.67%
B 182.528†	10.4	0.0124 mg/L	0.00060	0.0124 mg/L	0.00060	4.84%
Ba 233.527†	55.1	0.0010 mg/L	0.00001	0.0010 mg/L	0.00001	1.12%
Be 313.107†	1067.8	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.13%
Ca 315.887†	913.0	0.0165 mg/L	0.00041	0.0165 mg/L	0.00041	2.52%
Cd 228.802†	-91.2	-0.0009 mg/L	0.00000	-0.0009 mg/L	0.00000	0.22%
Co 228.616†	104.7	-0.0004 mg/L	0.00008	-0.0004 mg/L	0.00008	18.78%
Cr 267.716†	-557.5	-0.0037 mg/L	0.00007	-0.0037 mg/L	0.00007	1.89%
Cu 324.752†	-2763.2	-0.0105 mg/L	0.00001	-0.0105 mg/L	0.00001	0.14%
Fe 234.349†	-0.8	0.0102 mg/L	0.00354	0.0102 mg/L	0.00354	34.71%
K 766.490†	-478.8	-0.0610 mg/L	0.01485	-0.0610 mg/L	0.01485	24.33%
Li 670.784†	150.4	0.0054 mg/L	0.00034	0.0054 mg/L	0.00034	6.30%
Mg 279.077†	-204.7	-0.0153 mg/L	0.00009	-0.0153 mg/L	0.00009	0.61%
Mn 257.610†	-10651.0	-0.0115 mg/L	0.00006	-0.0115 mg/L	0.00006	0.49%
Mn 294.920†	361.0	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.30%
Mo 202.031†	14.7	0.0034 mg/L	0.00018	0.0034 mg/L	0.00018	5.23%
Na 589.592†	-1191.5	-0.0725 mg/L	0.00434	-0.0725 mg/L	0.00434	5.98%
Ni 231.604†	-107.2	-0.0025 mg/L	0.00004	-0.0025 mg/L	0.00004	1.64%
P 214.914†	22.3	0.0603 mg/L	0.00014	0.0603 mg/L	0.00014	0.24%
Pb 220.353†	-118.5	-0.0050 mg/L	0.00031	-0.0050 mg/L	0.00031	6.18%
Sb 206.836†	-31.9	-0.0086 mg/L	0.00098	-0.0086 mg/L	0.00098	11.36%
Se 196.026†	-10.1	-0.0012 mg/L	0.00023	-0.0012 mg/L	0.00023	19.62%
Sn 189.927†	-17.1	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	3.82%
Sr 407.771†	-160.9	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	9.27%
Ti 337.279†	916.3	0.0037 mg/L	0.00008	0.0037 mg/L	0.00008	2.14%
Tl 190.801†	3.8	0.0025 mg/L	0.00098	0.0025 mg/L	0.00098	39.16%
V 292.402†	590.3	0.0046 mg/L	0.00006	0.0046 mg/L	0.00006	1.23%
Zn 213.857†	-480.5	-0.0024 mg/L	0.00001	-0.0024 mg/L	0.00001	0.37%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 68
Sample ID: CCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/25/2013 6:58:19 PM
Data Type: Reprocessed on 6/26/2013 10:57:01 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3222503.8	3222503.8	0.953 mg/L		19:00:11
1	Ag 328.068†	48865.9	50535.1	0.2434 mg/L	0.2434 mg/L	19:00:11
1	Al 237.313†	24399.7	25988.5	2.391 mg/L	2.391 mg/L	19:00:21
1	As 188.979†	726.7	761.5	0.4677 mg/L	0.4677 mg/L	19:00:21
1	B 249.677†	1079.2	1147.5	0.4716 mg/L	0.4716 mg/L	19:00:01
1	B 182.528†	559.4	594.0	0.4919 mg/L	0.4919 mg/L	19:00:21
1	Ba 233.527†	61576.2	64695.7	0.4911 mg/L	0.4911 mg/L	19:00:11
1	Be 313.107†	133887.5	141912.3	0.0501 mg/L	0.0501 mg/L	19:00:11
1	Ca 315.887†	485082.9	509684.3	4.572 mg/L	4.572 mg/L	19:00:11
1	Cd 228.802†	9188.8	9493.8	0.2554 mg/L	0.2554 mg/L	19:00:21
1	Co 228.616†	29247.8	30865.8	0.4892 mg/L	0.4892 mg/L	19:00:21
1	Cr 267.716†	60302.0	62560.2	0.4767 mg/L	0.4767 mg/L	19:00:11
1	Cu 324.752†	108256.7	109630.2	0.4699 mg/L	0.4699 mg/L	19:00:11
1	Fe 234.349†	4547.6	4773.2	2.359 mg/L	2.359 mg/L	19:00:01
1	K 766.490†	53262.7	55140.0	23.69 mg/L	23.69 mg/L	18:59:59
1	Li 670.784†	19145.1	20360.3	0.4800 mg/L	0.4800 mg/L	19:00:01
1	Mg 279.077†	68755.1	71852.5	4.664 mg/L	4.664 mg/L	19:00:11
1	Mn 257.610†	447817.3	453811.8	0.4876 mg/L	0.4876 mg/L	19:00:11
1	Mn 294.920†	216230.3	227517.2	0.4851 mg/L	0.4851 mg/L	19:00:11
1	Mo 202.031†	12115.5	12722.4	0.4777 mg/L	0.4777 mg/L	19:00:21
1	Na 589.592†	181522.8	186233.7	25.04 mg/L	25.04 mg/L	18:59:59
1	Ni 231.604†	25044.4	26100.3	0.4859 mg/L	0.4859 mg/L	19:00:11
1	P 214.914†	8485.9	8949.8	4.733 mg/L	4.733 mg/L	19:00:21
1	Pb 220.353†	8007.1	8218.2	0.4836 mg/L	0.4836 mg/L	19:00:21
1	Sb 206.836†	1149.8	1161.6	0.4793 mg/L	0.4793 mg/L	19:00:21
1	Se 196.026†	1620.1	1683.0	0.9362 mg/L	0.9362 mg/L	19:00:21
1	Sn 189.927†	3809.6	3959.7	0.4907 mg/L	0.4907 mg/L	19:00:21
1	Sr 407.771†	52639.7	54985.9	0.0468 mg/L	0.0468 mg/L	18:59:59

1	Ti 337.279†	446122.4	469385.5	0.4839 mg/L	0.4839 mg/L	19:00:11
1	Tl 190.801†	568.6	603.7	0.4510 mg/L	0.4510 mg/L	19:00:21
1	V 292.402†	117199.3	123871.6	0.4941 mg/L	0.4941 mg/L	19:00:11
1	Zn 213.857†	76765.8	79676.0	0.4858 mg/L	0.4858 mg/L	19:00:11
2	Y 371.029	3160037.8	3160037.8	0.935 mg/L		19:00:25
2	Ag 328.068†	48327.1	50972.1	0.2455 mg/L	0.2455 mg/L	19:00:25
2	Al 237.313†	24609.2	26718.7	2.458 mg/L	2.458 mg/L	19:00:35
2	As 188.979†	740.6	791.4	0.4860 mg/L	0.4860 mg/L	19:00:35
2	B 249.677†	1109.1	1201.9	0.4938 mg/L	0.4938 mg/L	19:00:05
2	B 182.528†	563.3	609.7	0.5048 mg/L	0.5048 mg/L	19:00:35
2	Ba 233.527†	60545.5	64870.0	0.4924 mg/L	0.4924 mg/L	19:00:25
2	Be 313.107†	131690.9	142339.0	0.0503 mg/L	0.0503 mg/L	19:00:25
2	Ca 315.887†	475216.9	509188.9	4.567 mg/L	4.567 mg/L	19:00:25
2	Cd 228.802†	9259.4	9759.8	0.2625 mg/L	0.2625 mg/L	19:00:35
2	Co 228.616†	29506.8	31749.5	0.5032 mg/L	0.5032 mg/L	19:00:35
2	Cr 267.716†	59074.6	62497.6	0.4763 mg/L	0.4763 mg/L	19:00:25
2	Cu 324.752†	106725.8	110237.4	0.4725 mg/L	0.4725 mg/L	19:00:25
2	Fe 234.349†	4597.7	4921.1	2.432 mg/L	2.432 mg/L	19:00:05
2	K 766.490†	53905.6	56932.7	24.46 mg/L	24.46 mg/L	19:00:03
2	Li 670.784†	19312.4	20936.4	0.4935 mg/L	0.4935 mg/L	19:00:05
2	Mg 279.077†	67362.2	71788.1	4.660 mg/L	4.660 mg/L	19:00:25
2	Mn 257.610†	440614.5	455393.1	0.4893 mg/L	0.4893 mg/L	19:00:25
2	Mn 294.920†	212561.3	228076.2	0.4863 mg/L	0.4863 mg/L	19:00:25
2	Mo 202.031†	12219.3	13084.7	0.4913 mg/L	0.4913 mg/L	19:00:35
2	Na 589.592†	183292.8	191892.6	25.80 mg/L	25.80 mg/L	19:00:03
2	Ni 231.604†	24532.2	26071.7	0.4854 mg/L	0.4854 mg/L	19:00:25
2	P 214.914†	8570.2	9216.0	4.873 mg/L	4.873 mg/L	19:00:35
2	Pb 220.353†	8120.3	8505.4	0.5004 mg/L	0.5004 mg/L	19:00:35
2	Sb 206.836†	1158.9	1195.2	0.4932 mg/L	0.4932 mg/L	19:00:35
2	Se 196.026†	1644.1	1742.2	0.9690 mg/L	0.9690 mg/L	19:00:35
2	Sn 189.927†	3841.8	4073.1	0.5046 mg/L	0.5046 mg/L	19:00:35
2	Sr 407.771†	52993.5	56456.2	0.0481 mg/L	0.0481 mg/L	19:00:03
2	Ti 337.279†	439062.0	471084.0	0.4857 mg/L	0.4857 mg/L	19:00:25
2	Tl 190.801†	571.2	618.3	0.4620 mg/L	0.4620 mg/L	19:00:35
2	V 292.402†	115648.8	124643.3	0.4973 mg/L	0.4973 mg/L	19:00:25
2	Zn 213.857†	75330.4	79732.3	0.4862 mg/L	0.4862 mg/L	19:00:25

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3191270.8	0.944 mg/L	0.0131			1.38%
Ag 328.068†	50753.6	0.2445 mg/L	0.00149	0.2445 mg/L	0.00149	0.61%
QC value within limits for Ag 328.068		Recovery = 97.78%				
Al 237.313†	26353.6	2.425 mg/L	0.0473	2.425 mg/L	0.0473	1.95%
QC value within limits for Al 237.313		Recovery = 97.00%				
As 188.979†	776.4	0.4768 mg/L	0.01296	0.4768 mg/L	0.01296	2.72%
QC value within limits for As 188.979		Recovery = 95.36%				
B 249.677†	1174.7	0.4827 mg/L	0.01571	0.4827 mg/L	0.01571	3.26%
QC value within limits for B 249.677		Recovery = 96.53%				
B 182.528†	601.8	0.4983 mg/L	0.00914	0.4983 mg/L	0.00914	1.83%
QC value within limits for B 182.528		Recovery = 99.67%				
Ba 233.527†	64782.8	0.4917 mg/L	0.00093	0.4917 mg/L	0.00093	0.19%
QC value within limits for Ba 233.527		Recovery = 98.34%				
Be 313.107†	142125.6	0.0502 mg/L	0.00011	0.0502 mg/L	0.00011	0.21%
QC value within limits for Be 313.107		Recovery = 100.43%				
Ca 315.887†	509436.6	4.569 mg/L	0.0032	4.569 mg/L	0.0032	0.07%
QC value within limits for Ca 315.887		Recovery = 91.39%				
Cd 228.802†	9626.8	0.2589 mg/L	0.00503	0.2589 mg/L	0.00503	1.94%
QC value within limits for Cd 228.802		Recovery = 103.58%				
Co 228.616†	31307.7	0.4962 mg/L	0.00996	0.4962 mg/L	0.00996	2.01%
QC value within limits for Co 228.616		Recovery = 99.24%				
Cr 267.716†	62528.9	0.4765 mg/L	0.00033	0.4765 mg/L	0.00033	0.07%
QC value within limits for Cr 267.716		Recovery = 95.30%				
Cu 324.752†	109933.8	0.4712 mg/L	0.00183	0.4712 mg/L	0.00183	0.39%
QC value within limits for Cu 324.752		Recovery = 94.24%				
Fe 234.349†	4847.1	2.396 mg/L	0.0518	2.396 mg/L	0.0518	2.16%
QC value within limits for Fe 234.349		Recovery = 95.83%				
K 766.490†	56036.3	24.07 mg/L	0.541	24.07 mg/L	0.541	2.25%
QC value within limits for K 766.490		Recovery = 96.29%				
Li 670.784†	20648.4	0.4868 mg/L	0.00956	0.4868 mg/L	0.00956	1.96%
QC value within limits for Li 670.784		Recovery = 97.35%				
Mg 279.077†	71820.3	4.662 mg/L	0.0030	4.662 mg/L	0.0030	0.06%

QC value within limits for Mg	279.077	Recovery =	93.25%				
Mn 257.610†	454602.4	0.4884 mg/L	0.00119	0.4884 mg/L	0.00119	0.24%	
QC value within limits for Mn	257.610	Recovery =	97.69%				
Mn 294.920†	227796.7	0.4857 mg/L	0.00084	0.4857 mg/L	0.00084	0.17%	
QC value within limits for Mn	294.920	Recovery =	97.15%				
Mo 202.031†	12903.6	0.4845 mg/L	0.00961	0.4845 mg/L	0.00961	1.98%	
QC value within limits for Mo	202.031	Recovery =	96.91%				
Na 589.592†	189063.2	25.42 mg/L	0.536	25.42 mg/L	0.536	2.11%	
QC value within limits for Na	589.592	Recovery =	101.68%				
Ni 231.604†	26086.0	0.4856 mg/L	0.00036	0.4856 mg/L	0.00036	0.07%	
QC value within limits for Ni	231.604	Recovery =	97.12%				
P 214.914†	9082.9	4.803 mg/L	0.0986	4.803 mg/L	0.0986	2.05%	
QC value within limits for P	214.914	Recovery =	96.06%				
Pb 220.353†	8361.8	0.4920 mg/L	0.01190	0.4920 mg/L	0.01190	2.42%	
QC value within limits for Pb	220.353	Recovery =	98.40%				
Sb 206.836†	1178.4	0.4863 mg/L	0.00981	0.4863 mg/L	0.00981	2.02%	
QC value within limits for Sb	206.836	Recovery =	97.26%				
Se 196.026†	1712.6	0.9526 mg/L	0.02318	0.9526 mg/L	0.02318	2.43%	
QC value within limits for Se	196.026	Recovery =	95.26%				
Sn 189.927†	4016.4	0.4976 mg/L	0.00985	0.4976 mg/L	0.00985	1.98%	
QC value within limits for Sn	189.927	Recovery =	99.53%				
Sr 407.771†	55721.0	0.0475 mg/L	0.00088	0.0475 mg/L	0.00088	1.85%	
QC value within limits for Sr	407.771	Recovery =	94.93%				
Ti 337.279†	470234.7	0.4848 mg/L	0.00123	0.4848 mg/L	0.00123	0.25%	
QC value within limits for Ti	337.279	Recovery =	96.96%				
Tl 190.801†	611.0	0.4565 mg/L	0.00778	0.4565 mg/L	0.00778	1.70%	
QC value within limits for Tl	190.801	Recovery =	91.31%				
V 292.402†	124257.4	0.4957 mg/L	0.00226	0.4957 mg/L	0.00226	0.46%	
QC value within limits for V	292.402	Recovery =	99.13%				
Zn 213.857†	79704.2	0.4860 mg/L	0.00024	0.4860 mg/L	0.00024	0.05%	
QC value within limits for Zn	213.857	Recovery =	97.20%				

All analyte(s) passed QC.

Sequence No.: 69
Sample ID: CCB1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/25/2013 7:02:13 PM
Data Type: Reprocessed on 6/26/2013 10:57:01 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3205436.4	3205436.4	0.948 mg/L		19:04:19
1	Ag 328.068†	716.0	18.5	0.0007 mg/L	0.0007 mg/L	19:04:22
1	Al 237.313†	-474.5	-113.1	-0.0033 mg/L	-0.0033 mg/L	19:04:22
1	As 188.979†	3.7	2.8	0.0044 mg/L	0.0044 mg/L	19:04:32
1	B 249.677†	9.5	25.3	0.0128 mg/L	0.0128 mg/L	19:04:03
1	B 182.528†	5.0	12.3	0.0140 mg/L	0.0140 mg/L	19:04:32
1	Ba 233.527†	-54.9	29.9	0.0008 mg/L	0.0008 mg/L	19:04:32
1	Be 313.107†	-1379.6	-22.4	0.0002 mg/L	0.0002 mg/L	19:04:22
1	Ca 315.887†	-1508.1	-872.8	0.0005 mg/L	0.0005 mg/L	19:04:22
1	Cd 228.802†	147.9	8.6	0.0017 mg/L	0.0017 mg/L	19:04:32
1	Co 228.616†	-148.4	21.4	-0.0017 mg/L	-0.0017 mg/L	19:04:32
1	Cr 267.716†	623.2	-53.4	0.0001 mg/L	0.0001 mg/L	19:04:22
1	Cu 324.752†	3945.4	205.0	0.0022 mg/L	0.0022 mg/L	19:04:22
1	Fe 234.349†	-9.7	-8.5	0.0064 mg/L	0.0064 mg/L	19:04:03
1	K 766.490†	907.6	212.3	0.2341 mg/L	0.2341 mg/L	19:03:53
1	Li 670.784†	-329.5	-74.9	0.0001 mg/L	0.0001 mg/L	19:03:53
1	Mg 279.077†	233.8	-41.2	-0.0047 mg/L	-0.0047 mg/L	19:04:22
1	Mn 257.610†	15739.5	548.2	0.0005 mg/L	0.0005 mg/L	19:04:22
1	Mn 294.920†	-856.7	-263.1	-0.0007 mg/L	-0.0007 mg/L	19:04:22
1	Mo 202.031†	-8.5	1.5	0.0028 mg/L	0.0028 mg/L	19:04:32
1	Na 589.592†	11715.7	8131.5	1.177 mg/L	1.177 mg/L	19:03:53
1	Ni 231.604†	178.0	10.6	-0.0003 mg/L	-0.0003 mg/L	19:04:22
1	P 214.914†	-51.3	-8.1	0.0443 mg/L	0.0443 mg/L	19:04:32
1	Pb 220.353†	150.8	-24.1	0.0005 mg/L	0.0005 mg/L	19:04:32
1	Sb 206.836†	36.2	-6.6	0.0017 mg/L	0.0017 mg/L	19:04:32
1	Se 196.026†	9.2	-7.2	0.0005 mg/L	0.0005 mg/L	19:04:32
1	Sn 189.927†	50.7	16.0	0.0035 mg/L	0.0035 mg/L	19:04:32
1	Sr 407.771†	185.6	-49.9	0.0003 mg/L	0.0003 mg/L	19:03:53

1	Ti 337.279†	-1667.5	-461.0	0.0023 mg/L	0.0023 mg/L	19:04:22
1	Tl 190.801†	-5.1	1.7	0.0010 mg/L	0.0010 mg/L	19:04:32
1	V 292.402†	-1080.7	-238.1	0.0014 mg/L	0.0014 mg/L	19:04:22
1	Zn 213.857†	946.8	129.3	0.0013 mg/L	0.0013 mg/L	19:04:32
2	Y 371.029	3222747.4	3222747.4	0.953 mg/L		19:04:34
2	Ag 328.068†	750.4	50.5	0.0009 mg/L	0.0009 mg/L	19:04:36
2	Al 237.313†	-331.6	39.6	0.0107 mg/L	0.0107 mg/L	19:04:36
2	As 188.979†	0.8	-0.2	0.0025 mg/L	0.0025 mg/L	19:04:47
2	B 249.677†	-3.5	11.6	0.0072 mg/L	0.0072 mg/L	19:04:16
2	B 182.528†	2.3	9.3	0.0116 mg/L	0.0116 mg/L	19:04:47
2	Ba 233.527†	-76.3	7.7	0.0007 mg/L	0.0007 mg/L	19:04:47
2	Be 313.107†	-1364.9	0.7	0.0002 mg/L	0.0002 mg/L	19:04:36
2	Ca 315.887†	-1580.2	-939.9	-0.0001 mg/L	-0.0001 mg/L	19:04:36
2	Cd 228.802†	156.6	16.9	0.0020 mg/L	0.0020 mg/L	19:04:47
2	Co 228.616†	-148.5	22.1	-0.0017 mg/L	-0.0017 mg/L	19:04:47
2	Cr 267.716†	637.2	-42.3	0.0002 mg/L	0.0002 mg/L	19:04:36
2	Cu 324.752†	3913.4	149.1	0.0020 mg/L	0.0020 mg/L	19:04:36
2	Fe 234.349†	2.4	4.2	0.0127 mg/L	0.0127 mg/L	19:04:16
2	K 766.490†	783.3	76.7	0.1762 mg/L	0.1762 mg/L	19:04:06
2	Li 670.784†	-110.7	156.5	0.0056 mg/L	0.0056 mg/L	19:04:06
2	Mg 279.077†	280.3	6.2	-0.0016 mg/L	-0.0016 mg/L	19:04:36
2	Mn 257.610†	15830.9	554.9	0.0005 mg/L	0.0005 mg/L	19:04:36
2	Mn 294.920†	-945.7	-351.6	-0.0009 mg/L	-0.0009 mg/L	19:04:36
2	Mo 202.031†	-15.9	-6.2	0.0025 mg/L	0.0025 mg/L	19:04:47
2	Na 589.592†	11808.7	8162.7	1.181 mg/L	1.181 mg/L	19:04:06
2	Ni 231.604†	159.7	-9.6	-0.0007 mg/L	-0.0007 mg/L	19:04:36
2	P 214.914†	-61.9	-18.9	0.0386 mg/L	0.0386 mg/L	19:04:47
2	Pb 220.353†	146.1	-29.8	0.0002 mg/L	0.0002 mg/L	19:04:47
2	Sb 206.836†	35.1	-7.9	0.0011 mg/L	0.0011 mg/L	19:04:47
2	Se 196.026†	16.6	0.5	0.0047 mg/L	0.0047 mg/L	19:04:47
2	Sn 189.927†	51.4	16.4	0.0036 mg/L	0.0036 mg/L	19:04:47
2	Sr 407.771†	199.5	-36.4	0.0003 mg/L	0.0003 mg/L	19:04:06
2	Ti 337.279†	-1625.8	-407.8	0.0024 mg/L	0.0024 mg/L	19:04:36
2	Tl 190.801†	-6.5	0.3	-0.0001 mg/L	-0.0001 mg/L	19:04:47
2	V 292.402†	-866.7	-7.4	0.0023 mg/L	0.0023 mg/L	19:04:36
2	Zn 213.857†	959.2	136.9	0.0013 mg/L	0.0013 mg/L	19:04:47

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3214091.9	0.951 mg/L	0.0036			0.38%
Ag 328.068†	34.5	0.0008 mg/L	0.00011	0.0008 mg/L	0.00011	13.35%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-36.8	0.0037 mg/L	0.00990	0.0037 mg/L	0.00990	265.75%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.3	0.0034 mg/L	0.00133	0.0034 mg/L	0.00133	38.87%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	18.4	0.0100 mg/L	0.00395	0.0100 mg/L	0.00395	39.37%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	10.8	0.0128 mg/L	0.00170	0.0128 mg/L	0.00170	13.32%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba 233.527†	18.8	0.0007 mg/L	0.00012	0.0007 mg/L	0.00012	16.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-10.8	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	2.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-906.4	0.0002 mg/L	0.00042	0.0002 mg/L	0.00042	248.28%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	12.7	0.0018 mg/L	0.00016	0.0018 mg/L	0.00016	8.57%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	21.7	-0.0017 mg/L	0.00001	-0.0017 mg/L	0.00001	0.45%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-47.9	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	41.52%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	177.1	0.0021 mg/L	0.00017	0.0021 mg/L	0.00017	8.15%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	-2.2	0.0095 mg/L	0.00447	0.0095 mg/L	0.00447	46.87%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	144.5	0.2051 mg/L	0.04093	0.2051 mg/L	0.04093	19.95%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	40.8	0.0029 mg/L	0.00384	0.0029 mg/L	0.00384	134.64%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-17.5	-0.0031 mg/L	0.00218	-0.0031 mg/L	0.00218	69.44%

QC value within limits for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	551.5	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.77%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mn 294.920†	-307.4	-0.0008 mg/L	0.00013	-0.0008 mg/L	0.00013	16.13%
QC value within limits for Mn 294.920	Recovery = Not calculated					
Mo 202.031†	-2.4	0.0027 mg/L	0.00021	0.0027 mg/L	0.00021	7.65%
QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated					
Na 589.592†	8147.1	1.179 mg/L	0.0030	1.179 mg/L	0.0030	0.25%
QC value greater than the upper limit for Na 589.592	Recovery = Not calculated					
Ni 231.604†	0.5	-0.0005 mg/L	0.00027	-0.0005 mg/L	0.00027	51.89%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	-13.5	0.0414 mg/L	0.00399	0.0414 mg/L	0.00399	9.63%
QC value greater than the upper limit for P 214.914	Recovery = Not calculated					
Pb 220.353†	-27.0	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	67.95%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-7.3	0.0014 mg/L	0.00039	0.0014 mg/L	0.00039	28.06%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-3.3	0.0026 mg/L	0.00303	0.0026 mg/L	0.00303	116.85%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	16.2	0.0036 mg/L	0.00004	0.0036 mg/L	0.00004	1.02%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	-43.1	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.08%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	-434.4	0.0023 mg/L	0.00004	0.0023 mg/L	0.00004	1.65%
QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	1.0	0.0004 mg/L	0.00077	0.0004 mg/L	0.00077	189.08%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	-122.8	0.0019 mg/L	0.00064	0.0019 mg/L	0.00064	34.16%
QC value greater than the upper limit for V 292.402	Recovery = Not calculated					
Zn 213.857†	133.1	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.68%
QC value within limits for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 70
Sample ID: IFA
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/25/2013 7:06:24 PM
Data Type: Reprocessed on 6/26/2013 10:57:02 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: IFA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3036028.3	3036028.3	0.898 mg/L		19:08:19
1	Ag 328.068†	525.0	-152.1	0.0024 mg/L	0.0024 mg/L	19:08:21
1	Al 237.313†	2558039.5	2849227.1	261.2 mg/L	261.2 mg/L	19:08:19
1	As 188.979†	23.3	24.9	0.0178 mg/L	0.0178 mg/L	19:08:32
1	B 249.677†	-45.3	-35.3	-0.0119 mg/L	-0.0119 mg/L	19:08:06
1	B 182.528†	31.5	42.0	0.0384 mg/L	0.0384 mg/L	19:08:32
1	Ba 233.527†	64.4	159.4	0.0018 mg/L	0.0018 mg/L	19:08:32
1	Be 313.107†	4157.6	6063.1	-0.0002 mg/L	-0.0002 mg/L	19:08:21
1	Ca 315.887†	23628423.5	26315241.3	235.5 mg/L	235.5 mg/L	19:08:16
1	Cd 228.802†	192.4	66.8	0.0016 mg/L	0.0016 mg/L	19:08:32
1	Co 228.616†	969.1	1257.1	-0.0046 mg/L	-0.0046 mg/L	19:08:32
1	Cr 267.716†	1092.7	506.1	0.0044 mg/L	0.0044 mg/L	19:08:32
1	Cu 324.752†	1515.5	-2268.9	0.0042 mg/L	0.0042 mg/L	19:08:21
1	Fe 234.349†	176925.6	197040.3	97.19 mg/L	97.19 mg/L	19:08:04
1	K 766.490†	961.4	325.6	0.2825 mg/L	0.2825 mg/L	19:08:06
1	Li 670.784†	-154.6	100.5	0.0043 mg/L	0.0043 mg/L	19:08:06
1	Mg 279.077†	3407938.6	3795068.2	246.4 mg/L	246.4 mg/L	19:08:19
1	Mn 257.610†	30177.1	17553.5	-0.0032 mg/L	-0.0032 mg/L	19:08:21
1	Mn 294.920†	22804.0	26036.9	0.0554 mg/L	0.0554 mg/L	19:08:21
1	Mo 202.031†	296.9	341.1	0.0010 mg/L	0.0010 mg/L	19:08:32
1	Na 589.592†	13420.6	10719.8	1.523 mg/L	1.523 mg/L	19:08:06
1	Ni 231.604†	233.4	82.8	0.0010 mg/L	0.0010 mg/L	19:08:32
1	P 214.914†	-290.6	-277.6	-0.0970 mg/L	-0.0970 mg/L	19:08:32
1	Pb 220.353†	1168.6	1118.3	0.0025 mg/L	0.0025 mg/L	19:08:32
1	Sb 206.836†	83.7	48.4	-0.0172 mg/L	-0.0172 mg/L	19:08:32
1	Se 196.026†	9.5	-6.2	0.0067 mg/L	0.0067 mg/L	19:08:32
1	Sn 189.927†	-1000.6	-1151.8	0.0058 mg/L	0.0058 mg/L	19:08:32
1	Sr 407.771†	8588.4	9319.1	0.0082 mg/L	0.0082 mg/L	19:08:06

1	Ti 337.279†	9212497.7	10261080.4	10.52 mg/L	10.52 mg/L	19:08:19
1	Tl 190.801†	51.2	64.1	-0.0312 mg/L	-0.0312 mg/L	19:08:32
1	V 292.402†	3010.7	4254.8	-0.0020 mg/L	-0.0020 mg/L	19:08:32
1	Zn 213.857†	1588.8	900.1	0.0016 mg/L	0.0016 mg/L	19:08:32
2	Y 371.029	3039512.9	3039512.9	0.899 mg/L		19:08:38
2	Ag 328.068†	518.7	-159.7	0.0023 mg/L	0.0023 mg/L	19:08:41
2	Al 237.313†	2561957.5	2850319.4	261.3 mg/L	261.3 mg/L	19:08:38
2	As 188.979†	36.3	39.4	0.0267 mg/L	0.0267 mg/L	19:08:51
2	B 249.677†	-32.0	-20.4	-0.0058 mg/L	-0.0058 mg/L	19:08:11
2	B 182.528†	35.4	46.3	0.0419 mg/L	0.0419 mg/L	19:08:51
2	Ba 233.527†	72.5	168.4	0.0019 mg/L	0.0019 mg/L	19:08:51
2	Be 313.107†	4192.5	6096.5	-0.0002 mg/L	-0.0002 mg/L	19:08:41
2	Ca 315.887†	23607893.2	26262235.3	235.1 mg/L	235.1 mg/L	19:08:35
2	Cd 228.802†	170.8	42.5	0.0010 mg/L	0.0010 mg/L	19:08:51
2	Co 228.616†	961.9	1247.9	-0.0047 mg/L	-0.0047 mg/L	19:08:51
2	Cr 267.716†	893.8	283.5	0.0027 mg/L	0.0027 mg/L	19:08:51
2	Cu 324.752†	1536.9	-2247.0	0.0043 mg/L	0.0043 mg/L	19:08:41
2	Fe 234.349†	177731.8	197711.3	97.52 mg/L	97.52 mg/L	19:08:08
2	K 766.490†	918.1	276.2	0.2614 mg/L	0.2614 mg/L	19:08:11
2	Li 670.784†	-197.9	52.5	0.0031 mg/L	0.0031 mg/L	19:08:11
2	Mg 279.077†	3413833.1	3797274.1	246.6 mg/L	246.6 mg/L	19:08:38
2	Mn 257.610†	30241.7	17586.8	-0.0033 mg/L	-0.0033 mg/L	19:08:41
2	Mn 294.920†	23048.9	26280.3	0.0559 mg/L	0.0559 mg/L	19:08:41
2	Mo 202.031†	269.9	310.6	-0.0002 mg/L	-0.0002 mg/L	19:08:51
2	Na 589.592†	13379.2	10656.6	1.515 mg/L	1.515 mg/L	19:08:11
2	Ni 231.604†	154.3	-5.6	-0.0006 mg/L	-0.0006 mg/L	19:08:51
2	P 214.914†	-285.5	-271.5	-0.0938 mg/L	-0.0938 mg/L	19:08:51
2	Pb 220.353†	1106.9	1048.2	-0.0016 mg/L	-0.0016 mg/L	19:08:51
2	Sb 206.836†	99.7	66.1	-0.0101 mg/L	-0.0101 mg/L	19:08:51
2	Se 196.026†	5.5	-10.7	0.0043 mg/L	0.0043 mg/L	19:08:51
2	Sn 189.927†	-972.3	-1119.0	0.0095 mg/L	0.0095 mg/L	19:08:51
2	Sr 407.771†	8499.9	9209.7	0.0081 mg/L	0.0081 mg/L	19:08:11
2	Ti 337.279†	9226285.9	10264656.3	10.52 mg/L	10.52 mg/L	19:08:38
2	Tl 190.801†	54.4	67.6	-0.0286 mg/L	-0.0286 mg/L	19:08:51
2	V 292.402†	3057.9	4303.5	-0.0019 mg/L	-0.0019 mg/L	19:08:51
2	Zn 213.857†	1619.0	931.6	0.0018 mg/L	0.0018 mg/L	19:08:51

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3037770.6	0.898 mg/L	0.0007			0.08%
Ag 328.068†	-155.9	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	0.85%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	2849773.2	261.3 mg/L	0.07	261.3 mg/L	0.07	0.03%
QC value within limits for Al 237.313 Recovery = 104.50%						
As 188.979†	32.1	0.0223 mg/L	0.00627	0.0223 mg/L	0.00627	28.19%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B 249.677†	-27.8	-0.0088 mg/L	0.00429	-0.0088 mg/L	0.00429	48.63%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	44.2	0.0402 mg/L	0.00251	0.0402 mg/L	0.00251	6.25%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba 233.527†	163.9	0.0018 mg/L	0.00005	0.0018 mg/L	0.00005	2.61%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	6079.8	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	4.44%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	26288738.3	235.3 mg/L	0.34	235.3 mg/L	0.34	0.14%
QC value within limits for Ca 315.887 Recovery = 94.12%						
Cd 228.802†	54.7	0.0013 mg/L	0.00046	0.0013 mg/L	0.00046	35.56%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	1252.5	-0.0047 mg/L	0.00011	-0.0047 mg/L	0.00011	2.36%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	394.8	0.0035 mg/L	0.00120	0.0035 mg/L	0.00120	34.03%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2257.9	0.0042 mg/L	0.00007	0.0042 mg/L	0.00007	1.64%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	197375.8	97.35 mg/L	0.235	97.35 mg/L	0.235	0.24%
QC value within limits for Fe 234.349 Recovery = 97.35%						
K 766.490†	300.9	0.2719 mg/L	0.01490	0.2719 mg/L	0.01490	5.48%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	76.5	0.0037 mg/L	0.00080	0.0037 mg/L	0.00080	21.57%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	3796171.2	246.5 mg/L	0.10	246.5 mg/L	0.10	0.04%

Element	Value	Unit	Recovery	QC Value	QC Unit	Recovery	QC Value	QC Unit
Mn	257.610	mg/L	98.60%	17570.1	mg/L	0.00003	-0.0033	mg/L
Mn	294.920	mg/L	Not calculated	26158.6	mg/L	0.00037	0.0556	mg/L
Mo	202.031	mg/L	Not calculated	325.8	mg/L	0.00084	0.0004	mg/L
Na	589.592	mg/L	Not calculated	10688.2	mg/L	0.0060	1.519	mg/L
Ni	231.604	mg/L	Not calculated	38.6	mg/L	0.00116	0.0002	mg/L
P	214.914	mg/L	Not calculated	-274.6	mg/L	0.00224	-0.0954	mg/L
Pb	220.353	mg/L	Not calculated	1083.3	mg/L	0.00292	0.0004	mg/L
Sb	206.836	mg/L	Not calculated	57.2	mg/L	0.00503	-0.0136	mg/L
Se	196.026	mg/L	Not calculated	-8.5	mg/L	0.00174	0.0055	mg/L
Sn	189.927	mg/L	Not calculated	-1135.4	mg/L	0.00264	0.0076	mg/L
Sr	407.771	mg/L	Not calculated	9264.4	mg/L	0.00007	0.0081	mg/L
Ti	337.279	mg/L	Not calculated	10262868.3	mg/L	0.003	10.52	mg/L
Tl	190.801	mg/L	Not calculated	65.9	mg/L	0.00182	-0.0299	mg/L
V	292.402	mg/L	Not calculated	4279.2	mg/L	0.00011	-0.0019	mg/L
Zn	213.857	mg/L	Not calculated	915.8	mg/L	0.00013	0.0017	mg/L

Sequence No.: 71
Sample ID: IFB
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/25/2013 7:10:29 PM
Data Type: Reprocessed on 6/26/2013 10:57:02 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: IFB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3066143.3	3066143.3	0.907 mg/L		19:12:26
1	Ag 328.068†	102644.1	112453.2	0.5430 mg/L	0.5430 mg/L	19:12:29
1	Al 237.313†	2579042.1	2844406.8	260.8 mg/L	260.8 mg/L	19:12:26
1	As 188.979†	18.4	19.3	0.0140 mg/L	0.0140 mg/L	19:12:39
1	B 249.677†	-29.3	-17.1	-0.0044 mg/L	-0.0044 mg/L	19:12:13
1	B 182.528†	26.0	35.6	0.0332 mg/L	0.0332 mg/L	19:12:39
1	Ba 233.527†	30828.1	34083.3	0.2590 mg/L	0.2590 mg/L	19:12:39
1	Be 313.107†	681675.1	753145.0	0.2656 mg/L	0.2656 mg/L	19:12:26
1	Ca 315.887†	23875479.8	26329225.2	235.7 mg/L	235.7 mg/L	19:12:23
1	Cd 228.802†	18205.3	19928.3	0.5328 mg/L	0.5328 mg/L	19:12:39
1	Co 228.616†	13137.0	14664.6	0.2317 mg/L	0.2317 mg/L	19:12:39
1	Cr 267.716†	29929.6	32293.9	0.2462 mg/L	0.2462 mg/L	19:12:29
1	Cu 324.752†	55903.2	57690.1	0.2477 mg/L	0.2477 mg/L	19:12:29
1	Fe 234.349†	181558.3	200213.8	98.75 mg/L	98.75 mg/L	19:12:11
1	K 766.490†	874.0	218.7	0.2368 mg/L	0.2368 mg/L	19:12:13
1	Li 670.784†	-156.8	99.6	0.0042 mg/L	0.0042 mg/L	19:12:13
1	Mg 279.077†	3458984.5	3814081.4	247.7 mg/L	247.7 mg/L	19:12:26
1	Mn 257.610†	236591.6	244845.4	0.2409 mg/L	0.2409 mg/L	19:12:29
1	Mn 294.920†	127238.9	140952.3	0.3005 mg/L	0.3005 mg/L	19:12:29
1	Mo 202.031†	272.8	311.2	-0.0018 mg/L	-0.0018 mg/L	19:12:39
1	Na 589.592†	12904.4	10003.8	1.428 mg/L	1.428 mg/L	19:12:13
1	Ni 231.604†	22474.6	24606.5	0.4574 mg/L	0.4574 mg/L	19:12:29
1	P 214.914†	-314.6	-300.8	-0.1108 mg/L	-0.1108 mg/L	19:12:39
1	Pb 220.353†	8702.0	9413.0	0.4878 mg/L	0.4878 mg/L	19:12:39
1	Sb 206.836†	95.3	60.2	-0.0151 mg/L	-0.0151 mg/L	19:12:39
1	Se 196.026†	0.5	-16.4	0.0012 mg/L	0.0012 mg/L	19:12:39
1	Sn 189.927†	-1022.2	-1164.7	0.0043 mg/L	0.0043 mg/L	19:12:39
1	Sr 407.771†	8668.1	9313.0	0.0082 mg/L	0.0082 mg/L	19:12:13

1	Ti 337.279†	4448.6	6203.6	0.0091 mg/L	0.0091 mg/L	19:12:29
1	Tl 190.801†	50.3	62.5	-0.0344 mg/L	-0.0344 mg/L	19:12:39
1	V 292.402†	60973.2	68139.6	0.2696 mg/L	0.2696 mg/L	19:12:29
1	Zn 213.857†	75676.6	82582.4	0.4998 mg/L	0.4998 mg/L	19:12:29
2	Y 371.029	3081564.3	3081564.3	0.911 mg/L		19:12:46
2	Ag 328.068†	103562.8	112894.8	0.5451 mg/L	0.5451 mg/L	19:12:48
2	Al 237.313†	2591039.6	2843338.6	260.7 mg/L	260.7 mg/L	19:12:46
2	As 188.979†	8.8	8.6	0.0074 mg/L	0.0074 mg/L	19:12:58
2	B 249.677†	-35.8	-24.1	-0.0073 mg/L	-0.0073 mg/L	19:12:18
2	B 182.528†	25.6	35.1	0.0327 mg/L	0.0327 mg/L	19:12:58
2	Ba 233.527†	30916.6	34010.2	0.2584 mg/L	0.2584 mg/L	19:12:58
2	Be 313.107†	685367.7	753434.8	0.2657 mg/L	0.2657 mg/L	19:12:46
2	Ca 315.887†	23820052.4	26136654.4	233.9 mg/L	233.9 mg/L	19:12:43
2	Cd 228.802†	18279.1	19908.8	0.5323 mg/L	0.5323 mg/L	19:12:58
2	Co 228.616†	13172.0	14630.6	0.2311 mg/L	0.2311 mg/L	19:12:58
2	Cr 267.716†	30129.9	32348.5	0.2466 mg/L	0.2466 mg/L	19:12:48
2	Cu 324.752†	56097.9	57595.3	0.2473 mg/L	0.2473 mg/L	19:12:48
2	Fe 234.349†	180483.0	198032.0	97.67 mg/L	97.67 mg/L	19:12:16
2	K 766.490†	881.8	222.4	0.2384 mg/L	0.2384 mg/L	19:12:18
2	Li 670.784†	-178.0	77.3	0.0037 mg/L	0.0037 mg/L	19:12:18
2	Mg 279.077†	3474510.4	3812028.8	247.5 mg/L	247.5 mg/L	19:12:46
2	Mn 257.610†	238212.0	245317.8	0.2417 mg/L	0.2417 mg/L	19:12:48
2	Mn 294.920†	128167.9	141269.5	0.3012 mg/L	0.3012 mg/L	19:12:48
2	Mo 202.031†	241.5	275.4	-0.0030 mg/L	-0.0030 mg/L	19:12:58
2	Na 589.592†	12918.5	9948.0	1.420 mg/L	1.420 mg/L	19:12:18
2	Ni 231.604†	22539.8	24554.1	0.4564 mg/L	0.4564 mg/L	19:12:48
2	P 214.914†	-289.4	-271.4	-0.0954 mg/L	-0.0954 mg/L	19:12:58
2	Pb 220.353†	8731.4	9397.2	0.4869 mg/L	0.4869 mg/L	19:12:58
2	Sb 206.836†	104.8	70.1	-0.0106 mg/L	-0.0106 mg/L	19:12:58
2	Se 196.026†	1.5	-15.3	0.0018 mg/L	0.0018 mg/L	19:12:58
2	Sn 189.927†	-1035.5	-1173.7	0.0021 mg/L	0.0021 mg/L	19:12:58
2	Sr 407.771†	8776.9	9384.6	0.0082 mg/L	0.0082 mg/L	19:12:18
2	Ti 337.279†	4376.2	6099.6	0.0090 mg/L	0.0090 mg/L	19:12:48
2	Tl 190.801†	47.6	59.3	-0.0361 mg/L	-0.0361 mg/L	19:12:58
2	V 292.402†	61374.7	68243.7	0.2700 mg/L	0.2700 mg/L	19:12:48
2	Zn 213.857†	75944.8	82459.0	0.4991 mg/L	0.4991 mg/L	19:12:48

Mean Data: IFB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3073853.8	0.909 mg/L		0.0032			0.35%
Ag 328.068†	112674.0	0.5441 mg/L		0.00148	0.5441 mg/L	0.00148	0.27%
QC value within limits for Ag 328.068			Recovery = 108.81%				
Al 237.313†	2843872.7	260.7 mg/L		0.07	260.7 mg/L	0.07	0.03%
QC value within limits for Al 237.313			Recovery = 104.29%				
As 188.979†	13.9	0.0107 mg/L		0.00461	0.0107 mg/L	0.00461	43.07%
QC value within limits for As 188.979			Recovery = Not calculated				
B 249.677†	-20.6	-0.0059 mg/L		0.00200	-0.0059 mg/L	0.00200	34.16%
QC value within limits for B 249.677			Recovery = Not calculated				
B 182.528†	35.4	0.0329 mg/L		0.00032	0.0329 mg/L	0.00032	0.97%
QC value within limits for B 182.528			Recovery = Not calculated				
Ba 233.527†	34046.7	0.2587 mg/L		0.00039	0.2587 mg/L	0.00039	0.15%
QC value within limits for Ba 233.527			Recovery = 103.48%				
Be 313.107†	753289.9	0.2656 mg/L		0.00007	0.2656 mg/L	0.00007	0.03%
QC value within limits for Be 313.107			Recovery = 106.24%				
Ca 315.887†	26232939.8	234.8 mg/L		1.22	234.8 mg/L	1.22	0.52%
QC value within limits for Ca 315.887			Recovery = 93.92%				
Cd 228.802†	19918.6	0.5326 mg/L		0.00036	0.5326 mg/L	0.00036	0.07%
QC value within limits for Cd 228.802			Recovery = 106.51%				
Co 228.616†	14647.6	0.2314 mg/L		0.00038	0.2314 mg/L	0.00038	0.17%
QC value within limits for Co 228.616			Recovery = 92.56%				
Cr 267.716†	32321.2	0.2464 mg/L		0.00029	0.2464 mg/L	0.00029	0.12%
QC value within limits for Cr 267.716			Recovery = 98.55%				
Cu 324.752†	57642.7	0.2475 mg/L		0.00029	0.2475 mg/L	0.00029	0.12%
QC value within limits for Cu 324.752			Recovery = 99.02%				
Fe 234.349†	199122.9	98.21 mg/L		0.762	98.21 mg/L	0.762	0.78%
QC value within limits for Fe 234.349			Recovery = 98.21%				
K 766.490†	220.6	0.2376 mg/L		0.00114	0.2376 mg/L	0.00114	0.48%
QC value within limits for K 766.490			Recovery = Not calculated				
Li 670.784†	88.5	0.0040 mg/L		0.00037	0.0040 mg/L	0.00037	9.34%
QC value within limits for Li 670.784			Recovery = Not calculated				
Mg 279.077†	3813055.1	247.6 mg/L		0.09	247.6 mg/L	0.09	0.04%

	QC value within limits for Mg 279.077	Recovery = 99.04%				
Mn	257.610†	245081.6	0.2413 mg/L	0.00053	0.2413 mg/L	0.00053 0.22%
	QC value within limits for Mn 257.610	Recovery = 96.52%				
Mn	294.920†	141110.9	0.3008 mg/L	0.00048	0.3008 mg/L	0.00048 0.16%
	QC value greater than the upper limit for Mn 294.920	Recovery = 120.33%				
Mo	202.031†	293.3	-0.0024 mg/L	0.00084	-0.0024 mg/L	0.00084 35.16%
	QC value within limits for Mo 202.031	Recovery = Not calculated				
Na	589.592†	9975.9	1.424 mg/L	0.0053	1.424 mg/L	0.0053 0.37%
	QC value within limits for Na 589.592	Recovery = Not calculated				
Ni	231.604†	24580.3	0.4569 mg/L	0.00069	0.4569 mg/L	0.00069 0.15%
	QC value within limits for Ni 231.604	Recovery = 91.37%				
P	214.914†	-286.1	-0.1031 mg/L	0.01091	-0.1031 mg/L	0.01091 10.58%
	QC value less than the lower limit for P 214.914	Recovery = Not calculated				
Pb	220.353†	9405.1	0.4873 mg/L	0.00064	0.4873 mg/L	0.00064 0.13%
	QC value within limits for Pb 220.353	Recovery = 97.46%				
Sb	206.836†	65.2	-0.0128 mg/L	0.00317	-0.0128 mg/L	0.00317 24.74%
	QC value within limits for Sb 206.836	Recovery = Not calculated				
Se	196.026†	-15.8	0.0015 mg/L	0.00038	0.0015 mg/L	0.00038 25.31%
	QC value within limits for Se 196.026	Recovery = Not calculated				
Sn	189.927†	-1169.2	0.0032 mg/L	0.00153	0.0032 mg/L	0.00153 48.02%
	QC value within limits for Sn 189.927	Recovery = Not calculated				
Sr	407.771†	9348.8	0.0082 mg/L	0.00004	0.0082 mg/L	0.00004 0.52%
	QC value within limits for Sr 407.771	Recovery = Not calculated				
Ti	337.279†	6151.6	0.0091 mg/L	0.00008	0.0091 mg/L	0.00008 0.83%
	QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl	190.801†	60.9	-0.0353 mg/L	0.00121	-0.0353 mg/L	0.00121 3.43%
	QC value within limits for Tl 190.801	Recovery = Not calculated				
V	292.402†	68191.7	0.2698 mg/L	0.00028	0.2698 mg/L	0.00028 0.10%
	QC value within limits for V 292.402	Recovery = 107.93%				
Zn	213.857†	82520.7	0.4995 mg/L	0.00050	0.4995 mg/L	0.00050 0.10%
	QC value within limits for Zn 213.857	Recovery = 99.89%				
QC Failed. Continue with analysis.						

Sequence No.: 72
Sample ID: WASH
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 6/25/2013 7:14:37 PM
Data Type: Reprocessed on 6/26/2013 10:57:03 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3338895.6	3338895.6	0.987 mg/L			19:16:36
1	Ag 328.068†	684.5	-43.7	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	19:16:38
1	Al 237.313†	-11.1	376.2	0.0416 mg/L	0.0416 mg/L	0.0416 mg/L	19:16:38
1	As 188.979†	-3.1	-4.2	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	19:16:49
1	B 249.677†	-8.7	6.4	0.0051 mg/L	0.0051 mg/L	0.0051 mg/L	19:16:20
1	B 182.528†	-8.5	-1.6	0.0026 mg/L	0.0026 mg/L	0.0026 mg/L	19:16:49
1	Ba 233.527†	-56.9	30.1	0.0008 mg/L	0.0008 mg/L	0.0008 mg/L	19:16:49
1	Be 313.107†	-1271.6	145.1	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	19:16:38
1	Ca 315.887†	5739.2	6529.8	0.0667 mg/L	0.0667 mg/L	0.0667 mg/L	19:16:38
1	Cd 228.802†	166.5	21.2	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	19:16:49
1	Co 228.616†	-133.0	43.3	-0.0014 mg/L	-0.0014 mg/L	-0.0014 mg/L	19:16:49
1	Cr 267.716†	636.4	-66.4	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	19:16:38
1	Cu 324.752†	4241.4	338.4	0.0028 mg/L	0.0028 mg/L	0.0028 mg/L	19:16:38
1	Fe 234.349†	38.9	41.1	0.0308 mg/L	0.0308 mg/L	0.0308 mg/L	19:16:20
1	K 766.490†	768.7	33.3	0.1577 mg/L	0.1577 mg/L	0.1577 mg/L	19:16:10
1	Li 670.784†	-269.0	0.2	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	19:16:10
1	Mg 279.077†	1087.9	813.8	0.0508 mg/L	0.0508 mg/L	0.0508 mg/L	19:16:38
1	Mn 257.610†	16483.0	637.4	0.0006 mg/L	0.0006 mg/L	0.0006 mg/L	19:16:38
1	Mn 294.920†	-830.9	-200.9	-0.0006 mg/L	-0.0006 mg/L	-0.0006 mg/L	19:16:38
1	Mo 202.031†	-19.3	-9.2	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	19:16:49
1	Na 589.592†	10756.4	6666.1	0.9803 mg/L	0.9803 mg/L	0.9803 mg/L	19:16:10
1	Ni 231.604†	200.7	26.1	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	19:16:38
1	P 214.914†	-71.4	-26.3	0.0347 mg/L	0.0347 mg/L	0.0347 mg/L	19:16:49
1	Pb 220.353†	188.7	8.0	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	19:16:49
1	Sb 206.836†	38.8	-5.6	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	19:16:49
1	Se 196.026†	12.1	-4.6	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	19:16:49
1	Sn 189.927†	60.9	24.2	0.0046 mg/L	0.0046 mg/L	0.0046 mg/L	19:16:49
1	Sr 407.771†	493.7	254.3	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	19:16:10

1	Ti 337.279†	-1159.1	124.1	0.0029	mg/L	0.0029	mg/L	19:16:38
1	Tl 190.801†	-7.4	-0.4	-0.0007	mg/L	-0.0007	mg/L	19:16:49
1	V 292.402†	-945.4	-55.5	0.0021	mg/L	0.0021	mg/L	19:16:38
1	Zn 213.857†	987.9	131.0	0.0013	mg/L	0.0013	mg/L	19:16:49
2	Y 371.029	3317467.9	3317467.9	0.981	mg/L			19:16:51
2	Ag 328.068†	788.2	66.5	0.0010	mg/L	0.0010	mg/L	19:16:53
2	Al 237.313†	-68.1	318.0	0.0362	mg/L	0.0362	mg/L	19:16:53
2	As 188.979†	-0.6	-1.7	0.0016	mg/L	0.0016	mg/L	19:17:03
2	B 249.677†	-11.3	3.7	0.0040	mg/L	0.0040	mg/L	19:16:32
2	B 182.528†	-0.1	6.9	0.0095	mg/L	0.0095	mg/L	19:17:03
2	Ba 233.527†	-65.9	20.6	0.0008	mg/L	0.0008	mg/L	19:17:03
2	Be 313.107†	-1343.3	63.7	0.0002	mg/L	0.0002	mg/L	19:16:53
2	Ca 315.887†	5341.2	6161.7	0.0634	mg/L	0.0634	mg/L	19:16:53
2	Cd 228.802†	150.3	5.7	0.0017	mg/L	0.0017	mg/L	19:17:03
2	Co 228.616†	-151.0	24.0	-0.0017	mg/L	-0.0017	mg/L	19:17:03
2	Cr 267.716†	651.9	-46.4	0.0002	mg/L	0.0002	mg/L	19:16:53
2	Cu 324.752†	4159.9	283.1	0.0025	mg/L	0.0025	mg/L	19:16:53
2	Fe 234.349†	30.2	32.5	0.0266	mg/L	0.0266	mg/L	19:16:32
2	K 766.490†	832.1	103.0	0.1874	mg/L	0.1874	mg/L	19:16:22
2	Li 670.784†	-425.6	-161.2	-0.0019	mg/L	-0.0019	mg/L	19:16:22
2	Mg 279.077†	1008.5	740.0	0.0461	mg/L	0.0461	mg/L	19:16:53
2	Mn 257.610†	16472.9	735.0	0.0007	mg/L	0.0007	mg/L	19:16:53
2	Mn 294.920†	-662.0	-34.2	-0.0002	mg/L	-0.0002	mg/L	19:16:53
2	Mo 202.031†	-26.1	-16.1	0.0022	mg/L	0.0022	mg/L	19:17:03
2	Na 589.592†	10883.1	6865.6	1.007	mg/L	1.007	mg/L	19:16:22
2	Ni 231.604†	203.5	30.2	0.0000	mg/L	0.0000	mg/L	19:16:53
2	P 214.914†	-54.2	-9.2	0.0437	mg/L	0.0437	mg/L	19:17:03
2	Pb 220.353†	174.7	-5.0	0.0016	mg/L	0.0016	mg/L	19:17:03
2	Sb 206.836†	45.8	1.9	0.0051	mg/L	0.0051	mg/L	19:17:03
2	Se 196.026†	13.6	-3.0	0.0028	mg/L	0.0028	mg/L	19:17:03
2	Sn 189.927†	47.5	10.9	0.0030	mg/L	0.0030	mg/L	19:17:03
2	Sr 407.771†	482.2	245.8	0.0005	mg/L	0.0005	mg/L	19:16:22
2	Ti 337.279†	-1058.3	219.3	0.0030	mg/L	0.0030	mg/L	19:16:53
2	Tl 190.801†	-9.6	-2.7	-0.0024	mg/L	-0.0024	mg/L	19:17:03
2	V 292.402†	-891.5	-6.7	0.0023	mg/L	0.0023	mg/L	19:16:53
2	Zn 213.857†	971.3	120.5	0.0012	mg/L	0.0012	mg/L	19:17:03

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3328181.8	0.984	mg/L	0.0045			0.46%
Ag 328.068†	11.4	0.0007	mg/L	0.00037	0.0007 mg/L	0.00037	52.97%
Al 237.313†	347.1	0.0389	mg/L	0.00377	0.0389 mg/L	0.00377	9.70%
As 188.979†	-2.9	0.0008	mg/L	0.00109	0.0008 mg/L	0.00109	130.14%
B 249.677†	5.0	0.0046	mg/L	0.00079	0.0046 mg/L	0.00079	17.23%
B 182.528†	2.6	0.0061	mg/L	0.00493	0.0061 mg/L	0.00493	81.50%
Ba 233.527†	25.3	0.0008	mg/L	0.00005	0.0008 mg/L	0.00005	6.45%
Be 313.107†	104.4	0.0002	mg/L	0.00002	0.0002 mg/L	0.00002	8.11%
Ca 315.887†	6345.7	0.0651	mg/L	0.00233	0.0651 mg/L	0.00233	3.58%
Cd 228.802†	13.4	0.0019	mg/L	0.00029	0.0019 mg/L	0.00029	15.74%
Co 228.616†	33.6	-0.0015	mg/L	0.00022	-0.0015 mg/L	0.00022	14.11%
Cr 267.716†	-56.4	0.0001	mg/L	0.00011	0.0001 mg/L	0.00011	137.03%
Cu 324.752†	310.8	0.0026	mg/L	0.00017	0.0026 mg/L	0.00017	6.31%
Fe 234.349†	36.8	0.0287	mg/L	0.00301	0.0287 mg/L	0.00301	10.47%
K 766.490†	68.2	0.1725	mg/L	0.02104	0.1725 mg/L	0.02104	12.19%
Li 670.784†	-80.5	0.0000	mg/L	0.00268	0.0000 mg/L	0.00268	>999.9%
Mg 279.077†	776.9	0.0484	mg/L	0.00339	0.0484 mg/L	0.00339	6.99%
Mn 257.610†	686.2	0.0007	mg/L	0.00007	0.0007 mg/L	0.00007	11.21%
Mn 294.920†	-117.5	-0.0004	mg/L	0.00025	-0.0004 mg/L	0.00025	59.47%
Mo 202.031†	-12.7	0.0023	mg/L	0.00018	0.0023 mg/L	0.00018	8.02%
Na 589.592†	6765.8	0.9937	mg/L	0.01890	0.9937 mg/L	0.01890	1.90%
Ni 231.604†	28.1	0.0000	mg/L	0.00005	0.0000 mg/L	0.00005	>999.9%
P 214.914†	-17.7	0.0392	mg/L	0.00635	0.0392 mg/L	0.00635	16.20%
Pb 220.353†	1.5	0.0020	mg/L	0.00054	0.0020 mg/L	0.00054	26.85%
Sb 206.836†	-1.8	0.0036	mg/L	0.00215	0.0036 mg/L	0.00215	59.71%
Se 196.026†	-3.8	0.0023	mg/L	0.00064	0.0023 mg/L	0.00064	27.54%
Sn 189.927†	17.5	0.0038	mg/L	0.00115	0.0038 mg/L	0.00115	30.53%
Sr 407.771†	250.1	0.0005	mg/L	0.00001	0.0005 mg/L	0.00001	0.99%
Ti 337.279†	171.7	0.0030	mg/L	0.00007	0.0030 mg/L	0.00007	2.33%
Tl 190.801†	-1.5	-0.0015	mg/L	0.00122	-0.0015 mg/L	0.00122	78.94%
V 292.402†	-31.1	0.0022	mg/L	0.00013	0.0022 mg/L	0.00013	6.00%
Zn 213.857†	125.8	0.0012	mg/L	0.00005	0.0012 mg/L	0.00005	3.66%

Sequence No.: 73

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/25/2013 8:00:58 PM

Data Type: Reprocessed on 6/26/2013 10:57:03 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3293266.1	3293266.1	0.974 mg/L			20:02:52
1	Ag 328.068†	49919.0	50514.6	0.2433 mg/L		0.2433 mg/L	20:02:52
1	Al 237.313†	25117.0	26174.9	2.409 mg/L		2.409 mg/L	20:03:02
1	As 188.979†	758.9	778.1	0.4778 mg/L		0.4778 mg/L	20:03:02
1	B 249.677†	1103.3	1147.9	0.4717 mg/L		0.4717 mg/L	20:02:42
1	B 182.528†	564.3	586.4	0.4856 mg/L		0.4856 mg/L	20:03:02
1	Ba 233.527†	62665.7	64426.1	0.4890 mg/L		0.4890 mg/L	20:02:52
1	Be 313.107†	135304.1	140348.3	0.0496 mg/L		0.0496 mg/L	20:02:52
1	Ca 315.887†	505273.2	519477.4	4.659 mg/L		4.659 mg/L	20:02:52
1	Cd 228.802†	9304.7	9405.6	0.2530 mg/L		0.2530 mg/L	20:03:02
1	Co 228.616†	30107.4	31089.0	0.4927 mg/L		0.4927 mg/L	20:03:02
1	Cr 267.716†	61953.2	62896.0	0.4793 mg/L		0.4793 mg/L	20:02:52
1	Cu 324.752†	111461.8	110480.2	0.4735 mg/L		0.4735 mg/L	20:02:52
1	Fe 234.349†	4760.3	4889.0	2.416 mg/L		2.416 mg/L	20:02:42
1	K 766.490†	54626.1	55339.1	23.77 mg/L		23.77 mg/L	20:02:40
1	Li 670.784†	19796.6	20597.6	0.4856 mg/L		0.4856 mg/L	20:02:42
1	Mg 279.077†	71446.4	73065.6	4.743 mg/L		4.743 mg/L	20:02:52
1	Mn 257.610†	458653.0	454840.7	0.4887 mg/L		0.4887 mg/L	20:02:52
1	Mn 294.920†	220759.9	227292.8	0.4847 mg/L		0.4847 mg/L	20:02:52
1	Mo 202.031†	12461.0	12804.0	0.4808 mg/L		0.4808 mg/L	20:03:02
1	Na 589.592†	180225.2	180809.1	24.31 mg/L		24.31 mg/L	20:02:40
1	Ni 231.604†	25752.7	26262.9	0.4889 mg/L		0.4889 mg/L	20:02:52
1	P 214.914†	8762.4	9042.3	4.782 mg/L		4.782 mg/L	20:03:02
1	Pb 220.353†	8245.4	8282.3	0.4873 mg/L		0.4873 mg/L	20:03:02
1	Sb 206.836†	1186.3	1173.1	0.4841 mg/L		0.4841 mg/L	20:03:02
1	Se 196.026†	1689.5	1717.7	0.9554 mg/L		0.9554 mg/L	20:03:02
1	Sn 189.927†	3894.1	3960.6	0.4909 mg/L		0.4909 mg/L	20:03:02
1	Sr 407.771†	54570.2	55781.1	0.0475 mg/L		0.0475 mg/L	20:02:40
1	Ti 337.279†	456478.6	469960.4	0.4845 mg/L		0.4845 mg/L	20:02:52
1	Tl 190.801†	598.9	622.0	0.4648 mg/L		0.4648 mg/L	20:03:02
1	V 292.402†	119694.0	123790.6	0.4938 mg/L		0.4938 mg/L	20:02:52
1	Zn 213.857†	78271.1	79490.8	0.4847 mg/L		0.4847 mg/L	20:02:52
2	Y 371.029	3459200.3	3459200.3	1.02 mg/L			20:03:06
2	Ag 328.068†	52513.9	50592.5	0.2437 mg/L		0.2437 mg/L	20:03:06
2	Al 237.313†	14910.3	14961.3	1.381 mg/L		1.381 mg/L	20:03:16
2	As 188.979†	457.0	445.7	0.2745 mg/L		0.2745 mg/L	20:03:16
2	B 249.677†	1118.3	1108.3	0.4553 mg/L		0.4553 mg/L	20:02:47
2	B 182.528†	342.1	341.3	0.2843 mg/L		0.2843 mg/L	20:03:16
2	Ba 233.527†	66306.4	64898.4	0.4926 mg/L		0.4926 mg/L	20:03:06
2	Be 313.107†	143650.9	141843.2	0.0501 mg/L		0.0501 mg/L	20:03:06
2	Ca 315.887†	536124.5	524748.4	4.707 mg/L		4.707 mg/L	20:03:06
2	Cd 228.802†	5653.4	5378.5	0.1453 mg/L		0.1453 mg/L	20:03:16
2	Co 228.616†	18147.5	17916.1	0.2826 mg/L		0.2826 mg/L	20:03:16
2	Cr 267.716†	65558.8	63369.1	0.4828 mg/L		0.4828 mg/L	20:03:06
2	Cu 324.752†	117456.1	110849.8	0.4752 mg/L		0.4752 mg/L	20:03:06
2	Fe 234.349†	4733.3	4628.2	2.287 mg/L		2.287 mg/L	20:02:47
2	K 766.490†	55026.8	53040.4	22.79 mg/L		22.79 mg/L	20:02:45
2	Li 670.784†	19712.6	19540.5	0.4607 mg/L		0.4607 mg/L	20:02:47
2	Mg 279.077†	75950.5	73949.3	4.801 mg/L		4.801 mg/L	20:03:06
2	Mn 257.610†	484941.8	457948.1	0.4921 mg/L		0.4921 mg/L	20:03:06
2	Mn 294.920†	233851.0	229216.3	0.4888 mg/L		0.4888 mg/L	20:03:06
2	Mo 202.031†	7958.6	7789.5	0.2924 mg/L		0.2924 mg/L	20:03:16
2	Na 589.592†	181395.0	173076.5	23.28 mg/L		23.28 mg/L	20:02:45
2	Ni 231.604†	27335.3	26541.5	0.4938 mg/L		0.4938 mg/L	20:03:06
2	P 214.914†	5202.2	5130.9	2.733 mg/L		2.733 mg/L	20:03:16
2	Pb 220.353†	5078.7	4781.0	0.2821 mg/L		0.2821 mg/L	20:03:16
2	Sb 206.836†	725.8	664.6	0.2741 mg/L		0.2741 mg/L	20:03:16
2	Se 196.026†	1009.1	969.5	0.5412 mg/L		0.5412 mg/L	20:03:16
2	Sn 189.927†	2386.2	2294.9	0.2863 mg/L		0.2863 mg/L	20:03:16
2	Sr 407.771†	55009.3	53522.8	0.0456 mg/L		0.0456 mg/L	20:02:45

2	Ti 337.279†	482978.2	473381.0	0.4880 mg/L	0.4880 mg/L	20:03:06
2	Tl 190.801†	375.8	374.5	0.2780 mg/L	0.2780 mg/L	20:03:06
2	V 292.402†	126586.5	124632.8	0.4945 mg/L	0.4945 mg/L	20:03:06
2	Zn 213.857†	82581.5	79849.2	0.4868 mg/L	0.4868 mg/L	20:03:06

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3376233.2	0.999 mg/L	0.0347			3.48%
Ag 328.068†	50553.5	0.2435 mg/L	0.00026	0.2435 mg/L	0.00026	0.11%
QC value within limits for Ag 328.068 Recovery = 97.40%						
Al 237.313†	20568.1	1.895 mg/L	0.7269	1.895 mg/L	0.7269	38.37%
QC value less than the lower limit for Al 237.313 Recovery = 75.78%						
As 188.979†	611.9	0.3761 mg/L	0.14380	0.3761 mg/L	0.14380	38.23%
QC value less than the lower limit for As 188.979 Recovery = 75.23%						
B 249.677†	1128.1	0.4635 mg/L	0.01163	0.4635 mg/L	0.01163	2.51%
QC value within limits for B 249.677 Recovery = 92.70%						
B 182.528†	463.9	0.3850 mg/L	0.14234	0.3850 mg/L	0.14234	36.97%
QC value less than the lower limit for B 182.528 Recovery = 77.00%						
Ba 233.527†	64662.2	0.4908 mg/L	0.00253	0.4908 mg/L	0.00253	0.52%
QC value within limits for Ba 233.527 Recovery = 98.16%						
Be 313.107†	141095.7	0.0499 mg/L	0.00037	0.0499 mg/L	0.00037	0.75%
QC value within limits for Be 313.107 Recovery = 99.70%						
Ca 315.887†	522112.9	4.683 mg/L	0.0339	4.683 mg/L	0.0339	0.72%
QC value within limits for Ca 315.887 Recovery = 93.67%						
Cd 228.802†	7392.0	0.1992 mg/L	0.07616	0.1992 mg/L	0.07616	38.24%
QC value less than the lower limit for Cd 228.802 Recovery = 79.67%						
Co 228.616†	24502.5	0.3877 mg/L	0.14855	0.3877 mg/L	0.14855	38.32%
QC value less than the lower limit for Co 228.616 Recovery = 77.53%						
Cr 267.716†	63132.5	0.4810 mg/L	0.00244	0.4810 mg/L	0.00244	0.51%
QC value within limits for Cr 267.716 Recovery = 96.21%						
Cu 324.752†	110665.0	0.4744 mg/L	0.00119	0.4744 mg/L	0.00119	0.25%
QC value within limits for Cu 324.752 Recovery = 94.88%						
Fe 234.349†	4758.6	2.352 mg/L	0.0914	2.352 mg/L	0.0914	3.89%
QC value within limits for Fe 234.349 Recovery = 94.07%						
K 766.490†	54189.8	23.28 mg/L	0.694	23.28 mg/L	0.694	2.98%
QC value within limits for K 766.490 Recovery = 93.14%						
Li 670.784†	20069.0	0.4732 mg/L	0.01755	0.4732 mg/L	0.01755	3.71%
QC value within limits for Li 670.784 Recovery = 94.63%						
Mg 279.077†	73507.4	4.772 mg/L	0.0406	4.772 mg/L	0.0406	0.85%
QC value within limits for Mg 279.077 Recovery = 95.44%						
Mn 257.610†	456394.4	0.4904 mg/L	0.00238	0.4904 mg/L	0.00238	0.49%
QC value within limits for Mn 257.610 Recovery = 98.07%						
Mn 294.920†	228254.5	0.4867 mg/L	0.00290	0.4867 mg/L	0.00290	0.60%
QC value within limits for Mn 294.920 Recovery = 97.34%						
Mo 202.031†	10296.7	0.3866 mg/L	0.13320	0.3866 mg/L	0.13320	34.45%
QC value less than the lower limit for Mo 202.031 Recovery = 77.32%						
Na 589.592†	176942.8	23.80 mg/L	0.733	23.80 mg/L	0.733	3.08%
QC value within limits for Na 589.592 Recovery = 95.18%						
Ni 231.604†	26402.2	0.4913 mg/L	0.00346	0.4913 mg/L	0.00346	0.70%
QC value within limits for Ni 231.604 Recovery = 98.27%						
P 214.914†	7086.6	3.757 mg/L	1.4488	3.757 mg/L	1.4488	38.56%
QC value less than the lower limit for P 214.914 Recovery = 75.15%						
Pb 220.353†	6531.7	0.3847 mg/L	0.14514	0.3847 mg/L	0.14514	37.73%
QC value less than the lower limit for Pb 220.353 Recovery = 76.94%						
Sb 206.836†	918.9	0.3791 mg/L	0.14843	0.3791 mg/L	0.14843	39.15%
QC value less than the lower limit for Sb 206.836 Recovery = 75.82%						
Se 196.026†	1343.6	0.7483 mg/L	0.29288	0.7483 mg/L	0.29288	39.14%
QC value less than the lower limit for Se 196.026 Recovery = 74.83%						
Sn 189.927†	3127.8	0.3886 mg/L	0.14463	0.3886 mg/L	0.14463	37.22%
QC value less than the lower limit for Sn 189.927 Recovery = 77.72%						
Sr 407.771†	54651.9	0.0466 mg/L	0.00135	0.0466 mg/L	0.00135	2.90%
QC value within limits for Sr 407.771 Recovery = 93.12%						
Ti 337.279†	471670.7	0.4863 mg/L	0.00248	0.4863 mg/L	0.00248	0.51%
QC value within limits for Ti 337.279 Recovery = 97.25%						
Tl 190.801†	498.2	0.3714 mg/L	0.13207	0.3714 mg/L	0.13207	35.56%
QC value less than the lower limit for Tl 190.801 Recovery = 74.28%						
V 292.402†	124211.7	0.4941 mg/L	0.00046	0.4941 mg/L	0.00046	0.09%
QC value within limits for V 292.402 Recovery = 98.83%						
Zn 213.857†	79670.0	0.4858 mg/L	0.00153	0.4858 mg/L	0.00153	0.32%
QC value within limits for Zn 213.857 Recovery = 97.15%						
QC Failed. Continue with analysis.						

Sequence No.: 74

Sample ID: CCB1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/25/2013 8:04:55 PM

Data Type: Reprocessed on 6/26/2013 10:57:04 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3348164.9	3348164.9	0.990 mg/L			20:07:00
1	Ag 328.068†	761.7	32.4	0.0008 mg/L	0.0008 mg/L	0.0008 mg/L	20:07:02
1	Al 237.313†	-418.6	-35.3	0.0039 mg/L	0.0039 mg/L	0.0039 mg/L	20:07:02
1	As 188.979†	4.5	3.5	0.0048 mg/L	0.0048 mg/L	0.0048 mg/L	20:07:12
1	B 249.677†	-11.8	3.3	0.0039 mg/L	0.0039 mg/L	0.0039 mg/L	20:06:44
1	B 182.528†	-4.0	2.9	0.0063 mg/L	0.0063 mg/L	0.0063 mg/L	20:07:12
1	Ba 233.527†	-89.2	-2.3	0.0006 mg/L	0.0006 mg/L	0.0006 mg/L	20:07:12
1	Be 313.107†	-1275.1	145.1	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:07:02
1	Ca 315.887†	-1483.5	-780.1	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	20:07:02
1	Cd 228.802†	153.5	7.6	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	20:07:12
1	Co 228.616†	-189.8	-13.7	-0.0023 mg/L	-0.0023 mg/L	-0.0023 mg/L	20:07:12
1	Cr 267.716†	710.2	6.4	0.0006 mg/L	0.0006 mg/L	0.0006 mg/L	20:07:02
1	Cu 324.752†	3939.0	21.2	0.0014 mg/L	0.0014 mg/L	0.0014 mg/L	20:07:02
1	Fe 234.349†	-7.9	-6.3	0.0074 mg/L	0.0074 mg/L	0.0074 mg/L	20:06:44
1	K 766.490†	653.8	-84.9	0.1072 mg/L	0.1072 mg/L	0.1072 mg/L	20:06:34
1	Li 670.784†	-353.7	-84.6	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	20:06:34
1	Mg 279.077†	279.9	-5.2	-0.0023 mg/L	-0.0023 mg/L	-0.0023 mg/L	20:07:02
1	Mn 257.610†	16046.7	150.7	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	20:07:02
1	Mn 294.920†	-801.9	-169.2	-0.0005 mg/L	-0.0005 mg/L	-0.0005 mg/L	20:07:02
1	Mo 202.031†	-29.0	-18.8	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	20:07:12
1	Na 589.592†	4405.8	222.7	0.1170 mg/L	0.1170 mg/L	0.1170 mg/L	20:06:34
1	Ni 231.604†	203.9	28.7	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	20:07:02
1	P 214.914†	-69.2	-23.8	0.0360 mg/L	0.0360 mg/L	0.0360 mg/L	20:07:12
1	Pb 220.353†	169.0	-12.5	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	20:07:12
1	Sb 206.836†	28.4	-16.2	-0.0023 mg/L	-0.0023 mg/L	-0.0023 mg/L	20:07:12
1	Se 196.026†	13.8	-3.0	0.0028 mg/L	0.0028 mg/L	0.0028 mg/L	20:07:12
1	Sn 189.927†	40.9	3.9	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	20:07:12
1	Sr 407.771†	243.1	-0.1	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:06:34
1	Ti 337.279†	-1577.1	-294.8	0.0025 mg/L	0.0025 mg/L	0.0025 mg/L	20:07:02
1	Tl 190.801†	-5.5	1.6	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	20:07:12
1	V 292.402†	-863.1	30.3	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	20:07:02
1	Zn 213.857†	958.3	98.4	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	20:07:12
2	Y 371.029	3362640.1	3362640.1	0.995 mg/L			20:07:14
2	Ag 328.068†	787.9	55.5	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	20:07:17
2	Al 237.313†	-491.7	-106.9	-0.0027 mg/L	-0.0027 mg/L	-0.0027 mg/L	20:07:17
2	As 188.979†	-0.2	-1.2	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	20:07:27
2	B 249.677†	-7.5	7.7	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	20:06:56
2	B 182.528†	-4.7	2.3	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	20:07:27
2	Ba 233.527†	-77.9	9.5	0.0007 mg/L	0.0007 mg/L	0.0007 mg/L	20:07:27
2	Be 313.107†	-1333.9	91.5	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:07:17
2	Ca 315.887†	-1522.5	-812.9	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	20:07:17
2	Cd 228.802†	152.3	5.7	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	20:07:27
2	Co 228.616†	-150.1	27.0	-0.0016 mg/L	-0.0016 mg/L	-0.0016 mg/L	20:07:27
2	Cr 267.716†	632.3	-75.0	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	20:07:17
2	Cu 324.752†	3963.6	28.8	0.0014 mg/L	0.0014 mg/L	0.0014 mg/L	20:07:17
2	Fe 234.349†	12.1	13.8	0.0174 mg/L	0.0174 mg/L	0.0174 mg/L	20:06:56
2	K 766.490†	634.7	-106.9	0.0978 mg/L	0.0978 mg/L	0.0978 mg/L	20:06:46
2	Li 670.784†	-198.5	73.0	0.0036 mg/L	0.0036 mg/L	0.0036 mg/L	20:06:46
2	Mg 279.077†	252.8	-33.6	-0.0042 mg/L	-0.0042 mg/L	-0.0042 mg/L	20:07:17
2	Mn 257.610†	16143.6	178.3	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	20:07:17
2	Mn 294.920†	-694.9	-58.2	-0.0003 mg/L	-0.0003 mg/L	-0.0003 mg/L	20:07:17
2	Mo 202.031†	-21.4	-11.1	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	20:07:27
2	Na 589.592†	4521.8	320.3	0.1301 mg/L	0.1301 mg/L	0.1301 mg/L	20:06:46
2	Ni 231.604†	205.8	29.8	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	20:07:17
2	P 214.914†	-53.1	-7.4	0.0446 mg/L	0.0446 mg/L	0.0446 mg/L	20:07:27
2	Pb 220.353†	151.1	-31.1	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	20:07:27
2	Sb 206.836†	29.6	-15.0	-0.0018 mg/L	-0.0018 mg/L	-0.0018 mg/L	20:07:27
2	Se 196.026†	8.2	-8.6	-0.0003 mg/L	-0.0003 mg/L	-0.0003 mg/L	20:07:27
2	Sn 189.927†	49.9	12.7	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	20:07:27
2	Sr 407.771†	278.8	34.7	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:06:46

2	Ti 337.279†	-1590.7	-301.5	0.0025 mg/L	0.0025 mg/L	20:07:17
2	Tl 190.801†	-4.6	2.5	0.0015 mg/L	0.0015 mg/L	20:07:27
2	V 292.402†	-972.8	-76.3	0.0020 mg/L	0.0020 mg/L	20:07:17
2	Zn 213.857†	876.0	11.4	0.0005 mg/L	0.0005 mg/L	20:07:27

Mean Data: CCBI

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3355402.5	0.992 mg/L		0.0030				0.31%
Ag 328.068†	44.0	0.0009 mg/L		0.00008	0.0009 mg/L		0.00008	9.09%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	-71.1	0.0006 mg/L		0.00464	0.0006 mg/L		0.00464	806.49%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	1.1	0.0033 mg/L		0.00207	0.0033 mg/L		0.00207	62.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	5.5	0.0048 mg/L		0.00128	0.0048 mg/L		0.00128	26.98%
QC value within limits for B 249.677 Recovery = Not calculated								
B 182.528†	2.6	0.0060 mg/L		0.00036	0.0060 mg/L		0.00036	5.94%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	3.6	0.0006 mg/L		0.00006	0.0006 mg/L		0.00006	10.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	118.3	0.0003 mg/L		0.00001	0.0003 mg/L		0.00001	5.26%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-796.5	0.0012 mg/L		0.00021	0.0012 mg/L		0.00021	18.20%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	6.6	0.0017 mg/L		0.00004	0.0017 mg/L		0.00004	2.12%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.6	-0.0020 mg/L		0.00046	-0.0020 mg/L		0.00046	23.28%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-34.3	0.0002 mg/L		0.00044	0.0002 mg/L		0.00044	177.83%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	25.0	0.0014 mg/L		0.00002	0.0014 mg/L		0.00002	1.61%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	3.7	0.0124 mg/L		0.00706	0.0124 mg/L		0.00706	56.74%
QC value within limits for Fe 234.349 Recovery = Not calculated								
K 766.490†	-95.9	0.1025 mg/L		0.00665	0.1025 mg/L		0.00665	6.49%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	-5.8	0.0018 mg/L		0.00262	0.0018 mg/L		0.00262	148.67%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-19.4	-0.0033 mg/L		0.00131	-0.0033 mg/L		0.00131	40.04%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	164.5	0.0001 mg/L		0.00002	0.0001 mg/L		0.00002	17.59%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 294.920†	-113.7	-0.0004 mg/L		0.00017	-0.0004 mg/L		0.00017	40.40%
QC value within limits for Mn 294.920 Recovery = Not calculated								
Mo 202.031†	-15.0	0.0022 mg/L		0.00021	0.0022 mg/L		0.00021	9.28%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated								
Na 589.592†	271.5	0.1235 mg/L		0.00924	0.1235 mg/L		0.00924	7.48%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	29.2	0.0000 mg/L		0.00001	0.0000 mg/L		0.00001	67.13%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-15.6	0.0403 mg/L		0.00610	0.0403 mg/L		0.00610	15.13%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated								
Pb 220.353†	-21.8	0.0007 mg/L		0.00077	0.0007 mg/L		0.00077	117.47%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-15.6	-0.0020 mg/L		0.00032	-0.0020 mg/L		0.00032	16.04%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.8	0.0012 mg/L		0.00221	0.0012 mg/L		0.00221	178.06%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	8.3	0.0026 mg/L		0.00076	0.0026 mg/L		0.00076	29.49%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	17.3	0.0003 mg/L		0.00002	0.0003 mg/L		0.00002	6.65%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	-298.2	0.0025 mg/L		0.00000	0.0025 mg/L		0.00000	0.20%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	2.0	0.0012 mg/L		0.00046	0.0012 mg/L		0.00046	38.82%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	-23.0	0.0022 mg/L		0.00029	0.0022 mg/L		0.00029	13.09%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated								
Zn 213.857†	54.9	0.0008 mg/L		0.00038	0.0008 mg/L		0.00038	46.40%
QC value within limits for Zn 213.857 Recovery = Not calculated								
QC Failed. Continue with analysis.								

Sequence No.: 75

Autosampler Location: 3

Sample ID: CCV1

Date Collected: 6/25/2013 8:09:41 PM

Analyst:

Data Type: Reprocessed on 6/26/2013 10:57:05 AM

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3296625.2	3296625.2	0.975 mg/L		20:11:35
1	Ag 328.068†	51821.6	52413.8	0.2524 mg/L	0.2524 mg/L	20:11:35
1	Al 237.313†	25856.1	26906.6	2.476 mg/L	2.476 mg/L	20:11:35
1	As 188.979†	792.1	811.4	0.4982 mg/L	0.4982 mg/L	20:11:45
1	B 249.677†	1156.1	1201.0	0.4934 mg/L	0.4934 mg/L	20:11:25
1	B 182.528†	592.8	615.0	0.5091 mg/L	0.5091 mg/L	20:11:45
1	Ba 233.527†	65413.0	67178.3	0.5099 mg/L	0.5099 mg/L	20:11:35
1	Be 313.107†	141215.3	146269.5	0.0517 mg/L	0.0517 mg/L	20:11:35
1	Ca 315.887†	527526.7	541773.0	4.859 mg/L	4.859 mg/L	20:11:35
1	Cd 228.802†	9742.7	9845.1	0.2648 mg/L	0.2648 mg/L	20:11:45
1	Co 228.616†	31695.1	32685.8	0.5181 mg/L	0.5181 mg/L	20:11:45
1	Cr 267.716†	63995.4	64925.7	0.4948 mg/L	0.4948 mg/L	20:11:35
1	Cu 324.752†	115683.0	114693.0	0.4915 mg/L	0.4915 mg/L	20:11:35
1	Fe 234.349†	4859.5	4985.8	2.464 mg/L	2.464 mg/L	20:11:25
1	K 766.490†	56648.4	57356.0	24.64 mg/L	24.64 mg/L	20:11:23
1	Li 670.784†	20257.4	21049.6	0.4962 mg/L	0.4962 mg/L	20:11:25
1	Mg 279.077†	74711.4	76339.5	4.956 mg/L	4.956 mg/L	20:11:35
1	Mn 257.610†	476694.4	472864.9	0.5081 mg/L	0.5081 mg/L	20:11:35
1	Mn 294.920†	229914.9	236451.6	0.5042 mg/L	0.5042 mg/L	20:11:35
1	Mo 202.031†	13035.1	13379.8	0.5023 mg/L	0.5023 mg/L	20:11:45
1	Na 589.592†	185476.2	186006.2	25.01 mg/L	25.01 mg/L	20:11:23
1	Ni 231.604†	26579.6	27084.1	0.5042 mg/L	0.5042 mg/L	20:11:35
1	P 214.914†	9233.5	9516.3	5.030 mg/L	5.030 mg/L	20:11:45
1	Pb 220.353†	8652.7	8691.5	0.5113 mg/L	0.5113 mg/L	20:11:45
1	Sb 206.836†	1238.8	1225.7	0.5056 mg/L	0.5056 mg/L	20:11:45
1	Se 196.026†	1767.7	1796.2	0.9989 mg/L	0.9989 mg/L	20:11:45
1	Sn 189.927†	4102.4	4170.1	0.5167 mg/L	0.5167 mg/L	20:11:45
1	Sr 407.771†	56126.5	57320.2	0.0488 mg/L	0.0488 mg/L	20:11:23
1	Ti 337.279†	471019.0	484396.1	0.4993 mg/L	0.4993 mg/L	20:11:35
1	Tl 190.801†	625.1	648.2	0.4845 mg/L	0.4845 mg/L	20:11:45
1	V 292.402†	124645.0	128743.4	0.5135 mg/L	0.5135 mg/L	20:11:35
1	Zn 213.857†	81484.0	82704.2	0.5043 mg/L	0.5043 mg/L	20:11:35
2	Y 371.029	3315574.0	3315574.0	0.981 mg/L		20:11:49
2	Ag 328.068†	52539.2	52841.8	0.2545 mg/L	0.2545 mg/L	20:11:49
2	Al 237.313†	26106.0	27009.9	2.485 mg/L	2.485 mg/L	20:11:49
2	As 188.979†	804.5	819.4	0.5031 mg/L	0.5031 mg/L	20:11:59
2	B 249.677†	1164.3	1202.6	0.4941 mg/L	0.4941 mg/L	20:11:30
2	B 182.528†	582.3	600.8	0.4975 mg/L	0.4975 mg/L	20:11:59
2	Ba 233.527†	66011.6	67405.3	0.5116 mg/L	0.5116 mg/L	20:11:49
2	Be 313.107†	143105.2	147369.1	0.0521 mg/L	0.0521 mg/L	20:11:49
2	Ca 315.887†	533485.5	544757.5	4.886 mg/L	4.886 mg/L	20:11:49
2	Cd 228.802†	9741.2	9786.4	0.2632 mg/L	0.2632 mg/L	20:11:59
2	Co 228.616†	31547.1	32349.1	0.5128 mg/L	0.5128 mg/L	20:11:59
2	Cr 267.716†	64664.0	65232.4	0.4971 mg/L	0.4971 mg/L	20:11:49
2	Cu 324.752†	116823.6	115178.0	0.4936 mg/L	0.4936 mg/L	20:11:49
2	Fe 234.349†	4832.4	4929.7	2.436 mg/L	2.436 mg/L	20:11:30
2	K 766.490†	57381.5	57771.6	24.81 mg/L	24.81 mg/L	20:11:28
2	Li 670.784†	20215.9	20888.4	0.4924 mg/L	0.4924 mg/L	20:11:30
2	Mg 279.077†	75475.6	76680.9	4.978 mg/L	4.978 mg/L	20:11:49
2	Mn 257.610†	482049.3	475531.6	0.5109 mg/L	0.5109 mg/L	20:11:49
2	Mn 294.920†	232925.7	238174.3	0.5079 mg/L	0.5079 mg/L	20:11:49
2	Mo 202.031†	13017.8	13285.8	0.4988 mg/L	0.4988 mg/L	20:11:59
2	Na 589.592†	187813.7	187302.8	25.18 mg/L	25.18 mg/L	20:11:28
2	Ni 231.604†	26956.4	27312.5	0.5085 mg/L	0.5085 mg/L	20:11:49
2	P 214.914†	9203.1	9431.2	4.985 mg/L	4.985 mg/L	20:11:59
2	Pb 220.353†	8657.2	8645.3	0.5086 mg/L	0.5086 mg/L	20:11:59
2	Sb 206.836†	1228.6	1208.1	0.4984 mg/L	0.4984 mg/L	20:11:59
2	Se 196.026†	1786.5	1805.0	1.004 mg/L	1.004 mg/L	20:11:59
2	Sn 189.927†	4061.8	4104.7	0.5087 mg/L	0.5087 mg/L	20:11:59
2	Sr 407.771†	56887.3	57767.1	0.0492 mg/L	0.0492 mg/L	20:11:28

2	Ti 337.279†	476129.9	486847.2	0.5018 mg/L	0.5018 mg/L	20:11:49
2	Tl 190.801†	623.7	643.1	0.4806 mg/L	0.4806 mg/L	20:11:59
2	V 292.402†	125959.3	129353.1	0.5158 mg/L	0.5158 mg/L	20:11:49
2	Zn 213.857†	82780.9	83549.1	0.5094 mg/L	0.5094 mg/L	20:11:49

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3306099.6	0.978 mg/L		0.0040			0.41%
Ag 328.068†	52627.8	0.2535 mg/L		0.00145	0.2535 mg/L	0.00145	0.57%
	QC value within limits for Ag 328.068	Recovery = 101.38%					
Al 237.313†	26958.3	2.480 mg/L		0.0067	2.480 mg/L	0.0067	0.27%
	QC value within limits for Al 237.313	Recovery = 99.22%					
As 188.979†	815.4	0.5006 mg/L		0.00345	0.5006 mg/L	0.00345	0.69%
	QC value within limits for As 188.979	Recovery = 100.12%					
B 249.677†	1201.8	0.4937 mg/L		0.00047	0.4937 mg/L	0.00047	0.09%
	QC value within limits for B 249.677	Recovery = 98.75%					
B 182.528†	607.9	0.5033 mg/L		0.00822	0.5033 mg/L	0.00822	1.63%
	QC value within limits for B 182.528	Recovery = 100.66%					
Ba 233.527†	67291.8	0.5107 mg/L		0.00122	0.5107 mg/L	0.00122	0.24%
	QC value within limits for Ba 233.527	Recovery = 102.15%					
Be 313.107†	146819.3	0.0519 mg/L		0.00027	0.0519 mg/L	0.00027	0.53%
	QC value within limits for Be 313.107	Recovery = 103.73%					
Ca 315.887†	543265.3	4.872 mg/L		0.0189	4.872 mg/L	0.0189	0.39%
	QC value within limits for Ca 315.887	Recovery = 97.45%					
Cd 228.802†	9815.7	0.2640 mg/L		0.00111	0.2640 mg/L	0.00111	0.42%
	QC value within limits for Cd 228.802	Recovery = 105.60%					
Co 228.616†	32517.5	0.5155 mg/L		0.00380	0.5155 mg/L	0.00380	0.74%
	QC value within limits for Co 228.616	Recovery = 103.09%					
Cr 267.716†	65079.1	0.4959 mg/L		0.00165	0.4959 mg/L	0.00165	0.33%
	QC value within limits for Cr 267.716	Recovery = 99.18%					
Cu 324.752†	114935.5	0.4926 mg/L		0.00147	0.4926 mg/L	0.00147	0.30%
	QC value within limits for Cu 324.752	Recovery = 98.52%					
Fe 234.349†	4957.8	2.450 mg/L		0.0197	2.450 mg/L	0.0197	0.80%
	QC value within limits for Fe 234.349	Recovery = 97.99%					
K 766.490†	57563.8	24.72 mg/L		0.125	24.72 mg/L	0.125	0.51%
	QC value within limits for K 766.490	Recovery = 98.90%					
Li 670.784†	20969.0	0.4943 mg/L		0.00268	0.4943 mg/L	0.00268	0.54%
	QC value within limits for Li 670.784	Recovery = 98.86%					
Mg 279.077†	76510.2	4.967 mg/L		0.0157	4.967 mg/L	0.0157	0.32%
	QC value within limits for Mg 279.077	Recovery = 99.34%					
Mn 257.610†	474198.3	0.5095 mg/L		0.00203	0.5095 mg/L	0.00203	0.40%
	QC value within limits for Mn 257.610	Recovery = 101.90%					
Mn 294.920†	237313.0	0.5060 mg/L		0.00260	0.5060 mg/L	0.00260	0.51%
	QC value within limits for Mn 294.920	Recovery = 101.20%					
Mo 202.031†	13332.8	0.5005 mg/L		0.00250	0.5005 mg/L	0.00250	0.50%
	QC value within limits for Mo 202.031	Recovery = 100.10%					
Na 589.592†	186654.5	25.10 mg/L		0.123	25.10 mg/L	0.123	0.49%
	QC value within limits for Na 589.592	Recovery = 100.39%					
Ni 231.604†	27198.3	0.5063 mg/L		0.00300	0.5063 mg/L	0.00300	0.59%
	QC value within limits for Ni 231.604	Recovery = 101.27%					
P 214.914†	9473.7	5.008 mg/L		0.0315	5.008 mg/L	0.0315	0.63%
	QC value within limits for P 214.914	Recovery = 100.16%					
Pb 220.353†	8668.4	0.5100 mg/L		0.00192	0.5100 mg/L	0.00192	0.38%
	QC value within limits for Pb 220.353	Recovery = 101.99%					
Sb 206.836†	1216.9	0.5020 mg/L		0.00513	0.5020 mg/L	0.00513	1.02%
	QC value within limits for Sb 206.836	Recovery = 100.40%					
Se 196.026†	1800.6	1.001 mg/L		0.0034	1.001 mg/L	0.0034	0.34%
	QC value within limits for Se 196.026	Recovery = 100.13%					
Sn 189.927†	4137.4	0.5127 mg/L		0.00567	0.5127 mg/L	0.00567	1.11%
	QC value within limits for Sn 189.927	Recovery = 102.54%					
Sr 407.771†	57543.7	0.0490 mg/L		0.00027	0.0490 mg/L	0.00027	0.55%
	QC value within limits for Sr 407.771	Recovery = 98.02%					
Ti 337.279†	485621.7	0.5006 mg/L		0.00178	0.5006 mg/L	0.00178	0.35%
	QC value within limits for Ti 337.279	Recovery = 100.11%					
Tl 190.801†	645.7	0.4825 mg/L		0.00274	0.4825 mg/L	0.00274	0.57%
	QC value within limits for Tl 190.801	Recovery = 96.51%					
V 292.402†	129048.2	0.5147 mg/L		0.00165	0.5147 mg/L	0.00165	0.32%
	QC value within limits for V 292.402	Recovery = 102.93%					
Zn 213.857†	83126.7	0.5069 mg/L		0.00365	0.5069 mg/L	0.00365	0.72%
	QC value within limits for Zn 213.857	Recovery = 101.37%					

All analyte(s) passed QC.

Sequence No.: 76

Sample ID: CCB1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/25/2013 8:13:38 PM

Data Type: Reprocessed on 6/26/2013 10:57:05 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3300874.2	3300874.2	0.976 mg/L			20:15:45
1	Ag 328.068†	696.2	-23.7	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	20:15:48
1	Al 237.313†	-424.8	-47.7	0.0027 mg/L	0.0027 mg/L	0.0027 mg/L	20:15:48
1	As 188.979†	1.7	0.8	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	20:15:58
1	B 249.677†	-16.1	-1.3	0.0020 mg/L	0.0020 mg/L	0.0020 mg/L	20:15:29
1	B 182.528†	-6.3	0.6	0.0043 mg/L	0.0043 mg/L	0.0043 mg/L	20:15:58
1	Ba 233.527†	-40.0	46.8	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	20:15:58
1	Be 313.107†	-1411.1	-12.6	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:15:48
1	Ca 315.887†	-1434.3	-751.3	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	20:15:48
1	Cd 228.802†	147.1	3.3	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	20:15:58
1	Co 228.616†	-174.0	-0.3	-0.0021 mg/L	-0.0021 mg/L	-0.0021 mg/L	20:15:58
1	Cr 267.716†	593.6	-102.8	-0.0003 mg/L	-0.0003 mg/L	-0.0003 mg/L	20:15:48
1	Cu 324.752†	3907.9	46.3	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:15:48
1	Fe 234.349†	-4.4	-2.8	0.0092 mg/L	0.0092 mg/L	0.0092 mg/L	20:15:29
1	K 766.490†	684.8	-43.6	0.1248 mg/L	0.1248 mg/L	0.1248 mg/L	20:15:19
1	Li 670.784†	-327.6	-62.9	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	20:15:19
1	Mg 279.077†	287.8	6.9	-0.0016 mg/L	-0.0016 mg/L	-0.0016 mg/L	20:15:48
1	Mn 257.610†	16186.3	525.8	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	20:15:48
1	Mn 294.920†	-802.3	-181.3	-0.0006 mg/L	-0.0006 mg/L	-0.0006 mg/L	20:15:48
1	Mo 202.031†	5.2	15.8	0.0034 mg/L	0.0034 mg/L	0.0034 mg/L	20:15:58
1	Na 589.592†	4409.5	290.3	0.1260 mg/L	0.1260 mg/L	0.1260 mg/L	20:15:19
1	Ni 231.604†	170.1	-2.9	-0.0006 mg/L	-0.0006 mg/L	-0.0006 mg/L	20:15:48
1	P 214.914†	-51.0	-6.2	0.0452 mg/L	0.0452 mg/L	0.0452 mg/L	20:15:58
1	Pb 220.353†	178.1	-0.7	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	20:15:58
1	Sb 206.836†	35.6	-8.4	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	20:15:58
1	Se 196.026†	18.3	1.9	0.0055 mg/L	0.0055 mg/L	0.0055 mg/L	20:15:58
1	Sn 189.927†	41.6	5.1	0.0022 mg/L	0.0022 mg/L	0.0022 mg/L	20:15:58
1	Sr 407.771†	296.6	58.2	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:15:19
1	Ti 337.279†	-1706.3	-449.9	0.0023 mg/L	0.0023 mg/L	0.0023 mg/L	20:15:48
1	Tl 190.801†	-3.7	3.3	0.0022 mg/L	0.0022 mg/L	0.0022 mg/L	20:15:58
1	V 292.402†	-917.7	-38.1	0.0022 mg/L	0.0022 mg/L	0.0022 mg/L	20:15:48
1	Zn 213.857†	890.4	42.6	0.0007 mg/L	0.0007 mg/L	0.0007 mg/L	20:15:58
2	Y 371.029	3322845.2	3322845.2	0.983 mg/L			20:16:00
2	Ag 328.068†	694.0	-30.6	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	20:16:02
2	Al 237.313†	-484.8	-105.9	-0.0026 mg/L	-0.0026 mg/L	-0.0026 mg/L	20:16:02
2	As 188.979†	-0.8	-1.9	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:16:13
2	B 249.677†	-10.8	4.2	0.0042 mg/L	0.0042 mg/L	0.0042 mg/L	20:15:42
2	B 182.528†	-2.6	4.3	0.0074 mg/L	0.0074 mg/L	0.0074 mg/L	20:16:13
2	Ba 233.527†	-50.8	36.1	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	20:16:13
2	Be 313.107†	-1338.9	70.4	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:16:02
2	Ca 315.887†	-1583.2	-893.1	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:16:02
2	Cd 228.802†	160.6	16.0	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	20:16:13
2	Co 228.616†	-175.7	-0.9	-0.0021 mg/L	-0.0021 mg/L	-0.0021 mg/L	20:16:13
2	Cr 267.716†	549.9	-151.2	-0.0006 mg/L	-0.0006 mg/L	-0.0006 mg/L	20:16:02
2	Cu 324.752†	3961.0	73.8	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	20:16:02
2	Fe 234.349†	-3.5	-1.9	0.0097 mg/L	0.0097 mg/L	0.0097 mg/L	20:15:42
2	K 766.490†	590.0	-144.7	0.0816 mg/L	0.0816 mg/L	0.0816 mg/L	20:15:32
2	Li 670.784†	-351.9	-85.5	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	20:15:32
2	Mg 279.077†	306.0	23.5	-0.0005 mg/L	-0.0005 mg/L	-0.0005 mg/L	20:16:02
2	Mn 257.610†	16116.5	345.2	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:16:02
2	Mn 294.920†	-905.0	-280.3	-0.0008 mg/L	-0.0008 mg/L	-0.0008 mg/L	20:16:02
2	Mo 202.031†	-12.7	-2.5	0.0027 mg/L	0.0027 mg/L	0.0027 mg/L	20:16:13
2	Na 589.592†	4451.2	302.9	0.1277 mg/L	0.1277 mg/L	0.1277 mg/L	20:15:32
2	Ni 231.604†	148.5	-26.1	-0.0010 mg/L	-0.0010 mg/L	-0.0010 mg/L	20:16:02
2	P 214.914†	-59.2	-14.2	0.0411 mg/L	0.0411 mg/L	0.0411 mg/L	20:16:13
2	Pb 220.353†	118.1	-63.0	-0.0017 mg/L	-0.0017 mg/L	-0.0017 mg/L	20:16:13
2	Sb 206.836†	37.1	-7.0	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:16:13
2	Se 196.026†	16.7	0.2	0.0045 mg/L	0.0045 mg/L	0.0045 mg/L	20:16:13
2	Sn 189.927†	41.2	4.4	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	20:16:13
2	Sr 407.771†	150.5	-92.5	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:15:32

2	Ti 337.279†	-1494.8	-223.1	0.0026 mg/L	0.0026 mg/L	20:16:02
2	Tl 190.801†	-5.7	1.4	0.0007 mg/L	0.0007 mg/L	20:16:13
2	V 292.402†	-1016.9	-132.9	0.0018 mg/L	0.0018 mg/L	20:16:02
2	Zn 213.857†	891.6	37.9	0.0007 mg/L	0.0007 mg/L	20:16:13

Mean Data: CCBl

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3311859.7	0.980 mg/L	0.0046			0.47%
Ag 328.068†	-27.1	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.53%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	-76.8	0.0001 mg/L	0.00377	0.0001 mg/L	0.00377	>999.9%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	-0.6	0.0023 mg/L	0.00113	0.0023 mg/L	0.00113	48.96%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 249.677†	1.5	0.0031 mg/L	0.00157	0.0031 mg/L	0.00157	50.33%
QC value within limits for B 249.677		Recovery =	Not calculated			
B 182.528†	2.4	0.0059 mg/L	0.00217	0.0059 mg/L	0.00217	36.94%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	41.4	0.0009 mg/L	0.00006	0.0009 mg/L	0.00006	6.31%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	28.9	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	9.23%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.887†	-822.2	0.0009 mg/L	0.00090	0.0009 mg/L	0.00090	97.35%
QC value within limits for Ca 315.887		Recovery =	Not calculated			
Cd 228.802†	9.6	0.0018 mg/L	0.00024	0.0018 mg/L	0.00024	13.67%
QC value greater than the upper limit for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	-0.6	-0.0021 mg/L	0.00001	-0.0021 mg/L	0.00001	0.35%
QC value less than the lower limit for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-127.0	-0.0005 mg/L	0.00026	-0.0005 mg/L	0.00026	56.98%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	60.0	0.0016 mg/L	0.00008	0.0016 mg/L	0.00008	5.31%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	-2.4	0.0094 mg/L	0.00033	0.0094 mg/L	0.00033	3.51%
QC value within limits for Fe 234.349		Recovery =	Not calculated			
K 766.490†	-94.1	0.1032 mg/L	0.03053	0.1032 mg/L	0.03053	29.57%
QC value within limits for K 766.490		Recovery =	Not calculated			
Li 670.784†	-74.2	0.0002 mg/L	0.00037	0.0002 mg/L	0.00037	244.27%
QC value within limits for Li 670.784		Recovery =	Not calculated			
Mg 279.077†	15.2	-0.0010 mg/L	0.00076	-0.0010 mg/L	0.00076	75.24%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	435.5	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	34.14%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mn 294.920†	-230.8	-0.0007 mg/L	0.00015	-0.0007 mg/L	0.00015	22.48%
QC value within limits for Mn 294.920		Recovery =	Not calculated			
Mo 202.031†	6.7	0.0030 mg/L	0.00048	0.0030 mg/L	0.00048	16.02%
QC value greater than the upper limit for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	296.6	0.1269 mg/L	0.00120	0.1269 mg/L	0.00120	0.94%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	-14.5	-0.0008 mg/L	0.00031	-0.0008 mg/L	0.00031	38.52%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
P 214.914†	-10.2	0.0431 mg/L	0.00296	0.0431 mg/L	0.00296	6.86%
QC value greater than the upper limit for P 214.914		Recovery =	Not calculated			
Pb 220.353†	-31.8	0.0001 mg/L	0.00258	0.0001 mg/L	0.00258	>999.9%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-7.7	0.0012 mg/L	0.00039	0.0012 mg/L	0.00039	31.72%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	1.0	0.0050 mg/L	0.00068	0.0050 mg/L	0.00068	13.60%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	4.8	0.0022 mg/L	0.00006	0.0022 mg/L	0.00006	2.88%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Sr 407.771†	-17.1	0.0003 mg/L	0.00009	0.0003 mg/L	0.00009	31.75%
QC value within limits for Sr 407.771		Recovery =	Not calculated			
Ti 337.279†	-336.5	0.0024 mg/L	0.00016	0.0024 mg/L	0.00016	6.74%
QC value greater than the upper limit for Ti 337.279		Recovery =	Not calculated			
Tl 190.801†	2.3	0.0014 mg/L	0.00106	0.0014 mg/L	0.00106	74.79%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	-85.5	0.0020 mg/L	0.00027	0.0020 mg/L	0.00027	13.46%
QC value greater than the upper limit for V 292.402		Recovery =	Not calculated			
Zn 213.857†	40.2	0.0007 mg/L	0.00002	0.0007 mg/L	0.00002	2.55%
QC value within limits for Zn 213.857		Recovery =	Not calculated			
QC Failed. Continue with analysis.						

Sequence No.: 77

Sample ID: CF31807-PDS1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 6/25/2013 8:17:50 PM

Data Type: Reprocessed on 6/26/2013 10:57:06 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF31807-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3287331.0	3287331.0	0.972 mg/L		20:19:43
1	Ag 328.068†	53146.9	53927.1	0.2597 mg/L	0.2597 mg/L	20:19:43
1	Al 237.313†	27624.4	28800.3	2.649 mg/L	2.649 mg/L	20:19:43
1	As 188.979†	812.6	834.8	0.5124 mg/L	0.5124 mg/L	20:19:53
1	B 249.677†	1270.9	1322.4	0.5430 mg/L	0.5430 mg/L	20:19:33
1	B 182.528†	652.0	677.5	0.5606 mg/L	0.5606 mg/L	20:19:53
1	Ba 233.527†	74503.3	76717.7	0.5822 mg/L	0.5822 mg/L	20:19:43
1	Be 313.107†	151551.6	157310.4	0.0556 mg/L	0.0556 mg/L	20:19:43
1	Ca 315.887†	1077523.2	1108998.7	9.936 mg/L	9.936 mg/L	20:19:43
1	Cd 228.802†	9968.3	10105.4	0.2717 mg/L	0.2717 mg/L	20:19:53
1	Co 228.616†	32404.2	33507.0	0.5312 mg/L	0.5312 mg/L	20:19:53
1	Cr 267.716†	68408.2	69650.1	0.5307 mg/L	0.5307 mg/L	20:19:43
1	Cu 324.752†	164504.4	165243.4	0.7075 mg/L	0.7075 mg/L	20:19:43
1	Fe 234.349†	5237.8	5389.0	2.655 mg/L	2.655 mg/L	20:19:33
1	K 766.490†	62255.2	63287.1	27.17 mg/L	27.17 mg/L	20:19:31
1	Li 670.784†	21385.4	22268.5	0.5248 mg/L	0.5248 mg/L	20:19:33
1	Mg 279.077†	149403.9	153380.8	9.959 mg/L	9.959 mg/L	20:19:43
1	Mn 257.610†	506017.1	504407.0	0.5419 mg/L	0.5419 mg/L	20:19:43
1	Mn 294.920†	244053.7	251660.7	0.5366 mg/L	0.5366 mg/L	20:19:43
1	Mo 202.031†	13499.4	13895.1	0.5204 mg/L	0.5204 mg/L	20:19:53
1	Na 589.592†	334288.1	339603.7	45.59 mg/L	45.59 mg/L	20:19:31
1	Ni 231.604†	28258.7	28888.2	0.5378 mg/L	0.5378 mg/L	20:19:43
1	P 214.914†	10239.5	10577.8	5.584 mg/L	5.584 mg/L	20:19:53
1	Pb 220.353†	8998.9	9072.7	0.5335 mg/L	0.5335 mg/L	20:19:53
1	Sb 206.836†	1303.4	1295.8	0.5341 mg/L	0.5341 mg/L	20:19:53
1	Se 196.026†	1833.6	1869.1	1.039 mg/L	1.039 mg/L	20:19:53
1	Sn 189.927†	4167.0	4248.5	0.5295 mg/L	0.5295 mg/L	20:19:53
1	Sr 407.771†	106426.5	109218.8	0.0927 mg/L	0.0927 mg/L	20:19:31
1	Ti 337.279†	506242.8	521991.2	0.5378 mg/L	0.5378 mg/L	20:19:43
1	Tl 190.801†	656.5	682.3	0.5092 mg/L	0.5092 mg/L	20:19:53
1	V 292.402†	132707.2	137397.1	0.5475 mg/L	0.5475 mg/L	20:19:43
1	Zn 213.857†	118069.2	120570.0	0.7364 mg/L	0.7364 mg/L	20:19:43
2	Y 371.029	3279722.4	3279722.4	0.970 mg/L		20:19:57
2	Ag 328.068†	53045.2	53949.1	0.2598 mg/L	0.2598 mg/L	20:19:57
2	Al 237.313†	27451.4	28687.9	2.639 mg/L	2.639 mg/L	20:19:57
2	As 188.979†	819.2	843.5	0.5178 mg/L	0.5178 mg/L	20:20:07
2	B 249.677†	1228.4	1281.6	0.5264 mg/L	0.5264 mg/L	20:19:37
2	B 182.528†	657.7	685.0	0.5667 mg/L	0.5667 mg/L	20:20:07
2	Ba 233.527†	74229.7	76613.5	0.5814 mg/L	0.5814 mg/L	20:19:57
2	Be 313.107†	151637.6	157760.7	0.0557 mg/L	0.0557 mg/L	20:19:57
2	Ca 315.887†	1073698.8	1107627.1	9.924 mg/L	9.924 mg/L	20:19:57
2	Cd 228.802†	10017.2	10179.6	0.2737 mg/L	0.2737 mg/L	20:20:07
2	Co 228.616†	32614.3	33801.0	0.5358 mg/L	0.5358 mg/L	20:20:07
2	Cr 267.716†	68146.1	69543.0	0.5299 mg/L	0.5299 mg/L	20:19:57
2	Cu 324.752†	164244.9	165368.4	0.7080 mg/L	0.7080 mg/L	20:19:57
2	Fe 234.349†	5117.0	5277.0	2.599 mg/L	2.599 mg/L	20:19:37
2	K 766.490†	61967.9	63139.5	27.11 mg/L	27.11 mg/L	20:19:35
2	Li 670.784†	21169.9	22097.3	0.5208 mg/L	0.5208 mg/L	20:19:37
2	Mg 279.077†	148764.2	153077.7	9.939 mg/L	9.939 mg/L	20:19:57
2	Mn 257.610†	504966.2	504530.9	0.5421 mg/L	0.5421 mg/L	20:19:57
2	Mn 294.920†	243903.8	252088.6	0.5375 mg/L	0.5375 mg/L	20:19:57
2	Mo 202.031†	13599.4	14030.5	0.5255 mg/L	0.5255 mg/L	20:20:07
2	Na 589.592†	333019.6	339093.7	45.52 mg/L	45.52 mg/L	20:19:35
2	Ni 231.604†	28134.0	28827.1	0.5367 mg/L	0.5367 mg/L	20:19:57
2	P 214.914†	10300.7	10665.3	5.630 mg/L	5.630 mg/L	20:20:07
2	Pb 220.353†	9077.9	9175.5	0.5396 mg/L	0.5396 mg/L	20:20:07
2	Sb 206.836†	1314.9	1310.8	0.5403 mg/L	0.5403 mg/L	20:20:07
2	Se 196.026†	1853.8	1894.3	1.053 mg/L	1.053 mg/L	20:20:07
2	Sn 189.927†	4208.4	4301.1	0.5359 mg/L	0.5359 mg/L	20:20:07
2	Sr 407.771†	105970.6	109002.7	0.0926 mg/L	0.0926 mg/L	20:19:35

2	Ti 337.279†	505282.5	522209.2	0.5381 mg/L	0.5381 mg/L	20:19:57
2	Tl 190.801†	648.4	675.6	0.5041 mg/L	0.5041 mg/L	20:20:07
2	V 292.402†	132468.2	137467.4	0.5479 mg/L	0.5479 mg/L	20:19:57
2	Zn 213.857†	117807.5	120582.0	0.7365 mg/L	0.7365 mg/L	20:19:57

Mean Data: CF31807-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3283526.7	0.971	mg/L	0.0016			0.16%
Ag 328.068†	53938.1	0.2598	mg/L	0.00007	0.2598	0.00007	0.03%
Al 237.313†	28744.1	2.644	mg/L	0.0073	2.644	0.0073	0.28%
As 188.979†	839.2	0.5151	mg/L	0.00379	0.5151	0.00379	0.74%
B 249.677†	1302.0	0.5347	mg/L	0.01176	0.5347	0.01176	2.20%
B 182.528†	681.3	0.5636	mg/L	0.00436	0.5636	0.00436	0.77%
Ba 233.527†	76665.6	0.5818	mg/L	0.00056	0.5818	0.00056	0.10%
Be 313.107†	157535.5	0.0556	mg/L	0.00011	0.0556	0.00011	0.20%
Ca 315.887†	1108312.9	9.930	mg/L	0.0087	9.930	0.0087	0.09%
Cd 228.802†	10142.5	0.2727	mg/L	0.00141	0.2727	0.00141	0.52%
Co 228.616†	33654.0	0.5335	mg/L	0.00331	0.5335	0.00331	0.62%
Cr 267.716†	69596.6	0.5303	mg/L	0.00057	0.5303	0.00057	0.11%
Cu 324.752†	165305.9	0.7078	mg/L	0.00038	0.7078	0.00038	0.05%
Fe 234.349†	5333.0	2.627	mg/L	0.0392	2.627	0.0392	1.49%
K 766.490†	63213.3	27.14	mg/L	0.045	27.14	0.045	0.16%
Li 670.784†	22182.9	0.5228	mg/L	0.00284	0.5228	0.00284	0.54%
Mg 279.077†	153229.2	9.949	mg/L	0.0139	9.949	0.0139	0.14%
Mn 257.610†	504469.0	0.5420	mg/L	0.00010	0.5420	0.00010	0.02%
Mn 294.920†	251874.7	0.5371	mg/L	0.00065	0.5371	0.00065	0.12%
Mo 202.031†	13962.8	0.5230	mg/L	0.00360	0.5230	0.00360	0.69%
Na 589.592†	339348.7	45.56	mg/L	0.048	45.56	0.048	0.11%
Ni 231.604†	28857.6	0.5372	mg/L	0.00080	0.5372	0.00080	0.15%
P 214.914†	10621.6	5.607	mg/L	0.0324	5.607	0.0324	0.58%
Pb 220.353†	9124.1	0.5365	mg/L	0.00427	0.5365	0.00427	0.80%
Sb 206.836†	1303.3	0.5372	mg/L	0.00439	0.5372	0.00439	0.82%
Se 196.026†	1881.7	1.046	mg/L	0.0098	1.046	0.0098	0.94%
Sn 189.927†	4274.8	0.5327	mg/L	0.00456	0.5327	0.00456	0.86%
Sr 407.771†	109110.7	0.0927	mg/L	0.00013	0.0927	0.00013	0.14%
Ti 337.279†	522100.2	0.5380	mg/L	0.00016	0.5380	0.00016	0.03%
Tl 190.801†	679.0	0.5066	mg/L	0.00358	0.5066	0.00358	0.71%
V 292.402†	137432.3	0.5477	mg/L	0.00024	0.5477	0.00024	0.04%
Zn 213.857†	120576.0	0.7364	mg/L	0.00006	0.7364	0.00006	0.01%

Sequence No.: 78
Sample ID: 1306285-07
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 6/25/2013 8:21:46 PM
Data Type: Reprocessed on 6/26/2013 10:57:06 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306285-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3194263.8	3194263.8	0.945	mg/L		20:23:53
1	Ag 328.068†	744.6	51.4	0.0009	mg/L	0.0009 mg/L	20:23:55
1	Al 237.313†	874.7	1313.3	0.1275	mg/L	0.1275 mg/L	20:24:05
1	As 188.979†	0.3	-0.7	0.0022	mg/L	0.0022 mg/L	20:24:05
1	B 249.677†	23.6	40.2	0.0189	mg/L	0.0189 mg/L	20:23:37
1	B 182.528†	20.7	28.8	0.0276	mg/L	0.0276 mg/L	20:24:05
1	Ba 233.527†	858.4	996.3	0.0081	mg/L	0.0081 mg/L	20:24:05
1	Be 313.107†	-1316.4	39.3	0.0002	mg/L	0.0002 mg/L	20:23:55
1	Ca 315.887†	865711.0	917083.4	8.216	mg/L	8.216 mg/L	20:23:53
1	Cd 228.802†	143.3	4.3	0.0016	mg/L	0.0016 mg/L	20:24:05
1	Co 228.616†	-151.3	17.8	-0.0018	mg/L	-0.0018 mg/L	20:24:05
1	Cr 267.716†	555.9	-122.4	-0.0004	mg/L	-0.0004 mg/L	20:23:55
1	Cu 324.752†	7455.6	3935.1	0.0181	mg/L	0.0181 mg/L	20:23:55
1	Fe 234.349†	355.8	378.3	0.1844	mg/L	0.1844 mg/L	20:23:37
1	K 766.490†	4791.8	4327.1	1.991	mg/L	1.991 mg/L	20:23:27
1	Li 670.784†	-159.2	104.1	0.0043	mg/L	0.0043 mg/L	20:23:27
1	Mg 279.077†	44286.5	46589.9	3.023	mg/L	3.023 mg/L	20:23:55
1	Mn 257.610†	36899.5	23004.3	0.0246	mg/L	0.0246 mg/L	20:23:55
1	Mn 294.920†	9612.9	10816.0	0.0229	mg/L	0.0229 mg/L	20:23:55

1	Mo 202.031†	66.8	81.2	0.0057 mg/L	0.0057 mg/L	20:24:05
1	Na 589.592†	325656.5	340484.9	45.71 mg/L	45.71 mg/L	20:23:27
1	Ni 231.604†	189.3	23.2	-0.0001 mg/L	-0.0001 mg/L	20:24:05
1	P 214.914†	2246.5	2424.0	1.319 mg/L	1.319 mg/L	20:24:05
1	Pb 220.353†	134.3	-40.9	-0.0005 mg/L	-0.0005 mg/L	20:24:05
1	Sb 206.836†	46.3	4.2	0.0061 mg/L	0.0061 mg/L	20:24:05
1	Se 196.026†	14.7	-1.3	0.0038 mg/L	0.0038 mg/L	20:24:05
1	Sn 189.927†	-114.6	-158.7	-0.0128 mg/L	-0.0128 mg/L	20:24:05
1	Sr 407.771†	36274.1	38151.0	0.0326 mg/L	0.0326 mg/L	20:23:27
1	Ti 337.279†	2958.8	4429.8	0.0073 mg/L	0.0073 mg/L	20:23:55
1	Tl 190.801†	-7.2	-0.5	-0.0020 mg/L	-0.0020 mg/L	20:24:05
1	V 292.402†	-948.9	-102.5	0.0020 mg/L	0.0020 mg/L	20:23:55
1	Zn 213.857†	2783.3	2076.8	0.0132 mg/L	0.0132 mg/L	20:24:05
2	Y 371.029	3225212.1	3225212.1	0.954 mg/L		20:24:08
2	Ag 328.068†	762.4	62.5	0.0010 mg/L	0.0010 mg/L	20:24:10
2	Al 237.313†	841.6	1269.7	0.1235 mg/L	0.1235 mg/L	20:24:20
2	As 188.979†	2.0	1.1	0.0033 mg/L	0.0033 mg/L	20:24:20
2	B 249.677†	30.4	47.0	0.0217 mg/L	0.0217 mg/L	20:23:49
2	B 182.528†	17.4	25.2	0.0246 mg/L	0.0246 mg/L	20:24:20
2	Ba 233.527†	873.1	1003.1	0.0082 mg/L	0.0082 mg/L	20:24:20
2	Be 313.107†	-1416.7	-52.5	0.0002 mg/L	0.0002 mg/L	20:24:10
2	Ca 315.887†	875915.1	918987.7	8.233 mg/L	8.233 mg/L	20:24:08
2	Cd 228.802†	154.4	14.5	0.0019 mg/L	0.0019 mg/L	20:24:20
2	Co 228.616†	-174.8	-5.3	-0.0022 mg/L	-0.0022 mg/L	20:24:20
2	Cr 267.716†	485.7	-201.6	-0.0010 mg/L	-0.0010 mg/L	20:24:10
2	Cu 324.752†	7409.1	3810.7	0.0176 mg/L	0.0176 mg/L	20:24:10
2	Fe 234.349†	356.5	375.4	0.1829 mg/L	0.1829 mg/L	20:23:49
2	K 766.490†	4671.7	4152.5	1.917 mg/L	1.917 mg/L	20:23:39
2	Li 670.784†	-107.4	160.0	0.0057 mg/L	0.0057 mg/L	20:23:39
2	Mg 279.077†	44450.1	46311.6	3.005 mg/L	3.005 mg/L	20:24:10
2	Mn 257.610†	37038.5	22775.2	0.0244 mg/L	0.0244 mg/L	20:24:10
2	Mn 294.920†	9586.1	10690.3	0.0226 mg/L	0.0226 mg/L	20:24:10
2	Mo 202.031†	78.4	92.6	0.0061 mg/L	0.0061 mg/L	20:24:20
2	Na 589.592†	326514.2	338076.3	45.39 mg/L	45.39 mg/L	20:23:39
2	Ni 231.604†	185.8	17.6	-0.0002 mg/L	-0.0002 mg/L	20:24:20
2	P 214.914†	2240.2	2394.5	1.304 mg/L	1.304 mg/L	20:24:20
2	Pb 220.353†	195.0	21.3	0.0031 mg/L	0.0031 mg/L	20:24:20
2	Sb 206.836†	47.1	4.5	0.0062 mg/L	0.0062 mg/L	20:24:20
2	Se 196.026†	10.4	-5.9	0.0012 mg/L	0.0012 mg/L	20:24:20
2	Sn 189.927†	-99.1	-141.3	-0.0107 mg/L	-0.0107 mg/L	20:24:20
2	Sr 407.771†	36388.0	37901.9	0.0324 mg/L	0.0324 mg/L	20:23:39
2	Ti 337.279†	2633.5	4058.8	0.0069 mg/L	0.0069 mg/L	20:24:10
2	Tl 190.801†	-0.3	6.8	0.0035 mg/L	0.0035 mg/L	20:24:20
2	V 292.402†	-727.3	139.4	0.0029 mg/L	0.0029 mg/L	20:24:10
2	Zn 213.857†	2787.2	2052.6	0.0131 mg/L	0.0131 mg/L	20:24:20

Mean Data: 1306285-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3209738.0	0.949 mg/L		0.0065			0.68%
Ag 328.068†	57.0	0.0009 mg/L		0.00004	0.0009 mg/L	0.00004	4.07%
Al 237.313†	1291.5	0.1255 mg/L		0.00283	0.1255 mg/L	0.00283	2.25%
As 188.979†	0.2	0.0027 mg/L		0.00076	0.0027 mg/L	0.00076	27.64%
B 249.677†	43.6	0.0203 mg/L		0.00196	0.0203 mg/L	0.00196	9.65%
B 182.528†	27.0	0.0261 mg/L		0.00208	0.0261 mg/L	0.00208	7.99%
Ba 233.527†	999.7	0.0082 mg/L		0.00004	0.0082 mg/L	0.00004	0.44%
Be 313.107†	-6.6	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	10.90%
Ca 315.887†	918035.6	8.225 mg/L		0.0121	8.225 mg/L	0.0121	0.15%
Cd 228.802†	9.4	0.0017 mg/L		0.00019	0.0017 mg/L	0.00019	11.02%
Co 228.616†	6.2	-0.0020 mg/L		0.00026	-0.0020 mg/L	0.00026	13.08%
Cr 267.716†	-162.0	-0.0007 mg/L		0.00043	-0.0007 mg/L	0.00043	59.00%
Cu 324.752†	3872.9	0.0179 mg/L		0.00038	0.0179 mg/L	0.00038	2.11%
Fe 234.349†	376.8	0.1836 mg/L		0.00104	0.1836 mg/L	0.00104	0.56%
K 766.490†	4239.8	1.954 mg/L		0.0527	1.954 mg/L	0.0527	2.70%
Li 670.784†	132.0	0.0050 mg/L		0.00093	0.0050 mg/L	0.00093	18.58%
Mg 279.077†	46450.8	3.014 mg/L		0.0128	3.014 mg/L	0.0128	0.42%
Mn 257.610†	22889.8	0.0245 mg/L		0.00017	0.0245 mg/L	0.00017	0.71%
Mn 294.920†	10753.1	0.0228 mg/L		0.00019	0.0228 mg/L	0.00019	0.83%
Mo 202.031†	86.9	0.0059 mg/L		0.00031	0.0059 mg/L	0.00031	5.16%
Na 589.592†	339280.6	45.55 mg/L		0.228	45.55 mg/L	0.228	0.50%
Ni 231.604†	20.4	-0.0001 mg/L		0.00007	-0.0001 mg/L	0.00007	53.33%
P 214.914†	2409.3	1.311 mg/L		0.0109	1.311 mg/L	0.0109	0.83%

2	Mo 202.031†	8669.8	10006.9	0.3785 mg/L	0.3785 mg/L	20:28:40
2	Na 589.592†	2128611.8	2450110.6	328.4 mg/L	328.4 mg/L	20:27:57
2	Ni 231.604†	259.4	122.0	0.0023 mg/L	0.0023 mg/L	20:28:40
2	P 214.914†	2350.7	2756.5	1.490 mg/L	1.490 mg/L	20:28:40
2	Pb 220.353†	196.4	43.3	0.0055 mg/L	0.0055 mg/L	20:28:40
2	Sb 206.836†	22.9	-18.4	0.0004 mg/L	0.0004 mg/L	20:28:40
2	Se 196.026†	2.5	-13.9	-0.0033 mg/L	-0.0033 mg/L	20:28:40
2	Sn 189.927†	-0.2	-37.7	-0.0015 mg/L	-0.0015 mg/L	20:28:40
2	Sr 407.771†	8313.6	9340.1	0.0082 mg/L	0.0082 mg/L	20:27:59
2	Ti 337.279†	3518.1	5354.3	0.0083 mg/L	0.0083 mg/L	20:28:30
2	Tl 190.801†	-2.3	4.4	0.0027 mg/L	0.0027 mg/L	20:28:40
2	V 292.402†	-2098.8	-1518.1	0.0016 mg/L	0.0016 mg/L	20:28:30
2	Zn 213.857†	8854.7	9340.2	0.0578 mg/L	0.0578 mg/L	20:28:40

Mean Data: 1306333-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2940795.8	0.870 mg/L	0.0035			0.40%
Ag 328.068†	12224.6	0.0593 mg/L	0.00031	0.0593 mg/L	0.00031	0.53%
Al 237.313†	687.8	0.0702 mg/L	0.00166	0.0702 mg/L	0.00166	2.37%
As 188.979†	3.3	0.0046 mg/L	0.00381	0.0046 mg/L	0.00381	82.06%
B 249.677†	7.1	0.0060 mg/L	0.00363	0.0060 mg/L	0.00363	60.44%
B 182.528†	-77.3	-0.0597 mg/L	0.00155	-0.0597 mg/L	0.00155	2.60%
Ba 233.527†	842.3	0.0070 mg/L	0.00016	0.0070 mg/L	0.00016	2.29%
Be 313.107†	-220.1	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	8.45%
Ca 315.887†	283828.1	2.547 mg/L	0.0181	2.547 mg/L	0.0181	0.71%
Cd 228.802†	28.4	0.0023 mg/L	0.00003	0.0023 mg/L	0.00003	1.15%
Co 228.616†	-26.6	-0.0023 mg/L	0.00026	-0.0023 mg/L	0.00026	11.21%
Cr 267.716†	317.7	0.0032 mg/L	0.00004	0.0032 mg/L	0.00004	1.31%
Cu 324.752†	7779.5	0.0343 mg/L	0.00058	0.0343 mg/L	0.00058	1.68%
Fe 234.349†	634.0	0.3203 mg/L	0.00004	0.3203 mg/L	0.00004	0.01%
K 766.490†	1919461.2	819.8 mg/L	3.69	819.8 mg/L	3.69	0.45%
Li 670.784†	165046.3	3.877 mg/L	0.0200	3.877 mg/L	0.0200	0.51%
Mg 279.077†	5036.1	0.3250 mg/L	0.00620	0.3250 mg/L	0.00620	1.91%
Mn 257.610†	8319.8	0.0088 mg/L	0.00007	0.0088 mg/L	0.00007	0.76%
Mn 294.920†	2596.5	0.0054 mg/L	0.00015	0.0054 mg/L	0.00015	2.87%
Mo 202.031†	9970.1	0.3771 mg/L	0.00195	0.3771 mg/L	0.00195	0.52%
Na 589.592†	2456744.0	329.3 mg/L	1.26	329.3 mg/L	1.26	0.38%
Ni 231.604†	122.3	0.0023 mg/L	0.00001	0.0023 mg/L	0.00001	0.25%
P 214.914†	2743.2	1.483 mg/L	0.0098	1.483 mg/L	0.0098	0.66%
Pb 220.353†	42.8	0.0054 mg/L	0.00005	0.0054 mg/L	0.00005	0.85%
Sb 206.836†	-17.9	0.0005 mg/L	0.00027	0.0005 mg/L	0.00027	50.22%
Se 196.026†	-7.2	0.0005 mg/L	0.00527	0.0005 mg/L	0.00527	>999.9%
Sn 189.927†	-27.7	-0.0003 mg/L	0.00172	-0.0003 mg/L	0.00172	676.79%
Sr 407.771†	9364.7	0.0082 mg/L	0.00003	0.0082 mg/L	0.00003	0.36%
Ti 337.279†	5043.9	0.0080 mg/L	0.00045	0.0080 mg/L	0.00045	5.66%
Tl 190.801†	4.2	0.0025 mg/L	0.00027	0.0025 mg/L	0.00027	10.82%
V 292.402†	-1499.6	0.0017 mg/L	0.00008	0.0017 mg/L	0.00008	4.42%
Zn 213.857†	9334.4	0.0578 mg/L	0.00005	0.0578 mg/L	0.00005	0.09%

Sequence No.: 80

Sample ID: CF32127-PDS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 6/25/2013 8:30:20 PM

Data Type: Reprocessed on 6/26/2013 10:57:08 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32127-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3134146.2	3134146.2	0.927 mg/L		20:32:16
1	Ag 328.068†	49080.0	52211.5	0.2515 mg/L	0.2515 mg/L	20:32:16
1	Al 237.313†	29345.0	32045.3	2.947 mg/L	2.947 mg/L	20:32:16
1	As 188.979†	803.9	866.2	0.5317 mg/L	0.5317 mg/L	20:32:26
1	B 249.677†	8787.9	9495.8	3.879 mg/L	3.879 mg/L	20:32:03
1	B 182.528†	4493.3	4854.4	3.992 mg/L	3.992 mg/L	20:32:26
1	Ba 233.527†	71318.9	77027.8	0.5845 mg/L	0.5845 mg/L	20:32:16
1	Be 313.107†	139405.3	151825.4	0.0536 mg/L	0.0536 mg/L	20:32:16
1	Ca 315.887†	10308366.7	11121547.6	99.55 mg/L	99.55 mg/L	20:32:12
1	Cd 228.802†	9350.7	9940.2	0.2673 mg/L	0.2673 mg/L	20:32:26

1	Co	228.616†	29696.3	32214.8	0.5106	mg/L	0.5106	mg/L	20:32:26
1	Cr	267.716†	63263.7	67539.1	0.5147	mg/L	0.5147	mg/L	20:32:16
1	Cu	324.752†	114603.0	119678.9	0.5129	mg/L	0.5129	mg/L	20:32:16
1	Fe	234.349†	6289.8	6787.2	3.200	mg/L	3.200	mg/L	20:32:03
1	K	766.490†	62131.2	66283.0	28.45	mg/L	28.45	mg/L	20:32:01
1	Li	670.784†	20455.5	22340.3	0.5265	mg/L	0.5265	mg/L	20:32:03
1	Mg	279.077†	271465.9	292573.9	19.00	mg/L	19.00	mg/L	20:32:16
1	Mn	257.610†	469898.3	490879.6	0.5272	mg/L	0.5272	mg/L	20:32:16
1	Mn	294.920†	226148.0	244612.7	0.5216	mg/L	0.5216	mg/L	20:32:16
1	Mo	202.031†	13130.8	14176.1	0.5320	mg/L	0.5320	mg/L	20:32:26
1	Na	589.592†	696438.2	747102.2	100.2	mg/L	100.2	mg/L	20:32:01
1	Ni	231.604†	25475.9	27306.7	0.5084	mg/L	0.5084	mg/L	20:32:16
1	P	214.914†	11616.2	12577.8	6.635	mg/L	6.635	mg/L	20:32:26
1	Pb	220.353†	8177.5	8638.9	0.5082	mg/L	0.5082	mg/L	20:32:26
1	Sb	206.836†	1282.6	1338.9	0.5517	mg/L	0.5517	mg/L	20:32:26
1	Se	196.026†	1758.6	1880.3	1.045	mg/L	1.045	mg/L	20:32:26
1	Sn	189.927†	3410.6	3641.9	0.5104	mg/L	0.5104	mg/L	20:32:26
1	Sr	407.771†	677980.1	731170.1	0.6192	mg/L	0.6192	mg/L	20:32:01
1	Ti	337.279†	483416.4	522815.2	0.5387	mg/L	0.5387	mg/L	20:32:16
1	Tl	190.801†	617.6	673.4	0.4884	mg/L	0.4884	mg/L	20:32:26
1	V	292.402†	123333.6	133956.1	0.5343	mg/L	0.5343	mg/L	20:32:16
1	Zn	213.857†	81967.0	87557.9	0.5340	mg/L	0.5340	mg/L	20:32:16
2	Y	371.029	3188658.8	3188658.8	0.943	mg/L			20:32:32
2	Ag	328.068†	49511.5	51763.8	0.2493	mg/L	0.2493	mg/L	20:32:32
2	Al	237.313†	29409.1	31572.0	2.903	mg/L	2.903	mg/L	20:32:32
2	As	188.979†	787.1	833.5	0.5117	mg/L	0.5117	mg/L	20:32:42
2	B	249.677†	8790.9	9336.8	3.814	mg/L	3.814	mg/L	20:32:07
2	B	182.528†	4519.5	4799.3	3.947	mg/L	3.947	mg/L	20:32:42
2	Ba	233.527†	72151.8	76595.5	0.5813	mg/L	0.5813	mg/L	20:32:32
2	Be	313.107†	141051.3	150999.7	0.0533	mg/L	0.0533	mg/L	20:32:32
2	Ca	315.887†	10268640.2	10889303.6	97.47	mg/L	97.47	mg/L	20:32:29
2	Cd	228.802†	9331.0	9746.9	0.2621	mg/L	0.2621	mg/L	20:32:42
2	Co	228.616†	29649.3	31617.2	0.5010	mg/L	0.5010	mg/L	20:32:42
2	Cr	267.716†	63807.0	66948.3	0.5102	mg/L	0.5102	mg/L	20:32:32
2	Cu	324.752†	115364.4	118372.6	0.5073	mg/L	0.5073	mg/L	20:32:32
2	Fe	234.349†	6259.6	6639.2	3.130	mg/L	3.130	mg/L	20:32:07
2	K	766.490†	61561.4	64533.0	27.70	mg/L	27.70	mg/L	20:32:05
2	Li	670.784†	20611.4	22128.4	0.5215	mg/L	0.5215	mg/L	20:32:07
2	Mg	279.077†	274683.3	290978.8	18.89	mg/L	18.89	mg/L	20:32:32
2	Mn	257.610†	474270.8	486849.6	0.5229	mg/L	0.5229	mg/L	20:32:32
2	Mn	294.920†	228446.3	242878.8	0.5179	mg/L	0.5179	mg/L	20:32:32
2	Mo	202.031†	13085.1	13885.5	0.5211	mg/L	0.5211	mg/L	20:32:42
2	Na	589.592†	689268.5	726655.1	97.45	mg/L	97.45	mg/L	20:32:05
2	Ni	231.604†	25793.9	27174.0	0.5059	mg/L	0.5059	mg/L	20:32:32
2	P	214.914†	11578.2	12323.2	6.501	mg/L	6.501	mg/L	20:32:42
2	Pb	220.353†	8138.0	8446.2	0.4969	mg/L	0.4969	mg/L	20:32:42
2	Sb	206.836†	1267.0	1298.7	0.5352	mg/L	0.5352	mg/L	20:32:42
2	Se	196.026†	1742.3	1830.7	1.018	mg/L	1.018	mg/L	20:32:42
2	Sn	189.927†	3415.7	3584.5	0.5021	mg/L	0.5021	mg/L	20:32:42
2	Sr	407.771†	670555.1	710792.6	0.6020	mg/L	0.6020	mg/L	20:32:05
2	Ti	337.279†	488141.3	518909.6	0.5347	mg/L	0.5347	mg/L	20:32:32
2	Tl	190.801†	616.1	660.5	0.4790	mg/L	0.4790	mg/L	20:32:42
2	V	292.402†	124527.0	132946.9	0.5302	mg/L	0.5302	mg/L	20:32:32
2	Zn	213.857†	82653.6	86774.2	0.5292	mg/L	0.5292	mg/L	20:32:32

Mean Data: CF32127-PDS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3161402.5	0.935	mg/L	0.0114				1.22%
Ag 328.068†	51987.7	0.2504	mg/L	0.00152	0.2504	mg/L	0.00152	0.61%
Al 237.313†	31808.7	2.925	mg/L	0.0307	2.925	mg/L	0.0307	1.05%
As 188.979†	849.9	0.5217	mg/L	0.01414	0.5217	mg/L	0.01414	2.71%
B 249.677†	9416.3	3.846	mg/L	0.0459	3.846	mg/L	0.0459	1.19%
B 182.528†	4826.9	3.970	mg/L	0.0320	3.970	mg/L	0.0320	0.81%
Ba 233.527†	76811.6	0.5829	mg/L	0.00232	0.5829	mg/L	0.00232	0.40%
Be 313.107†	151412.6	0.0535	mg/L	0.00021	0.0535	mg/L	0.00021	0.38%
Ca 315.887†	11005425.6	98.51	mg/L	1.470	98.51	mg/L	1.470	1.49%
Cd 228.802†	9843.5	0.2647	mg/L	0.00365	0.2647	mg/L	0.00365	1.38%
Co 228.616†	31916.0	0.5058	mg/L	0.00673	0.5058	mg/L	0.00673	1.33%
Cr 267.716†	67243.7	0.5124	mg/L	0.00318	0.5124	mg/L	0.00318	0.62%
Cu 324.752†	119025.7	0.5101	mg/L	0.00394	0.5101	mg/L	0.00394	0.77%
Fe 234.349†	6713.2	3.165	mg/L	0.0494	3.165	mg/L	0.0494	1.56%

K 766.490†	65408.0	28.07 mg/L	0.528	28.07 mg/L	0.528	1.88%
Li 670.784†	22234.3	0.5240 mg/L	0.00352	0.5240 mg/L	0.00352	0.67%
Mg 279.077†	291776.3	18.95 mg/L	0.073	18.95 mg/L	0.073	0.39%
Mn 257.610†	488864.6	0.5251 mg/L	0.00305	0.5251 mg/L	0.00305	0.58%
Mn 294.920†	243745.7	0.5197 mg/L	0.00262	0.5197 mg/L	0.00262	0.50%
Mo 202.031†	14030.8	0.5265 mg/L	0.00769	0.5265 mg/L	0.00769	1.46%
Na 589.592†	736878.6	98.82 mg/L	1.937	98.82 mg/L	1.937	1.96%
Ni 231.604†	27240.3	0.5072 mg/L	0.00176	0.5072 mg/L	0.00176	0.35%
P 214.914†	12450.5	6.568 mg/L	0.0943	6.568 mg/L	0.0943	1.44%
Pb 220.353†	8542.6	0.5025 mg/L	0.00799	0.5025 mg/L	0.00799	1.59%
Sb 206.836†	1318.8	0.5435 mg/L	0.01166	0.5435 mg/L	0.01166	2.15%
Se 196.026†	1855.5	1.032 mg/L	0.0194	1.032 mg/L	0.0194	1.88%
Sn 189.927†	3613.2	0.5062 mg/L	0.00590	0.5062 mg/L	0.00590	1.17%
Sr 407.771†	720981.3	0.6106 mg/L	0.01220	0.6106 mg/L	0.01220	2.00%
Ti 337.279†	520862.4	0.5367 mg/L	0.00283	0.5367 mg/L	0.00283	0.53%
Tl 190.801†	666.9	0.4837 mg/L	0.00666	0.4837 mg/L	0.00666	1.38%
V 292.402†	133451.5	0.5322 mg/L	0.00290	0.5322 mg/L	0.00290	0.55%
Zn 213.857†	87166.0	0.5316 mg/L	0.00338	0.5316 mg/L	0.00338	0.64%

Sequence No.: 81
Sample ID: 1306392-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/25/2013 8:34:21 PM
Data Type: Reprocessed on 6/26/2013 10:57:08 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306392-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3341095.1	3341095.1	0.988	mg/L			20:36:32
1	Ag 328.068†	853.0	126.4	0.0013	mg/L	0.0013	mg/L	20:36:34
1	Al 237.313†	-313.7	69.9	0.0135	mg/L	0.0135	mg/L	20:36:44
1	As 188.979†	1.7	0.7	0.0030	mg/L	0.0030	mg/L	20:36:44
1	B 249.677†	49.4	65.2	0.0291	mg/L	0.0291	mg/L	20:36:15
1	B 182.528†	22.5	29.7	0.0283	mg/L	0.0283	mg/L	20:36:44
1	Ba 233.527†	308.0	399.5	0.0036	mg/L	0.0036	mg/L	20:36:44
1	Be 313.107†	-616.6	808.8	0.0005	mg/L	0.0005	mg/L	20:36:34
1	Ca 315.887†	1805570.7	1827943.8	16.37	mg/L	16.37	mg/L	20:36:32
1	Cd 228.802†	145.4	-0.3	0.0015	mg/L	0.0015	mg/L	20:36:44
1	Co 228.616†	-166.4	9.5	-0.0019	mg/L	-0.0019	mg/L	20:36:44
1	Cr 267.716†	530.2	-174.3	-0.0008	mg/L	-0.0008	mg/L	20:36:34
1	Cu 324.752†	16835.1	13080.3	0.0572	mg/L	0.0572	mg/L	20:36:34
1	Fe 234.349†	363.3	369.3	0.1666	mg/L	0.1666	mg/L	20:36:15
1	K 766.490†	8078.7	7430.5	3.316	mg/L	3.316	mg/L	20:36:05
1	Li 670.784†	-46.2	225.8	0.0072	mg/L	0.0072	mg/L	20:36:05
1	Mg 279.077†	19331.5	19275.5	1.250	mg/L	1.250	mg/L	20:36:34
1	Mn 257.610†	53226.6	37810.7	0.0406	mg/L	0.0406	mg/L	20:36:34
1	Mn 294.920†	17597.3	18449.0	0.0392	mg/L	0.0392	mg/L	20:36:34
1	Mo 202.031†	69.2	80.4	0.0055	mg/L	0.0055	mg/L	20:36:44
1	Na 589.592†	151082.1	148667.7	20.01	mg/L	20.01	mg/L	20:36:05
1	Ni 231.604†	174.6	-0.4	-0.0005	mg/L	-0.0005	mg/L	20:36:44
1	P 214.914†	-45.8	-0.3	0.0478	mg/L	0.0478	mg/L	20:36:44
1	Pb 220.353†	156.0	-25.2	0.0004	mg/L	0.0004	mg/L	20:36:44
1	Sb 206.836†	40.5	-3.8	0.0028	mg/L	0.0028	mg/L	20:36:44
1	Se 196.026†	5.2	-11.6	-0.0020	mg/L	-0.0020	mg/L	20:36:44
1	Sn 189.927†	-195.4	-235.2	-0.0172	mg/L	-0.0172	mg/L	20:36:44
1	Sr 407.771†	49932.6	50285.9	0.0429	mg/L	0.0429	mg/L	20:36:05
1	Ti 337.279†	-1585.4	-306.5	0.0025	mg/L	0.0025	mg/L	20:36:34
1	Tl 190.801†	-1.6	5.5	0.0012	mg/L	0.0012	mg/L	20:36:44
1	V 292.402†	-971.9	-81.7	0.0020	mg/L	0.0020	mg/L	20:36:34
1	Zn 213.857†	8097.1	7324.8	0.0454	mg/L	0.0454	mg/L	20:36:44
2	Y 371.029	3325494.3	3325494.3	0.984	mg/L			20:36:47
2	Ag 328.068†	720.3	-4.4	0.0006	mg/L	0.0006	mg/L	20:36:49
2	Al 237.313†	-305.0	77.3	0.0142	mg/L	0.0142	mg/L	20:36:59
2	As 188.979†	-2.3	-3.3	0.0006	mg/L	0.0006	mg/L	20:36:59
2	B 249.677†	45.3	61.3	0.0275	mg/L	0.0275	mg/L	20:36:28
2	B 182.528†	16.5	23.7	0.0234	mg/L	0.0234	mg/L	20:36:59
2	Ba 233.527†	336.5	429.9	0.0039	mg/L	0.0039	mg/L	20:36:59
2	Be 313.107†	-519.0	905.0	0.0005	mg/L	0.0005	mg/L	20:36:49
2	Ca 315.887†	1796948.7	1827749.6	16.37	mg/L	16.37	mg/L	20:36:47
2	Cd 228.802†	154.2	9.3	0.0017	mg/L	0.0017	mg/L	20:36:59

2	Co 228.616†	-148.5	26.9	-0.0016 mg/L	-0.0016 mg/L	20:36:59
2	Cr 267.716†	525.1	-176.9	-0.0008 mg/L	-0.0008 mg/L	20:36:49
2	Cu 324.752†	16807.7	13132.4	0.0574 mg/L	0.0574 mg/L	20:36:49
2	Fe 234.349†	358.0	365.6	0.1647 mg/L	0.1647 mg/L	20:36:28
2	K 766.490†	8244.9	7637.9	3.405 mg/L	3.405 mg/L	20:36:18
2	Li 670.784†	51.7	325.2	0.0095 mg/L	0.0095 mg/L	20:36:18
2	Mg 279.077†	19204.5	19238.2	1.247 mg/L	1.247 mg/L	20:36:49
2	Mn 257.610†	52949.3	37781.5	0.0405 mg/L	0.0405 mg/L	20:36:49
2	Mn 294.920†	17763.2	18701.1	0.0397 mg/L	0.0397 mg/L	20:36:49
2	Mo 202.031†	75.0	86.7	0.0057 mg/L	0.0057 mg/L	20:36:59
2	Na 589.592†	152556.4	150883.9	20.30 mg/L	20.30 mg/L	20:36:18
2	Ni 231.604†	178.2	4.1	-0.0004 mg/L	-0.0004 mg/L	20:36:59
2	P 214.914†	-44.8	0.5	0.0482 mg/L	0.0482 mg/L	20:36:59
2	Pb 220.353†	157.7	-22.7	0.0006 mg/L	0.0006 mg/L	20:36:59
2	Sb 206.836†	35.6	-8.6	0.0008 mg/L	0.0008 mg/L	20:36:59
2	Se 196.026†	5.9	-10.9	-0.0016 mg/L	-0.0016 mg/L	20:36:59
2	Sn 189.927†	-193.0	-233.7	-0.0170 mg/L	-0.0170 mg/L	20:36:59
2	Sr 407.771†	50619.6	51221.4	0.0437 mg/L	0.0437 mg/L	20:36:18
2	Ti 337.279†	-1625.4	-354.7	0.0024 mg/L	0.0024 mg/L	20:36:49
2	Tl 190.801†	3.3	10.4	0.0049 mg/L	0.0049 mg/L	20:36:59
2	V 292.402†	-970.8	-85.2	0.0020 mg/L	0.0020 mg/L	20:36:49
2	Zn 213.857†	8098.1	7364.3	0.0456 mg/L	0.0456 mg/L	20:36:59

Mean Data: 1306392-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3333294.7	0.986 mg/L	0.0033			0.33%
Ag 328.068†	61.0	0.0009 mg/L	0.00044	0.0009 mg/L	0.00044	46.86%
Al 237.313†	73.6	0.0138 mg/L	0.00048	0.0138 mg/L	0.00048	3.46%
As 188.979†	-1.3	0.0018 mg/L	0.00173	0.0018 mg/L	0.00173	95.18%
B 249.677†	63.3	0.0283 mg/L	0.00114	0.0283 mg/L	0.00114	4.02%
B 182.528†	26.7	0.0258 mg/L	0.00347	0.0258 mg/L	0.00347	13.42%
Ba 233.527†	414.7	0.0037 mg/L	0.00016	0.0037 mg/L	0.00016	4.36%
Be 313.107†	856.9	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.66%
Ca 315.887†	1827846.7	16.37 mg/L	0.001	16.37 mg/L	0.001	0.01%
Cd 228.802†	4.5	0.0016 mg/L	0.00018	0.0016 mg/L	0.00018	11.18%
Co 228.616†	18.2	-0.0018 mg/L	0.00020	-0.0018 mg/L	0.00020	11.01%
Cr 267.716†	-175.6	-0.0008 mg/L	0.00001	-0.0008 mg/L	0.00001	1.71%
Cu 324.752†	13106.3	0.0573 mg/L	0.00016	0.0573 mg/L	0.00016	0.27%
Fe 234.349†	367.5	0.1657 mg/L	0.00128	0.1657 mg/L	0.00128	0.77%
K 766.490†	7534.2	3.361 mg/L	0.0626	3.361 mg/L	0.0626	1.86%
Li 670.784†	275.5	0.0084 mg/L	0.00165	0.0084 mg/L	0.00165	19.72%
Mg 279.077†	19256.9	1.248 mg/L	0.0017	1.248 mg/L	0.0017	0.14%
Mn 257.610†	37796.1	0.0406 mg/L	0.00002	0.0406 mg/L	0.00002	0.05%
Mn 294.920†	18575.0	0.0394 mg/L	0.00038	0.0394 mg/L	0.00038	0.96%
Mo 202.031†	83.5	0.0056 mg/L	0.00016	0.0056 mg/L	0.00016	2.95%
Na 589.592†	149775.8	20.16 mg/L	0.210	20.16 mg/L	0.210	1.04%
Ni 231.604†	1.8	-0.0005 mg/L	0.00006	-0.0005 mg/L	0.00006	12.28%
P 214.914†	0.1	0.0480 mg/L	0.00029	0.0480 mg/L	0.00029	0.60%
Pb 220.353†	-24.0	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	20.38%
Sb 206.836†	-6.2	0.0018 mg/L	0.00140	0.0018 mg/L	0.00140	77.89%
Se 196.026†	-11.3	-0.0018 mg/L	0.00030	-0.0018 mg/L	0.00030	16.63%
Sn 189.927†	-234.4	-0.0171 mg/L	0.00013	-0.0171 mg/L	0.00013	0.78%
Sr 407.771†	50753.6	0.0433 mg/L	0.00056	0.0433 mg/L	0.00056	1.29%
Ti 337.279†	-330.6	0.0024 mg/L	0.00003	0.0024 mg/L	0.00003	1.43%
Tl 190.801†	8.0	0.0031 mg/L	0.00265	0.0031 mg/L	0.00265	86.96%
V 292.402†	-83.5	0.0020 mg/L	0.00001	0.0020 mg/L	0.00001	0.36%
Zn 213.857†	7344.5	0.0455 mg/L	0.00017	0.0455 mg/L	0.00017	0.38%

Sequence No.: 82

Sample ID: 1306397-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 51

Date Collected: 6/25/2013 8:38:38 PM

Data Type: Reprocessed on 6/26/2013 10:57:09 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306397-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3250353.9	3250353.9	0.961 mg/L		20:40:47

1	Ag	328.068†	569.1	-144.8	0.0000	mg/L	0.0000	mg/L	20:40:49
1	Al	237.313†	-303.5	71.7	0.0137	mg/L	0.0137	mg/L	20:40:59
1	As	188.979†	8.4	7.7	0.0074	mg/L	0.0074	mg/L	20:40:59
1	B	249.677†	28.9	45.3	0.0210	mg/L	0.0210	mg/L	20:40:30
1	B	182.528†	12.9	20.4	0.0206	mg/L	0.0206	mg/L	20:40:59
1	Ba	233.527†	1033.1	1162.4	0.0094	mg/L	0.0094	mg/L	20:40:59
1	Be	313.107†	-1520.5	-148.9	0.0002	mg/L	0.0002	mg/L	20:40:49
1	Ca	315.887†	1821769.7	1895806.0	16.98	mg/L	16.98	mg/L	20:40:47
1	Cd	228.802†	150.7	9.3	0.0017	mg/L	0.0017	mg/L	20:40:59
1	Co	228.616†	-158.6	12.9	-0.0019	mg/L	-0.0019	mg/L	20:40:59
1	Cr	267.716†	523.5	-166.2	-0.0008	mg/L	-0.0008	mg/L	20:40:49
1	Cu	324.752†	6917.2	3238.9	0.0151	mg/L	0.0151	mg/L	20:40:49
1	Fe	234.349†	47.7	51.3	0.0081	mg/L	0.0081	mg/L	20:40:30
1	K	766.490†	3104.4	2484.2	1.204	mg/L	1.204	mg/L	20:40:20
1	Li	670.784†	-210.3	53.9	0.0032	mg/L	0.0032	mg/L	20:40:20
1	Mg	279.077†	10809.3	10956.5	0.7094	mg/L	0.7094	mg/L	20:40:49
1	Mn	257.610†	16313.7	916.1	0.0009	mg/L	0.0009	mg/L	20:40:59
1	Mn	294.920†	-851.7	-245.4	-0.0007	mg/L	-0.0007	mg/L	20:40:49
1	Mo	202.031†	50.3	62.7	0.0051	mg/L	0.0051	mg/L	20:40:59
1	Na	589.592†	94824.1	94413.9	12.74	mg/L	12.74	mg/L	20:40:20
1	Ni	231.604†	179.2	9.3	-0.0003	mg/L	-0.0003	mg/L	20:40:59
1	P	214.914†	-59.9	-16.3	0.0398	mg/L	0.0398	mg/L	20:40:59
1	Pb	220.353†	165.0	-11.5	0.0013	mg/L	0.0013	mg/L	20:40:59
1	Sb	206.836†	38.2	-5.1	0.0023	mg/L	0.0023	mg/L	20:40:59
1	Se	196.026†	7.6	-8.9	-0.0005	mg/L	-0.0005	mg/L	20:40:59
1	Sn	189.927†	-212.7	-258.7	-0.0197	mg/L	-0.0197	mg/L	20:40:59
1	Sr	407.771†	33956.5	35077.5	0.0300	mg/L	0.0300	mg/L	20:40:20
1	Ti	337.279†	-1688.7	-458.7	0.0023	mg/L	0.0023	mg/L	20:40:49
1	Tl	190.801†	-6.5	0.3	-0.0027	mg/L	-0.0027	mg/L	20:40:59
1	V	292.402†	-804.2	65.2	0.0025	mg/L	0.0025	mg/L	20:40:49
1	Zn	213.857†	22591.9	22631.7	0.1395	mg/L	0.1395	mg/L	20:40:49
2	Y	371.029	3303962.2	3303962.2	0.977	mg/L			20:41:02
2	Ag	328.068†	756.1	37.0	0.0008	mg/L	0.0008	mg/L	20:41:04
2	Al	237.313†	-399.1	-21.0	0.0052	mg/L	0.0052	mg/L	20:41:14
2	As	188.979†	-0.7	-1.8	0.0016	mg/L	0.0016	mg/L	20:41:14
2	B	249.677†	20.1	35.7	0.0171	mg/L	0.0171	mg/L	20:40:43
2	B	182.528†	9.4	16.6	0.0175	mg/L	0.0175	mg/L	20:41:14
2	Ba	233.527†	1009.1	1120.5	0.0091	mg/L	0.0091	mg/L	20:41:14
2	Be	313.107†	-1437.2	-38.0	0.0002	mg/L	0.0002	mg/L	20:41:04
2	Ca	315.887†	1855441.9	1899516.4	17.01	mg/L	17.01	mg/L	20:41:02
2	Cd	228.802†	138.6	-5.6	0.0013	mg/L	0.0013	mg/L	20:41:14
2	Co	228.616†	-171.4	2.5	-0.0020	mg/L	-0.0020	mg/L	20:41:14
2	Cr	267.716†	497.0	-202.2	-0.0010	mg/L	-0.0010	mg/L	20:41:04
2	Cu	324.752†	6859.9	3063.5	0.0144	mg/L	0.0144	mg/L	20:41:04
2	Fe	234.349†	58.9	62.0	0.0133	mg/L	0.0133	mg/L	20:40:43
2	K	766.490†	3200.1	2529.8	1.224	mg/L	1.224	mg/L	20:40:33
2	Li	670.784†	-200.5	67.4	0.0035	mg/L	0.0035	mg/L	20:40:33
2	Mg	279.077†	10549.3	10507.9	0.6803	mg/L	0.6803	mg/L	20:41:04
2	Mn	257.610†	16214.6	539.2	0.0005	mg/L	0.0005	mg/L	20:41:14
2	Mn	294.920†	-840.1	-219.2	-0.0006	mg/L	-0.0006	mg/L	20:41:04
2	Mo	202.031†	90.2	102.8	0.0066	mg/L	0.0066	mg/L	20:41:14
2	Na	589.592†	94426.0	92406.0	12.47	mg/L	12.47	mg/L	20:40:33
2	Ni	231.604†	182.0	9.1	-0.0003	mg/L	-0.0003	mg/L	20:41:14
2	P	214.914†	-44.1	0.9	0.0488	mg/L	0.0488	mg/L	20:41:14
2	Pb	220.353†	129.8	-50.3	-0.0010	mg/L	-0.0010	mg/L	20:41:14
2	Sb	206.836†	38.7	-5.2	0.0023	mg/L	0.0023	mg/L	20:41:14
2	Se	196.026†	4.1	-12.6	-0.0025	mg/L	-0.0025	mg/L	20:41:14
2	Sn	189.927†	-201.2	-243.4	-0.0178	mg/L	-0.0178	mg/L	20:41:14
2	Sr	407.771†	33881.2	34427.3	0.0294	mg/L	0.0294	mg/L	20:40:33
2	Ti	337.279†	-1843.3	-588.5	0.0022	mg/L	0.0022	mg/L	20:41:04
2	Tl	190.801†	2.8	9.9	0.0045	mg/L	0.0045	mg/L	20:41:14
2	V	292.402†	-995.1	-116.5	0.0019	mg/L	0.0019	mg/L	20:41:04
2	Zn	213.857†	22180.8	21829.7	0.1346	mg/L	0.1346	mg/L	20:41:04

Mean Data: 1306397-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3277158.1	0.969 mg/L	0.0112			1.16%
Ag 328.068†	-53.9	0.0004 mg/L	0.00062	0.0004 mg/L	0.00062	157.15%
Al 237.313†	25.4	0.0094 mg/L	0.00601	0.0094 mg/L	0.00601	63.81%
As 188.979†	3.0	0.0045 mg/L	0.00412	0.0045 mg/L	0.00412	92.15%
B 249.677†	40.5	0.0191 mg/L	0.00275	0.0191 mg/L	0.00275	14.41%

B 182.528†	18.5	0.0191 mg/L	0.00218	0.0191 mg/L	0.00218	11.45%
Ba 233.527†	1141.4	0.0092 mg/L	0.00022	0.0092 mg/L	0.00022	2.43%
Be 313.107†	-93.5	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	15.34%
Ca 315.887†	1897661.2	16.99 mg/L	0.023	16.99 mg/L	0.023	0.14%
Cd 228.802†	1.9	0.0015 mg/L	0.00028	0.0015 mg/L	0.00028	18.28%
Co 228.616†	7.7	-0.0020 mg/L	0.00012	-0.0020 mg/L	0.00012	5.98%
Cr 267.716†	-184.2	-0.0009 mg/L	0.00019	-0.0009 mg/L	0.00019	21.61%
Cu 324.752†	3151.2	0.0148 mg/L	0.00053	0.0148 mg/L	0.00053	3.59%
Fe 234.349†	56.6	0.0107 mg/L	0.00371	0.0107 mg/L	0.00371	34.73%
K 766.490†	2507.0	1.214 mg/L	0.0138	1.214 mg/L	0.0138	1.13%
Li 670.784†	60.6	0.0033 mg/L	0.00023	0.0033 mg/L	0.00023	6.78%
Mg 279.077†	10732.2	0.6949 mg/L	0.02060	0.6949 mg/L	0.02060	2.96%
Mn 257.610†	727.6	0.0007 mg/L	0.00029	0.0007 mg/L	0.00029	40.47%
Mn 294.920†	-232.3	-0.0007 mg/L	0.00004	-0.0007 mg/L	0.00004	5.94%
Mo 202.031†	82.7	0.0058 mg/L	0.00107	0.0058 mg/L	0.00107	18.36%
Na 589.592†	93409.9	12.60 mg/L	0.190	12.60 mg/L	0.190	1.51%
Ni 231.604†	9.2	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.08%
P 214.914†	-7.7	0.0443 mg/L	0.00637	0.0443 mg/L	0.00637	14.38%
Pb 220.353†	-30.9	0.0001 mg/L	0.00160	0.0001 mg/L	0.00160	>999.9%
Sb 206.836†	-5.2	0.0023 mg/L	0.00002	0.0023 mg/L	0.00002	0.92%
Se 196.026†	-10.8	-0.0015 mg/L	0.00145	-0.0015 mg/L	0.00145	95.33%
Sn 189.927†	-251.1	-0.0187 mg/L	0.00135	-0.0187 mg/L	0.00135	7.19%
Sr 407.771†	34752.4	0.0297 mg/L	0.00039	0.0297 mg/L	0.00039	1.31%
Ti 337.279†	-523.6	0.0022 mg/L	0.00009	0.0022 mg/L	0.00009	4.18%
Tl 190.801†	5.1	0.0009 mg/L	0.00513	0.0009 mg/L	0.00513	571.62%
V 292.402†	-25.6	0.0022 mg/L	0.00049	0.0022 mg/L	0.00049	22.09%
Zn 213.857†	22230.7	0.1370 mg/L	0.00348	0.1370 mg/L	0.00348	2.54%

Sequence No.: 83
Sample ID: 1306397-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/25/2013 8:42:53 PM
Data Type: Reprocessed on 6/26/2013 10:57:09 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3325194.9	3325194.9	0.983	mg/L			20:45:03
1	Ag 328.068†	671.9	-53.6	0.0004	mg/L	0.0004	mg/L	20:45:05
1	Al 237.313†	-367.6	13.7	0.0083	mg/L	0.0083	mg/L	20:45:15
1	As 188.979†	-4.0	-5.1	-0.0005	mg/L	-0.0005	mg/L	20:45:15
1	B 249.677†	3.6	18.9	0.0102	mg/L	0.0102	mg/L	20:44:46
1	B 182.528†	-6.7	0.2	0.0040	mg/L	0.0040	mg/L	20:45:15
1	Ba 233.527†	936.3	1039.8	0.0085	mg/L	0.0085	mg/L	20:45:15
1	Be 313.107†	-1293.2	117.8	0.0003	mg/L	0.0003	mg/L	20:45:05
1	Ca 315.887†	1872687.7	1904927.9	17.06	mg/L	17.06	mg/L	20:45:03
1	Cd 228.802†	139.9	-5.2	0.0014	mg/L	0.0014	mg/L	20:45:15
1	Co 228.616†	-152.9	22.5	-0.0017	mg/L	-0.0017	mg/L	20:45:15
1	Cr 267.716†	553.4	-148.1	-0.0006	mg/L	-0.0006	mg/L	20:45:05
1	Cu 324.752†	6598.9	2753.3	0.0131	mg/L	0.0131	mg/L	20:45:05
1	Fe 234.349†	30.4	32.6	-0.0013	mg/L	-0.0013	mg/L	20:44:46
1	K 766.490†	3003.2	2308.7	1.129	mg/L	1.129	mg/L	20:44:36
1	Li 670.784†	-362.4	-95.9	-0.0004	mg/L	-0.0004	mg/L	20:44:36
1	Mg 279.077†	9407.2	9277.7	0.6004	mg/L	0.6004	mg/L	20:45:05
1	Mn 257.610†	15890.9	104.2	0.0000	mg/L	0.0000	mg/L	20:45:15
1	Mn 294.920†	-1080.3	-457.9	-0.0011	mg/L	-0.0011	mg/L	20:45:05
1	Mo 202.031†	31.6	42.6	0.0043	mg/L	0.0043	mg/L	20:45:15
1	Na 589.592†	93672.7	91023.0	12.28	mg/L	12.28	mg/L	20:44:36
1	Ni 231.604†	168.2	-6.1	-0.0006	mg/L	-0.0006	mg/L	20:45:15
1	P 214.914†	-64.2	-19.3	0.0383	mg/L	0.0383	mg/L	20:45:15
1	Pb 220.353†	156.6	-23.9	0.0005	mg/L	0.0005	mg/L	20:45:15
1	Sb 206.836†	32.1	-12.2	-0.0006	mg/L	-0.0006	mg/L	20:45:15
1	Se 196.026†	12.2	-4.5	0.0020	mg/L	0.0020	mg/L	20:45:15
1	Sn 189.927†	-211.6	-252.6	-0.0189	mg/L	-0.0189	mg/L	20:45:15
1	Sr 407.771†	33640.4	33961.1	0.0290	mg/L	0.0290	mg/L	20:44:36
1	Ti 337.279†	-1902.7	-636.8	0.0021	mg/L	0.0021	mg/L	20:45:05
1	Tl 190.801†	-3.4	3.7	-0.0002	mg/L	-0.0002	mg/L	20:45:15
1	V 292.402†	-717.3	172.5	0.0030	mg/L	0.0030	mg/L	20:45:05
1	Zn 213.857†	4378.8	3583.1	0.0225	mg/L	0.0225	mg/L	20:45:15
2	Y 371.029	3295343.1	3295343.1	0.975	mg/L			20:45:17

2	Ag	328.068†	604.6	-116.5	0.0001	mg/L	0.0001	mg/L	20:45:20
2	Al	237.313†	-364.4	13.6	0.0083	mg/L	0.0083	mg/L	20:45:30
2	As	188.979†	-0.5	-1.5	0.0017	mg/L	0.0017	mg/L	20:45:30
2	B	249.677†	-3.8	11.3	0.0071	mg/L	0.0071	mg/L	20:44:59
2	B	182.528†	-4.9	1.9	0.0054	mg/L	0.0054	mg/L	20:45:30
2	Ba	233.527†	928.7	1040.6	0.0085	mg/L	0.0085	mg/L	20:45:30
2	Be	313.107†	-1335.6	62.4	0.0002	mg/L	0.0002	mg/L	20:45:20
2	Ca	315.887†	1854326.7	1903338.5	17.04	mg/L	17.04	mg/L	20:45:17
2	Cd	228.802†	155.1	11.7	0.0018	mg/L	0.0018	mg/L	20:45:30
2	Co	228.616†	-172.2	1.3	-0.0021	mg/L	-0.0021	mg/L	20:45:30
2	Cr	267.716†	527.1	-170.0	-0.0008	mg/L	-0.0008	mg/L	20:45:20
2	Cu	324.752†	6531.3	2744.7	0.0130	mg/L	0.0130	mg/L	20:45:20
2	Fe	234.349†	52.1	55.1	0.0099	mg/L	0.0099	mg/L	20:44:59
2	K	766.490†	2970.5	2302.8	1.127	mg/L	1.127	mg/L	20:44:49
2	Li	670.784†	-425.3	-163.8	-0.0019	mg/L	-0.0019	mg/L	20:44:49
2	Mg	279.077†	9457.4	9415.8	0.6094	mg/L	0.6094	mg/L	20:45:20
2	Mn	257.610†	15913.2	273.5	0.0002	mg/L	0.0002	mg/L	20:45:30
2	Mn	294.920†	-876.4	-258.6	-0.0007	mg/L	-0.0007	mg/L	20:45:20
2	Mo	202.031†	61.4	73.4	0.0055	mg/L	0.0055	mg/L	20:45:30
2	Na	589.592†	94520.9	92756.2	12.52	mg/L	12.52	mg/L	20:44:49
2	Ni	231.604†	185.5	13.2	-0.0003	mg/L	-0.0003	mg/L	20:45:30
2	P	214.914†	-46.1	-1.3	0.0477	mg/L	0.0477	mg/L	20:45:30
2	Pb	220.353†	164.6	-14.2	0.0011	mg/L	0.0011	mg/L	20:45:30
2	Sb	206.836†	41.6	-2.2	0.0035	mg/L	0.0035	mg/L	20:45:30
2	Se	196.026†	6.0	-10.7	-0.0015	mg/L	-0.0015	mg/L	20:45:30
2	Sn	189.927†	-227.0	-270.4	-0.0211	mg/L	-0.0211	mg/L	20:45:30
2	Sr	407.771†	33986.4	34625.9	0.0296	mg/L	0.0296	mg/L	20:44:49
2	Ti	337.279†	-1823.2	-572.7	0.0022	mg/L	0.0022	mg/L	20:45:20
2	Tl	190.801†	10.9	18.3	0.0108	mg/L	0.0108	mg/L	20:45:30
2	V	292.402†	-909.6	-31.4	0.0022	mg/L	0.0022	mg/L	20:45:20
2	Zn	213.857†	4382.1	3626.8	0.0227	mg/L	0.0227	mg/L	20:45:30

Mean Data: 1306397-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3310269.0	0.979	mg/L	0.0062				0.64%
Ag 328.068†	-85.0	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	87.74%
Al 237.313†	13.6	0.0083	mg/L	0.00001	0.0083	mg/L	0.00001	0.08%
As 188.979†	-3.3	0.0006	mg/L	0.00153	0.0006	mg/L	0.00153	245.23%
B 249.677†	15.1	0.0087	mg/L	0.00218	0.0087	mg/L	0.00218	25.12%
B 182.528†	1.0	0.0047	mg/L	0.00100	0.0047	mg/L	0.00100	21.01%
Ba 233.527†	1040.2	0.0085	mg/L	0.00000	0.0085	mg/L	0.00000	0.05%
Be 313.107†	90.1	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.64%
Ca 315.887†	1904133.2	17.05	mg/L	0.010	17.05	mg/L	0.010	0.06%
Cd 228.802†	3.2	0.0016	mg/L	0.00032	0.0016	mg/L	0.00032	20.13%
Co 228.616†	11.9	-0.0019	mg/L	0.00024	-0.0019	mg/L	0.00024	12.66%
Cr 267.716†	-159.0	-0.0007	mg/L	0.00012	-0.0007	mg/L	0.00012	16.71%
Cu 324.752†	2749.0	0.0131	mg/L	0.00003	0.0131	mg/L	0.00003	0.20%
Fe 234.349†	43.8	0.0043	mg/L	0.00790	0.0043	mg/L	0.00790	185.23%
K 766.490†	2305.7	1.128	mg/L	0.0018	1.128	mg/L	0.0018	0.16%
Li 670.784†	-129.8	-0.0012	mg/L	0.00113	-0.0012	mg/L	0.00113	97.82%
Mg 279.077†	9346.8	0.6049	mg/L	0.00634	0.6049	mg/L	0.00634	1.05%
Mn 257.610†	188.8	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	96.10%
Mn 294.920†	-358.3	-0.0009	mg/L	0.00030	-0.0009	mg/L	0.00030	32.10%
Mo 202.031†	58.0	0.0049	mg/L	0.00082	0.0049	mg/L	0.00082	16.76%
Na 589.592†	91889.6	12.40	mg/L	0.164	12.40	mg/L	0.164	1.32%
Ni 231.604†	3.5	-0.0005	mg/L	0.00026	-0.0005	mg/L	0.00026	56.28%
P 214.914†	-10.3	0.0430	mg/L	0.00666	0.0430	mg/L	0.00666	15.49%
Pb 220.353†	-19.0	0.0008	mg/L	0.00040	0.0008	mg/L	0.00040	49.09%
Sb 206.836†	-7.2	0.0015	mg/L	0.00290	0.0015	mg/L	0.00290	198.45%
Se 196.026†	-7.6	0.0002	mg/L	0.00243	0.0002	mg/L	0.00243	>999.9%
Sn 189.927†	-261.5	-0.0200	mg/L	0.00155	-0.0200	mg/L	0.00155	7.76%
Sr 407.771†	34293.5	0.0293	mg/L	0.00040	0.0293	mg/L	0.00040	1.36%
Ti 337.279†	-604.8	0.0022	mg/L	0.00005	0.0022	mg/L	0.00005	2.15%
Tl 190.801†	11.0	0.0053	mg/L	0.00778	0.0053	mg/L	0.00778	147.11%
V 292.402†	70.5	0.0026	mg/L	0.00055	0.0026	mg/L	0.00055	21.02%
Zn 213.857†	3605.0	0.0226	mg/L	0.00019	0.0226	mg/L	0.00019	0.83%

Sequence No.: 84
Sample ID: 1306397-03
Analyst:

Autosampler Location: 53
Date Collected: 6/25/2013 8:47:09 PM
Data Type: Reprocessed on 6/26/2013 10:57:10 AM

Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3350304.6	3350304.6	0.991	mg/L			20:49:17
1	Ag 328.068†	567.4	-164.2	-0.0001	mg/L	-0.0001	mg/L	20:49:19
1	Al 237.313†	71.8	459.9	0.0493	mg/L	0.0493	mg/L	20:49:29
1	As 188.979†	4.7	3.7	0.0049	mg/L	0.0049	mg/L	20:49:29
1	B 249.677†	-8.5	6.7	0.0052	mg/L	0.0052	mg/L	20:49:00
1	B 182.528†	-2.8	4.2	0.0073	mg/L	0.0073	mg/L	20:49:29
1	Ba 233.527†	898.5	994.5	0.0081	mg/L	0.0081	mg/L	20:49:29
1	Be 313.107†	-1371.6	48.5	0.0002	mg/L	0.0002	mg/L	20:49:19
1	Ca 315.887†	1872711.9	1890680.7	16.93	mg/L	16.93	mg/L	20:49:17
1	Cd 228.802†	134.2	-12.0	0.0012	mg/L	0.0012	mg/L	20:49:29
1	Co 228.616†	-177.0	-0.7	-0.0021	mg/L	-0.0021	mg/L	20:49:29
1	Cr 267.716†	526.5	-179.5	-0.0009	mg/L	-0.0009	mg/L	20:49:19
1	Cu 324.752†	7619.4	3732.9	0.0173	mg/L	0.0173	mg/L	20:49:19
1	Fe 234.349†	26.3	28.2	-0.0032	mg/L	-0.0032	mg/L	20:49:00
1	K 766.490†	2948.1	2230.1	1.096	mg/L	1.096	mg/L	20:48:50
1	Li 670.784†	-340.9	-71.5	0.0002	mg/L	0.0002	mg/L	20:48:50
1	Mg 279.077†	9298.8	9096.6	0.5887	mg/L	0.5887	mg/L	20:49:19
1	Mn 257.610†	16084.1	178.0	0.0001	mg/L	0.0001	mg/L	20:49:29
1	Mn 294.920†	-865.4	-232.8	-0.0007	mg/L	-0.0007	mg/L	20:49:19
1	Mo 202.031†	54.4	65.3	0.0051	mg/L	0.0051	mg/L	20:49:29
1	Na 589.592†	92506.4	89132.1	12.03	mg/L	12.03	mg/L	20:48:50
1	Ni 231.604†	164.7	-10.9	-0.0007	mg/L	-0.0007	mg/L	20:49:29
1	P 214.914†	-35.1	10.7	0.0539	mg/L	0.0539	mg/L	20:49:29
1	Pb 220.353†	124.8	-57.1	-0.0014	mg/L	-0.0014	mg/L	20:49:29
1	Sb 206.836†	39.0	-5.5	0.0021	mg/L	0.0021	mg/L	20:49:29
1	Se 196.026†	2.0	-14.8	-0.0038	mg/L	-0.0038	mg/L	20:49:29
1	Sn 189.927†	-199.3	-238.6	-0.0173	mg/L	-0.0173	mg/L	20:49:29
1	Sr 407.771†	33965.0	34032.2	0.0291	mg/L	0.0291	mg/L	20:48:50
1	Ti 337.279†	-1796.5	-515.1	0.0023	mg/L	0.0023	mg/L	20:49:19
1	Tl 190.801†	0.1	7.2	0.0025	mg/L	0.0025	mg/L	20:49:29
1	V 292.402†	-781.5	113.1	0.0028	mg/L	0.0028	mg/L	20:49:19
1	Zn 213.857†	5092.0	4269.5	0.0267	mg/L	0.0267	mg/L	20:49:29
2	Y 371.029	3311368.3	3311368.3	0.979	mg/L			20:49:31
2	Ag 328.068†	750.7	29.7	0.0008	mg/L	0.0008	mg/L	20:49:34
2	Al 237.313†	91.7	481.1	0.0512	mg/L	0.0512	mg/L	20:49:44
2	As 188.979†	-0.6	-1.6	0.0017	mg/L	0.0017	mg/L	20:49:44
2	B 249.677†	-2.0	13.2	0.0079	mg/L	0.0079	mg/L	20:49:13
2	B 182.528†	-4.0	2.9	0.0062	mg/L	0.0062	mg/L	20:49:44
2	Ba 233.527†	900.5	1007.2	0.0082	mg/L	0.0082	mg/L	20:49:44
2	Be 313.107†	-1470.2	-68.4	0.0002	mg/L	0.0002	mg/L	20:49:34
2	Ca 315.887†	1848847.4	1888536.2	16.91	mg/L	16.91	mg/L	20:49:31
2	Cd 228.802†	144.6	0.2	0.0015	mg/L	0.0015	mg/L	20:49:44
2	Co 228.616†	-175.4	-1.2	-0.0021	mg/L	-0.0021	mg/L	20:49:44
2	Cr 267.716†	471.5	-229.4	-0.0012	mg/L	-0.0012	mg/L	20:49:34
2	Cu 324.752†	7593.2	3796.5	0.0175	mg/L	0.0175	mg/L	20:49:34
2	Fe 234.349†	46.7	49.3	0.0072	mg/L	0.0072	mg/L	20:49:13
2	K 766.490†	2901.0	2217.1	1.090	mg/L	1.090	mg/L	20:49:03
2	Li 670.784†	-434.3	-170.9	-0.0021	mg/L	-0.0021	mg/L	20:49:03
2	Mg 279.077†	9121.6	9026.0	0.5841	mg/L	0.5841	mg/L	20:49:34
2	Mn 257.610†	16087.5	372.4	0.0003	mg/L	0.0003	mg/L	20:49:44
2	Mn 294.920†	-819.1	-195.7	-0.0006	mg/L	-0.0006	mg/L	20:49:34
2	Mo 202.031†	47.3	58.7	0.0049	mg/L	0.0049	mg/L	20:49:44
2	Na 589.592†	92102.9	89817.8	12.12	mg/L	12.12	mg/L	20:49:03
2	Ni 231.604†	147.5	-26.6	-0.0010	mg/L	-0.0010	mg/L	20:49:44
2	P 214.914†	-48.9	-3.9	0.0463	mg/L	0.0463	mg/L	20:49:44
2	Pb 220.353†	111.3	-69.5	-0.0021	mg/L	-0.0021	mg/L	20:49:44
2	Sb 206.836†	42.5	-1.4	0.0038	mg/L	0.0038	mg/L	20:49:44
2	Se 196.026†	11.0	-5.6	0.0013	mg/L	0.0013	mg/L	20:49:44
2	Sn 189.927†	-208.7	-250.6	-0.0187	mg/L	-0.0187	mg/L	20:49:44
2	Sr 407.771†	33866.1	34334.3	0.0294	mg/L	0.0294	mg/L	20:49:03
2	Ti 337.279†	-1921.4	-664.0	0.0021	mg/L	0.0021	mg/L	20:49:34
2	Tl 190.801†	1.7	8.9	0.0037	mg/L	0.0037	mg/L	20:49:44
2	V 292.402†	-841.3	42.8	0.0025	mg/L	0.0025	mg/L	20:49:34
2	Zn 213.857†	5095.4	4333.4	0.0271	mg/L	0.0271	mg/L	20:49:44

Mean Data: 1306397-03

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	3330836.4	0.985	mg/L	0.0081				0.83%
Ag 328.068†	-67.2	0.0003	mg/L	0.00066	0.0003	mg/L	0.00066	200.30%
Al 237.313†	470.5	0.0502	mg/L	0.00137	0.0502	mg/L	0.00137	2.73%
As 188.979†	1.1	0.0033	mg/L	0.00231	0.0033	mg/L	0.00231	70.37%
B 249.677†	9.9	0.0066	mg/L	0.00188	0.0066	mg/L	0.00188	28.63%
B 182.528†	3.5	0.0068	mg/L	0.00075	0.0068	mg/L	0.00075	11.04%
Ba 233.527†	1000.9	0.0082	mg/L	0.00007	0.0082	mg/L	0.00007	0.83%
Be 313.107†	-9.9	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.89%
Ca 315.887†	1889608.4	16.92	mg/L	0.014	16.92	mg/L	0.014	0.08%
Cd 228.802†	-5.9	0.0013	mg/L	0.00023	0.0013	mg/L	0.00023	17.26%
Co 228.616†	-0.9	-0.0021	mg/L	0.00001	-0.0021	mg/L	0.00001	0.26%
Cr 267.716†	-204.4	-0.0010	mg/L	0.00027	-0.0010	mg/L	0.00027	25.69%
Cu 324.752†	3764.7	0.0174	mg/L	0.00019	0.0174	mg/L	0.00019	1.11%
Fe 234.349†	38.8	0.0020	mg/L	0.00740	0.0020	mg/L	0.00740	372.67%
K 766.490†	2223.6	1.093	mg/L	0.0039	1.093	mg/L	0.0039	0.36%
Li 670.784†	-121.2	-0.0009	mg/L	0.00165	-0.0009	mg/L	0.00165	173.86%
Mg 279.077†	9061.3	0.5864	mg/L	0.00324	0.5864	mg/L	0.00324	0.55%
Mn 257.610†	275.2	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	64.78%
Mn 294.920†	-214.3	-0.0006	mg/L	0.00006	-0.0006	mg/L	0.00006	8.88%
Mo 202.031†	62.0	0.0050	mg/L	0.00018	0.0050	mg/L	0.00018	3.57%
Na 589.592†	89475.0	12.08	mg/L	0.065	12.08	mg/L	0.065	0.54%
Ni 231.604†	-18.8	-0.0009	mg/L	0.00021	-0.0009	mg/L	0.00021	23.67%
P 214.914†	3.4	0.0501	mg/L	0.00538	0.0501	mg/L	0.00538	10.75%
Pb 220.353†	-63.3	-0.0018	mg/L	0.00051	-0.0018	mg/L	0.00051	28.63%
Sb 206.836†	-3.5	0.0030	mg/L	0.00118	0.0030	mg/L	0.00118	39.54%
Se 196.026†	-10.2	-0.0012	mg/L	0.00359	-0.0012	mg/L	0.00359	295.46%
Sn 189.927†	-244.6	-0.0180	mg/L	0.00105	-0.0180	mg/L	0.00105	5.83%
Sr 407.771†	34183.3	0.0292	mg/L	0.00018	0.0292	mg/L	0.00018	0.62%
Ti 337.279†	-589.6	0.0022	mg/L	0.00011	0.0022	mg/L	0.00011	4.95%
Tl 190.801†	8.1	0.0031	mg/L	0.00087	0.0031	mg/L	0.00087	28.02%
V 292.402†	77.9	0.0027	mg/L	0.00020	0.0027	mg/L	0.00020	7.45%
Zn 213.857†	4301.4	0.0269	mg/L	0.00028	0.0269	mg/L	0.00028	1.04%

Sequence No.: 85

Sample ID: 1306397-04

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 54

Date Collected: 6/25/2013 8:51:23 PM

Data Type: Reprocessed on 6/26/2013 10:57:11 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306397-04

Repl#	Analyte	Net		Calib.	Sample		Analysis Time
		Intensity	Corrected Intensity		Conc.	Units	
1	Y 371.029	3205641.0	3205641.0	0.948	mg/L		20:53:35
1	Ag 328.068†	753.3	57.7	0.0009	mg/L	0.0009	20:53:37
1	Al 237.313†	-414.2	-49.4	0.0026	mg/L	0.0026	20:53:47
1	As 188.979†	-1.9	-3.1	0.0008	mg/L	0.0008	20:53:47
1	B 249.677†	-5.1	9.9	0.0066	mg/L	0.0066	20:53:18
1	B 182.528†	-8.7	-2.2	0.0021	mg/L	0.0021	20:53:47
1	Ba 233.527†	830.4	963.6	0.0079	mg/L	0.0079	20:53:47
1	Be 313.107†	-1421.9	-67.0	0.0002	mg/L	0.0002	20:53:37
1	Ca 315.887†	1746744.6	1843106.0	16.50	mg/L	16.50	20:53:35
1	Cd 228.802†	141.3	1.5	0.0015	mg/L	0.0015	20:53:47
1	Co 228.616†	-156.3	13.1	-0.0019	mg/L	-0.0019	20:53:47
1	Cr 267.716†	520.1	-162.2	-0.0007	mg/L	-0.0007	20:53:37
1	Cu 324.752†	6044.7	2419.0	0.0116	mg/L	0.0116	20:53:37
1	Fe 234.349†	102.3	109.6	0.0377	mg/L	0.0377	20:53:18
1	K 766.490†	2848.9	2259.8	1.108	mg/L	1.108	20:53:08
1	Li 670.784†	-418.5	-168.8	-0.0021	mg/L	-0.0021	20:53:08
1	Mg 279.077†	9734.5	9979.7	0.6460	mg/L	0.6460	20:53:37
1	Mn 257.610†	16658.8	1516.8	0.0016	mg/L	0.0016	20:53:47
1	Mn 294.920†	-828.1	-232.8	-0.0007	mg/L	-0.0007	20:53:37
1	Mo 202.031†	52.4	65.7	0.0052	mg/L	0.0052	20:53:47
1	Na 589.592†	91522.4	92307.3	12.46	mg/L	12.46	20:53:08
1	Ni 231.604†	178.3	10.9	-0.0003	mg/L	-0.0003	20:53:47
1	P 214.914†	-38.2	5.7	0.0514	mg/L	0.0514	20:53:47
1	Pb 220.353†	178.7	5.4	0.0022	mg/L	0.0022	20:53:47

1	Sb 206.836†	40.1	-2.5	0.0034 mg/L	0.0034 mg/L	20:53:47
1	Se 196.026†	7.9	-8.5	-0.0003 mg/L	-0.0003 mg/L	20:53:47
1	Sn 189.927†	-195.2	-243.3	-0.0181 mg/L	-0.0181 mg/L	20:53:47
1	Sr 407.771†	32315.1	33838.9	0.0289 mg/L	0.0289 mg/L	20:53:08
1	Ti 337.279†	-1770.6	-569.6	0.0022 mg/L	0.0022 mg/L	20:53:37
1	Tl 190.801†	1.1	8.3	0.0033 mg/L	0.0033 mg/L	20:53:47
1	V 292.402†	-847.7	7.8	0.0024 mg/L	0.0024 mg/L	20:53:37
1	Zn 213.857†	5033.4	4439.6	0.0277 mg/L	0.0277 mg/L	20:53:47
2	Y 371.029	3149731.7	3149731.7	0.932 mg/L		20:53:49
2	Ag 328.068†	627.6	-63.1	0.0003 mg/L	0.0003 mg/L	20:53:52
2	Al 237.313†	-324.3	39.3	0.0107 mg/L	0.0107 mg/L	20:54:02
2	As 188.979†	-4.1	-5.5	-0.0007 mg/L	-0.0007 mg/L	20:54:02
2	B 249.677†	-6.2	8.5	0.0060 mg/L	0.0060 mg/L	20:53:31
2	B 182.528†	-5.1	1.5	0.0051 mg/L	0.0051 mg/L	20:54:02
2	Ba 233.527†	820.7	968.7	0.0079 mg/L	0.0079 mg/L	20:54:02
2	Be 313.107†	-1474.8	-150.4	0.0002 mg/L	0.0002 mg/L	20:53:52
2	Ca 315.887†	1724047.5	1851444.5	16.58 mg/L	16.58 mg/L	20:53:49
2	Cd 228.802†	137.1	-0.3	0.0015 mg/L	0.0015 mg/L	20:54:02
2	Co 228.616†	-157.6	8.8	-0.0019 mg/L	-0.0019 mg/L	20:54:02
2	Cr 267.716†	568.6	-100.4	-0.0003 mg/L	-0.0003 mg/L	20:53:52
2	Cu 324.752†	6116.5	2609.2	0.0125 mg/L	0.0125 mg/L	20:53:52
2	Fe 234.349†	93.0	101.5	0.0336 mg/L	0.0336 mg/L	20:53:31
2	K 766.490†	2837.8	2301.2	1.126 mg/L	1.126 mg/L	20:53:21
2	Li 670.784†	-386.2	-142.0	-0.0014 mg/L	-0.0014 mg/L	20:53:21
2	Mg 279.077†	9821.0	10254.7	0.6639 mg/L	0.6639 mg/L	20:53:52
2	Mn 257.610†	16646.1	1815.0	0.0019 mg/L	0.0019 mg/L	20:54:02
2	Mn 294.920†	-598.1	-1.4	-0.0002 mg/L	-0.0002 mg/L	20:53:52
2	Mo 202.031†	41.3	54.7	0.0048 mg/L	0.0048 mg/L	20:54:02
2	Na 589.592†	90986.2	93445.2	12.61 mg/L	12.61 mg/L	20:53:21
2	Ni 231.604†	158.9	-6.6	-0.0006 mg/L	-0.0006 mg/L	20:54:02
2	P 214.914†	-39.3	3.8	0.0504 mg/L	0.0504 mg/L	20:54:02
2	Pb 220.353†	105.4	-70.0	-0.0022 mg/L	-0.0022 mg/L	20:54:02
2	Sb 206.836†	35.7	-6.5	0.0017 mg/L	0.0017 mg/L	20:54:02
2	Se 196.026†	9.4	-6.8	0.0007 mg/L	0.0007 mg/L	20:54:02
2	Sn 189.927†	-185.6	-236.7	-0.0172 mg/L	-0.0172 mg/L	20:54:02
2	Sr 407.771†	32006.6	34112.8	0.0292 mg/L	0.0292 mg/L	20:53:21
2	Ti 337.279†	-1656.1	-479.9	0.0023 mg/L	0.0023 mg/L	20:53:52
2	Tl 190.801†	-0.5	6.6	0.0020 mg/L	0.0020 mg/L	20:54:02
2	V 292.402†	-867.6	-29.5	0.0022 mg/L	0.0022 mg/L	20:53:52
2	Zn 213.857†	5024.1	4523.9	0.0283 mg/L	0.0283 mg/L	20:54:02

Mean Data: 1306397-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3177686.4	0.940	mg/L	0.0117				1.24%
Ag 328.068†	-2.7	0.0006	mg/L	0.00041	0.0006	mg/L	0.00041	64.17%
Al 237.313†	-5.0	0.0066	mg/L	0.00575	0.0066	mg/L	0.00575	86.73%
As 188.979†	-4.3	0.0000	mg/L	0.00104	0.0000	mg/L	0.00104	>999.9%
B 249.677†	9.2	0.0063	mg/L	0.00039	0.0063	mg/L	0.00039	6.30%
B 182.528†	-0.4	0.0036	mg/L	0.00216	0.0036	mg/L	0.00216	60.20%
Ba 233.527†	966.2	0.0079	mg/L	0.00003	0.0079	mg/L	0.00003	0.35%
Be 313.107†	-108.7	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.85%
Ca 315.887†	1847275.3	16.54	mg/L	0.053	16.54	mg/L	0.053	0.32%
Cd 228.802†	0.6	0.0015	mg/L	0.00003	0.0015	mg/L	0.00003	2.25%
Co 228.616†	10.9	-0.0019	mg/L	0.00005	-0.0019	mg/L	0.00005	2.59%
Cr 267.716†	-131.3	-0.0005	mg/L	0.00033	-0.0005	mg/L	0.00033	67.83%
Cu 324.752†	2514.1	0.0121	mg/L	0.00057	0.0121	mg/L	0.00057	4.77%
Fe 234.349†	105.5	0.0357	mg/L	0.00293	0.0357	mg/L	0.00293	8.23%
K 766.490†	2280.5	1.117	mg/L	0.0125	1.117	mg/L	0.0125	1.12%
Li 670.784†	-155.4	-0.0018	mg/L	0.00045	-0.0018	mg/L	0.00045	25.44%
Mg 279.077†	10117.2	0.6550	mg/L	0.01263	0.6550	mg/L	0.01263	1.93%
Mn 257.610†	1665.9	0.0017	mg/L	0.00023	0.0017	mg/L	0.00023	13.27%
Mn 294.920†	-117.1	-0.0004	mg/L	0.00035	-0.0004	mg/L	0.00035	82.70%
Mo 202.031†	60.2	0.0050	mg/L	0.00030	0.0050	mg/L	0.00030	5.94%
Na 589.592†	92876.2	12.53	mg/L	0.108	12.53	mg/L	0.108	0.86%
Ni 231.604†	2.1	-0.0005	mg/L	0.00023	-0.0005	mg/L	0.00023	48.04%
P 214.914†	4.8	0.0509	mg/L	0.00071	0.0509	mg/L	0.00071	1.40%
Pb 220.353†	-32.3	0.0000	mg/L	0.00312	0.0000	mg/L	0.00312	>999.9%
Sb 206.836†	-4.5	0.0025	mg/L	0.00116	0.0025	mg/L	0.00116	45.64%
Se 196.026†	-7.6	0.0002	mg/L	0.00067	0.0002	mg/L	0.00067	314.57%
Sn 189.927†	-240.0	-0.0177	mg/L	0.00061	-0.0177	mg/L	0.00061	3.44%
Sr 407.771†	33975.8	0.0291	mg/L	0.00016	0.0291	mg/L	0.00016	0.56%

Ti 337.279†	-524.8	0.0022 mg/L	0.00006	0.0022 mg/L	0.00006	2.89%
Tl 190.801†	7.4	0.0027 mg/L	0.00091	0.0027 mg/L	0.00091	34.10%
V 292.402†	-10.9	0.0023 mg/L	0.00011	0.0023 mg/L	0.00011	4.59%
Zn 213.857†	4481.7	0.0280 mg/L	0.00037	0.0280 mg/L	0.00037	1.31%

Sequence No.: 86
Sample ID: 1306397-05
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 6/25/2013 8:55:44 PM
Data Type: Reprocessed on 6/26/2013 10:57:11 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3297369.3	3297369.3	0.975 mg/L		20:57:50
1	Ag 328.068†	749.0	31.2	0.0008 mg/L	0.0008 mg/L	20:57:52
1	Al 237.313†	-419.8	-43.1	0.0031 mg/L	0.0031 mg/L	20:58:02
1	As 188.979†	0.9	-0.1	0.0026 mg/L	0.0026 mg/L	20:58:02
1	B 249.677†	0.2	15.4	0.0088 mg/L	0.0088 mg/L	20:57:33
1	B 182.528†	-7.0	-0.2	0.0037 mg/L	0.0037 mg/L	20:58:02
1	Ba 233.527†	879.0	989.1	0.0081 mg/L	0.0081 mg/L	20:58:02
1	Be 313.107†	-1412.7	-15.8	0.0002 mg/L	0.0002 mg/L	20:57:52
1	Ca 315.887†	1761097.9	1806571.4	16.18 mg/L	16.18 mg/L	20:57:50
1	Cd 228.802†	142.7	-1.2	0.0015 mg/L	0.0015 mg/L	20:58:02
1	Co 228.616†	-161.5	12.4	-0.0019 mg/L	-0.0019 mg/L	20:58:02
1	Cr 267.716†	549.6	-147.2	-0.0006 mg/L	-0.0006 mg/L	20:57:52
1	Cu 324.752†	8678.5	4942.3	0.0224 mg/L	0.0224 mg/L	20:57:52
1	Fe 234.349†	40.2	42.9	0.0052 mg/L	0.0052 mg/L	20:57:33
1	K 766.490†	2784.1	2109.8	1.044 mg/L	1.044 mg/L	20:57:23
1	Li 670.784†	-422.8	-160.9	-0.0019 mg/L	-0.0019 mg/L	20:57:23
1	Mg 279.077†	10188.9	10160.0	0.6577 mg/L	0.6577 mg/L	20:57:52
1	Mn 257.610†	16246.6	605.3	0.0006 mg/L	0.0006 mg/L	20:58:02
1	Mn 294.920†	-770.0	-149.0	-0.0005 mg/L	-0.0005 mg/L	20:57:52
1	Mo 202.031†	41.7	53.2	0.0047 mg/L	0.0047 mg/L	20:58:02
1	Na 589.592†	94963.4	93150.3	12.57 mg/L	12.57 mg/L	20:57:23
1	Ni 231.604†	175.1	2.4	-0.0005 mg/L	-0.0005 mg/L	20:58:02
1	P 214.914†	-51.0	-6.2	0.0450 mg/L	0.0450 mg/L	20:58:02
1	Pb 220.353†	99.7	-80.9	-0.0028 mg/L	-0.0028 mg/L	20:58:02
1	Sb 206.836†	41.8	-1.9	0.0036 mg/L	0.0036 mg/L	20:58:02
1	Se 196.026†	17.2	0.8	0.0049 mg/L	0.0049 mg/L	20:58:02
1	Sn 189.927†	-203.8	-246.5	-0.0187 mg/L	-0.0187 mg/L	20:58:02
1	Sr 407.771†	32003.1	32570.8	0.0279 mg/L	0.0279 mg/L	20:57:23
1	Ti 337.279†	-1802.3	-550.2	0.0022 mg/L	0.0022 mg/L	20:57:52
1	Tl 190.801†	4.0	11.2	0.0056 mg/L	0.0056 mg/L	20:58:02
1	V 292.402†	-882.7	-3.3	0.0023 mg/L	0.0023 mg/L	20:57:52
1	Zn 213.857†	15431.6	14954.3	0.0923 mg/L	0.0923 mg/L	20:57:52
2	Y 371.029	3313408.5	3313408.5	0.980 mg/L		20:58:05
2	Ag 328.068†	717.6	-4.5	0.0006 mg/L	0.0006 mg/L	20:58:07
2	Al 237.313†	-393.3	-13.9	0.0058 mg/L	0.0058 mg/L	20:58:17
2	As 188.979†	5.2	4.3	0.0053 mg/L	0.0053 mg/L	20:58:17
2	B 249.677†	-7.2	7.9	0.0057 mg/L	0.0057 mg/L	20:57:46
2	B 182.528†	-6.6	0.3	0.0041 mg/L	0.0041 mg/L	20:58:17
2	Ba 233.527†	882.1	987.9	0.0081 mg/L	0.0081 mg/L	20:58:17
2	Be 313.107†	-1417.9	-14.1	0.0002 mg/L	0.0002 mg/L	20:58:07
2	Ca 315.887†	1773930.2	1810924.5	16.22 mg/L	16.22 mg/L	20:58:05
2	Cd 228.802†	147.7	3.3	0.0016 mg/L	0.0016 mg/L	20:58:17
2	Co 228.616†	-148.7	26.2	-0.0017 mg/L	-0.0017 mg/L	20:58:17
2	Cr 267.716†	489.0	-211.8	-0.0011 mg/L	-0.0011 mg/L	20:58:07
2	Cu 324.752†	8598.7	4817.9	0.0219 mg/L	0.0219 mg/L	20:58:07
2	Fe 234.349†	38.5	41.0	0.0042 mg/L	0.0042 mg/L	20:57:46
2	K 766.490†	2835.1	2148.0	1.061 mg/L	1.061 mg/L	20:57:36
2	Li 670.784†	-363.6	-98.4	-0.0004 mg/L	-0.0004 mg/L	20:57:36
2	Mg 279.077†	9998.7	9915.3	0.6418 mg/L	0.6418 mg/L	20:58:07
2	Mn 257.610†	16266.0	544.4	0.0005 mg/L	0.0005 mg/L	20:58:17
2	Mn 294.920†	-814.3	-190.4	-0.0006 mg/L	-0.0006 mg/L	20:58:07
2	Mo 202.031†	48.8	60.2	0.0049 mg/L	0.0049 mg/L	20:58:17
2	Na 589.592†	93365.6	91048.4	12.29 mg/L	12.29 mg/L	20:57:36
2	Ni 231.604†	174.3	0.8	-0.0005 mg/L	-0.0005 mg/L	20:58:17
2	P 214.914†	-48.5	-3.4	0.0465 mg/L	0.0465 mg/L	20:58:17
2	Pb 220.353†	120.9	-59.7	-0.0016 mg/L	-0.0016 mg/L	20:58:17

2	Sb 206.836†	32.4	-11.8	-0.0004 mg/L	-0.0004 mg/L	20:58:17
2	Se 196.026†	7.2	-9.5	-0.0008 mg/L	-0.0008 mg/L	20:58:17
2	Sn 189.927†	-207.7	-249.4	-0.0190 mg/L	-0.0190 mg/L	20:58:17
2	Sr 407.771†	31413.8	31810.6	0.0272 mg/L	0.0272 mg/L	20:57:36
2	Ti 337.279†	-1636.4	-371.9	0.0024 mg/L	0.0024 mg/L	20:58:07
2	Tl 190.801†	4.6	11.8	0.0061 mg/L	0.0061 mg/L	20:58:17
2	V 292.402†	-890.9	-7.3	0.0023 mg/L	0.0023 mg/L	20:58:07
2	Zn 213.857†	15239.2	14681.4	0.0906 mg/L	0.0906 mg/L	20:58:07

Mean Data: 1306397-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3305388.9	0.978	mg/L	0.0034			0.34%
Ag 328.068†	13.4	0.0007	mg/L	0.00012	0.0007 mg/L	0.00012	16.97%
Al 237.313†	-28.5	0.0045	mg/L	0.00189	0.0045 mg/L	0.00189	42.17%
As 188.979†	2.1	0.0039	mg/L	0.00193	0.0039 mg/L	0.00193	49.24%
B 249.677†	11.6	0.0073	mg/L	0.00217	0.0073 mg/L	0.00217	29.79%
B 182.528†	0.0	0.0039	mg/L	0.00028	0.0039 mg/L	0.00028	7.25%
Ba 233.527†	988.5	0.0081	mg/L	0.00001	0.0081 mg/L	0.00001	0.08%
Be 313.107†	-15.0	0.0002	mg/L	0.00000	0.0002 mg/L	0.00000	0.16%
Ca 315.887†	1808748.0	16.20	mg/L	0.028	16.20 mg/L	0.028	0.17%
Cd 228.802†	1.1	0.0015	mg/L	0.00008	0.0015 mg/L	0.00008	5.50%
Co 228.616†	19.3	-0.0018	mg/L	0.00016	-0.0018 mg/L	0.00016	8.84%
Cr 267.716†	-179.5	-0.0009	mg/L	0.00035	-0.0009 mg/L	0.00035	40.55%
Cu 324.752†	4880.1	0.0222	mg/L	0.00038	0.0222 mg/L	0.00038	1.70%
Fe 234.349†	41.9	0.0047	mg/L	0.00071	0.0047 mg/L	0.00071	14.99%
K 766.490†	2128.9	1.053	mg/L	0.0115	1.053 mg/L	0.0115	1.10%
Li 670.784†	-129.7	-0.0011	mg/L	0.00104	-0.0011 mg/L	0.00104	90.29%
Mg 279.077†	10037.7	0.6498	mg/L	0.01123	0.6498 mg/L	0.01123	1.73%
Mn 257.610†	574.8	0.0005	mg/L	0.00005	0.0005 mg/L	0.00005	8.43%
Mn 294.920†	-169.7	-0.0005	mg/L	0.00006	-0.0005 mg/L	0.00006	11.69%
Mo 202.031†	56.7	0.0048	mg/L	0.00019	0.0048 mg/L	0.00019	3.94%
Na 589.592†	92099.4	12.43	mg/L	0.199	12.43 mg/L	0.199	1.60%
Ni 231.604†	1.6	-0.0005	mg/L	0.00002	-0.0005 mg/L	0.00002	4.44%
P 214.914†	-4.8	0.0457	mg/L	0.00103	0.0457 mg/L	0.00103	2.26%
Pb 220.353†	-70.3	-0.0022	mg/L	0.00088	-0.0022 mg/L	0.00088	40.12%
Sb 206.836†	-6.8	0.0016	mg/L	0.00286	0.0016 mg/L	0.00286	179.82%
Se 196.026†	-4.4	0.0020	mg/L	0.00405	0.0020 mg/L	0.00405	200.55%
Sn 189.927†	-247.9	-0.0189	mg/L	0.00023	-0.0189 mg/L	0.00023	1.24%
Sr 407.771†	32190.7	0.0275	mg/L	0.00045	0.0275 mg/L	0.00045	1.65%
Ti 337.279†	-461.0	0.0023	mg/L	0.00013	0.0023 mg/L	0.00013	5.59%
Tl 190.801†	11.5	0.0058	mg/L	0.00033	0.0058 mg/L	0.00033	5.71%
V 292.402†	-5.3	0.0023	mg/L	0.00001	0.0023 mg/L	0.00001	0.41%
Zn 213.857†	14817.9	0.0915	mg/L	0.00118	0.0915 mg/L	0.00118	1.30%

Sequence No.: 87
Sample ID: CCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/25/2013 8:59:53 PM
Data Type: Reprocessed on 6/26/2013 10:57:12 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3211603.0	3211603.0	0.950	mg/L		21:01:44
1	Ag 328.068†	50791.9	52736.8	0.2540	mg/L	0.2540 mg/L	21:01:44
1	Al 237.313†	25582.7	27320.9	2.514	mg/L	2.514 mg/L	21:01:54
1	As 188.979†	774.8	814.6	0.5002	mg/L	0.5002 mg/L	21:01:54
1	B 249.677†	1155.4	1231.6	0.5059	mg/L	0.5059 mg/L	21:01:35
1	B 182.528†	569.9	607.0	0.5026	mg/L	0.5026 mg/L	21:01:54
1	Ba 233.527†	63778.8	67233.8	0.5103	mg/L	0.5103 mg/L	21:01:44
1	Be 313.107†	137181.3	145856.9	0.0515	mg/L	0.0515 mg/L	21:01:44
1	Ca 315.887†	515008.3	542917.2	4.869	mg/L	4.869 mg/L	21:01:44
1	Cd 228.802†	9434.9	9785.6	0.2632	mg/L	0.2632 mg/L	21:01:54
1	Co 228.616†	30668.8	32465.9	0.5146	mg/L	0.5146 mg/L	21:01:54
1	Cr 267.716†	62523.0	65113.2	0.4962	mg/L	0.4962 mg/L	21:01:44
1	Cu 324.752†	114212.4	116285.8	0.4984	mg/L	0.4984 mg/L	21:01:44
1	Fe 234.349†	4852.7	5110.6	2.526	mg/L	2.526 mg/L	21:01:35
1	K 766.490†	56430.6	58664.9	25.20	mg/L	25.20 mg/L	21:01:33

1	Li	670.784†	20579.6	21938.7	0.5171 mg/L	0.5171 mg/L	21:01:35
1	Mg	279.077†	72370.7	75903.8	4.928 mg/L	4.928 mg/L	21:01:44
1	Mn	257.610†	465372.8	473888.9	0.5091 mg/L	0.5091 mg/L	21:01:44
1	Mn	294.920†	224200.1	236677.9	0.5047 mg/L	0.5047 mg/L	21:01:44
1	Mo	202.031†	12687.9	13368.2	0.5018 mg/L	0.5018 mg/L	21:01:54
1	Na	589.592†	185382.5	190943.7	25.67 mg/L	25.67 mg/L	21:01:33
1	Ni	231.604†	25980.4	27175.0	0.5059 mg/L	0.5059 mg/L	21:01:44
1	P	214.914†	8864.6	9378.7	4.958 mg/L	4.958 mg/L	21:01:54
1	Pb	220.353†	8385.1	8644.7	0.5086 mg/L	0.5086 mg/L	21:01:54
1	Sb	206.836†	1216.3	1235.7	0.5097 mg/L	0.5097 mg/L	21:01:54
1	Se	196.026†	1710.4	1783.8	0.9920 mg/L	0.9920 mg/L	21:01:54
1	Sn	189.927†	3982.4	4155.2	0.5149 mg/L	0.5149 mg/L	21:01:54
1	Sr	407.771†	56136.0	58854.2	0.0501 mg/L	0.0501 mg/L	21:01:33
1	Ti	337.279†	461297.8	486951.0	0.5019 mg/L	0.5019 mg/L	21:01:44
1	Tl	190.801†	611.8	651.2	0.4867 mg/L	0.4867 mg/L	21:01:54
1	V	292.402†	121884.5	129221.6	0.5154 mg/L	0.5154 mg/L	21:01:44
1	Zn	213.857†	79303.1	82620.6	0.5037 mg/L	0.5037 mg/L	21:01:44
2	Y	371.029	3241180.8	3241180.8	0.959 mg/L		21:01:58
2	Ag	328.068†	50942.4	52405.8	0.2524 mg/L	0.2524 mg/L	21:01:58
2	Al	237.313†	25595.7	27088.6	2.492 mg/L	2.492 mg/L	21:02:08
2	As	188.979†	763.0	794.9	0.4881 mg/L	0.4881 mg/L	21:02:08
2	B	249.677†	1129.6	1193.6	0.4904 mg/L	0.4904 mg/L	21:01:39
2	B	182.528†	573.3	605.0	0.5009 mg/L	0.5009 mg/L	21:02:08
2	Ba	233.527†	63868.1	66714.3	0.5064 mg/L	0.5064 mg/L	21:01:58
2	Be	313.107†	137503.1	144874.6	0.0512 mg/L	0.0512 mg/L	21:01:58
2	Ca	315.887†	516360.0	539379.4	4.838 mg/L	4.838 mg/L	21:01:58
2	Cd	228.802†	9458.8	9719.9	0.2614 mg/L	0.2614 mg/L	21:02:08
2	Co	228.616†	30703.3	32207.3	0.5105 mg/L	0.5105 mg/L	21:02:08
2	Cr	267.716†	62565.4	64556.7	0.4919 mg/L	0.4919 mg/L	21:01:58
2	Cu	324.752†	113894.0	114856.3	0.4922 mg/L	0.4922 mg/L	21:01:58
2	Fe	234.349†	4780.6	4988.7	2.465 mg/L	2.465 mg/L	21:01:39
2	K	766.490†	55326.6	56971.0	24.47 mg/L	24.47 mg/L	21:01:37
2	Li	670.784†	20446.9	21602.6	0.5092 mg/L	0.5092 mg/L	21:01:39
2	Mg	279.077†	72648.3	75498.1	4.901 mg/L	4.901 mg/L	21:01:58
2	Mn	257.610†	466792.9	470899.4	0.5059 mg/L	0.5059 mg/L	21:01:58
2	Mn	294.920†	224860.6	235212.9	0.5015 mg/L	0.5015 mg/L	21:01:58
2	Mo	202.031†	12715.7	13275.3	0.4984 mg/L	0.4984 mg/L	21:02:08
2	Na	589.592†	181552.9	185167.7	24.90 mg/L	24.90 mg/L	21:01:37
2	Ni	231.604†	26098.3	27048.3	0.5035 mg/L	0.5035 mg/L	21:01:58
2	P	214.914†	8881.4	9311.0	4.922 mg/L	4.922 mg/L	21:02:08
2	Pb	220.353†	8394.9	8574.3	0.5044 mg/L	0.5044 mg/L	21:02:08
2	Sb	206.836†	1206.3	1213.6	0.5007 mg/L	0.5007 mg/L	21:02:08
2	Se	196.026†	1715.6	1772.9	0.9859 mg/L	0.9859 mg/L	21:02:08
2	Sn	189.927†	3960.9	4094.5	0.5074 mg/L	0.5074 mg/L	21:02:08
2	Sr	407.771†	54808.2	56929.7	0.0485 mg/L	0.0485 mg/L	21:01:37
2	Ti	337.279†	461757.6	482998.7	0.4979 mg/L	0.4979 mg/L	21:01:58
2	Tl	190.801†	612.3	645.9	0.4827 mg/L	0.4827 mg/L	21:02:08
2	V	292.402†	122035.6	128208.1	0.5113 mg/L	0.5113 mg/L	21:01:58
2	Zn	213.857†	79712.4	82285.7	0.5017 mg/L	0.5017 mg/L	21:01:58

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3226391.9	0.954 mg/L	0.0062			0.65%
Ag 328.068†	52571.3	0.2532 mg/L	0.00113	0.2532 mg/L	0.00113	0.44%
QC value within limits for Ag 328.068		Recovery = 101.28%				
Al 237.313†	27204.7	2.503 mg/L	0.0151	2.503 mg/L	0.0151	0.60%
QC value within limits for Al 237.313		Recovery = 100.12%				
As 188.979†	804.8	0.4941 mg/L	0.00852	0.4941 mg/L	0.00852	1.73%
QC value within limits for As 188.979		Recovery = 98.83%				
B 249.677†	1212.6	0.4981 mg/L	0.01097	0.4981 mg/L	0.01097	2.20%
QC value within limits for B 249.677		Recovery = 99.63%				
B 182.528†	606.0	0.5018 mg/L	0.00116	0.5018 mg/L	0.00116	0.23%
QC value within limits for B 182.528		Recovery = 100.35%				
Ba 233.527†	66974.1	0.5083 mg/L	0.00279	0.5083 mg/L	0.00279	0.55%
QC value within limits for Ba 233.527		Recovery = 101.66%				
Be 313.107†	145365.7	0.0514 mg/L	0.00024	0.0514 mg/L	0.00024	0.48%
QC value within limits for Be 313.107		Recovery = 102.71%				
Ca 315.887†	541148.3	4.853 mg/L	0.0224	4.853 mg/L	0.0224	0.46%
QC value within limits for Ca 315.887		Recovery = 97.07%				
Cd 228.802†	9752.7	0.2623 mg/L	0.00124	0.2623 mg/L	0.00124	0.47%
QC value within limits for Cd 228.802		Recovery = 104.92%				

Co	228.616†	32336.6	0.5126 mg/L	0.00291	0.5126 mg/L	0.00291	0.57%
	QC value within limits for Co 228.616 Recovery = 102.51%						
Cr	267.716†	64835.0	0.4941 mg/L	0.00299	0.4941 mg/L	0.00299	0.61%
	QC value within limits for Cr 267.716 Recovery = 98.81%						
Cu	324.752†	115571.0	0.4953 mg/L	0.00432	0.4953 mg/L	0.00432	0.87%
	QC value within limits for Cu 324.752 Recovery = 99.06%						
Fe	234.349†	5049.7	2.495 mg/L	0.0426	2.495 mg/L	0.0426	1.71%
	QC value within limits for Fe 234.349 Recovery = 99.82%						
K	766.490†	57817.9	24.83 mg/L	0.511	24.83 mg/L	0.511	2.06%
	QC value within limits for K 766.490 Recovery = 99.33%						
Li	670.784†	21770.6	0.5131 mg/L	0.00558	0.5131 mg/L	0.00558	1.09%
	QC value within limits for Li 670.784 Recovery = 102.62%						
Mg	279.077†	75701.0	4.914 mg/L	0.0186	4.914 mg/L	0.0186	0.38%
	QC value within limits for Mg 279.077 Recovery = 98.29%						
Mn	257.610†	472394.1	0.5075 mg/L	0.00226	0.5075 mg/L	0.00226	0.45%
	QC value within limits for Mn 257.610 Recovery = 101.51%						
Mn	294.920†	235945.4	0.5031 mg/L	0.00221	0.5031 mg/L	0.00221	0.44%
	QC value within limits for Mn 294.920 Recovery = 100.62%						
Mo	202.031†	13321.8	0.5001 mg/L	0.00244	0.5001 mg/L	0.00244	0.49%
	QC value within limits for Mo 202.031 Recovery = 100.02%						
Na	589.592†	188055.7	25.28 mg/L	0.547	25.28 mg/L	0.547	2.16%
	QC value within limits for Na 589.592 Recovery = 101.14%						
Ni	231.604†	27111.7	0.5047 mg/L	0.00167	0.5047 mg/L	0.00167	0.33%
	QC value within limits for Ni 231.604 Recovery = 100.94%						
P	214.914†	9344.8	4.940 mg/L	0.0250	4.940 mg/L	0.0250	0.51%
	QC value within limits for P 214.914 Recovery = 98.80%						
Pb	220.353†	8609.5	0.5065 mg/L	0.00291	0.5065 mg/L	0.00291	0.58%
	QC value within limits for Pb 220.353 Recovery = 101.30%						
Sb	206.836†	1224.6	0.5052 mg/L	0.00636	0.5052 mg/L	0.00636	1.26%
	QC value within limits for Sb 206.836 Recovery = 101.03%						
Se	196.026†	1778.3	0.9890 mg/L	0.00428	0.9890 mg/L	0.00428	0.43%
	QC value within limits for Se 196.026 Recovery = 98.90%						
Sn	189.927†	4124.8	0.5111 mg/L	0.00528	0.5111 mg/L	0.00528	1.03%
	QC value within limits for Sn 189.927 Recovery = 102.23%						
Sr	407.771†	57891.9	0.0493 mg/L	0.00115	0.0493 mg/L	0.00115	2.34%
	QC value within limits for Sr 407.771 Recovery = 98.61%						
Ti	337.279†	484974.8	0.4999 mg/L	0.00286	0.4999 mg/L	0.00286	0.57%
	QC value within limits for Ti 337.279 Recovery = 99.98%						
Tl	190.801†	648.6	0.4847 mg/L	0.00279	0.4847 mg/L	0.00279	0.58%
	QC value within limits for Tl 190.801 Recovery = 96.94%						
V	292.402†	128714.8	0.5133 mg/L	0.00284	0.5133 mg/L	0.00284	0.55%
	QC value within limits for V 292.402 Recovery = 102.67%						
Zn	213.857†	82453.2	0.5027 mg/L	0.00144	0.5027 mg/L	0.00144	0.29%
	QC value within limits for Zn 213.857 Recovery = 100.55%						

All analyte(s) passed QC.

Sequence No.: 88	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 6/25/2013 9:03:47 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:57:12 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3283560.9	3283560.9	0.971 mg/L		21:05:52
1	Ag 328.068†	657.0	-60.3	0.0004 mg/L	0.0004 mg/L	21:05:55
1	Al 237.313†	-424.6	-49.8	0.0025 mg/L	0.0025 mg/L	21:05:55
1	As 188.979†	2.3	1.3	0.0034 mg/L	0.0034 mg/L	21:06:05
1	B 249.677†	-12.6	2.2	0.0034 mg/L	0.0034 mg/L	21:05:36
1	B 182.528†	-2.5	4.4	0.0075 mg/L	0.0075 mg/L	21:06:05
1	Ba 233.527†	-40.2	46.3	0.0009 mg/L	0.0009 mg/L	21:06:05
1	Be 313.107†	-1379.1	12.7	0.0002 mg/L	0.0002 mg/L	21:05:55
1	Ca 315.887†	-1378.3	-701.4	0.0020 mg/L	0.0020 mg/L	21:05:55
1	Cd 228.802†	152.4	9.5	0.0018 mg/L	0.0018 mg/L	21:06:05
1	Co 228.616†	-172.2	0.6	-0.0021 mg/L	-0.0021 mg/L	21:06:05
1	Cr 267.716†	564.7	-129.3	-0.0005 mg/L	-0.0005 mg/L	21:05:55
1	Cu 324.752†	3830.6	-12.2	0.0013 mg/L	0.0013 mg/L	21:05:55
1	Fe 234.349†	-16.0	-14.8	0.0033 mg/L	0.0033 mg/L	21:05:36
1	K 766.490†	718.1	-5.7	0.1410 mg/L	0.1410 mg/L	21:05:26

1	Li	670.784†	-209.0	57.4	0.0032	mg/L	0.0032	mg/L	21:05:26
1	Mg	279.077†	285.0	5.6	-0.0016	mg/L	-0.0016	mg/L	21:05:55
1	Mn	257.610†	15792.2	207.5	0.0002	mg/L	0.0002	mg/L	21:05:55
1	Mn	294.920†	-825.2	-209.1	-0.0006	mg/L	-0.0006	mg/L	21:05:55
1	Mo	202.031†	-36.3	-27.0	0.0018	mg/L	0.0018	mg/L	21:06:05
1	Na	589.592†	4343.0	245.6	0.1200	mg/L	0.1200	mg/L	21:05:26
1	Ni	231.604†	185.7	14.1	-0.0003	mg/L	-0.0003	mg/L	21:05:55
1	P	214.914†	-47.7	-3.1	0.0469	mg/L	0.0469	mg/L	21:06:05
1	Pb	220.353†	134.8	-44.3	-0.0007	mg/L	-0.0007	mg/L	21:06:05
1	Sb	206.836†	38.7	-5.0	0.0023	mg/L	0.0023	mg/L	21:06:05
1	Se	196.026†	21.8	5.6	0.0075	mg/L	0.0075	mg/L	21:06:05
1	Sn	189.927†	61.4	25.8	0.0047	mg/L	0.0047	mg/L	21:06:05
1	Sr	407.771†	251.9	13.7	0.0003	mg/L	0.0003	mg/L	21:05:26
1	Ti	337.279†	-1777.0	-531.9	0.0022	mg/L	0.0022	mg/L	21:05:55
1	Tl	190.801†	-5.3	1.6	0.0009	mg/L	0.0009	mg/L	21:06:05
1	V	292.402†	-911.4	-36.6	0.0022	mg/L	0.0022	mg/L	21:05:55
1	Zn	213.857†	887.1	44.1	0.0008	mg/L	0.0008	mg/L	21:06:05
2	Y	371.029	3266951.9	3266951.9	0.966	mg/L			21:06:07
2	Ag	328.068†	837.9	130.4	0.0013	mg/L	0.0013	mg/L	21:06:09
2	Al	237.313†	-526.8	-157.7	-0.0074	mg/L	-0.0074	mg/L	21:06:09
2	As	188.979†	-3.4	-4.5	-0.0001	mg/L	-0.0001	mg/L	21:06:20
2	B	249.677†	-13.0	1.7	0.0032	mg/L	0.0032	mg/L	21:05:49
2	B	182.528†	-0.3	6.6	0.0093	mg/L	0.0093	mg/L	21:06:20
2	Ba	233.527†	-75.2	9.9	0.0007	mg/L	0.0007	mg/L	21:06:20
2	Be	313.107†	-1387.4	-3.1	0.0002	mg/L	0.0002	mg/L	21:06:09
2	Ca	315.887†	-1311.1	-639.0	0.0026	mg/L	0.0026	mg/L	21:06:09
2	Cd	228.802†	147.2	4.9	0.0016	mg/L	0.0016	mg/L	21:06:20
2	Co	228.616†	-143.1	29.8	-0.0016	mg/L	-0.0016	mg/L	21:06:20
2	Cr	267.716†	546.7	-145.0	-0.0006	mg/L	-0.0006	mg/L	21:06:09
2	Cu	324.752†	3827.9	5.1	0.0013	mg/L	0.0013	mg/L	21:06:09
2	Fe	234.349†	-3.0	-1.5	0.0099	mg/L	0.0099	mg/L	21:05:49
2	K	766.490†	793.3	75.9	0.1759	mg/L	0.1759	mg/L	21:05:39
2	Li	670.784†	-171.7	94.9	0.0041	mg/L	0.0041	mg/L	21:05:39
2	Mg	279.077†	278.1	-0.0	-0.0020	mg/L	-0.0020	mg/L	21:06:09
2	Mn	257.610†	15806.3	304.7	0.0003	mg/L	0.0003	mg/L	21:06:09
2	Mn	294.920†	-924.7	-316.4	-0.0008	mg/L	-0.0008	mg/L	21:06:09
2	Mo	202.031†	-10.1	-0.0	0.0028	mg/L	0.0028	mg/L	21:06:20
2	Na	589.592†	4162.3	81.3	0.0980	mg/L	0.0980	mg/L	21:05:39
2	Ni	231.604†	168.0	-3.3	-0.0006	mg/L	-0.0006	mg/L	21:06:09
2	P	214.914†	-42.0	2.6	0.0498	mg/L	0.0498	mg/L	21:06:20
2	Pb	220.353†	159.5	-18.0	0.0009	mg/L	0.0009	mg/L	21:06:20
2	Sb	206.836†	33.4	-10.3	0.0002	mg/L	0.0002	mg/L	21:06:20
2	Se	196.026†	13.1	-3.3	0.0026	mg/L	0.0026	mg/L	21:06:20
2	Sn	189.927†	41.7	5.7	0.0023	mg/L	0.0023	mg/L	21:06:20
2	Sr	407.771†	174.8	-64.7	0.0002	mg/L	0.0002	mg/L	21:05:39
2	Ti	337.279†	-1466.9	-220.3	0.0026	mg/L	0.0026	mg/L	21:06:09
2	Tl	190.801†	-9.8	-3.0	-0.0026	mg/L	-0.0026	mg/L	21:06:20
2	V	292.402†	-958.3	-90.0	0.0020	mg/L	0.0020	mg/L	21:06:09
2	Zn	213.857†	876.3	37.5	0.0007	mg/L	0.0007	mg/L	21:06:20

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3275256.4	0.969 mg/L	0.0035			0.36%
Ag 328.068†	35.1	0.0008 mg/L	0.00065	0.0008 mg/L	0.00065	79.05%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-103.7	-0.0024 mg/L	0.00700	-0.0024 mg/L	0.00700	289.61%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-1.6	0.0016 mg/L	0.00252	0.0016 mg/L	0.00252	153.08%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.0	0.0033 mg/L	0.00015	0.0033 mg/L	0.00015	4.36%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	5.5	0.0084 mg/L	0.00129	0.0084 mg/L	0.00129	15.38%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	28.1	0.0008 mg/L	0.00020	0.0008 mg/L	0.00020	24.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.8	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.86%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-670.2	0.0023 mg/L	0.00039	0.0023 mg/L	0.00039	17.07%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	7.2	0.0017 mg/L	0.00009	0.0017 mg/L	0.00009	5.06%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						

1	Li	670.784†	-221.7	46.8	0.0030	mg/L	0.0030	mg/L	21:09:35
1	Mg	279.077†	11017.4	10930.4	0.7078	mg/L	0.7078	mg/L	21:10:03
1	Mn	257.610†	16333.7	577.2	0.0006	mg/L	0.0006	mg/L	21:10:14
1	Mn	294.920†	-748.0	-121.0	-0.0004	mg/L	-0.0004	mg/L	21:10:03
1	Mo	202.031†	55.0	66.5	0.0051	mg/L	0.0051	mg/L	21:10:14
1	Na	589.592†	92809.1	90274.3	12.18	mg/L	12.18	mg/L	21:09:35
1	Ni	231.604†	165.0	-9.1	-0.0007	mg/L	-0.0007	mg/L	21:10:14
1	P	214.914†	-41.9	3.4	0.0500	mg/L	0.0500	mg/L	21:10:14
1	Pb	220.353†	390.7	214.7	0.0145	mg/L	0.0145	mg/L	21:10:14
1	Sb	206.836†	43.8	-0.2	0.0043	mg/L	0.0043	mg/L	21:10:14
1	Se	196.026†	4.0	-12.8	-0.0027	mg/L	-0.0027	mg/L	21:10:14
1	Sn	189.927†	-180.7	-221.5	-0.0156	mg/L	-0.0156	mg/L	21:10:14
1	Sr	407.771†	31280.5	31605.0	0.0271	mg/L	0.0271	mg/L	21:09:35
1	Ti	337.279†	-1806.4	-541.4	0.0022	mg/L	0.0022	mg/L	21:10:03
1	Tl	190.801†	2.3	9.5	0.0043	mg/L	0.0043	mg/L	21:10:14
1	V	292.402†	-910.2	-24.9	0.0023	mg/L	0.0023	mg/L	21:10:03
1	Zn	213.857†	4759.3	3976.7	0.0249	mg/L	0.0249	mg/L	21:10:14
2	Y	371.029	3274988.2	3274988.2	0.969	mg/L			21:10:16
2	Ag	328.068†	675.0	-39.9	0.0005	mg/L	0.0005	mg/L	21:10:18
2	Al	237.313†	-459.7	-87.2	-0.0009	mg/L	-0.0009	mg/L	21:10:28
2	As	188.979†	1.8	0.8	0.0031	mg/L	0.0031	mg/L	21:10:28
2	B	249.677†	-2.9	12.2	0.0075	mg/L	0.0075	mg/L	21:09:57
2	B	182.528†	-1.2	5.8	0.0086	mg/L	0.0086	mg/L	21:10:28
2	Ba	233.527†	1030.9	1152.1	0.0093	mg/L	0.0093	mg/L	21:10:28
2	Be	313.107†	-1419.3	-32.6	0.0002	mg/L	0.0002	mg/L	21:10:18
2	Ca	315.887†	1751532.3	1809036.8	16.20	mg/L	16.20	mg/L	21:10:16
2	Cd	228.802†	151.7	9.2	0.0017	mg/L	0.0017	mg/L	21:10:28
2	Co	228.616†	-155.9	17.0	-0.0018	mg/L	-0.0018	mg/L	21:10:28
2	Cr	267.716†	486.1	-209.0	-0.0011	mg/L	-0.0011	mg/L	21:10:18
2	Cu	324.752†	9217.9	5560.1	0.0251	mg/L	0.0251	mg/L	21:10:18
2	Fe	234.349†	49.2	52.4	0.0099	mg/L	0.0099	mg/L	21:09:57
2	K	766.490†	2927.9	2277.8	1.116	mg/L	1.116	mg/L	21:09:47
2	Li	670.784†	-296.7	-33.7	0.0011	mg/L	0.0011	mg/L	21:09:47
2	Mg	279.077†	10746.8	10807.3	0.6998	mg/L	0.6998	mg/L	21:10:18
2	Mn	257.610†	16298.8	773.0	0.0008	mg/L	0.0008	mg/L	21:10:28
2	Mn	294.920†	-643.0	-23.2	-0.0002	mg/L	-0.0002	mg/L	21:10:18
2	Mo	202.031†	47.7	59.7	0.0049	mg/L	0.0049	mg/L	21:10:28
2	Na	589.592†	93218.5	92014.2	12.42	mg/L	12.42	mg/L	21:09:47
2	Ni	231.604†	179.9	8.5	-0.0004	mg/L	-0.0004	mg/L	21:10:28
2	P	214.914†	-55.1	-10.8	0.0426	mg/L	0.0426	mg/L	21:10:28
2	Pb	220.353†	439.2	270.3	0.0177	mg/L	0.0177	mg/L	21:10:28
2	Sb	206.836†	37.0	-6.6	0.0017	mg/L	0.0017	mg/L	21:10:28
2	Se	196.026†	0.1	-16.7	-0.0048	mg/L	-0.0048	mg/L	21:10:28
2	Sn	189.927†	-195.3	-239.1	-0.0178	mg/L	-0.0178	mg/L	21:10:28
2	Sr	407.771†	31630.9	32410.8	0.0277	mg/L	0.0277	mg/L	21:09:47
2	Ti	337.279†	-1835.4	-597.0	0.0022	mg/L	0.0022	mg/L	21:10:18
2	Tl	190.801†	-0.8	6.3	0.0019	mg/L	0.0019	mg/L	21:10:28
2	V	292.402†	-803.5	72.4	0.0026	mg/L	0.0026	mg/L	21:10:18
2	Zn	213.857†	4672.6	3954.6	0.0247	mg/L	0.0247	mg/L	21:10:28

Mean Data: 1306397-06

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3297815.2	0.975	mg/L	0.0095				0.98%
Ag 328.068†	-27.9	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	15.61%
Al 237.313†	-30.1	0.0043	mg/L	0.00740	0.0043	mg/L	0.00740	170.89%
As 188.979†	-0.4	0.0024	mg/L	0.00103	0.0024	mg/L	0.00103	42.74%
B 249.677†	12.2	0.0075	mg/L	0.00005	0.0075	mg/L	0.00005	0.69%
B 182.528†	4.6	0.0077	mg/L	0.00136	0.0077	mg/L	0.00136	17.83%
Ba 233.527†	1132.5	0.0092	mg/L	0.00021	0.0092	mg/L	0.00021	2.28%
Be 313.107†	7.6	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	9.26%
Ca 315.887†	1811985.5	16.23	mg/L	0.037	16.23	mg/L	0.037	0.23%
Cd 228.802†	3.7	0.0016	mg/L	0.00021	0.0016	mg/L	0.00021	13.05%
Co 228.616†	1.1	-0.0021	mg/L	0.00036	-0.0021	mg/L	0.00036	17.44%
Cr 267.716†	-226.4	-0.0012	mg/L	0.00019	-0.0012	mg/L	0.00019	15.44%
Cu 324.752†	5523.7	0.0249	mg/L	0.00022	0.0249	mg/L	0.00022	0.88%
Fe 234.349†	46.0	0.0067	mg/L	0.00456	0.0067	mg/L	0.00456	68.10%
K 766.490†	2147.3	1.060	mg/L	0.0788	1.060	mg/L	0.0788	7.43%
Li 670.784†	6.6	0.0021	mg/L	0.00134	0.0021	mg/L	0.00134	65.19%
Mg 279.077†	10868.9	0.7038	mg/L	0.00565	0.7038	mg/L	0.00565	0.80%
Mn 257.610†	675.1	0.0007	mg/L	0.00015	0.0007	mg/L	0.00015	22.58%
Mn 294.920†	-72.1	-0.0003	mg/L	0.00015	-0.0003	mg/L	0.00015	45.24%

Mo 202.031†	63.1	0.0050 mg/L	0.00018	0.0050 mg/L	0.00018	3.62%
Na 589.592†	91144.3	12.30 mg/L	0.165	12.30 mg/L	0.165	1.34%
Ni 231.604†	-0.3	-0.0005 mg/L	0.00023	-0.0005 mg/L	0.00023	44.27%
P 214.914†	-3.7	0.0463 mg/L	0.00526	0.0463 mg/L	0.00526	11.36%
Pb 220.353†	242.5	0.0161 mg/L	0.00230	0.0161 mg/L	0.00230	14.28%
Sb 206.836†	-3.4	0.0030 mg/L	0.00184	0.0030 mg/L	0.00184	61.45%
Se 196.026†	-14.8	-0.0037 mg/L	0.00152	-0.0037 mg/L	0.00152	40.63%
Sn 189.927†	-230.3	-0.0167 mg/L	0.00155	-0.0167 mg/L	0.00155	9.29%
Sr 407.771†	32007.9	0.0274 mg/L	0.00048	0.0274 mg/L	0.00048	1.76%
Ti 337.279†	-569.2	0.0022 mg/L	0.00004	0.0022 mg/L	0.00004	1.83%
Tl 190.801†	7.9	0.0031 mg/L	0.00171	0.0031 mg/L	0.00171	55.71%
V 292.402†	23.7	0.0024 mg/L	0.00027	0.0024 mg/L	0.00027	10.92%
Zn 213.857†	3965.7	0.0248 mg/L	0.00010	0.0248 mg/L	0.00010	0.39%

Sequence No.: 90
Sample ID: 1306397-07
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 57
Date Collected: 6/25/2013 9:12:05 PM
Data Type: Reprocessed on 6/26/2013 10:57:14 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	Y 371.029	3286316.2	3286316.2	0.972 mg/L			21:14:10
1	Ag 328.068†	763.8	49.0	0.0009 mg/L	0.0009 mg/L		21:14:12
1	Al 237.313†	-386.2	-10.0	0.0062 mg/L	0.0062 mg/L		21:14:22
1	As 188.979†	4.3	3.4	0.0047 mg/L	0.0047 mg/L		21:14:22
1	B 249.677†	15.7	31.4	0.0153 mg/L	0.0153 mg/L		21:13:53
1	B 182.528†	3.8	10.9	0.0128 mg/L	0.0128 mg/L		21:14:22
1	Ba 233.527†	1004.1	1120.8	0.0091 mg/L	0.0091 mg/L		21:14:22
1	Be 313.107†	-1353.0	40.7	0.0002 mg/L	0.0002 mg/L		21:14:12
1	Ca 315.887†	1744944.2	1796025.1	16.08 mg/L	16.08 mg/L		21:14:10
1	Cd 228.802†	157.9	15.0	0.0019 mg/L	0.0019 mg/L		21:14:22
1	Co 228.616†	-160.8	12.5	-0.0019 mg/L	-0.0019 mg/L		21:14:22
1	Cr 267.716†	497.4	-199.1	-0.0010 mg/L	-0.0010 mg/L		21:14:12
1	Cu 324.752†	7763.0	4030.4	0.0185 mg/L	0.0185 mg/L		21:14:12
1	Fe 234.349†	47.2	50.2	0.0090 mg/L	0.0090 mg/L		21:13:53
1	K 766.490†	2735.0	2068.9	1.027 mg/L	1.027 mg/L		21:13:43
1	Li 670.784†	-130.3	138.6	0.0051 mg/L	0.0051 mg/L		21:13:43
1	Mg 279.077†	10636.2	10655.3	0.6899 mg/L	0.6899 mg/L		21:14:12
1	Mn 257.610†	16085.0	495.0	0.0005 mg/L	0.0005 mg/L		21:14:22
1	Mn 294.920†	-786.6	-168.7	-0.0005 mg/L	-0.0005 mg/L		21:14:12
1	Mo 202.031†	67.1	79.4	0.0057 mg/L	0.0057 mg/L		21:14:22
1	Na 589.592†	93023.4	91481.8	12.34 mg/L	12.34 mg/L		21:13:43
1	Ni 231.604†	264.4	94.9	0.0012 mg/L	0.0012 mg/L		21:14:22
1	P 214.914†	-42.7	2.1	0.0494 mg/L	0.0494 mg/L		21:14:22
1	Pb 220.353†	159.5	-19.0	0.0008 mg/L	0.0008 mg/L		21:14:22
1	Sb 206.836†	45.6	2.1	0.0053 mg/L	0.0053 mg/L		21:14:22
1	Se 196.026†	6.3	-10.4	-0.0013 mg/L	-0.0013 mg/L		21:14:22
1	Sn 189.927†	-168.1	-210.4	-0.0143 mg/L	-0.0143 mg/L		21:14:22
1	Sr 407.771†	31962.9	32639.8	0.0279 mg/L	0.0279 mg/L		21:13:43
1	Ti 337.279†	-1968.2	-727.1	0.0020 mg/L	0.0020 mg/L		21:14:12
1	Tl 190.801†	9.6	17.0	0.0100 mg/L	0.0100 mg/L		21:14:22
1	V 292.402†	-868.0	8.8	0.0024 mg/L	0.0024 mg/L		21:14:12
1	Zn 213.857†	13113.6	12622.7	0.0780 mg/L	0.0780 mg/L		21:14:12
2	Y 371.029	3279263.6	3279263.6	0.970 mg/L			21:14:25
2	Ag 328.068†	660.4	-55.9	0.0004 mg/L	0.0004 mg/L		21:14:27
2	Al 237.313†	-431.4	-57.3	0.0018 mg/L	0.0018 mg/L		21:14:37
2	As 188.979†	-1.9	-3.0	0.0008 mg/L	0.0008 mg/L		21:14:37
2	B 249.677†	11.9	27.5	0.0137 mg/L	0.0137 mg/L		21:14:06
2	B 182.528†	1.7	8.7	0.0111 mg/L	0.0111 mg/L		21:14:37
2	Ba 233.527†	961.8	1079.4	0.0088 mg/L	0.0088 mg/L		21:14:37
2	Be 313.107†	-1335.9	55.4	0.0002 mg/L	0.0002 mg/L		21:14:27
2	Ca 315.887†	1748910.4	1803975.7	16.15 mg/L	16.15 mg/L		21:14:25
2	Cd 228.802†	143.4	0.4	0.0015 mg/L	0.0015 mg/L		21:14:37
2	Co 228.616†	-153.6	19.6	-0.0018 mg/L	-0.0018 mg/L		21:14:37
2	Cr 267.716†	510.8	-184.2	-0.0009 mg/L	-0.0009 mg/L		21:14:27
2	Cu 324.752†	7743.0	4027.0	0.0185 mg/L	0.0185 mg/L		21:14:27
2	Fe 234.349†	38.8	41.6	0.0046 mg/L	0.0046 mg/L		21:14:06
2	K 766.490†	2790.4	2132.1	1.054 mg/L	1.054 mg/L		21:13:56

2	Li	670.784†	-225.8	39.8	0.0028	mg/L	0.0028	mg/L	21:13:56
2	Mg	279.077†	10680.3	10724.3	0.6944	mg/L	0.6944	mg/L	21:14:27
2	Mn	257.610†	16050.0	494.5	0.0005	mg/L	0.0005	mg/L	21:14:37
2	Mn	294.920†	-980.7	-370.6	-0.0010	mg/L	-0.0010	mg/L	21:14:27
2	Mo	202.031†	26.1	37.3	0.0041	mg/L	0.0041	mg/L	21:14:37
2	Na	589.592†	92999.0	91662.5	12.37	mg/L	12.37	mg/L	21:13:56
2	Ni	231.604†	267.7	98.9	0.0013	mg/L	0.0013	mg/L	21:14:37
2	P	214.914†	-36.7	8.2	0.0526	mg/L	0.0526	mg/L	21:14:37
2	Pb	220.353†	130.2	-48.8	-0.0009	mg/L	-0.0009	mg/L	21:14:37
2	Sb	206.836†	32.1	-11.7	-0.0004	mg/L	-0.0004	mg/L	21:14:37
2	Se	196.026†	7.0	-9.6	-0.0009	mg/L	-0.0009	mg/L	21:14:37
2	Sn	189.927†	-163.1	-205.6	-0.0137	mg/L	-0.0137	mg/L	21:14:37
2	Sr	407.771†	31965.6	32713.3	0.0280	mg/L	0.0280	mg/L	21:13:56
2	Ti	337.279†	-1859.1	-619.0	0.0021	mg/L	0.0021	mg/L	21:14:27
2	Tl	190.801†	-0.3	6.8	0.0023	mg/L	0.0023	mg/L	21:14:37
2	V	292.402†	-780.9	96.7	0.0027	mg/L	0.0027	mg/L	21:14:27
2	Zn	213.857†	13242.7	12784.8	0.0790	mg/L	0.0790	mg/L	21:14:27

Mean Data: 1306397-07

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3282789.9	0.971	mg/L	0.0015				0.15%
Ag 328.068†	-3.4	0.0006	mg/L	0.00036	0.0006	mg/L	0.00036	56.09%
Al 237.313†	-33.6	0.0040	mg/L	0.00307	0.0040	mg/L	0.00307	76.60%
As 188.979†	0.2	0.0028	mg/L	0.00273	0.0028	mg/L	0.00273	99.02%
B 249.677†	29.4	0.0145	mg/L	0.00111	0.0145	mg/L	0.00111	7.67%
B 182.528†	9.8	0.0120	mg/L	0.00126	0.0120	mg/L	0.00126	10.57%
Ba 233.527†	1100.1	0.0089	mg/L	0.00022	0.0089	mg/L	0.00022	2.48%
Be 313.107†	48.0	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.58%
Ca 315.887†	1800000.4	16.12	mg/L	0.050	16.12	mg/L	0.050	0.31%
Cd 228.802†	7.7	0.0017	mg/L	0.00028	0.0017	mg/L	0.00028	16.18%
Co 228.616†	16.0	-0.0018	mg/L	0.00008	-0.0018	mg/L	0.00008	4.34%
Cr 267.716†	-191.6	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.35%
Cu 324.752†	4028.7	0.0185	mg/L	0.00001	0.0185	mg/L	0.00001	0.05%
Fe 234.349†	45.9	0.0068	mg/L	0.00309	0.0068	mg/L	0.00309	45.28%
K 766.490†	2100.5	1.040	mg/L	0.0191	1.040	mg/L	0.0191	1.83%
Li 670.784†	89.2	0.0040	mg/L	0.00164	0.0040	mg/L	0.00164	41.08%
Mg 279.077†	10689.8	0.6921	mg/L	0.00317	0.6921	mg/L	0.00317	0.46%
Mn 257.610†	494.8	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.06%
Mn 294.920†	-269.6	-0.0007	mg/L	0.00030	-0.0007	mg/L	0.00030	40.75%
Mo 202.031†	58.4	0.0049	mg/L	0.00112	0.0049	mg/L	0.00112	22.94%
Na 589.592†	91572.2	12.36	mg/L	0.017	12.36	mg/L	0.017	0.14%
Ni 231.604†	96.9	0.0013	mg/L	0.00005	0.0013	mg/L	0.00005	3.92%
P 214.914†	5.2	0.0510	mg/L	0.00227	0.0510	mg/L	0.00227	4.45%
Pb 220.353†	-33.9	-0.0001	mg/L	0.00124	-0.0001	mg/L	0.00124	>999.9%
Sb 206.836†	-4.8	0.0024	mg/L	0.00401	0.0024	mg/L	0.00401	164.82%
Se 196.026†	-10.0	-0.0011	mg/L	0.00030	-0.0011	mg/L	0.00030	27.05%
Sn 189.927†	-208.0	-0.0140	mg/L	0.00045	-0.0140	mg/L	0.00045	3.19%
Sr 407.771†	32676.6	0.0280	mg/L	0.00004	0.0280	mg/L	0.00004	0.16%
Ti 337.279†	-673.1	0.0021	mg/L	0.00008	0.0021	mg/L	0.00008	3.74%
Tl 190.801†	11.9	0.0062	mg/L	0.00545	0.0062	mg/L	0.00545	88.35%
V 292.402†	52.7	0.0025	mg/L	0.00023	0.0025	mg/L	0.00023	8.98%
Zn 213.857†	12703.7	0.0785	mg/L	0.00070	0.0785	mg/L	0.00070	0.90%

Sequence No.: 91

Sample ID: 1306397-08

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 6/25/2013 9:16:13 PM

Data Type: Reprocessed on 6/26/2013 10:57:14 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306397-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3221578.5	3221578.5	0.953	mg/L			21:18:19
1	Ag 328.068†	674.5	-28.9	0.0005	mg/L	0.0005	mg/L	21:18:21
1	Al 237.313†	-393.8	-25.8	0.0047	mg/L	0.0047	mg/L	21:18:31
1	As 188.979†	3.8	3.0	0.0045	mg/L	0.0045	mg/L	21:18:31
1	B 249.677†	7.4	22.9	0.0119	mg/L	0.0119	mg/L	21:18:02
1	B 182.528†	-5.7	1.0	0.0047	mg/L	0.0047	mg/L	21:18:31

1	Ba	233.527†	930.2	1064.0	0.0087	mg/L	0.0087	mg/L	21:18:31
1	Be	313.107†	-1424.6	-62.4	0.0002	mg/L	0.0002	mg/L	21:18:21
1	Ca	315.887†	1741921.7	1828929.7	16.38	mg/L	16.38	mg/L	21:18:19
1	Cd	228.802†	138.4	-2.2	0.0014	mg/L	0.0014	mg/L	21:18:31
1	Co	228.616†	-172.8	-3.4	-0.0021	mg/L	-0.0021	mg/L	21:18:31
1	Cr	267.716†	510.6	-174.9	-0.0008	mg/L	-0.0008	mg/L	21:18:21
1	Cu	324.752†	8059.1	4501.6	0.0205	mg/L	0.0205	mg/L	21:18:21
1	Fe	234.349†	43.6	47.4	0.0072	mg/L	0.0072	mg/L	21:18:02
1	K	766.490†	2706.2	2095.1	1.038	mg/L	1.038	mg/L	21:17:52
1	Li	670.784†	-294.6	-36.6	0.0010	mg/L	0.0010	mg/L	21:17:52
1	Mg	279.077†	9926.1	10130.0	0.6558	mg/L	0.6558	mg/L	21:18:21
1	Mn	257.610†	16094.7	837.7	0.0008	mg/L	0.0008	mg/L	21:18:31
1	Mn	294.920†	-749.0	-145.5	-0.0005	mg/L	-0.0005	mg/L	21:18:21
1	Mo	202.031†	49.3	62.1	0.0050	mg/L	0.0050	mg/L	21:18:31
1	Na	589.592†	91380.9	91681.2	12.37	mg/L	12.37	mg/L	21:17:52
1	Ni	231.604†	155.2	-14.2	-0.0008	mg/L	-0.0008	mg/L	21:18:31
1	P	214.914†	-45.6	-1.8	0.0473	mg/L	0.0473	mg/L	21:18:31
1	Pb	220.353†	108.8	-68.9	-0.0021	mg/L	-0.0021	mg/L	21:18:31
1	Sb	206.836†	33.6	-9.5	0.0005	mg/L	0.0005	mg/L	21:18:31
1	Se	196.026†	3.7	-13.0	-0.0028	mg/L	-0.0028	mg/L	21:18:31
1	Sn	189.927†	-193.0	-240.1	-0.0178	mg/L	-0.0178	mg/L	21:18:31
1	Sr	407.771†	31390.7	32700.1	0.0280	mg/L	0.0280	mg/L	21:17:52
1	Ti	337.279†	-1688.6	-474.4	0.0023	mg/L	0.0023	mg/L	21:18:21
1	Tl	190.801†	-4.6	2.3	-0.0011	mg/L	-0.0011	mg/L	21:18:31
1	V	292.402†	-883.3	-25.2	0.0022	mg/L	0.0022	mg/L	21:18:21
1	Zn	213.857†	7865.4	7385.6	0.0458	mg/L	0.0458	mg/L	21:18:31
2	Y	371.029	3207419.9	3207419.9	0.949	mg/L			21:18:33
2	Ag	328.068†	676.1	-24.0	0.0005	mg/L	0.0005	mg/L	21:18:36
2	Al	237.313†	-404.2	-38.6	0.0036	mg/L	0.0036	mg/L	21:18:46
2	As	188.979†	2.4	1.5	0.0035	mg/L	0.0035	mg/L	21:18:46
2	B	249.677†	-3.2	11.8	0.0073	mg/L	0.0073	mg/L	21:18:15
2	B	182.528†	-4.6	2.1	0.0056	mg/L	0.0056	mg/L	21:18:46
2	Ba	233.527†	929.9	1068.1	0.0087	mg/L	0.0087	mg/L	21:18:46
2	Be	313.107†	-1446.9	-92.5	0.0002	mg/L	0.0002	mg/L	21:18:36
2	Ca	315.887†	1735402.7	1830127.9	16.39	mg/L	16.39	mg/L	21:18:33
2	Cd	228.802†	151.9	12.7	0.0018	mg/L	0.0018	mg/L	21:18:46
2	Co	228.616†	-167.0	1.8	-0.0020	mg/L	-0.0020	mg/L	21:18:46
2	Cr	267.716†	514.9	-168.0	-0.0008	mg/L	-0.0008	mg/L	21:18:36
2	Cu	324.752†	8054.5	4534.1	0.0207	mg/L	0.0207	mg/L	21:18:36
2	Fe	234.349†	48.7	53.0	0.0099	mg/L	0.0099	mg/L	21:18:15
2	K	766.490†	2716.4	2118.4	1.048	mg/L	1.048	mg/L	21:18:05
2	Li	670.784†	-341.7	-87.6	-0.0002	mg/L	-0.0002	mg/L	21:18:05
2	Mg	279.077†	9855.5	10101.5	0.6539	mg/L	0.6539	mg/L	21:18:36
2	Mn	257.610†	16179.5	1001.7	0.0010	mg/L	0.0010	mg/L	21:18:46
2	Mn	294.920†	-806.6	-209.7	-0.0006	mg/L	-0.0006	mg/L	21:18:36
2	Mo	202.031†	25.5	37.3	0.0041	mg/L	0.0041	mg/L	21:18:46
2	Na	589.592†	90891.8	91588.9	12.36	mg/L	12.36	mg/L	21:18:05
2	Ni	231.604†	161.4	-7.0	-0.0007	mg/L	-0.0007	mg/L	21:18:46
2	P	214.914†	-43.8	-0.1	0.0482	mg/L	0.0482	mg/L	21:18:46
2	Pb	220.353†	139.7	-35.9	-0.0002	mg/L	-0.0002	mg/L	21:18:46
2	Sb	206.836†	39.5	-3.2	0.0031	mg/L	0.0031	mg/L	21:18:46
2	Se	196.026†	9.9	-6.4	0.0009	mg/L	0.0009	mg/L	21:18:46
2	Sn	189.927†	-219.9	-269.3	-0.0214	mg/L	-0.0214	mg/L	21:18:46
2	Sr	407.771†	31261.8	32709.6	0.0280	mg/L	0.0280	mg/L	21:18:05
2	Ti	337.279†	-1827.4	-628.5	0.0021	mg/L	0.0021	mg/L	21:18:36
2	Tl	190.801†	9.0	16.6	0.0097	mg/L	0.0097	mg/L	21:18:46
2	V	292.402†	-831.1	25.7	0.0024	mg/L	0.0024	mg/L	21:18:36
2	Zn	213.857†	7867.8	7424.5	0.0461	mg/L	0.0461	mg/L	21:18:46

Mean Data: 1306397-08

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3214499.2	0.951	mg/L	0.0030				0.31%
Ag 328.068†	-26.5	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.14%
Al 237.313†	-32.2	0.0041	mg/L	0.00083	0.0041	mg/L	0.00083	20.03%
As 188.979†	2.2	0.0040	mg/L	0.00064	0.0040	mg/L	0.00064	16.05%
B 249.677†	17.4	0.0096	mg/L	0.00321	0.0096	mg/L	0.00321	33.36%
B 182.528†	1.6	0.0052	mg/L	0.00063	0.0052	mg/L	0.00063	12.14%
Ba 233.527†	1066.1	0.0087	mg/L	0.00002	0.0087	mg/L	0.00002	0.25%
Be 313.107†	-77.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	4.02%
Ca 315.887†	1829528.8	16.38	mg/L	0.008	16.38	mg/L	0.008	0.05%
Cd 228.802†	5.2	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028	17.15%

Co 228.616†	-0.8	-0.0021 mg/L	0.00006	-0.0021 mg/L	0.00006	2.83%
Cr 267.716†	-171.5	-0.0008 mg/L	0.00004	-0.0008 mg/L	0.00004	4.62%
Cu 324.752†	4517.8	0.0206 mg/L	0.00010	0.0206 mg/L	0.00010	0.48%
Fe 234.349†	50.2	0.0085 mg/L	0.00193	0.0085 mg/L	0.00193	22.67%
K 766.490†	2106.8	1.043 mg/L	0.0070	1.043 mg/L	0.0070	0.67%
Li 670.784†	-62.1	0.0004 mg/L	0.00085	0.0004 mg/L	0.00085	192.98%
Mg 279.077†	10115.7	0.6549 mg/L	0.00130	0.6549 mg/L	0.00130	0.20%
Mn 257.610†	919.7	0.0009 mg/L	0.00012	0.0009 mg/L	0.00012	13.55%
Mn 294.920†	-177.6	-0.0006 mg/L	0.00010	-0.0006 mg/L	0.00010	17.57%
Mo 202.031†	49.7	0.0045 mg/L	0.00066	0.0045 mg/L	0.00066	14.61%
Na 589.592†	91635.1	12.37 mg/L	0.009	12.37 mg/L	0.009	0.07%
Ni 231.604†	-10.6	-0.0007 mg/L	0.00009	-0.0007 mg/L	0.00009	12.99%
P 214.914†	-1.0	0.0478 mg/L	0.00062	0.0478 mg/L	0.00062	1.30%
Pb 220.353†	-52.4	-0.0011 mg/L	0.00136	-0.0011 mg/L	0.00136	120.05%
Sb 206.836†	-6.4	0.0018 mg/L	0.00181	0.0018 mg/L	0.00181	101.60%
Se 196.026†	-9.7	-0.0009 mg/L	0.00259	-0.0009 mg/L	0.00259	279.46%
Sn 189.927†	-254.7	-0.0196 mg/L	0.00253	-0.0196 mg/L	0.00253	12.94%
Sr 407.771†	32704.9	0.0280 mg/L	0.00001	0.0280 mg/L	0.00001	0.02%
Ti 337.279†	-551.4	0.0022 mg/L	0.00011	0.0022 mg/L	0.00011	5.03%
Tl 190.801†	9.5	0.0043 mg/L	0.00763	0.0043 mg/L	0.00763	178.84%
V 292.402†	0.3	0.0023 mg/L	0.00013	0.0023 mg/L	0.00013	5.63%
Zn 213.857†	7405.1	0.0459 mg/L	0.00017	0.0459 mg/L	0.00017	0.37%

Sequence No.: 92
Sample ID: 1306397-09
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 6/25/2013 9:20:23 PM
Data Type: Reprocessed on 6/26/2013 10:57:15 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3246860.8	3246860.8	0.960 mg/L		21:22:30
1	Ag 328.068†	644.1	-66.0	0.0003 mg/L	0.0003 mg/L	21:22:32
1	Al 237.313†	-410.6	-40.2	0.0034 mg/L	0.0034 mg/L	21:22:42
1	As 188.979†	-0.2	-1.3	0.0019 mg/L	0.0019 mg/L	21:22:42
1	B 249.677†	-13.4	1.2	0.0030 mg/L	0.0030 mg/L	21:22:13
1	B 182.528†	-4.0	2.8	0.0062 mg/L	0.0062 mg/L	21:22:42
1	Ba 233.527†	845.0	967.7	0.0079 mg/L	0.0079 mg/L	21:22:42
1	Be 313.107†	-1399.2	-24.4	0.0002 mg/L	0.0002 mg/L	21:22:32
1	Ca 315.887†	1750194.8	1823309.3	16.33 mg/L	16.33 mg/L	21:22:30
1	Cd 228.802†	142.5	0.9	0.0015 mg/L	0.0015 mg/L	21:22:42
1	Co 228.616†	-163.1	8.0	-0.0019 mg/L	-0.0019 mg/L	21:22:42
1	Cr 267.716†	524.5	-164.6	-0.0007 mg/L	-0.0007 mg/L	21:22:32
1	Cu 324.752†	9482.2	5917.7	0.0266 mg/L	0.0266 mg/L	21:22:32
1	Fe 234.349†	95.6	101.3	0.0339 mg/L	0.0339 mg/L	21:22:13
1	K 766.490†	2633.4	1997.3	0.9963 mg/L	0.9963 mg/L	21:22:03
1	Li 670.784†	-434.3	-179.6	-0.0023 mg/L	-0.0023 mg/L	21:22:03
1	Mg 279.077†	9726.7	9841.2	0.6370 mg/L	0.6370 mg/L	21:22:32
1	Mn 257.610†	17990.6	2680.6	0.0028 mg/L	0.0028 mg/L	21:22:42
1	Mn 294.920†	42.4	684.8	0.0013 mg/L	0.0013 mg/L	21:22:32
1	Mo 202.031†	62.4	75.4	0.0055 mg/L	0.0055 mg/L	21:22:42
1	Na 589.592†	91382.0	90935.5	12.27 mg/L	12.27 mg/L	21:22:03
1	Ni 231.604†	175.5	5.6	-0.0004 mg/L	-0.0004 mg/L	21:22:42
1	P 214.914†	-52.8	-9.0	0.0435 mg/L	0.0435 mg/L	21:22:42
1	Pb 220.353†	142.4	-34.8	-0.0001 mg/L	-0.0001 mg/L	21:22:42
1	Sb 206.836†	41.7	-1.4	0.0038 mg/L	0.0038 mg/L	21:22:42
1	Se 196.026†	8.4	-8.1	0.0000 mg/L	0.0000 mg/L	21:22:42
1	Sn 189.927†	-211.5	-257.7	-0.0200 mg/L	-0.0200 mg/L	21:22:42
1	Sr 407.771†	31327.9	32378.2	0.0277 mg/L	0.0277 mg/L	21:22:03
1	Ti 337.279†	-1889.2	-669.4	0.0021 mg/L	0.0021 mg/L	21:22:32
1	Tl 190.801†	1.0	8.2	0.0033 mg/L	0.0033 mg/L	21:22:42
1	V 292.402†	-880.0	-14.5	0.0023 mg/L	0.0023 mg/L	21:22:32
1	Zn 213.857†	4199.7	3504.1	0.0220 mg/L	0.0220 mg/L	21:22:42
2	Y 371.029	3214766.8	3214766.8	0.951 mg/L		21:22:44
2	Ag 328.068†	605.2	-100.2	0.0002 mg/L	0.0002 mg/L	21:22:47
2	Al 237.313†	-411.7	-45.5	0.0029 mg/L	0.0029 mg/L	21:22:57
2	As 188.979†	2.9	2.0	0.0039 mg/L	0.0039 mg/L	21:22:57
2	B 249.677†	2.7	18.0	0.0099 mg/L	0.0099 mg/L	21:22:26
2	B 182.528†	-6.7	-0.1	0.0038 mg/L	0.0038 mg/L	21:22:57

2	Ba 233.527†	814.7	944.6	0.0078	mg/L	0.0078	mg/L	21:22:57
2	Be 313.107†	-1507.5	-152.8	0.0002	mg/L	0.0002	mg/L	21:22:47
2	Ca 315.887†	1740859.2	1831685.9	16.40	mg/L	16.40	mg/L	21:22:44
2	Cd 228.802†	144.8	4.8	0.0016	mg/L	0.0016	mg/L	21:22:57
2	Co 228.616†	-165.2	4.2	-0.0020	mg/L	-0.0020	mg/L	21:22:57
2	Cr 267.716†	524.8	-158.9	-0.0007	mg/L	-0.0007	mg/L	21:22:47
2	Cu 324.752†	9407.3	5937.5	0.0267	mg/L	0.0267	mg/L	21:22:47
2	Fe 234.349†	112.9	120.4	0.0433	mg/L	0.0433	mg/L	21:22:26
2	K 766.490†	2724.2	2120.1	1.049	mg/L	1.049	mg/L	21:22:16
2	Li 670.784†	-299.6	-42.5	0.0009	mg/L	0.0009	mg/L	21:22:16
2	Mg 279.077†	9674.6	9887.6	0.6400	mg/L	0.6400	mg/L	21:22:47
2	Mn 257.610†	17942.6	2817.1	0.0030	mg/L	0.0030	mg/L	21:22:57
2	Mn 294.920†	142.6	790.5	0.0015	mg/L	0.0015	mg/L	21:22:47
2	Mo 202.031†	63.4	77.1	0.0055	mg/L	0.0055	mg/L	21:22:57
2	Na 589.592†	90792.4	91265.4	12.32	mg/L	12.32	mg/L	21:22:16
2	Ni 231.604†	160.9	-7.9	-0.0007	mg/L	-0.0007	mg/L	21:22:57
2	P 214.914†	-41.4	2.5	0.0495	mg/L	0.0495	mg/L	21:22:57
2	Pb 220.353†	125.3	-51.3	-0.0011	mg/L	-0.0011	mg/L	21:22:57
2	Sb 206.836†	36.6	-6.3	0.0018	mg/L	0.0018	mg/L	21:22:57
2	Se 196.026†	8.7	-7.7	0.0002	mg/L	0.0002	mg/L	21:22:57
2	Sn 189.927†	-198.6	-246.4	-0.0185	mg/L	-0.0185	mg/L	21:22:57
2	Sr 407.771†	31088.2	32451.7	0.0278	mg/L	0.0278	mg/L	21:22:16
2	Ti 337.279†	-2060.6	-869.4	0.0019	mg/L	0.0019	mg/L	21:22:47
2	Tl 190.801†	1.6	8.8	0.0037	mg/L	0.0037	mg/L	21:22:57
2	V 292.402†	-874.2	-17.6	0.0023	mg/L	0.0023	mg/L	21:22:47
2	Zn 213.857†	4187.5	3534.8	0.0222	mg/L	0.0222	mg/L	21:22:57

Mean Data: 1306397-09

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3230813.8	0.956	mg/L	0.0067				0.70%
Ag 328.068†	-83.1	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	45.85%
Al 237.313†	-42.9	0.0032	mg/L	0.00035	0.0032	mg/L	0.00035	10.95%
As 188.979†	0.4	0.0029	mg/L	0.00142	0.0029	mg/L	0.00142	49.64%
B 249.677†	9.6	0.0064	mg/L	0.00483	0.0064	mg/L	0.00483	74.95%
B 182.528†	1.3	0.0050	mg/L	0.00166	0.0050	mg/L	0.00166	33.33%
Ba 233.527†	956.2	0.0078	mg/L	0.00012	0.0078	mg/L	0.00012	1.58%
Be 313.107†	-88.6	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	17.55%
Ca 315.887†	1827497.6	16.36	mg/L	0.053	16.36	mg/L	0.053	0.32%
Cd 228.802†	2.9	0.0016	mg/L	0.00007	0.0016	mg/L	0.00007	4.69%
Co 228.616†	6.1	-0.0020	mg/L	0.00004	-0.0020	mg/L	0.00004	2.17%
Cr 267.716†	-161.8	-0.0007	mg/L	0.00003	-0.0007	mg/L	0.00003	4.31%
Cu 324.752†	5927.6	0.0266	mg/L	0.00006	0.0266	mg/L	0.00006	0.22%
Fe 234.349†	110.8	0.0386	mg/L	0.00662	0.0386	mg/L	0.00662	17.16%
K 766.490†	2058.7	1.023	mg/L	0.0371	1.023	mg/L	0.0371	3.63%
Li 670.784†	-111.1	-0.0007	mg/L	0.00228	-0.0007	mg/L	0.00228	319.47%
Mg 279.077†	9864.4	0.6385	mg/L	0.00213	0.6385	mg/L	0.00213	0.33%
Mn 257.610†	2748.8	0.0029	mg/L	0.00010	0.0029	mg/L	0.00010	3.55%
Mn 294.920†	737.6	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.38%
Mo 202.031†	76.3	0.0055	mg/L	0.00004	0.0055	mg/L	0.00004	0.77%
Na 589.592†	91100.5	12.29	mg/L	0.031	12.29	mg/L	0.031	0.25%
Ni 231.604†	-1.2	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	32.89%
P 214.914†	-3.2	0.0465	mg/L	0.00426	0.0465	mg/L	0.00426	9.15%
Pb 220.353†	-43.1	-0.0006	mg/L	0.00068	-0.0006	mg/L	0.00068	115.57%
Sb 206.836†	-3.8	0.0028	mg/L	0.00143	0.0028	mg/L	0.00143	51.02%
Se 196.026†	-7.9	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	218.09%
Sn 189.927†	-252.1	-0.0193	mg/L	0.00102	-0.0193	mg/L	0.00102	5.28%
Sr 407.771†	32414.9	0.0277	mg/L	0.00004	0.0277	mg/L	0.00004	0.16%
Ti 337.279†	-769.4	0.0020	mg/L	0.00014	0.0020	mg/L	0.00014	7.26%
Tl 190.801†	8.5	0.0035	mg/L	0.00030	0.0035	mg/L	0.00030	8.40%
V 292.402†	-16.0	0.0023	mg/L	0.00001	0.0023	mg/L	0.00001	0.33%
Zn 213.857†	3519.4	0.0221	mg/L	0.00013	0.0221	mg/L	0.00013	0.61%

Sequence No.: 93

Sample ID: CF32533-DUP1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 6/25/2013 9:24:34 PM

Data Type: Reprocessed on 6/26/2013 10:57:15 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32533-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3234394.5	3234394.5	0.957	mg/L			21:26:39
1	Ag 328.068†	720.8	16.7	0.0007	mg/L	0.0007	mg/L	21:26:41
1	Al 237.313†	-443.3	-75.9	0.0001	mg/L	0.0001	mg/L	21:26:51
1	As 188.979†	-0.2	-1.3	0.0019	mg/L	0.0019	mg/L	21:26:51
1	B 249.677†	-12.0	2.7	0.0036	mg/L	0.0036	mg/L	21:26:23
1	B 182.528†	-10.0	-3.5	0.0010	mg/L	0.0010	mg/L	21:26:51
1	Ba 233.527†	792.2	915.9	0.0075	mg/L	0.0075	mg/L	21:26:51
1	Be 313.107†	-1286.8	87.6	0.0002	mg/L	0.0002	mg/L	21:26:41
1	Ca 315.887†	1731046.6	1810316.9	16.21	mg/L	16.21	mg/L	21:26:39
1	Cd 228.802†	137.1	-4.1	0.0014	mg/L	0.0014	mg/L	21:26:51
1	Co 228.616†	-173.7	-3.6	-0.0021	mg/L	-0.0021	mg/L	21:26:51
1	Cr 267.716†	501.5	-186.5	-0.0009	mg/L	-0.0009	mg/L	21:26:41
1	Cu 324.752†	9609.2	6088.6	0.0273	mg/L	0.0273	mg/L	21:26:41
1	Fe 234.349†	103.7	110.1	0.0385	mg/L	0.0385	mg/L	21:26:23
1	K 766.490†	2654.7	2030.1	1.010	mg/L	1.010	mg/L	21:26:13
1	Li 670.784†	-341.2	-84.1	-0.0001	mg/L	-0.0001	mg/L	21:26:13
1	Mg 279.077†	9772.3	9927.9	0.6427	mg/L	0.6427	mg/L	21:26:41
1	Mn 257.610†	17994.7	2757.1	0.0029	mg/L	0.0029	mg/L	21:26:51
1	Mn 294.920†	28.2	670.0	0.0013	mg/L	0.0013	mg/L	21:26:41
1	Mo 202.031†	59.6	72.7	0.0054	mg/L	0.0054	mg/L	21:26:51
1	Na 589.592†	91539.8	91467.2	12.34	mg/L	12.34	mg/L	21:26:13
1	Ni 231.604†	169.4	-0.1	-0.0005	mg/L	-0.0005	mg/L	21:26:51
1	P 214.914†	-34.5	10.0	0.0535	mg/L	0.0535	mg/L	21:26:51
1	Pb 220.353†	119.1	-58.6	-0.0015	mg/L	-0.0015	mg/L	21:26:51
1	Sb 206.836†	38.0	-5.0	0.0023	mg/L	0.0023	mg/L	21:26:51
1	Se 196.026†	8.6	-7.9	0.0001	mg/L	0.0001	mg/L	21:26:51
1	Sn 189.927†	-226.6	-274.3	-0.0221	mg/L	-0.0221	mg/L	21:26:51
1	Sr 407.771†	31494.8	32678.4	0.0280	mg/L	0.0280	mg/L	21:26:13
1	Ti 337.279†	-1730.0	-510.6	0.0023	mg/L	0.0023	mg/L	21:26:41
1	Tl 190.801†	-7.0	-0.2	-0.0030	mg/L	-0.0030	mg/L	21:26:51
1	V 292.402†	-956.9	-98.5	0.0020	mg/L	0.0020	mg/L	21:26:41
1	Zn 213.857†	4272.8	3597.3	0.0225	mg/L	0.0225	mg/L	21:26:51
2	Y 371.029	3250869.6	3250869.6	0.961	mg/L			21:26:54
2	Ag 328.068†	710.5	2.2	0.0007	mg/L	0.0007	mg/L	21:26:56
2	Al 237.313†	-394.5	-22.9	0.0050	mg/L	0.0050	mg/L	21:27:06
2	As 188.979†	-5.9	-7.2	-0.0018	mg/L	-0.0018	mg/L	21:27:06
2	B 249.677†	-12.3	2.4	0.0035	mg/L	0.0035	mg/L	21:26:35
2	B 182.528†	-2.9	4.0	0.0072	mg/L	0.0072	mg/L	21:27:06
2	Ba 233.527†	810.0	930.2	0.0076	mg/L	0.0076	mg/L	21:27:06
2	Be 313.107†	-1440.3	-65.3	0.0002	mg/L	0.0002	mg/L	21:26:56
2	Ca 315.887†	1736122.4	1806425.3	16.18	mg/L	16.18	mg/L	21:26:54
2	Cd 228.802†	140.1	-1.7	0.0015	mg/L	0.0015	mg/L	21:27:06
2	Co 228.616†	-153.0	18.8	-0.0018	mg/L	-0.0018	mg/L	21:27:06
2	Cr 267.716†	491.7	-199.4	-0.0010	mg/L	-0.0010	mg/L	21:26:56
2	Cu 324.752†	9617.3	6046.1	0.0271	mg/L	0.0271	mg/L	21:26:56
2	Fe 234.349†	106.0	111.9	0.0394	mg/L	0.0394	mg/L	21:26:35
2	K 766.490†	2693.3	2056.2	1.021	mg/L	1.021	mg/L	21:26:25
2	Li 670.784†	-402.1	-145.6	-0.0015	mg/L	-0.0015	mg/L	21:26:25
2	Mg 279.077†	9669.7	9769.4	0.6324	mg/L	0.6324	mg/L	21:26:56
2	Mn 257.610†	17915.4	2579.3	0.0027	mg/L	0.0027	mg/L	21:27:06
2	Mn 294.920†	-141.6	493.3	0.0009	mg/L	0.0009	mg/L	21:26:56
2	Mo 202.031†	38.7	50.7	0.0045	mg/L	0.0045	mg/L	21:27:06
2	Na 589.592†	91297.7	90730.5	12.24	mg/L	12.24	mg/L	21:26:25
2	Ni 231.604†	170.0	-0.3	-0.0005	mg/L	-0.0005	mg/L	21:27:06
2	P 214.914†	-41.7	2.7	0.0496	mg/L	0.0496	mg/L	21:27:06
2	Pb 220.353†	154.7	-22.2	0.0006	mg/L	0.0006	mg/L	21:27:06
2	Sb 206.836†	45.2	2.3	0.0053	mg/L	0.0053	mg/L	21:27:06
2	Se 196.026†	6.3	-10.3	-0.0013	mg/L	-0.0013	mg/L	21:27:06
2	Sn 189.927†	-202.6	-248.2	-0.0189	mg/L	-0.0189	mg/L	21:27:06
2	Sr 407.771†	31257.6	32264.8	0.0276	mg/L	0.0276	mg/L	21:26:25
2	Ti 337.279†	-1867.7	-644.6	0.0021	mg/L	0.0021	mg/L	21:26:56
2	Tl 190.801†	2.0	9.2	0.0041	mg/L	0.0041	mg/L	21:27:06
2	V 292.402†	-894.2	-28.2	0.0022	mg/L	0.0022	mg/L	21:26:56
2	Zn 213.857†	4271.4	3573.2	0.0224	mg/L	0.0224	mg/L	21:27:06

Mean Data: CF32533-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3242632.1	0.959 mg/L	0.0034			0.36%

Ag 328.068†	9.5	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005	7.08%
Al 237.313†	-49.4	0.0026 mg/L	0.00344	0.0026 mg/L	0.00344	134.18%
As 188.979†	-4.2	0.0001 mg/L	0.00257	0.0001 mg/L	0.00257	>999.9%
B 249.677†	2.6	0.0036 mg/L	0.00007	0.0036 mg/L	0.00007	1.96%
B 182.528†	0.2	0.0041 mg/L	0.00435	0.0041 mg/L	0.00435	106.67%
Ba 233.527†	923.0	0.0076 mg/L	0.00008	0.0076 mg/L	0.00008	1.01%
Be 313.107†	11.2	0.0002 mg/L	0.00004	0.0002 mg/L	0.00004	17.53%
Ca 315.887†	1808371.1	16.19 mg/L	0.025	16.19 mg/L	0.025	0.15%
Cd 228.802†	-2.9	0.0014 mg/L	0.00005	0.0014 mg/L	0.00005	3.21%
Co 228.616†	7.6	-0.0020 mg/L	0.00025	-0.0020 mg/L	0.00025	12.95%
Cr 267.716†	-193.0	-0.0010 mg/L	0.00007	-0.0010 mg/L	0.00007	7.27%
Cu 324.752†	6067.3	0.0272 mg/L	0.00013	0.0272 mg/L	0.00013	0.47%
Fe 234.349†	111.0	0.0389 mg/L	0.00068	0.0389 mg/L	0.00068	1.75%
K 766.490†	2043.2	1.016 mg/L	0.0079	1.016 mg/L	0.0079	0.77%
Li 670.784†	-114.8	-0.0008 mg/L	0.00102	-0.0008 mg/L	0.00102	127.64%
Mg 279.077†	9848.7	0.6375 mg/L	0.00728	0.6375 mg/L	0.00728	1.14%
Mn 257.610†	2668.2	0.0028 mg/L	0.00014	0.0028 mg/L	0.00014	4.85%
Mn 294.920†	581.7	0.0011 mg/L	0.00027	0.0011 mg/L	0.00027	24.95%
Mo 202.031†	61.7	0.0049 mg/L	0.00059	0.0049 mg/L	0.00059	11.84%
Na 589.592†	91098.9	12.29 mg/L	0.070	12.29 mg/L	0.070	0.57%
Ni 231.604†	-0.2	-0.0005 mg/L	0.00000	-0.0005 mg/L	0.00000	0.69%
P 214.914†	6.4	0.0515 mg/L	0.00272	0.0515 mg/L	0.00272	5.27%
Pb 220.353†	-40.4	-0.0004 mg/L	0.00150	-0.0004 mg/L	0.00150	343.59%
Sb 206.836†	-1.4	0.0038 mg/L	0.00211	0.0038 mg/L	0.00211	55.31%
Se 196.026†	-9.1	-0.0006 mg/L	0.00095	-0.0006 mg/L	0.00095	157.70%
Sn 189.927†	-261.3	-0.0205 mg/L	0.00225	-0.0205 mg/L	0.00225	10.99%
Sr 407.771†	32471.6	0.0278 mg/L	0.00025	0.0278 mg/L	0.00025	0.89%
Ti 337.279†	-577.6	0.0022 mg/L	0.00010	0.0022 mg/L	0.00010	4.43%
Tl 190.801†	4.5	0.0005 mg/L	0.00502	0.0005 mg/L	0.00502	945.09%
V 292.402†	-63.3	0.0021 mg/L	0.00019	0.0021 mg/L	0.00019	8.83%
Zn 213.857†	3585.3	0.0225 mg/L	0.00010	0.0225 mg/L	0.00010	0.46%

Sequence No.: 94
Sample ID: CF32533-MS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 6/25/2013 9:28:44 PM
Data Type: Reprocessed on 6/26/2013 10:57:16 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32533-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	Y 371.029	3268430.1	3268430.1	0.967 mg/L		21:30:37
1	Ag 328.068†	48354.6	49285.7	0.2374 mg/L	0.2374 mg/L	21:30:37
1	Al 237.313†	25912.8	27194.1	2.502 mg/L	2.502 mg/L	21:30:47
1	As 188.979†	789.7	815.9	0.5010 mg/L	0.5010 mg/L	21:30:47
1	B 249.677†	1110.8	1164.3	0.4785 mg/L	0.4785 mg/L	21:30:28
1	B 182.528†	566.5	593.0	0.4911 mg/L	0.4911 mg/L	21:30:47
1	Ba 233.527†	63788.0	66076.0	0.5015 mg/L	0.5015 mg/L	21:30:37
1	Be 313.107†	139017.0	145244.9	0.0513 mg/L	0.0513 mg/L	21:30:37
1	Ca 315.887†	2262901.1	2341672.4	20.97 mg/L	20.97 mg/L	21:30:37
1	Cd 228.802†	9484.7	9664.4	0.2599 mg/L	0.2599 mg/L	21:30:47
1	Co 228.616†	30410.1	31637.0	0.5015 mg/L	0.5015 mg/L	21:30:47
1	Cr 267.716†	62893.5	64352.0	0.4904 mg/L	0.4904 mg/L	21:30:37
1	Cu 324.752†	120449.2	120647.2	0.5170 mg/L	0.5170 mg/L	21:30:37
1	Fe 234.349†	4935.9	5107.8	2.498 mg/L	2.498 mg/L	21:30:28
1	K 766.490†	57822.9	59072.3	25.37 mg/L	25.37 mg/L	21:30:25
1	Li 670.784†	19919.1	20878.8	0.4922 mg/L	0.4922 mg/L	21:30:28
1	Mg 279.077†	80535.5	83025.6	5.390 mg/L	5.390 mg/L	21:30:37
1	Mn 257.610†	462929.1	462842.4	0.4973 mg/L	0.4973 mg/L	21:30:37
1	Mn 294.920†	222519.1	230834.9	0.4922 mg/L	0.4922 mg/L	21:30:37
1	Mo 202.031†	12717.7	13166.8	0.4941 mg/L	0.4941 mg/L	21:30:47
1	Na 589.592†	266661.1	271632.5	36.48 mg/L	36.48 mg/L	21:30:25
1	Ni 231.604†	26101.4	26824.6	0.4994 mg/L	0.4994 mg/L	21:30:37
1	P 214.914†	9370.2	9739.4	5.147 mg/L	5.147 mg/L	21:30:47
1	Pb 220.353†	8478.9	8588.3	0.5052 mg/L	0.5052 mg/L	21:30:47
1	Sb 206.836†	1253.3	1251.7	0.5162 mg/L	0.5162 mg/L	21:30:47
1	Se 196.026†	1844.3	1891.0	1.051 mg/L	1.051 mg/L	21:30:47
1	Sn 189.927†	3712.9	3803.5	0.4816 mg/L	0.4816 mg/L	21:30:47
1	Sr 407.771†	84506.0	87175.2	0.0741 mg/L	0.0741 mg/L	21:30:25
1	Ti 337.279†	441724.1	458258.2	0.4725 mg/L	0.4725 mg/L	21:30:37

1	Tl 190.801†	618.7	647.2	0.4812	mg/L	0.4812	mg/L	21:30:47
1	V 292.402†	123432.2	128591.5	0.5128	mg/L	0.5128	mg/L	21:30:37
1	Zn 213.857†	85493.3	87572.8	0.5342	mg/L	0.5342	mg/L	21:30:37
2	Y 371.029	3257213.9	3257213.9	0.963	mg/L			21:30:51
2	Ag 328.068†	48413.5	49519.1	0.2385	mg/L	0.2385	mg/L	21:30:51
2	Al 237.313†	25678.8	27043.4	2.488	mg/L	2.488	mg/L	21:31:01
2	As 188.979†	770.1	798.3	0.4902	mg/L	0.4902	mg/L	21:31:01
2	B 249.677†	1136.7	1195.2	0.4910	mg/L	0.4910	mg/L	21:30:32
2	B 182.528†	557.7	585.9	0.4853	mg/L	0.4853	mg/L	21:31:01
2	Ba 233.527†	63670.5	66181.2	0.5023	mg/L	0.5023	mg/L	21:30:51
2	Be 313.107†	138831.1	145547.0	0.0514	mg/L	0.0514	mg/L	21:30:51
2	Ca 315.887†	2256598.4	2343190.9	20.98	mg/L	20.98	mg/L	21:30:51
2	Cd 228.802†	9419.0	9630.0	0.2590	mg/L	0.2590	mg/L	21:31:01
2	Co 228.616†	30201.6	31528.9	0.4998	mg/L	0.4998	mg/L	21:31:01
2	Cr 267.716†	62724.8	64400.9	0.4908	mg/L	0.4908	mg/L	21:30:51
2	Cu 324.752†	120503.3	121132.4	0.5190	mg/L	0.5190	mg/L	21:30:51
2	Fe 234.349†	4950.2	5140.2	2.514	mg/L	2.514	mg/L	21:30:32
2	K 766.490†	58624.7	60110.5	25.81	mg/L	25.81	mg/L	21:30:30
2	Li 670.784†	20092.4	21129.6	0.4981	mg/L	0.4981	mg/L	21:30:32
2	Mg 279.077†	80226.4	82991.5	5.388	mg/L	5.388	mg/L	21:30:51
2	Mn 257.610†	462153.5	463686.5	0.4982	mg/L	0.4982	mg/L	21:30:51
2	Mn 294.920†	222149.4	231243.8	0.4931	mg/L	0.4931	mg/L	21:30:51
2	Mo 202.031†	12638.3	13129.7	0.4927	mg/L	0.4927	mg/L	21:31:01
2	Na 589.592†	269597.7	275630.7	37.02	mg/L	37.02	mg/L	21:30:30
2	Ni 231.604†	25933.1	26742.9	0.4978	mg/L	0.4978	mg/L	21:30:51
2	P 214.914†	9295.9	9695.7	5.124	mg/L	5.124	mg/L	21:31:01
2	Pb 220.353†	8444.3	8582.5	0.5049	mg/L	0.5049	mg/L	21:31:01
2	Sb 206.836†	1250.2	1252.9	0.5167	mg/L	0.5167	mg/L	21:31:01
2	Se 196.026†	1821.4	1873.8	1.042	mg/L	1.042	mg/L	21:31:01
2	Sn 189.927†	3680.9	3783.5	0.4792	mg/L	0.4792	mg/L	21:31:01
2	Sr 407.771†	85709.9	88725.9	0.0754	mg/L	0.0754	mg/L	21:30:30
2	Ti 337.279†	441082.8	459166.1	0.4734	mg/L	0.4734	mg/L	21:30:51
2	Tl 190.801†	622.7	653.5	0.4860	mg/L	0.4860	mg/L	21:31:01
2	V 292.402†	123357.9	128954.2	0.5142	mg/L	0.5142	mg/L	21:30:51
2	Zn 213.857†	85533.4	87918.9	0.5363	mg/L	0.5363	mg/L	21:30:51

Mean Data: CF32533-MS1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample			RSD
	Intensity	Conc.			Units	Conc.	Units	
Y 371.029	3262822.0	0.965	mg/L	0.0023				0.24%
Ag 328.068†	49402.4	0.2380	mg/L	0.00079	0.2380	mg/L	0.00079	0.33%
Al 237.313†	27118.8	2.495	mg/L	0.0098	2.495	mg/L	0.0098	0.39%
As 188.979†	807.1	0.4956	mg/L	0.00762	0.4956	mg/L	0.00762	1.54%
B 249.677†	1179.8	0.4847	mg/L	0.00890	0.4847	mg/L	0.00890	1.84%
B 182.528†	589.5	0.4882	mg/L	0.00413	0.4882	mg/L	0.00413	0.85%
Ba 233.527†	66128.6	0.5019	mg/L	0.00056	0.5019	mg/L	0.00056	0.11%
Be 313.107†	145395.9	0.0514	mg/L	0.00008	0.0514	mg/L	0.00008	0.15%
Ca 315.887†	2342431.6	20.97	mg/L	0.010	20.97	mg/L	0.010	0.05%
Cd 228.802†	9647.2	0.2595	mg/L	0.00065	0.2595	mg/L	0.00065	0.25%
Co 228.616†	31582.9	0.5006	mg/L	0.00122	0.5006	mg/L	0.00122	0.24%
Cr 267.716†	64376.5	0.4906	mg/L	0.00026	0.4906	mg/L	0.00026	0.05%
Cu 324.752†	120889.8	0.5180	mg/L	0.00147	0.5180	mg/L	0.00147	0.28%
Fe 234.349†	5124.0	2.506	mg/L	0.0114	2.506	mg/L	0.0114	0.45%
K 766.490†	59591.4	25.59	mg/L	0.314	25.59	mg/L	0.314	1.23%
Li 670.784†	21004.2	0.4951	mg/L	0.00416	0.4951	mg/L	0.00416	0.84%
Mg 279.077†	83008.5	5.389	mg/L	0.0016	5.389	mg/L	0.0016	0.03%
Mn 257.610†	463264.5	0.4977	mg/L	0.00064	0.4977	mg/L	0.00064	0.13%
Mn 294.920†	231039.4	0.4926	mg/L	0.00062	0.4926	mg/L	0.00062	0.13%
Mo 202.031†	13148.3	0.4934	mg/L	0.00100	0.4934	mg/L	0.00100	0.20%
Na 589.592†	273631.6	36.75	mg/L	0.379	36.75	mg/L	0.379	1.03%
Ni 231.604†	26783.7	0.4986	mg/L	0.00108	0.4986	mg/L	0.00108	0.22%
P 214.914†	9717.6	5.135	mg/L	0.0162	5.135	mg/L	0.0162	0.32%
Pb 220.353†	8585.4	0.5050	mg/L	0.00024	0.5050	mg/L	0.00024	0.05%
Sb 206.836†	1252.3	0.5164	mg/L	0.00034	0.5164	mg/L	0.00034	0.07%
Se 196.026†	1882.4	1.047	mg/L	0.0067	1.047	mg/L	0.0067	0.64%
Sn 189.927†	3793.5	0.4804	mg/L	0.00173	0.4804	mg/L	0.00173	0.36%
Sr 407.771†	87950.6	0.0747	mg/L	0.00093	0.0747	mg/L	0.00093	1.24%
Ti 337.279†	458712.1	0.4730	mg/L	0.00066	0.4730	mg/L	0.00066	0.14%
Tl 190.801†	650.4	0.4836	mg/L	0.00337	0.4836	mg/L	0.00337	0.70%
V 292.402†	128772.8	0.5135	mg/L	0.00099	0.5135	mg/L	0.00099	0.19%
Zn 213.857†	87745.8	0.5353	mg/L	0.00151	0.5353	mg/L	0.00151	0.28%

Sequence No.: 95
Sample ID: CF32533-SD1 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 6/25/2013 9:32:39 PM
Data Type: Reprocessed on 6/26/2013 10:57:16 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32533-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3284441.3	3284441.3	0.971 mg/L		21:34:47
1	Ag 328.068†	769.8	55.7	0.0009 mg/L	0.0009 mg/L	21:34:49
1	Al 237.313†	-432.5	-57.8	0.0018 mg/L	0.0018 mg/L	21:34:59
1	As 188.979†	5.9	5.0	0.0057 mg/L	0.0057 mg/L	21:34:59
1	B 249.677†	-10.2	4.7	0.0044 mg/L	0.0044 mg/L	21:34:30
1	B 182.528†	-1.0	6.0	0.0088 mg/L	0.0088 mg/L	21:34:59
1	Ba 233.527†	108.1	199.1	0.0021 mg/L	0.0021 mg/L	21:34:59
1	Be 313.107†	-1398.6	-7.0	0.0002 mg/L	0.0002 mg/L	21:34:49
1	Ca 315.887†	345392.4	356282.0	3.197 mg/L	3.197 mg/L	21:34:47
1	Cd 228.802†	143.4	0.2	0.0015 mg/L	0.0015 mg/L	21:34:59
1	Co 228.616†	-171.7	1.2	-0.0021 mg/L	-0.0021 mg/L	21:34:59
1	Cr 267.716†	467.5	-229.6	-0.0012 mg/L	-0.0012 mg/L	21:34:49
1	Cu 324.752†	4969.2	1158.8	0.0063 mg/L	0.0063 mg/L	21:34:49
1	Fe 234.349†	24.0	26.4	0.0184 mg/L	0.0184 mg/L	21:34:30
1	K 766.490†	1069.2	355.6	0.2953 mg/L	0.2953 mg/L	21:34:20
1	Li 670.784†	-260.2	4.7	0.0020 mg/L	0.0020 mg/L	21:34:20
1	Mg 279.077†	2139.0	1914.1	0.1223 mg/L	0.1223 mg/L	21:34:49
1	Mn 257.610†	16218.6	642.0	0.0006 mg/L	0.0006 mg/L	21:34:59
1	Mn 294.920†	-705.4	-85.6	-0.0004 mg/L	-0.0004 mg/L	21:34:49
1	Mo 202.031†	28.4	39.6	0.0042 mg/L	0.0042 mg/L	21:34:59
1	Na 589.592†	21596.1	18005.6	2.500 mg/L	2.500 mg/L	21:34:20
1	Ni 231.604†	152.8	-19.8	-0.0009 mg/L	-0.0009 mg/L	21:34:59
1	P 214.914†	-50.3	-5.7	0.0454 mg/L	0.0454 mg/L	21:34:59
1	Pb 220.353†	93.4	-86.9	-0.0032 mg/L	-0.0032 mg/L	21:34:59
1	Sb 206.836†	37.9	-5.8	0.0020 mg/L	0.0020 mg/L	21:34:59
1	Se 196.026†	5.0	-11.7	-0.0021 mg/L	-0.0021 mg/L	21:34:59
1	Sn 189.927†	-16.4	-54.4	-0.0031 mg/L	-0.0031 mg/L	21:34:59
1	Sr 407.771†	6453.9	6398.4	0.0057 mg/L	0.0057 mg/L	21:34:20
1	Ti 337.279†	-1842.1	-598.4	0.0022 mg/L	0.0022 mg/L	21:34:49
1	Tl 190.801†	-12.9	-6.2	-0.0055 mg/L	-0.0055 mg/L	21:34:59
1	V 292.402†	-976.7	-103.6	0.0019 mg/L	0.0019 mg/L	21:34:49
1	Zn 213.857†	1542.5	718.5	0.0049 mg/L	0.0049 mg/L	21:34:59
2	Y 371.029	3263258.1	3263258.1	0.965 mg/L		21:35:01
2	Ag 328.068†	778.2	69.5	0.0010 mg/L	0.0010 mg/L	21:35:04
2	Al 237.313†	-398.0	-24.9	0.0048 mg/L	0.0048 mg/L	21:35:14
2	As 188.979†	2.0	1.1	0.0033 mg/L	0.0033 mg/L	21:35:14
2	B 249.677†	-13.3	1.4	0.0031 mg/L	0.0031 mg/L	21:34:43
2	B 182.528†	-6.2	0.5	0.0043 mg/L	0.0043 mg/L	21:35:14
2	Ba 233.527†	98.5	189.8	0.0020 mg/L	0.0020 mg/L	21:35:14
2	Be 313.107†	-1318.9	66.2	0.0002 mg/L	0.0002 mg/L	21:35:04
2	Ca 315.887†	345586.2	358790.9	3.219 mg/L	3.219 mg/L	21:35:01
2	Cd 228.802†	149.6	7.5	0.0017 mg/L	0.0017 mg/L	21:35:14
2	Co 228.616†	-131.5	41.7	-0.0014 mg/L	-0.0014 mg/L	21:35:14
2	Cr 267.716†	486.4	-206.9	-0.0011 mg/L	-0.0011 mg/L	21:35:04
2	Cu 324.752†	4969.9	1192.8	0.0064 mg/L	0.0064 mg/L	21:35:04
2	Fe 234.349†	18.7	21.0	0.0157 mg/L	0.0157 mg/L	21:34:43
2	K 766.490†	1043.5	336.1	0.2870 mg/L	0.2870 mg/L	21:34:33
2	Li 670.784†	-221.0	43.6	0.0029 mg/L	0.0029 mg/L	21:34:33
2	Mg 279.077†	2192.5	1983.9	0.1268 mg/L	0.1268 mg/L	21:35:04
2	Mn 257.610†	16215.6	747.3	0.0007 mg/L	0.0007 mg/L	21:35:14
2	Mn 294.920†	-600.3	18.7	-0.0001 mg/L	-0.0001 mg/L	21:35:04
2	Mo 202.031†	13.4	24.3	0.0037 mg/L	0.0037 mg/L	21:35:14
2	Na 589.592†	21545.2	18097.2	2.512 mg/L	2.512 mg/L	21:34:33
2	Ni 231.604†	150.4	-21.3	-0.0009 mg/L	-0.0009 mg/L	21:35:14
2	P 214.914†	-55.0	-10.9	0.0427 mg/L	0.0427 mg/L	21:35:14
2	Pb 220.353†	120.9	-57.9	-0.0015 mg/L	-0.0015 mg/L	21:35:14
2	Sb 206.836†	36.5	-7.0	0.0015 mg/L	0.0015 mg/L	21:35:14
2	Se 196.026†	11.0	-5.5	0.0014 mg/L	0.0014 mg/L	21:35:14
2	Sn 189.927†	-30.9	-69.5	-0.0050 mg/L	-0.0050 mg/L	21:35:14
2	Sr 407.771†	6339.0	6322.4	0.0057 mg/L	0.0057 mg/L	21:34:33
2	Ti 337.279†	-1772.8	-538.9	0.0022 mg/L	0.0022 mg/L	21:35:04

2	Tl 190.801†	-6.4	0.5	-0.0005 mg/L	-0.0005 mg/L	21:35:14
2	V 292.402†	-1074.3	-211.3	0.0015 mg/L	0.0015 mg/L	21:35:04
2	Zn 213.857†	1527.6	713.4	0.0049 mg/L	0.0049 mg/L	21:35:14

Mean Data: CF32533-SD1 @5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3273849.7	0.968 mg/L		0.0044			0.46%
Ag 328.068†	62.6	0.0010 mg/L		0.00005	0.0010 mg/L	0.00005	4.91%
Al 237.313†	-41.3	0.0033 mg/L		0.00213	0.0033 mg/L	0.00213	64.62%
As 188.979†	3.0	0.0045 mg/L		0.00172	0.0045 mg/L	0.00172	38.21%
B 249.677†	3.0	0.0038 mg/L		0.00095	0.0038 mg/L	0.00095	25.27%
B 182.528†	3.2	0.0066 mg/L		0.00315	0.0066 mg/L	0.00315	48.01%
Ba 233.527†	194.4	0.0021 mg/L		0.00005	0.0021 mg/L	0.00005	2.41%
Be 313.107†	29.6	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	8.16%
Ca 315.887†	357536.5	3.208 mg/L		0.0159	3.208 mg/L	0.0159	0.49%
Cd 228.802†	3.8	0.0016 mg/L		0.00014	0.0016 mg/L	0.00014	8.72%
Co 228.616†	21.4	-0.0017 mg/L		0.00046	-0.0017 mg/L	0.00046	26.32%
Cr 267.716†	-218.2	-0.0012 mg/L		0.00012	-0.0012 mg/L	0.00012	10.59%
Cu 324.752†	1175.8	0.0063 mg/L		0.00010	0.0063 mg/L	0.00010	1.62%
Fe 234.349†	23.7	0.0171 mg/L		0.00191	0.0171 mg/L	0.00191	11.21%
K 766.490†	345.9	0.2911 mg/L		0.00590	0.2911 mg/L	0.00590	2.03%
Li 670.784†	24.2	0.0025 mg/L		0.00065	0.0025 mg/L	0.00065	26.20%
Mg 279.077†	1949.0	0.1246 mg/L		0.00320	0.1246 mg/L	0.00320	2.57%
Mn 257.610†	694.7	0.0007 mg/L		0.00008	0.0007 mg/L	0.00008	11.87%
Mn 294.920†	-33.5	-0.0002 mg/L		0.00016	-0.0002 mg/L	0.00016	64.58%
Mo 202.031†	32.0	0.0039 mg/L		0.00041	0.0039 mg/L	0.00041	10.28%
Na 589.592†	18051.4	2.506 mg/L		0.0087	2.506 mg/L	0.0087	0.35%
Ni 231.604†	-20.6	-0.0009 mg/L		0.00002	-0.0009 mg/L	0.00002	2.26%
P 214.914†	-8.3	0.0441 mg/L		0.00193	0.0441 mg/L	0.00193	4.38%
Pb 220.353†	-72.4	-0.0023 mg/L		0.00120	-0.0023 mg/L	0.00120	52.20%
Sb 206.836†	-6.4	0.0018 mg/L		0.00033	0.0018 mg/L	0.00033	18.80%
Se 196.026†	-8.6	-0.0003 mg/L		0.00246	-0.0003 mg/L	0.00246	764.02%
Sn 189.927†	-62.0	-0.0040 mg/L		0.00130	-0.0040 mg/L	0.00130	32.16%
Sr 407.771†	6360.4	0.0057 mg/L		0.00005	0.0057 mg/L	0.00005	0.80%
Ti 337.279†	-568.7	0.0022 mg/L		0.00004	0.0022 mg/L	0.00004	1.96%
Tl 190.801†	-2.8	-0.0030 mg/L		0.00358	-0.0030 mg/L	0.00358	119.60%
V 292.402†	-157.4	0.0017 mg/L		0.00030	0.0017 mg/L	0.00030	17.48%
Zn 213.857†	716.0	0.0049 mg/L		0.00002	0.0049 mg/L	0.00002	0.45%

Sequence No.: 96
Sample ID: 1306397-10
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 6/25/2013 9:36:52 PM
Data Type: Reprocessed on 6/26/2013 10:57:17 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306397-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Conc. Units	Sample	Analysis Time
1	Y 371.029	3298047.8	3298047.8	0.975 mg/L				21:38:57
1	Ag 328.068†	566.1	-156.4	-0.0001 mg/L		-0.0001 mg/L		21:39:00
1	Al 237.313†	-387.2	-9.6	0.0062 mg/L		0.0062 mg/L		21:39:10
1	As 188.979†	3.9	3.0	0.0045 mg/L		0.0045 mg/L		21:39:10
1	B 249.677†	-7.1	7.9	0.0058 mg/L		0.0058 mg/L		21:38:41
1	B 182.528†	-8.8	-2.0	0.0022 mg/L		0.0022 mg/L		21:39:10
1	Ba 233.527†	878.1	988.0	0.0081 mg/L		0.0081 mg/L		21:39:10
1	Be 313.107†	-1315.7	84.0	0.0002 mg/L		0.0002 mg/L		21:39:00
1	Ca 315.887†	1763940.2	1809113.8	16.20 mg/L		16.20 mg/L		21:38:57
1	Cd 228.802†	141.3	-2.5	0.0014 mg/L		0.0014 mg/L		21:39:10
1	Co 228.616†	-160.8	13.0	-0.0019 mg/L		-0.0019 mg/L		21:39:10
1	Cr 267.716†	514.5	-183.3	-0.0009 mg/L		-0.0009 mg/L		21:39:00
1	Cu 324.752†	7084.3	3306.1	0.0154 mg/L		0.0154 mg/L		21:39:00
1	Fe 234.349†	27.9	30.3	-0.0011 mg/L		-0.0011 mg/L		21:38:41
1	K 766.490†	2690.1	2012.8	1.003 mg/L		1.003 mg/L		21:38:31
1	Li 670.784†	-449.4	-188.1	-0.0025 mg/L		-0.0025 mg/L		21:38:31
1	Mg 279.077†	9944.0	9906.8	0.6413 mg/L		0.6413 mg/L		21:39:00
1	Mn 257.610†	15965.9	314.1	0.0003 mg/L		0.0003 mg/L		21:39:10
1	Mn 294.920†	-918.6	-301.1	-0.0008 mg/L		-0.0008 mg/L		21:39:00
1	Mo 202.031†	66.7	78.8	0.0057 mg/L		0.0057 mg/L		21:39:10

1	Na 589.592†	91216.4	89288.8	12.05	mg/L	12.05	mg/L	21:38:31
1	Ni 231.604†	187.5	15.1	-0.0002	mg/L	-0.0002	mg/L	21:39:10
1	P 214.914†	-47.7	-2.8	0.0469	mg/L	0.0469	mg/L	21:39:10
1	Pb 220.353†	110.9	-69.4	-0.0021	mg/L	-0.0021	mg/L	21:39:10
1	Sb 206.836†	41.1	-2.7	0.0033	mg/L	0.0033	mg/L	21:39:10
1	Se 196.026†	7.7	-9.0	-0.0005	mg/L	-0.0005	mg/L	21:39:10
1	Sn 189.927†	-212.0	-254.9	-0.0197	mg/L	-0.0197	mg/L	21:39:10
1	Sr 407.771†	30803.4	31334.1	0.0268	mg/L	0.0268	mg/L	21:38:31
1	Ti 337.279†	-1729.5	-475.2	0.0023	mg/L	0.0023	mg/L	21:39:00
1	Tl 190.801†	-2.7	4.4	0.0004	mg/L	0.0004	mg/L	21:39:10
1	V 292.402†	-814.9	66.5	0.0026	mg/L	0.0026	mg/L	21:39:00
1	Zn 213.857†	19071.8	18683.0	0.1152	mg/L	0.1152	mg/L	21:39:00
2	Y 371.029	3348392.0	3348392.0	0.990	mg/L			21:39:12
2	Ag 328.068†	745.9	16.4	0.0007	mg/L	0.0007	mg/L	21:39:15
2	Al 237.313†	-375.8	7.9	0.0078	mg/L	0.0078	mg/L	21:39:25
2	As 188.979†	5.8	4.9	0.0056	mg/L	0.0056	mg/L	21:39:25
2	B 249.677†	-10.1	5.0	0.0046	mg/L	0.0046	mg/L	21:38:54
2	B 182.528†	-7.3	-0.4	0.0036	mg/L	0.0036	mg/L	21:39:25
2	Ba 233.527†	884.1	980.5	0.0080	mg/L	0.0080	mg/L	21:39:25
2	Be 313.107†	-1393.1	26.1	0.0002	mg/L	0.0002	mg/L	21:39:15
2	Ca 315.887†	1795394.8	1813686.4	16.24	mg/L	16.24	mg/L	21:39:12
2	Cd 228.802†	141.0	-5.1	0.0014	mg/L	0.0014	mg/L	21:39:25
2	Co 228.616†	-177.5	-1.3	-0.0021	mg/L	-0.0021	mg/L	21:39:25
2	Cr 267.716†	498.6	-207.3	-0.0011	mg/L	-0.0011	mg/L	21:39:15
2	Cu 324.752†	7223.2	3337.2	0.0156	mg/L	0.0156	mg/L	21:39:15
2	Fe 234.349†	32.6	34.6	0.0010	mg/L	0.0010	mg/L	21:38:54
2	K 766.490†	2664.2	1945.2	0.9741	mg/L	0.9741	mg/L	21:38:44
2	Li 670.784†	-397.7	-129.0	-0.0011	mg/L	-0.0011	mg/L	21:38:44
2	Mg 279.077†	9892.8	9701.7	0.6280	mg/L	0.6280	mg/L	21:39:15
2	Mn 257.610†	15936.1	37.9	0.0000	mg/L	0.0000	mg/L	21:39:25
2	Mn 294.920†	-990.4	-359.5	-0.0009	mg/L	-0.0009	mg/L	21:39:15
2	Mo 202.031†	61.9	72.9	0.0054	mg/L	0.0054	mg/L	21:39:25
2	Na 589.592†	91898.1	88571.2	11.95	mg/L	11.95	mg/L	21:38:44
2	Ni 231.604†	188.8	13.5	-0.0003	mg/L	-0.0003	mg/L	21:39:25
2	P 214.914†	-45.4	0.2	0.0484	mg/L	0.0484	mg/L	21:39:25
2	Pb 220.353†	159.5	-22.0	0.0006	mg/L	0.0006	mg/L	21:39:25
2	Sb 206.836†	44.9	0.5	0.0046	mg/L	0.0046	mg/L	21:39:25
2	Se 196.026†	3.7	-13.2	-0.0028	mg/L	-0.0028	mg/L	21:39:25
2	Sn 189.927†	-206.2	-245.7	-0.0186	mg/L	-0.0186	mg/L	21:39:25
2	Sr 407.771†	31097.5	31156.3	0.0267	mg/L	0.0267	mg/L	21:38:44
2	Ti 337.279†	-1880.2	-600.7	0.0022	mg/L	0.0022	mg/L	21:39:15
2	Tl 190.801†	5.9	13.1	0.0070	mg/L	0.0070	mg/L	21:39:25
2	V 292.402†	-823.6	70.2	0.0026	mg/L	0.0026	mg/L	21:39:15
2	Zn 213.857†	19082.1	18399.5	0.1135	mg/L	0.1135	mg/L	21:39:15

Mean Data: 1306397-10

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3323219.9	0.983	mg/L	0.0105				1.07%
Ag 328.068†	-70.0	0.0003	mg/L	0.00059	0.0003	mg/L	0.00059	186.13%
Al 237.313†	-0.8	0.0070	mg/L	0.00113	0.0070	mg/L	0.00113	16.14%
As 188.979†	3.9	0.0050	mg/L	0.00082	0.0050	mg/L	0.00082	16.22%
B 249.677†	6.5	0.0052	mg/L	0.00085	0.0052	mg/L	0.00085	16.52%
B 182.528†	-1.2	0.0029	mg/L	0.00097	0.0029	mg/L	0.00097	33.59%
Ba 233.527†	984.2	0.0081	mg/L	0.00004	0.0081	mg/L	0.00004	0.50%
Be 313.107†	55.0	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	6.20%
Ca 315.887†	1811400.1	16.22	mg/L	0.029	16.22	mg/L	0.029	0.18%
Cd 228.802†	-3.8	0.0014	mg/L	0.00005	0.0014	mg/L	0.00005	3.46%
Co 228.616†	5.9	-0.0020	mg/L	0.00016	-0.0020	mg/L	0.00016	8.16%
Cr 267.716†	-195.3	-0.0010	mg/L	0.00013	-0.0010	mg/L	0.00013	13.24%
Cu 324.752†	3321.7	0.0155	mg/L	0.00009	0.0155	mg/L	0.00009	0.60%
Fe 234.349†	32.4	0.0000	mg/L	0.00146	0.0000	mg/L	0.00146	>999.9%
K 766.490†	1979.0	0.9885	mg/L	0.02040	0.9885	mg/L	0.02040	2.06%
Li 670.784†	-158.6	-0.0018	mg/L	0.00098	-0.0018	mg/L	0.00098	53.73%
Mg 279.077†	9804.3	0.6346	mg/L	0.00941	0.6346	mg/L	0.00941	1.48%
Mn 257.610†	176.0	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	175.92%
Mn 294.920†	-330.3	-0.0009	mg/L	0.00009	-0.0009	mg/L	0.00009	10.04%
Mo 202.031†	75.8	0.0055	mg/L	0.00016	0.0055	mg/L	0.00016	2.80%
Na 589.592†	88930.0	12.00	mg/L	0.068	12.00	mg/L	0.068	0.57%
Ni 231.604†	14.3	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	8.68%
P 214.914†	-1.3	0.0476	mg/L	0.00112	0.0476	mg/L	0.00112	2.35%
Pb 220.353†	-45.7	-0.0007	mg/L	0.00196	-0.0007	mg/L	0.00196	264.16%

2	Na 589.592†	90486.4	87876.4	11.86 mg/L	11.86 mg/L	21:42:58
2	Ni 231.604†	220.1	46.9	0.0004 mg/L	0.0004 mg/L	21:43:39
2	P 214.914†	-46.3	-1.1	0.0478 mg/L	0.0478 mg/L	21:43:39
2	Pb 220.353†	122.7	-58.2	-0.0015 mg/L	-0.0015 mg/L	21:43:39
2	Sb 206.836†	36.4	-7.8	0.0012 mg/L	0.0012 mg/L	21:43:39
2	Se 196.026†	13.1	-3.5	0.0025 mg/L	0.0025 mg/L	21:43:39
2	Sn 189.927†	-230.8	-272.4	-0.0212 mg/L	-0.0212 mg/L	21:43:39
2	Sr 407.771†	32512.8	32848.0	0.0281 mg/L	0.0281 mg/L	21:42:58
2	Ti 337.279†	-1671.9	-403.9	0.0024 mg/L	0.0024 mg/L	21:43:29
2	Tl 190.801†	2.6	9.7	0.0043 mg/L	0.0043 mg/L	21:43:39
2	V 292.402†	-793.4	94.3	0.0027 mg/L	0.0027 mg/L	21:43:29
2	Zn 213.857†	10981.0	10307.8	0.0638 mg/L	0.0638 mg/L	21:43:29

Mean Data: 1306397-11

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3323486.2	0.983 mg/L		0.0007			0.07%
Ag 328.068†	1.0	0.0007 mg/L		0.00030	0.0007 mg/L	0.00030	45.45%
Al 237.313†	9.4	0.0080 mg/L		0.00509	0.0080 mg/L	0.00509	63.98%
As 188.979†	-1.2	0.0019 mg/L		0.00316	0.0019 mg/L	0.00316	163.82%
B 249.677†	29.5	0.0146 mg/L		0.00101	0.0146 mg/L	0.00101	6.95%
B 182.528†	10.0	0.0121 mg/L		0.00017	0.0121 mg/L	0.00017	1.43%
Ba 233.527†	1117.8	0.0091 mg/L		0.00014	0.0091 mg/L	0.00014	1.50%
Be 313.107†	63.8	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	10.41%
Ca 315.887†	1919484.4	17.19 mg/L		0.033	17.19 mg/L	0.033	0.19%
Cd 228.802†	3.6	0.0016 mg/L		0.00002	0.0016 mg/L	0.00002	1.37%
Co 228.616†	6.3	-0.0020 mg/L		0.00026	-0.0020 mg/L	0.00026	13.23%
Cr 267.716†	-239.2	-0.0013 mg/L		0.00001	-0.0013 mg/L	0.00001	0.83%
Cu 324.752†	2374.3	0.0115 mg/L		0.00003	0.0115 mg/L	0.00003	0.25%
Fe 234.349†	59.3	0.0117 mg/L		0.00783	0.0117 mg/L	0.00783	66.92%
K 766.490†	1950.3	0.9763 mg/L		0.05041	0.9763 mg/L	0.05041	5.16%
Li 670.784†	110.9	0.0045 mg/L		0.00204	0.0045 mg/L	0.00204	45.38%
Mg 279.077†	12501.0	0.8097 mg/L		0.00412	0.8097 mg/L	0.00412	0.51%
Mn 257.610†	337.4	0.0003 mg/L		0.00008	0.0003 mg/L	0.00008	27.74%
Mn 294.920†	-63.3	-0.0003 mg/L		0.00009	-0.0003 mg/L	0.00009	29.36%
Mo 202.031†	76.0	0.0056 mg/L		0.00075	0.0056 mg/L	0.00075	13.42%
Na 589.592†	88288.2	11.92 mg/L		0.078	11.92 mg/L	0.078	0.65%
Ni 231.604†	46.5	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	2.62%
P 214.914†	-5.2	0.0456 mg/L		0.00309	0.0456 mg/L	0.00309	6.77%
Pb 220.353†	-43.4	-0.0006 mg/L		0.00123	-0.0006 mg/L	0.00123	204.08%
Sb 206.836†	-5.0	0.0024 mg/L		0.00163	0.0024 mg/L	0.00163	68.89%
Se 196.026†	-8.6	-0.0003 mg/L		0.00400	-0.0003 mg/L	0.00400	>999.9%
Sn 189.927†	-272.6	-0.0213 mg/L		0.00004	-0.0213 mg/L	0.00004	0.20%
Sr 407.771†	33001.8	0.0282 mg/L		0.00018	0.0282 mg/L	0.00018	0.65%
Ti 337.279†	-359.6	0.0024 mg/L		0.00006	0.0024 mg/L	0.00006	2.66%
Tl 190.801†	8.8	0.0036 mg/L		0.00105	0.0036 mg/L	0.00105	29.19%
V 292.402†	109.2	0.0028 mg/L		0.00009	0.0028 mg/L	0.00009	3.35%
Zn 213.857†	10308.6	0.0638 mg/L		0.00001	0.0638 mg/L	0.00001	0.01%

Sequence No.: 98

Sample ID: 1306397-12

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 65

Date Collected: 6/25/2013 9:45:17 PM

Data Type: Reprocessed on 6/26/2013 10:57:18 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306397-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib	Sample Conc. Units	Analysis Time
1	Y 371.029	3305761.3	3305761.3	0.978 mg/L			21:47:24
1	Ag 328.068†	671.1	-50.4	0.0004 mg/L		0.0004 mg/L	21:47:26
1	Al 237.313†	-375.6	3.3	0.0074 mg/L		0.0074 mg/L	21:47:36
1	As 188.979†	1.8	0.8	0.0031 mg/L		0.0031 mg/L	21:47:36
1	B 249.677†	-15.1	-0.2	0.0024 mg/L		0.0024 mg/L	21:47:07
1	B 182.528†	-7.5	-0.7	0.0033 mg/L		0.0033 mg/L	21:47:36
1	Ba 233.527†	837.8	944.6	0.0078 mg/L		0.0078 mg/L	21:47:36
1	Be 313.107†	-1422.9	-22.6	0.0002 mg/L		0.0002 mg/L	21:47:26
1	Ca 315.887†	1833479.5	1876019.7	16.80 mg/L		16.80 mg/L	21:47:24
1	Cd 228.802†	139.9	-4.4	0.0014 mg/L		0.0014 mg/L	21:47:36
1	Co 228.616†	-196.0	-22.6	-0.0024 mg/L		-0.0024 mg/L	21:47:36

1	Cr 267.716†	532.7	-166.0	-0.0008	mg/L	-0.0008	mg/L	21:47:26
1	Cu 324.752†	8819.1	5063.6	0.0229	mg/L	0.0229	mg/L	21:47:26
1	Fe 234.349†	53.5	56.4	0.0109	mg/L	0.0109	mg/L	21:47:07
1	K 766.490†	2649.9	1965.3	0.9827	mg/L	0.9827	mg/L	21:46:57
1	Li 670.784†	-461.6	-199.5	-0.0028	mg/L	-0.0028	mg/L	21:46:57
1	Mg 279.077†	9582.3	9513.0	0.6157	mg/L	0.6157	mg/L	21:47:26
1	Mn 257.610†	16152.2	466.4	0.0004	mg/L	0.0004	mg/L	21:47:36
1	Mn 294.920†	-837.0	-215.5	-0.0006	mg/L	-0.0006	mg/L	21:47:26
1	Mo 202.031†	71.7	83.7	0.0058	mg/L	0.0058	mg/L	21:47:36
1	Na 589.592†	93231.3	91131.5	12.30	mg/L	12.30	mg/L	21:46:57
1	Ni 231.604†	136.1	-38.0	-0.0012	mg/L	-0.0012	mg/L	21:47:36
1	P 214.914†	-50.4	-5.5	0.0453	mg/L	0.0453	mg/L	21:47:36
1	Pb 220.353†	85.5	-95.6	-0.0037	mg/L	-0.0037	mg/L	21:47:36
1	Sb 206.836†	32.7	-11.4	-0.0003	mg/L	-0.0003	mg/L	21:47:36
1	Se 196.026†	14.2	-2.3	0.0032	mg/L	0.0032	mg/L	21:47:36
1	Sn 189.927†	-197.0	-239.0	-0.0174	mg/L	-0.0174	mg/L	21:47:36
1	Sr 407.771†	33240.7	33753.3	0.0289	mg/L	0.0289	mg/L	21:46:57
1	Ti 337.279†	-1743.4	-485.2	0.0023	mg/L	0.0023	mg/L	21:47:26
1	Tl 190.801†	-0.6	6.5	0.0020	mg/L	0.0020	mg/L	21:47:36
1	V 292.402†	-858.3	24.0	0.0025	mg/L	0.0025	mg/L	21:47:26
1	Zn 213.857†	4721.0	3959.3	0.0248	mg/L	0.0248	mg/L	21:47:36
2	Y 371.029	3299429.7	3299429.7	0.976	mg/L			21:47:38
2	Ag 328.068†	621.1	-100.3	0.0002	mg/L	0.0002	mg/L	21:47:41
2	Al 237.313†	-349.4	29.4	0.0098	mg/L	0.0098	mg/L	21:47:51
2	As 188.979†	-4.1	-5.3	-0.0006	mg/L	-0.0006	mg/L	21:47:51
2	B 249.677†	-6.8	8.2	0.0059	mg/L	0.0059	mg/L	21:47:20
2	B 182.528†	-5.0	1.8	0.0054	mg/L	0.0054	mg/L	21:47:51
2	Ba 233.527†	870.5	979.8	0.0080	mg/L	0.0080	mg/L	21:47:51
2	Be 313.107†	-1323.8	76.2	0.0002	mg/L	0.0002	mg/L	21:47:41
2	Ca 315.887†	1816644.0	1862365.8	16.68	mg/L	16.68	mg/L	21:47:38
2	Cd 228.802†	158.3	14.8	0.0019	mg/L	0.0019	mg/L	21:47:51
2	Co 228.616†	-158.3	15.7	-0.0018	mg/L	-0.0018	mg/L	21:47:51
2	Cr 267.716†	572.1	-124.5	-0.0004	mg/L	-0.0004	mg/L	21:47:41
2	Cu 324.752†	8856.5	5119.2	0.0232	mg/L	0.0232	mg/L	21:47:41
2	Fe 234.349†	50.6	53.5	0.0097	mg/L	0.0097	mg/L	21:47:20
2	K 766.490†	2677.3	1998.6	0.9969	mg/L	0.9969	mg/L	21:47:10
2	Li 670.784†	-290.0	-24.6	0.0013	mg/L	0.0013	mg/L	21:47:10
2	Mg 279.077†	9597.8	9547.7	0.6180	mg/L	0.6180	mg/L	21:47:41
2	Mn 257.610†	16177.9	524.5	0.0005	mg/L	0.0005	mg/L	21:47:51
2	Mn 294.920†	-899.7	-281.4	-0.0008	mg/L	-0.0008	mg/L	21:47:41
2	Mo 202.031†	54.5	66.2	0.0051	mg/L	0.0051	mg/L	21:47:51
2	Na 589.592†	91939.8	89991.0	12.15	mg/L	12.15	mg/L	21:47:10
2	Ni 231.604†	184.6	12.1	-0.0003	mg/L	-0.0003	mg/L	21:47:51
2	P 214.914†	-52.7	-8.0	0.0441	mg/L	0.0441	mg/L	21:47:51
2	Pb 220.353†	110.7	-69.7	-0.0022	mg/L	-0.0022	mg/L	21:47:51
2	Sb 206.836†	43.7	-0.0	0.0044	mg/L	0.0044	mg/L	21:47:51
2	Se 196.026†	4.3	-12.5	-0.0025	mg/L	-0.0025	mg/L	21:47:51
2	Sn 189.927†	-220.7	-263.6	-0.0205	mg/L	-0.0205	mg/L	21:47:51
2	Sr 407.771†	32763.9	33329.9	0.0285	mg/L	0.0285	mg/L	21:47:10
2	Ti 337.279†	-1655.5	-398.6	0.0024	mg/L	0.0024	mg/L	21:47:41
2	Tl 190.801†	-1.9	5.2	0.0010	mg/L	0.0010	mg/L	21:47:51
2	V 292.402†	-876.9	3.2	0.0024	mg/L	0.0024	mg/L	21:47:41
2	Zn 213.857†	4691.7	3938.6	0.0246	mg/L	0.0246	mg/L	21:47:51

Mean Data: 1306397-12

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3302595.5	0.977	mg/L	0.0013				0.14%
Ag 328.068†	-75.3	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	58.42%
Al 237.313†	16.3	0.0086	mg/L	0.00169	0.0086	mg/L	0.00169	19.71%
As 188.979†	-2.2	0.0013	mg/L	0.00261	0.0013	mg/L	0.00261	205.48%
B 249.677†	4.0	0.0042	mg/L	0.00244	0.0042	mg/L	0.00244	58.58%
B 182.528†	0.6	0.0044	mg/L	0.00145	0.0044	mg/L	0.00145	33.25%
Ba 233.527†	962.2	0.0079	mg/L	0.00019	0.0079	mg/L	0.00019	2.39%
Be 313.107†	26.8	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	11.06%
Ca 315.887†	1869192.8	16.74	mg/L	0.086	16.74	mg/L	0.086	0.52%
Cd 228.802†	5.2	0.0016	mg/L	0.00036	0.0016	mg/L	0.00036	22.15%
Co 228.616†	-3.5	-0.0021	mg/L	0.00043	-0.0021	mg/L	0.00043	20.24%
Cr 267.716†	-145.2	-0.0006	mg/L	0.00022	-0.0006	mg/L	0.00022	37.39%
Cu 324.752†	5091.4	0.0231	mg/L	0.00017	0.0231	mg/L	0.00017	0.73%
Fe 234.349†	55.0	0.0103	mg/L	0.00089	0.0103	mg/L	0.00089	8.61%
K 766.490†	1981.9	0.9898	mg/L	0.01005	0.9898	mg/L	0.01005	1.02%

2	Cr 267.716†	63251.2	63409.9	0.4832 mg/L	0.4832 mg/L	21:51:35
2	Cu 324.752†	115311.9	112940.3	0.4841 mg/L	0.4841 mg/L	21:51:35
2	Fe 234.349†	4669.5	4735.4	2.340 mg/L	2.340 mg/L	21:51:15
2	K 766.490†	55884.6	55907.7	24.02 mg/L	24.02 mg/L	21:51:13
2	Li 670.784†	19983.8	20531.1	0.4840 mg/L	0.4840 mg/L	21:51:15
2	Mg 279.077†	73106.3	73823.4	4.792 mg/L	4.792 mg/L	21:51:35
2	Mn 257.610†	469565.1	459965.7	0.4942 mg/L	0.4942 mg/L	21:51:35
2	Mn 294.920†	225995.6	229742.8	0.4899 mg/L	0.4899 mg/L	21:51:35
2	Mo 202.031†	12726.8	12912.1	0.4848 mg/L	0.4848 mg/L	21:51:45
2	Na 589.592†	182543.7	180826.5	24.32 mg/L	24.32 mg/L	21:51:13
2	Ni 231.604†	26192.7	26375.6	0.4910 mg/L	0.4910 mg/L	21:51:35
2	P 214.914†	8861.6	9029.4	4.775 mg/L	4.775 mg/L	21:51:45
2	Pb 220.353†	8411.8	8344.3	0.4910 mg/L	0.4910 mg/L	21:51:45
2	Sb 206.836†	1196.0	1167.6	0.4818 mg/L	0.4818 mg/L	21:51:45
2	Se 196.026†	1707.6	1714.2	0.9534 mg/L	0.9534 mg/L	21:51:45
2	Sn 189.927†	3967.1	3984.1	0.4938 mg/L	0.4938 mg/L	21:51:45
2	Sr 407.771†	55133.2	55645.4	0.0474 mg/L	0.0474 mg/L	21:51:13
2	Ti 337.279†	465623.1	473321.6	0.4880 mg/L	0.4880 mg/L	21:51:35
2	Tl 190.801†	610.8	626.4	0.4681 mg/L	0.4681 mg/L	21:51:45
2	V 292.402†	122979.6	125572.0	0.5008 mg/L	0.5008 mg/L	21:51:35
2	Zn 213.857†	80362.7	80598.0	0.4915 mg/L	0.4915 mg/L	21:51:35

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3319683.0	0.982 mg/L		0.0065				0.67%
Ag 328.068†	51506.1	0.2481 mg/L		0.00102	0.2481 mg/L		0.00102	0.41%
QC value within limits for Ag 328.068		Recovery = 99.23%						
Al 237.313†	26495.3	2.438 mg/L		0.0213	2.438 mg/L		0.0213	0.87%
QC value within limits for Al 237.313		Recovery = 97.52%						
As 188.979†	785.2	0.4821 mg/L		0.00738	0.4821 mg/L		0.00738	1.53%
QC value within limits for As 188.979		Recovery = 96.43%						
B 249.677†	1157.7	0.4757 mg/L		0.00515	0.4757 mg/L		0.00515	1.08%
QC value within limits for B 249.677		Recovery = 95.15%						
B 182.528†	595.9	0.4935 mg/L		0.00333	0.4935 mg/L		0.00333	0.67%
QC value within limits for B 182.528		Recovery = 98.70%						
Ba 233.527†	65410.3	0.4965 mg/L		0.00207	0.4965 mg/L		0.00207	0.42%
QC value within limits for Ba 233.527		Recovery = 99.29%						
Be 313.107†	141823.4	0.0501 mg/L		0.00021	0.0501 mg/L		0.00021	0.41%
QC value within limits for Be 313.107		Recovery = 100.21%						
Ca 315.887†	531599.0	4.768 mg/L		0.0342	4.768 mg/L		0.0342	0.72%
QC value within limits for Ca 315.887		Recovery = 95.36%						
Cd 228.802†	9473.0	0.2548 mg/L		0.00206	0.2548 mg/L		0.00206	0.81%
QC value within limits for Cd 228.802		Recovery = 101.93%						
Co 228.616†	31457.6	0.4986 mg/L		0.00415	0.4986 mg/L		0.00415	0.83%
QC value within limits for Co 228.616		Recovery = 99.72%						
Cr 267.716†	63702.0	0.4854 mg/L		0.00314	0.4854 mg/L		0.00314	0.65%
QC value within limits for Cr 267.716		Recovery = 97.09%						
Cu 324.752†	113295.9	0.4856 mg/L		0.00215	0.4856 mg/L		0.00215	0.44%
QC value within limits for Cu 324.752		Recovery = 97.12%						
Fe 234.349†	4802.3	2.373 mg/L		0.0468	2.373 mg/L		0.0468	1.97%
QC value within limits for Fe 234.349		Recovery = 94.93%						
K 766.490†	56077.6	24.09 mg/L		0.103	24.09 mg/L		0.103	0.43%
QC value within limits for K 766.490		Recovery = 96.36%						
Li 670.784†	20661.8	0.4871 mg/L		0.00434	0.4871 mg/L		0.00434	0.89%
QC value within limits for Li 670.784		Recovery = 97.41%						
Mg 279.077†	74231.6	4.819 mg/L		0.0375	4.819 mg/L		0.0375	0.78%
QC value within limits for Mg 279.077		Recovery = 96.38%						
Mn 257.610†	461757.1	0.4961 mg/L		0.00271	0.4961 mg/L		0.00271	0.55%
QC value within limits for Mn 257.610		Recovery = 99.23%						
Mn 294.920†	230684.6	0.4919 mg/L		0.00284	0.4919 mg/L		0.00284	0.58%
QC value within limits for Mn 294.920		Recovery = 98.38%						
Mo 202.031†	12974.7	0.4871 mg/L		0.00330	0.4871 mg/L		0.00330	0.68%
QC value within limits for Mo 202.031		Recovery = 97.42%						
Na 589.592†	181359.3	24.39 mg/L		0.101	24.39 mg/L		0.101	0.41%
QC value within limits for Na 589.592		Recovery = 97.55%						
Ni 231.604†	26483.1	0.4930 mg/L		0.00283	0.4930 mg/L		0.00283	0.57%
QC value within limits for Ni 231.604		Recovery = 98.60%						
P 214.914†	9080.6	4.802 mg/L		0.0379	4.802 mg/L		0.0379	0.79%
QC value within limits for P 214.914		Recovery = 96.04%						
Pb 220.353†	8409.5	0.4948 mg/L		0.00540	0.4948 mg/L		0.00540	1.09%
QC value within limits for Pb 220.353		Recovery = 98.95%						

Sb	206.836†	1178.1	0.4861 mg/L	0.00609	0.4861 mg/L	0.00609	1.25%
	QC value within limits for Sb 206.836		Recovery = 97.23%				
Se	196.026†	1733.9	0.9643 mg/L	0.01542	0.9643 mg/L	0.01542	1.60%
	QC value within limits for Se 196.026		Recovery = 96.43%				
Sn	189.927†	4015.7	0.4977 mg/L	0.00549	0.4977 mg/L	0.00549	1.10%
	QC value within limits for Sn 189.927		Recovery = 99.54%				
Sr	407.771†	55816.7	0.0475 mg/L	0.00021	0.0475 mg/L	0.00021	0.43%
	QC value within limits for Sr 407.771		Recovery = 95.09%				
Ti	337.279†	475389.4	0.4901 mg/L	0.00300	0.4901 mg/L	0.00300	0.61%
	QC value within limits for Ti 337.279		Recovery = 98.01%				
Tl	190.801†	628.6	0.4698 mg/L	0.00236	0.4698 mg/L	0.00236	0.50%
	QC value within limits for Tl 190.801		Recovery = 93.95%				
V	292.402†	126150.4	0.5031 mg/L	0.00325	0.5031 mg/L	0.00325	0.65%
	QC value within limits for V 292.402		Recovery = 100.62%				
Zn	213.857†	80849.9	0.4930 mg/L	0.00216	0.4930 mg/L	0.00216	0.44%
	QC value within limits for Zn 213.857		Recovery = 98.60%				

All analyte(s) passed QC.

Sequence No.: 100	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 6/25/2013 9:53:23 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:57:19 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3387338.7	3387338.7	1.00 mg/L		21:55:28
1	Ag 328.068†	711.4	-26.7	0.0005 mg/L	0.0005 mg/L	21:55:31
1	Al 237.313†	-317.4	70.6	0.0136 mg/L	0.0136 mg/L	21:55:31
1	As 188.979†	-0.6	-1.6	0.0016 mg/L	0.0016 mg/L	21:55:41
1	B 249.677†	-15.1	0.1	0.0026 mg/L	0.0026 mg/L	21:55:12
1	B 182.528†	-2.8	4.2	0.0073 mg/L	0.0073 mg/L	21:55:41
1	Ba 233.527†	-80.9	7.0	0.0006 mg/L	0.0006 mg/L	21:55:41
1	Be 313.107†	-1274.3	160.8	0.0003 mg/L	0.0003 mg/L	21:55:31
1	Ca 315.887†	-1401.5	-681.0	0.0022 mg/L	0.0022 mg/L	21:55:31
1	Cd 228.802†	141.1	-6.6	0.0013 mg/L	0.0013 mg/L	21:55:41
1	Co 228.616†	-152.2	26.0	-0.0017 mg/L	-0.0017 mg/L	21:55:41
1	Cr 267.716†	522.3	-189.4	-0.0009 mg/L	-0.0009 mg/L	21:55:31
1	Cu 324.752†	3760.7	-202.9	0.0004 mg/L	0.0004 mg/L	21:55:31
1	Fe 234.349†	-0.7	1.0	0.0111 mg/L	0.0111 mg/L	21:55:12
1	K 766.490†	668.0	-78.3	0.1100 mg/L	0.1100 mg/L	21:55:02
1	Li 670.784†	-289.6	-16.4	0.0015 mg/L	0.0015 mg/L	21:55:02
1	Mg 279.077†	290.8	2.4	-0.0018 mg/L	-0.0018 mg/L	21:55:31
1	Mn 257.610†	15587.0	-495.7	-0.0006 mg/L	-0.0006 mg/L	21:55:31
1	Mn 294.920†	-752.8	-110.9	-0.0004 mg/L	-0.0004 mg/L	21:55:31
1	Mo 202.031†	-17.4	-6.9	0.0025 mg/L	0.0025 mg/L	21:55:41
1	Na 589.592†	3707.1	-526.2	0.0166 mg/L	0.0166 mg/L	21:55:02
1	Ni 231.604†	129.8	-47.6	-0.0014 mg/L	-0.0014 mg/L	21:55:31
1	P 214.914†	-59.4	-13.2	0.0416 mg/L	0.0416 mg/L	21:55:41
1	Pb 220.353†	121.5	-61.8	-0.0017 mg/L	-0.0017 mg/L	21:55:41
1	Sb 206.836†	38.0	-6.9	0.0016 mg/L	0.0016 mg/L	21:55:41
1	Se 196.026†	25.6	8.7	0.0093 mg/L	0.0093 mg/L	21:55:41
1	Sn 189.927†	30.6	-6.9	0.0007 mg/L	0.0007 mg/L	21:55:41
1	Sr 407.771†	263.9	17.8	0.0003 mg/L	0.0003 mg/L	21:55:02
1	Ti 337.279†	-1634.0	-333.1	0.0024 mg/L	0.0024 mg/L	21:55:31
1	Tl 190.801†	2.1	9.2	0.0066 mg/L	0.0066 mg/L	21:55:41
1	V 292.402†	-848.6	54.8	0.0025 mg/L	0.0025 mg/L	21:55:31
1	Zn 213.857†	937.2	66.1	0.0009 mg/L	0.0009 mg/L	21:55:41
2	Y 371.029	3377976.1	3377976.1	0.999 mg/L		21:55:43
2	Ag 328.068†	691.0	-45.1	0.0004 mg/L	0.0004 mg/L	21:55:45
2	Al 237.313†	-417.7	-30.7	0.0043 mg/L	0.0043 mg/L	21:55:45
2	As 188.979†	2.6	1.5	0.0036 mg/L	0.0036 mg/L	21:55:56
2	B 249.677†	-14.2	1.0	0.0029 mg/L	0.0029 mg/L	21:55:25
2	B 182.528†	-5.6	1.3	0.0050 mg/L	0.0050 mg/L	21:55:56
2	Ba 233.527†	-75.7	11.9	0.0007 mg/L	0.0007 mg/L	21:55:56
2	Be 313.107†	-1210.3	221.4	0.0003 mg/L	0.0003 mg/L	21:55:45
2	Ca 315.887†	-1451.2	-734.6	0.0017 mg/L	0.0017 mg/L	21:55:45
2	Cd 228.802†	141.8	-5.6	0.0014 mg/L	0.0014 mg/L	21:55:56
2	Co 228.616†	-147.6	30.2	-0.0016 mg/L	-0.0016 mg/L	21:55:56

2	Cr 267.716†	589.7	-120.5	-0.0004 mg/L	-0.0004 mg/L	21:55:45
2	Cu 324.752†	3751.7	-201.5	0.0005 mg/L	0.0005 mg/L	21:55:45
2	Fe 234.349†	-8.9	-7.3	0.0070 mg/L	0.0070 mg/L	21:55:25
2	K 766.490†	613.3	-131.2	0.0874 mg/L	0.0874 mg/L	21:55:15
2	Li 670.784†	-244.9	27.4	0.0025 mg/L	0.0025 mg/L	21:55:15
2	Mg 279.077†	248.9	-38.7	-0.0045 mg/L	-0.0045 mg/L	21:55:45
2	Mn 257.610†	15716.5	-322.9	-0.0004 mg/L	-0.0004 mg/L	21:55:45
2	Mn 294.920†	-701.2	-61.3	-0.0003 mg/L	-0.0003 mg/L	21:55:45
2	Mo 202.031†	15.6	26.0	0.0038 mg/L	0.0038 mg/L	21:55:56
2	Na 589.592†	3683.5	-539.5	0.0149 mg/L	0.0149 mg/L	21:55:15
2	Ni 231.604†	181.8	4.8	-0.0004 mg/L	-0.0004 mg/L	21:55:45
2	P 214.914†	-48.1	-2.1	0.0474 mg/L	0.0474 mg/L	21:55:56
2	Pb 220.353†	159.7	-23.2	0.0006 mg/L	0.0006 mg/L	21:55:56
2	Sb 206.836†	35.6	-9.2	0.0006 mg/L	0.0006 mg/L	21:55:56
2	Se 196.026†	19.5	2.6	0.0059 mg/L	0.0059 mg/L	21:55:56
2	Sn 189.927†	50.2	12.8	0.0031 mg/L	0.0031 mg/L	21:55:56
2	Sr 407.771†	232.8	-12.6	0.0003 mg/L	0.0003 mg/L	21:55:15
2	Ti 337.279†	-1713.2	-416.9	0.0024 mg/L	0.0024 mg/L	21:55:45
2	Tl 190.801†	-4.2	2.9	0.0018 mg/L	0.0018 mg/L	21:55:56
2	V 292.402†	-973.1	-72.2	0.0021 mg/L	0.0021 mg/L	21:55:45
2	Zn 213.857†	906.9	38.3	0.0007 mg/L	0.0007 mg/L	21:55:56

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3382657.4	1.00 mg/L	0.002			0.20%
Ag 328.068†	-35.9	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	13.11%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	19.9	0.0089 mg/L	0.00656	0.0089 mg/L	0.00656	73.55%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-0.1	0.0026 mg/L	0.00137	0.0026 mg/L	0.00137	52.87%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	0.6	0.0027 mg/L	0.00027	0.0027 mg/L	0.00027	9.83%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	2.8	0.0062 mg/L	0.00168	0.0062 mg/L	0.00168	27.30%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	9.5	0.0007 mg/L	0.00003	0.0007 mg/L	0.00003	3.99%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	191.1	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	5.40%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-707.8	0.0019 mg/L	0.00035	0.0019 mg/L	0.00035	17.76%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	-6.1	0.0013 mg/L	0.00002	0.0013 mg/L	0.00002	1.46%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	28.1	-0.0016 mg/L	0.00005	-0.0016 mg/L	0.00005	2.99%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-155.0	-0.0007 mg/L	0.00037	-0.0007 mg/L	0.00037	55.30%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-202.2	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.81%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	-3.1	0.0090 mg/L	0.00288	0.0090 mg/L	0.00288	31.88%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	-104.8	0.0987 mg/L	0.01597	0.0987 mg/L	0.01597	16.19%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	5.5	0.0020 mg/L	0.00073	0.0020 mg/L	0.00073	35.97%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-18.1	-0.0032 mg/L	0.00189	-0.0032 mg/L	0.00189	59.38%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-409.3	-0.0005 mg/L	0.00013	-0.0005 mg/L	0.00013	26.10%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	-86.1	-0.0004 mg/L	0.00007	-0.0004 mg/L	0.00007	21.04%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	9.5	0.0031 mg/L	0.00088	0.0031 mg/L	0.00088	27.89%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-532.8	0.0157 mg/L	0.00126	0.0157 mg/L	0.00126	8.01%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-21.4	-0.0009 mg/L	0.00069	-0.0009 mg/L	0.00069	75.07%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-7.7	0.0445 mg/L	0.00411	0.0445 mg/L	0.00411	9.23%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	-42.5	-0.0006 mg/L	0.00160	-0.0006 mg/L	0.00160	288.05%
QC value within limits for Pb 220.353 Recovery = Not calculated						

Sb	206.836†	-8.0	0.0011 mg/L	0.00066	0.0011 mg/L	0.00066	60.01%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	5.7	0.0076 mg/L	0.00237	0.0076 mg/L	0.00237	31.32%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	2.9	0.0019 mg/L	0.00171	0.0019 mg/L	0.00171	88.11%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	2.6	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.04%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-375.0	0.0024 mg/L	0.00006	0.0024 mg/L	0.00006	2.53%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	6.1	0.0042 mg/L	0.00338	0.0042 mg/L	0.00338	80.22%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	-8.7	0.0023 mg/L	0.00034	0.0023 mg/L	0.00034	14.60%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	52.2	0.0008 mg/L	0.00013	0.0008 mg/L	0.00013	15.52%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

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Sequence No.: 101                               Autosampler Location: 66
Sample ID: CF32533-DUP2                         Date Collected: 6/25/2013 9:57:33 PM
Analyst:                                         Data Type: Reprocessed on 6/26/2013 10:57:20 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: CF32533-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3316388.8	3316388.8	0.981 mg/L		21:59:41
1	Ag 328.068†	690.8	-32.5	0.0005 mg/L	0.0005 mg/L	21:59:43
1	Al 237.313†	-328.0	53.0	0.0120 mg/L	0.0120 mg/L	21:59:53
1	As 188.979†	1.0	-0.1	0.0026 mg/L	0.0026 mg/L	21:59:53
1	B 249.677†	-8.8	6.2	0.0051 mg/L	0.0051 mg/L	21:59:24
1	B 182.528†	-7.1	-0.3	0.0037 mg/L	0.0037 mg/L	21:59:53
1	Ba 233.527†	866.7	971.3	0.0080 mg/L	0.0080 mg/L	21:59:53
1	Be 313.107†	-1410.5	-5.3	0.0002 mg/L	0.0002 mg/L	21:59:43
1	Ca 315.887†	1809534.5	1845597.4	16.53 mg/L	16.53 mg/L	21:59:41
1	Cd 228.802†	145.6	1.0	0.0015 mg/L	0.0015 mg/L	21:59:53
1	Co 228.616†	-171.5	3.1	-0.0020 mg/L	-0.0020 mg/L	21:59:53
1	Cr 267.716†	478.4	-223.1	-0.0012 mg/L	-0.0012 mg/L	21:59:43
1	Cu 324.752†	8728.8	4942.6	0.0224 mg/L	0.0224 mg/L	21:59:43
1	Fe 234.349†	58.8	61.6	0.0139 mg/L	0.0139 mg/L	21:59:24
1	K 766.490†	2704.1	2011.8	1.003 mg/L	1.003 mg/L	21:59:14
1	Li 670.784†	-455.7	-192.0	-0.0026 mg/L	-0.0026 mg/L	21:59:14
1	Mg 279.077†	9382.8	9278.2	0.6005 mg/L	0.6005 mg/L	21:59:43
1	Mn 257.610†	16032.9	291.9	0.0002 mg/L	0.0002 mg/L	21:59:53
1	Mn 294.920†	-765.2	-139.6	-0.0005 mg/L	-0.0005 mg/L	21:59:43
1	Mo 202.031†	67.6	79.4	0.0056 mg/L	0.0056 mg/L	21:59:53
1	Na 589.592†	91553.3	89115.1	12.03 mg/L	12.03 mg/L	21:59:14
1	Ni 231.604†	154.5	-19.6	-0.0009 mg/L	-0.0009 mg/L	21:59:53
1	P 214.914†	-39.5	5.7	0.0513 mg/L	0.0513 mg/L	21:59:53
1	Pb 220.353†	136.5	-44.0	-0.0006 mg/L	-0.0006 mg/L	21:59:53
1	Sb 206.836†	43.2	-0.8	0.0041 mg/L	0.0041 mg/L	21:59:53
1	Se 196.026†	13.2	-3.4	0.0025 mg/L	0.0025 mg/L	21:59:53
1	Sn 189.927†	-187.8	-229.0	-0.0163 mg/L	-0.0163 mg/L	21:59:53
1	Sr 407.771†	32186.7	32569.8	0.0279 mg/L	0.0279 mg/L	21:59:14
1	Ti 337.279†	-1829.3	-567.2	0.0022 mg/L	0.0022 mg/L	21:59:43
1	Tl 190.801†	1.1	8.3	0.0033 mg/L	0.0033 mg/L	21:59:53
1	V 292.402†	-680.9	207.7	0.0032 mg/L	0.0032 mg/L	21:59:43
1	Zn 213.857†	5005.3	4233.7	0.0265 mg/L	0.0265 mg/L	21:59:53
2	Y 371.029	3343682.6	3343682.6	0.989 mg/L		21:59:55
2	Ag 328.068†	737.7	9.1	0.0007 mg/L	0.0007 mg/L	21:59:58
2	Al 237.313†	-383.5	-0.3	0.0071 mg/L	0.0071 mg/L	22:00:08
2	As 188.979†	4.5	3.6	0.0048 mg/L	0.0048 mg/L	22:00:08
2	B 249.677†	-14.5	0.6	0.0027 mg/L	0.0027 mg/L	21:59:37
2	B 182.528†	-8.9	-2.0	0.0022 mg/L	0.0022 mg/L	22:00:08
2	Ba 233.527†	872.1	969.7	0.0079 mg/L	0.0079 mg/L	22:00:08
2	Be 313.107†	-1336.4	81.4	0.0002 mg/L	0.0002 mg/L	21:59:58
2	Ca 315.887†	1828753.0	1849972.1	16.57 mg/L	16.57 mg/L	21:59:55
2	Cd 228.802†	150.5	4.7	0.0016 mg/L	0.0016 mg/L	22:00:08
2	Co 228.616†	-169.5	6.5	-0.0020 mg/L	-0.0020 mg/L	22:00:08

2	Cr 267.716†	522.9	-182.0	-0.0009 mg/L	-0.0009 mg/L	21:59:58
2	Cu 324.752†	8746.4	4887.7	0.0222 mg/L	0.0222 mg/L	21:59:58
2	Fe 234.349†	33.6	35.7	0.0010 mg/L	0.0010 mg/L	21:59:37
2	K 766.490†	2695.3	1980.4	0.9891 mg/L	0.9891 mg/L	21:59:27
2	Li 670.784†	-313.1	-44.0	0.0009 mg/L	0.0009 mg/L	21:59:27
2	Mg 279.077†	9513.8	9332.6	0.6040 mg/L	0.6040 mg/L	21:59:58
2	Mn 257.610†	16068.7	194.6	0.0001 mg/L	0.0001 mg/L	22:00:08
2	Mn 294.920†	-857.4	-226.4	-0.0007 mg/L	-0.0007 mg/L	21:59:58
2	Mo 202.031†	70.5	81.7	0.0057 mg/L	0.0057 mg/L	22:00:08
2	Na 589.592†	91366.7	88164.5	11.90 mg/L	11.90 mg/L	21:59:27
2	Ni 231.604†	163.6	-11.8	-0.0007 mg/L	-0.0007 mg/L	22:00:08
2	P 214.914†	-49.9	-4.4	0.0459 mg/L	0.0459 mg/L	22:00:08
2	Pb 220.353†	123.7	-58.0	-0.0015 mg/L	-0.0015 mg/L	22:00:08
2	Sb 206.836†	41.2	-3.1	0.0031 mg/L	0.0031 mg/L	22:00:08
2	Se 196.026†	3.7	-13.1	-0.0028 mg/L	-0.0028 mg/L	22:00:08
2	Sn 189.927†	-219.2	-259.1	-0.0200 mg/L	-0.0200 mg/L	22:00:08
2	Sr 407.771†	32269.5	32385.7	0.0277 mg/L	0.0277 mg/L	21:59:27
2	Ti 337.279†	-1651.7	-372.4	0.0024 mg/L	0.0024 mg/L	21:59:58
2	Tl 190.801†	3.8	10.9	0.0053 mg/L	0.0053 mg/L	22:00:08
2	V 292.402†	-865.8	26.4	0.0025 mg/L	0.0025 mg/L	21:59:58
2	Zn 213.857†	5030.3	4217.3	0.0264 mg/L	0.0264 mg/L	22:00:08

Mean Data: CF32533-DUP2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3330035.7	0.985 mg/L		0.0057			0.58%
Ag 328.068†	-11.7	0.0006 mg/L		0.00014	0.0006 mg/L	0.00014	23.66%
Al 237.313†	26.3	0.0095 mg/L		0.00346	0.0095 mg/L	0.00346	36.35%
As 188.979†	1.8	0.0037 mg/L		0.00156	0.0037 mg/L	0.00156	42.18%
B 249.677†	3.4	0.0039 mg/L		0.00163	0.0039 mg/L	0.00163	41.78%
B 182.528†	-1.1	0.0030 mg/L		0.00100	0.0030 mg/L	0.00100	33.87%
Ba 233.527†	970.5	0.0080 mg/L		0.00001	0.0080 mg/L	0.00001	0.11%
Be 313.107†	38.1	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	9.54%
Ca 315.887†	1847784.7	16.55 mg/L		0.028	16.55 mg/L	0.028	0.17%
Cd 228.802†	2.9	0.0016 mg/L		0.00007	0.0016 mg/L	0.00007	4.46%
Co 228.616†	4.8	-0.0020 mg/L		0.00004	-0.0020 mg/L	0.00004	1.91%
Cr 267.716†	-202.6	-0.0010 mg/L		0.00022	-0.0010 mg/L	0.00022	21.45%
Cu 324.752†	4915.2	0.0223 mg/L		0.00017	0.0223 mg/L	0.00017	0.74%
Fe 234.349†	48.6	0.0075 mg/L		0.00914	0.0075 mg/L	0.00914	122.06%
K 766.490†	1996.1	0.9958 mg/L		0.00948	0.9958 mg/L	0.00948	0.95%
Li 670.784†	-118.0	-0.0009 mg/L		0.00246	-0.0009 mg/L	0.00246	281.11%
Mg 279.077†	9305.4	0.6022 mg/L		0.00250	0.6022 mg/L	0.00250	0.41%
Mn 257.610†	243.2	0.0002 mg/L		0.00007	0.0002 mg/L	0.00007	37.82%
Mn 294.920†	-183.0	-0.0006 mg/L		0.00013	-0.0006 mg/L	0.00013	23.28%
Mo 202.031†	80.6	0.0057 mg/L		0.00006	0.0057 mg/L	0.00006	1.13%
Na 589.592†	88639.8	11.96 mg/L		0.090	11.96 mg/L	0.090	0.75%
Ni 231.604†	-15.7	-0.0008 mg/L		0.00010	-0.0008 mg/L	0.00010	12.75%
P 214.914†	0.7	0.0486 mg/L		0.00376	0.0486 mg/L	0.00376	7.74%
Pb 220.353†	-51.0	-0.0011 mg/L		0.00058	-0.0011 mg/L	0.00058	55.06%
Sb 206.836†	-2.0	0.0036 mg/L		0.00067	0.0036 mg/L	0.00067	18.71%
Se 196.026†	-8.3	-0.0001 mg/L		0.00378	-0.0001 mg/L	0.00378	>999.9%
Sn 189.927†	-244.0	-0.0182 mg/L		0.00260	-0.0182 mg/L	0.00260	14.32%
Sr 407.771†	32477.7	0.0278 mg/L		0.00011	0.0278 mg/L	0.00011	0.40%
Ti 337.279†	-469.8	0.0023 mg/L		0.00014	0.0023 mg/L	0.00014	6.13%
Tl 190.801†	9.6	0.0043 mg/L		0.00142	0.0043 mg/L	0.00142	32.89%
V 292.402†	117.0	0.0028 mg/L		0.00050	0.0028 mg/L	0.00050	17.71%
Zn 213.857†	4225.5	0.0264 mg/L		0.00007	0.0264 mg/L	0.00007	0.27%

Sequence No.: 102

Sample ID: CF32533-MS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 67

Date Collected: 6/25/2013 10:01:47 PM

Data Type: Reprocessed on 6/26/2013 10:57:21 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32533-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3343452.0	3343452.0	0.989 mg/L		22:03:39
1	Ag 328.068†	48018.4	47823.3	0.2304 mg/L	0.2304 mg/L	22:03:39

1	Al	237.313†	26073.1	26754.6	2.462	mg/L	2.462	mg/L	22:03:49
1	As	188.979†	788.8	796.7	0.4892	mg/L	0.4892	mg/L	22:03:49
1	B	249.677†	1101.6	1129.3	0.4641	mg/L	0.4641	mg/L	22:03:29
1	B	182.528†	578.2	591.7	0.4900	mg/L	0.4900	mg/L	22:03:49
1	Ba	233.527†	64086.3	64896.9	0.4926	mg/L	0.4926	mg/L	22:03:39
1	Be	313.107†	139931.9	142943.1	0.0505	mg/L	0.0505	mg/L	22:03:39
1	Ca	315.887†	2332684.4	2359715.5	21.13	mg/L	21.13	mg/L	22:03:39
1	Cd	228.802†	9563.3	9523.7	0.2562	mg/L	0.2562	mg/L	22:03:49
1	Co	228.616†	30645.6	31169.2	0.4940	mg/L	0.4940	mg/L	22:03:49
1	Cr	267.716†	63557.7	63563.8	0.4844	mg/L	0.4844	mg/L	22:03:39
1	Cu	324.752†	121399.4	118812.1	0.5091	mg/L	0.5091	mg/L	22:03:39
1	Fe	234.349†	4884.1	4940.9	2.415	mg/L	2.415	mg/L	22:03:29
1	K	766.490†	59016.2	58936.8	25.31	mg/L	25.31	mg/L	22:03:27
1	Li	670.784†	20423.9	20926.9	0.4933	mg/L	0.4933	mg/L	22:03:29
1	Mg	279.077†	80877.7	81502.2	5.291	mg/L	5.291	mg/L	22:03:39
1	Mn	257.610†	464793.6	453982.4	0.4878	mg/L	0.4878	mg/L	22:03:39
1	Mn	294.920†	223637.3	226800.5	0.4836	mg/L	0.4836	mg/L	22:03:39
1	Mo	202.031†	12712.5	12866.3	0.4829	mg/L	0.4829	mg/L	22:03:49
1	Na	589.592†	270831.0	269659.5	36.22	mg/L	36.22	mg/L	22:03:27
1	Ni	231.604†	26287.6	26407.0	0.4916	mg/L	0.4916	mg/L	22:03:39
1	P	214.914†	9451.6	9604.3	5.076	mg/L	5.076	mg/L	22:03:49
1	Pb	220.353†	8490.2	8402.9	0.4943	mg/L	0.4943	mg/L	22:03:49
1	Sb	206.836†	1277.6	1247.2	0.5144	mg/L	0.5144	mg/L	22:03:49
1	Se	196.026†	1872.9	1877.2	1.044	mg/L	1.044	mg/L	22:03:49
1	Sn	189.927†	3732.0	3736.6	0.4735	mg/L	0.4735	mg/L	22:03:49
1	Sr	407.771†	86847.1	87581.1	0.0744	mg/L	0.0744	mg/L	22:03:27
1	Ti	337.279†	444169.3	450477.5	0.4645	mg/L	0.4645	mg/L	22:03:39
1	Tl	190.801†	622.3	636.5	0.4731	mg/L	0.4731	mg/L	22:03:49
1	V	292.402†	124609.0	126916.5	0.5061	mg/L	0.5061	mg/L	22:03:39
1	Zn	213.857†	86923.6	87034.7	0.5310	mg/L	0.5310	mg/L	22:03:39
2	Y	371.029	3357104.7	3357104.7	0.993	mg/L			22:03:53
2	Ag	328.068†	48469.9	48080.5	0.2316	mg/L	0.2316	mg/L	22:03:53
2	Al	237.313†	25964.5	26538.0	2.442	mg/L	2.442	mg/L	22:04:03
2	As	188.979†	784.8	789.3	0.4847	mg/L	0.4847	mg/L	22:04:03
2	B	249.677†	1113.1	1136.3	0.4670	mg/L	0.4670	mg/L	22:03:34
2	B	182.528†	557.6	568.6	0.4710	mg/L	0.4710	mg/L	22:04:03
2	Ba	233.527†	64657.9	65209.0	0.4949	mg/L	0.4949	mg/L	22:03:53
2	Be	313.107†	141220.9	143665.9	0.0508	mg/L	0.0508	mg/L	22:03:53
2	Ca	315.887†	2350204.1	2367767.0	21.20	mg/L	21.20	mg/L	22:03:53
2	Cd	228.802†	9536.2	9457.1	0.2544	mg/L	0.2544	mg/L	22:04:03
2	Co	228.616†	30501.8	30898.3	0.4897	mg/L	0.4897	mg/L	22:04:03
2	Cr	267.716†	63889.7	63636.8	0.4849	mg/L	0.4849	mg/L	22:03:53
2	Cu	324.752†	122398.2	119318.8	0.5113	mg/L	0.5113	mg/L	22:03:53
2	Fe	234.349†	4791.2	4827.2	2.359	mg/L	2.359	mg/L	22:03:34
2	K	766.490†	58868.3	58545.1	25.14	mg/L	25.14	mg/L	22:03:32
2	Li	670.784†	20223.8	20641.4	0.4866	mg/L	0.4866	mg/L	22:03:34
2	Mg	279.077†	81501.6	81797.9	5.310	mg/L	5.310	mg/L	22:03:53
2	Mn	257.610†	468318.7	455621.2	0.4895	mg/L	0.4895	mg/L	22:03:53
2	Mn	294.920†	225399.1	227655.2	0.4854	mg/L	0.4854	mg/L	22:03:53
2	Mo	202.031†	12710.0	12811.5	0.4808	mg/L	0.4808	mg/L	22:04:03
2	Na	589.592†	270081.7	267791.0	35.97	mg/L	35.97	mg/L	22:03:32
2	Ni	231.604†	26479.1	26491.7	0.4932	mg/L	0.4932	mg/L	22:03:53
2	P	214.914†	9385.7	9499.1	5.021	mg/L	5.021	mg/L	22:04:03
2	Pb	220.353†	8518.0	8396.0	0.4939	mg/L	0.4939	mg/L	22:04:03
2	Sb	206.836†	1264.2	1228.5	0.5067	mg/L	0.5067	mg/L	22:04:03
2	Se	196.026†	1859.2	1855.7	1.032	mg/L	1.032	mg/L	22:04:03
2	Sn	189.927†	3713.9	3703.1	0.4695	mg/L	0.4695	mg/L	22:04:03
2	Sr	407.771†	86581.6	86956.6	0.0739	mg/L	0.0739	mg/L	22:03:32
2	Ti	337.279†	448789.5	453304.1	0.4674	mg/L	0.4674	mg/L	22:03:53
2	Tl	190.801†	626.4	638.0	0.4743	mg/L	0.4743	mg/L	22:04:03
2	V	292.402†	125440.2	127241.2	0.5073	mg/L	0.5073	mg/L	22:03:53
2	Zn	213.857†	87431.1	87188.4	0.5319	mg/L	0.5319	mg/L	22:03:53

Mean Data: CF32533-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3350278.4	0.991	mg/L	0.0029				0.29%
Ag 328.068†	47951.9	0.2310	mg/L	0.00087	0.2310	mg/L	0.00087	0.38%
Al 237.313†	26646.3	2.452	mg/L	0.0140	2.452	mg/L	0.0140	0.57%
As 188.979†	793.0	0.4869	mg/L	0.00318	0.4869	mg/L	0.00318	0.65%
B 249.677†	1132.8	0.4656	mg/L	0.00203	0.4656	mg/L	0.00203	0.44%
B 182.528†	580.1	0.4805	mg/L	0.01344	0.4805	mg/L	0.01344	2.80%

Ba 233.527†	65053.0	0.4938 mg/L	0.00167	0.4938 mg/L	0.00167	0.34%
Be 313.107†	143304.5	0.0506 mg/L	0.00018	0.0506 mg/L	0.00018	0.35%
Ca 315.887†	2363741.3	21.17 mg/L	0.051	21.17 mg/L	0.051	0.24%
Cd 228.802†	9490.4	0.2553 mg/L	0.00126	0.2553 mg/L	0.00126	0.49%
Co 228.616†	31033.8	0.4919 mg/L	0.00306	0.4919 mg/L	0.00306	0.62%
Cr 267.716†	63600.3	0.4847 mg/L	0.00039	0.4847 mg/L	0.00039	0.08%
Cu 324.752†	119065.5	0.5102 mg/L	0.00153	0.5102 mg/L	0.00153	0.30%
Fe 234.349†	4884.0	2.387 mg/L	0.0399	2.387 mg/L	0.0399	1.67%
K 766.490†	58741.0	25.23 mg/L	0.118	25.23 mg/L	0.118	0.47%
Li 670.784†	20784.2	0.4899 mg/L	0.00474	0.4899 mg/L	0.00474	0.97%
Mg 279.077†	81650.0	5.301 mg/L	0.0136	5.301 mg/L	0.0136	0.26%
Mn 257.610†	454801.8	0.4886 mg/L	0.00126	0.4886 mg/L	0.00126	0.26%
Mn 294.920†	227227.9	0.4845 mg/L	0.00129	0.4845 mg/L	0.00129	0.27%
Mo 202.031†	12838.9	0.4819 mg/L	0.00146	0.4819 mg/L	0.00146	0.30%
Na 589.592†	268725.3	36.09 mg/L	0.177	36.09 mg/L	0.177	0.49%
Ni 231.604†	26449.4	0.4924 mg/L	0.00111	0.4924 mg/L	0.00111	0.23%
P 214.914†	9551.7	5.049 mg/L	0.0390	5.049 mg/L	0.0390	0.77%
Pb 220.353†	8399.4	0.4941 mg/L	0.00029	0.4941 mg/L	0.00029	0.06%
Sb 206.836†	1237.9	0.5105 mg/L	0.00543	0.5105 mg/L	0.00543	1.06%
Se 196.026†	1866.4	1.038 mg/L	0.0084	1.038 mg/L	0.0084	0.81%
Sn 189.927†	3719.8	0.4715 mg/L	0.00288	0.4715 mg/L	0.00288	0.61%
Sr 407.771†	87268.8	0.0742 mg/L	0.00037	0.0742 mg/L	0.00037	0.50%
Ti 337.279†	451890.8	0.4660 mg/L	0.00205	0.4660 mg/L	0.00205	0.44%
Tl 190.801†	637.2	0.4737 mg/L	0.00081	0.4737 mg/L	0.00081	0.17%
V 292.402†	127078.8	0.5067 mg/L	0.00087	0.5067 mg/L	0.00087	0.17%
Zn 213.857†	87111.5	0.5314 mg/L	0.00066	0.5314 mg/L	0.00066	0.12%

Sequence No.: 103
Sample ID: CF32533-SD2 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 6/25/2013 10:05:42 PM
Data Type: Reprocessed on 6/26/2013 10:57:21 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32533-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3378145.3	3378145.3	0.999	mg/L			22:07:49
1	Ag 328.068†	785.2	49.1	0.0009	mg/L	0.0009	mg/L	22:07:51
1	Al 237.313†	-460.7	-73.6	0.0003	mg/L	0.0003	mg/L	22:08:01
1	As 188.979†	-0.6	-1.7	0.0016	mg/L	0.0016	mg/L	22:08:01
1	B 249.677†	-13.1	2.1	0.0034	mg/L	0.0034	mg/L	22:07:33
1	B 182.528†	-4.8	2.1	0.0056	mg/L	0.0056	mg/L	22:08:01
1	Ba 233.527†	164.3	252.2	0.0025	mg/L	0.0025	mg/L	22:08:01
1	Be 313.107†	-1320.8	110.8	0.0003	mg/L	0.0003	mg/L	22:07:51
1	Ca 315.887†	410618.5	411703.7	3.693	mg/L	3.693	mg/L	22:07:49
1	Cd 228.802†	149.9	2.6	0.0016	mg/L	0.0016	mg/L	22:08:01
1	Co 228.616†	-145.4	32.4	-0.0016	mg/L	-0.0016	mg/L	22:08:01
1	Cr 267.716†	520.3	-190.0	-0.0009	mg/L	-0.0009	mg/L	22:07:51
1	Cu 324.752†	4983.0	1030.8	0.0057	mg/L	0.0057	mg/L	22:07:51
1	Fe 234.349†	10.3	11.9	0.0104	mg/L	0.0104	mg/L	22:07:33
1	K 766.490†	1125.9	381.8	0.3065	mg/L	0.3065	mg/L	22:07:23
1	Li 670.784†	-236.9	35.5	0.0027	mg/L	0.0027	mg/L	22:07:23
1	Mg 279.077†	2386.0	2100.3	0.1344	mg/L	0.1344	mg/L	22:07:51
1	Mn 257.610†	15713.4	-326.8	-0.0004	mg/L	-0.0004	mg/L	22:08:01
1	Mn 294.920†	-859.3	-219.5	-0.0006	mg/L	-0.0006	mg/L	22:07:51
1	Mo 202.031†	13.1	23.6	0.0036	mg/L	0.0036	mg/L	22:08:01
1	Na 589.592†	23554.8	19349.4	2.680	mg/L	2.680	mg/L	22:07:23
1	Ni 231.604†	151.0	-26.0	-0.0010	mg/L	-0.0010	mg/L	22:08:01
1	P 214.914†	-48.8	-2.8	0.0470	mg/L	0.0470	mg/L	22:08:01
1	Pb 220.353†	128.1	-54.9	-0.0013	mg/L	-0.0013	mg/L	22:08:01
1	Sb 206.836†	36.7	-8.0	0.0011	mg/L	0.0011	mg/L	22:08:01
1	Se 196.026†	20.8	4.0	0.0066	mg/L	0.0066	mg/L	22:08:01
1	Sn 189.927†	-21.8	-59.3	-0.0034	mg/L	-0.0034	mg/L	22:08:01
1	Sr 407.771†	7446.1	7207.1	0.0064	mg/L	0.0064	mg/L	22:07:23
1	Ti 337.279†	-1816.1	-519.8	0.0023	mg/L	0.0023	mg/L	22:07:51
1	Tl 190.801†	-4.0	3.1	0.0014	mg/L	0.0014	mg/L	22:08:01
1	V 292.402†	-899.7	1.4	0.0024	mg/L	0.0024	mg/L	22:07:51
1	Zn 213.857†	1764.5	896.6	0.0060	mg/L	0.0060	mg/L	22:08:01
2	Y 371.029	3354904.3	3354904.3	0.992	mg/L			22:08:04
2	Ag 328.068†	701.4	-29.9	0.0005	mg/L	0.0005	mg/L	22:08:06

2	Al 237.313†	-398.1	-13.8	0.0058	mg/L	0.0058	mg/L	22:08:16
2	As 188.979†	-2.1	-3.2	0.0007	mg/L	0.0007	mg/L	22:08:16
2	B 249.677†	-9.3	5.8	0.0049	mg/L	0.0049	mg/L	22:07:45
2	B 182.528†	-5.2	1.8	0.0053	mg/L	0.0053	mg/L	22:08:16
2	Ba 233.527†	164.8	253.9	0.0025	mg/L	0.0025	mg/L	22:08:16
2	Be 313.107†	-1345.6	76.6	0.0002	mg/L	0.0002	mg/L	22:08:06
2	Ca 315.887†	412396.7	416343.0	3.735	mg/L	3.735	mg/L	22:08:04
2	Cd 228.802†	147.5	1.2	0.0015	mg/L	0.0015	mg/L	22:08:16
2	Co 228.616†	-138.4	38.4	-0.0015	mg/L	-0.0015	mg/L	22:08:16
2	Cr 267.716†	530.6	-176.0	-0.0008	mg/L	-0.0008	mg/L	22:08:06
2	Cu 324.752†	4844.8	926.0	0.0053	mg/L	0.0053	mg/L	22:08:06
2	Fe 234.349†	-8.1	-6.5	0.0012	mg/L	0.0012	mg/L	22:07:45
2	K 766.490†	1042.7	305.8	0.2740	mg/L	0.2740	mg/L	22:07:35
2	Li 670.784†	-361.3	-91.6	-0.0003	mg/L	-0.0003	mg/L	22:07:35
2	Mg 279.077†	2368.4	2099.1	0.1343	mg/L	0.1343	mg/L	22:08:06
2	Mn 257.610†	15645.6	-286.1	-0.0004	mg/L	-0.0004	mg/L	22:08:16
2	Mn 294.920†	-1009.8	-377.1	-0.0010	mg/L	-0.0010	mg/L	22:08:06
2	Mo 202.031†	0.0	10.4	0.0031	mg/L	0.0031	mg/L	22:08:16
2	Na 589.592†	23418.4	19375.2	2.683	mg/L	2.683	mg/L	22:07:35
2	Ni 231.604†	159.1	-16.8	-0.0008	mg/L	-0.0008	mg/L	22:08:16
2	P 214.914†	-54.6	-9.0	0.0438	mg/L	0.0438	mg/L	22:08:16
2	Pb 220.353†	116.7	-65.5	-0.0019	mg/L	-0.0019	mg/L	22:08:16
2	Sb 206.836†	38.0	-6.5	0.0017	mg/L	0.0017	mg/L	22:08:16
2	Se 196.026†	8.4	-8.4	-0.0002	mg/L	-0.0002	mg/L	22:08:16
2	Sn 189.927†	-5.2	-42.7	-0.0014	mg/L	-0.0014	mg/L	22:08:16
2	Sr 407.771†	7402.3	7214.6	0.0064	mg/L	0.0064	mg/L	22:07:35
2	Ti 337.279†	-1719.3	-434.8	0.0023	mg/L	0.0023	mg/L	22:08:06
2	Tl 190.801†	-3.0	4.1	0.0022	mg/L	0.0022	mg/L	22:08:16
2	V 292.402†	-846.7	48.5	0.0025	mg/L	0.0025	mg/L	22:08:06
2	Zn 213.857†	1708.9	852.9	0.0057	mg/L	0.0057	mg/L	22:08:16

Mean Data: CF32533-SD2 @5

Analyte	Mean Corrected Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3366524.8	0.996	mg/L	0.0049				0.49%
Ag 328.068†	9.6	0.0007	mg/L	0.00027	0.0007	mg/L	0.00027	38.53%
Al 237.313†	-43.7	0.0031	mg/L	0.00388	0.0031	mg/L	0.00388	125.74%
As 188.979†	-2.4	0.0012	mg/L	0.00065	0.0012	mg/L	0.00065	55.69%
B 249.677†	3.9	0.0041	mg/L	0.00106	0.0041	mg/L	0.00106	25.75%
B 182.528†	1.9	0.0055	mg/L	0.00021	0.0055	mg/L	0.00021	3.90%
Ba 233.527†	253.0	0.0025	mg/L	0.00001	0.0025	mg/L	0.00001	0.35%
Be 313.107†	93.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.46%
Ca 315.887†	414023.3	3.714	mg/L	0.0294	3.714	mg/L	0.0294	0.79%
Cd 228.802†	1.9	0.0016	mg/L	0.00003	0.0016	mg/L	0.00003	1.68%
Co 228.616†	35.4	-0.0015	mg/L	0.00007	-0.0015	mg/L	0.00007	4.49%
Cr 267.716†	-183.0	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.49%
Cu 324.752†	978.4	0.0055	mg/L	0.00032	0.0055	mg/L	0.00032	5.76%
Fe 234.349†	2.7	0.0058	mg/L	0.00650	0.0058	mg/L	0.00650	111.21%
K 766.490†	343.8	0.2903	mg/L	0.02297	0.2903	mg/L	0.02297	7.91%
Li 670.784†	-28.0	0.0012	mg/L	0.00211	0.0012	mg/L	0.00211	170.40%
Mg 279.077†	2099.7	0.1343	mg/L	0.00005	0.1343	mg/L	0.00005	0.04%
Mn 257.610†	-306.5	-0.0004	mg/L	0.00003	-0.0004	mg/L	0.00003	8.17%
Mn 294.920†	-298.3	-0.0008	mg/L	0.00024	-0.0008	mg/L	0.00024	29.40%
Mo 202.031†	17.0	0.0034	mg/L	0.00035	0.0034	mg/L	0.00035	10.21%
Na 589.592†	19362.3	2.681	mg/L	0.0024	2.681	mg/L	0.0024	0.09%
Ni 231.604†	-21.4	-0.0009	mg/L	0.00012	-0.0009	mg/L	0.00012	13.10%
P 214.914†	-5.9	0.0454	mg/L	0.00229	0.0454	mg/L	0.00229	5.04%
Pb 220.353†	-60.2	-0.0016	mg/L	0.00044	-0.0016	mg/L	0.00044	27.61%
Sb 206.836†	-7.3	0.0014	mg/L	0.00044	0.0014	mg/L	0.00044	31.35%
Se 196.026†	-2.2	0.0032	mg/L	0.00485	0.0032	mg/L	0.00485	150.61%
Sn 189.927†	-51.0	-0.0024	mg/L	0.00146	-0.0024	mg/L	0.00146	60.93%
Sr 407.771†	7210.9	0.0064	mg/L	0.00000	0.0064	mg/L	0.00000	0.07%
Ti 337.279†	-477.3	0.0023	mg/L	0.00006	0.0023	mg/L	0.00006	2.68%
Tl 190.801†	3.6	0.0018	mg/L	0.00054	0.0018	mg/L	0.00054	30.18%
V 292.402†	24.9	0.0024	mg/L	0.00013	0.0024	mg/L	0.00013	5.15%
Zn 213.857†	874.7	0.0059	mg/L	0.00019	0.0059	mg/L	0.00019	3.25%

Sequence No.: 104
Sample ID: 1306346-01
Analyst:
Logged In Analyst (Original) : ICP3

Autosampler Location: 69
Date Collected: 6/25/2013 10:09:55 PM
Data Type: Reprocessed on 6/26/2013 10:57:22 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306346-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3578122.8	3578122.8	1.06	mg/L			22:11:55
1	Ag 328.068†	-939.3	-1624.4	0.0065	mg/L	0.0065	mg/L	22:11:55
1	Al 237.313†	1220193.2	1153415.6	105.7	mg/L	105.7	mg/L	22:11:51
1	As 188.979†	547.4	516.2	0.3176	mg/L	0.3176	mg/L	22:12:05
1	B 249.677†	-122.8	-100.9	-0.0386	mg/L	-0.0386	mg/L	22:11:41
1	B 182.528†	60.1	63.8	0.0563	mg/L	0.0563	mg/L	22:12:05
1	Ba 233.527†	540668.3	510995.2	3.874	mg/L	3.874	mg/L	22:11:55
1	Be 313.107†	31354.2	31061.1	0.0103	mg/L	0.0103	mg/L	22:11:55
1	Ca 315.887†	6949145.5	6567350.9	58.79	mg/L	58.79	mg/L	22:11:51
1	Cd 228.802†	1252.9	1036.5	0.0200	mg/L	0.0200	mg/L	22:12:05
1	Co 228.616†	8560.2	8266.9	0.1220	mg/L	0.1220	mg/L	22:12:05
1	Cr 267.716†	40856.2	37896.5	0.2888	mg/L	0.2888	mg/L	22:11:55
1	Cu 324.752†	777246.7	730506.8	3.126	mg/L	3.126	mg/L	22:11:55
1	Fe 234.349†	1159068.8	1095270.0	542.2	mg/L	542.2	mg/L	22:11:39
1	K 766.490†	21669.8	19731.9	8.570	mg/L	8.570	mg/L	22:11:41
1	Li 670.784†	6971.9	6860.8	0.1630	mg/L	0.1630	mg/L	22:11:41
1	Mg 279.077†	365884.3	345456.5	22.45	mg/L	22.45	mg/L	22:11:55
1	Mn 257.610†	9168184.5	8647471.8	9.180	mg/L	9.180	mg/L	22:11:51
1	Mn 294.920†	4790873.7	4527802.9	9.658	mg/L	9.658	mg/L	22:11:55
1	Mo 202.031†	1313.9	1252.0	-0.0491	mg/L	-0.0491	mg/L	22:11:55
1	Na 589.592†	16209.6	11090.9	1.573	mg/L	1.573	mg/L	22:11:41
1	Ni 231.604†	15004.7	14001.6	0.2601	mg/L	0.2601	mg/L	22:11:55
1	P 214.914†	31665.5	29968.5	15.73	mg/L	15.73	mg/L	22:11:55
1	Pb 220.353†	330238.5	311877.5	18.21	mg/L	18.21	mg/L	22:11:55
1	Sb 206.836†	205.9	149.8	-0.1668	mg/L	-0.1668	mg/L	22:12:05
1	Se 196.026†	-143.4	-152.3	-0.0479	mg/L	-0.0479	mg/L	22:12:05
1	Sn 189.927†	31991.9	30193.4	3.746	mg/L	3.746	mg/L	22:12:05
1	Sr 407.771†	724863.1	684717.7	0.5799	mg/L	0.5799	mg/L	22:11:39
1	Ti 337.279†	3734801.0	3530518.5	3.622	mg/L	3.622	mg/L	22:11:55
1	Tl 190.801†	-26.3	-17.7	-0.2638	mg/L	-0.2638	mg/L	22:12:05
1	V 292.402†	124242.2	118305.2	0.4545	mg/L	0.4545	mg/L	22:11:55
1	Zn 213.857†	1473067.9	1391114.1	8.516	mg/L	8.516	mg/L	22:11:55
2	Y 371.029	3614575.2	3614575.2	1.07	mg/L			22:12:13
2	Ag 328.068†	-945.1	-1620.9	0.0065	mg/L	0.0065	mg/L	22:12:13
2	Al 237.313†	1207627.4	1130033.2	103.6	mg/L	103.6	mg/L	22:12:09
2	As 188.979†	550.2	513.7	0.3161	mg/L	0.3161	mg/L	22:12:23
2	B 249.677†	-101.4	-79.7	-0.0299	mg/L	-0.0299	mg/L	22:11:45
2	B 182.528†	67.0	69.6	0.0611	mg/L	0.0611	mg/L	22:12:23
2	Ba 233.527†	546479.6	511278.9	3.877	mg/L	3.877	mg/L	22:12:13
2	Be 313.107†	31766.7	31148.1	0.0103	mg/L	0.0103	mg/L	22:12:13
2	Ca 315.887†	6873504.4	6430370.9	57.56	mg/L	57.56	mg/L	22:12:09
2	Cd 228.802†	1269.4	1039.9	0.0201	mg/L	0.0201	mg/L	22:12:23
2	Co 228.616†	8598.0	8220.7	0.1212	mg/L	0.1212	mg/L	22:12:23
2	Cr 267.716†	41124.1	37757.8	0.2878	mg/L	0.2878	mg/L	22:12:13
2	Cu 324.752†	783603.8	729046.5	3.120	mg/L	3.120	mg/L	22:12:13
2	Fe 234.349†	1170309.9	1094739.7	542.0	mg/L	542.0	mg/L	22:11:43
2	K 766.490†	21601.2	19461.2	8.454	mg/L	8.454	mg/L	22:11:45
2	Li 670.784†	6751.0	6587.6	0.1566	mg/L	0.1566	mg/L	22:11:45
2	Mg 279.077†	369266.6	345133.6	22.42	mg/L	22.42	mg/L	22:12:13
2	Mn 257.610†	9083411.1	8480802.3	9.001	mg/L	9.001	mg/L	22:12:09
2	Mn 294.920†	4838002.3	4526232.5	9.654	mg/L	9.654	mg/L	22:12:13
2	Mo 202.031†	1350.5	1273.8	-0.0482	mg/L	-0.0482	mg/L	22:12:13
2	Na 589.592†	16073.7	10809.2	1.535	mg/L	1.535	mg/L	22:11:45
2	Ni 231.604†	15144.3	13989.3	0.2599	mg/L	0.2599	mg/L	22:12:13
2	P 214.914†	32105.1	30077.9	15.79	mg/L	15.79	mg/L	22:12:13
2	Pb 220.353†	333651.3	311922.9	18.21	mg/L	18.21	mg/L	22:12:13
2	Sb 206.836†	180.2	123.8	-0.1773	mg/L	-0.1773	mg/L	22:12:23
2	Se 196.026†	-159.1	-165.7	-0.0553	mg/L	-0.0553	mg/L	22:12:23
2	Sn 189.927†	32263.8	30142.9	3.739	mg/L	3.739	mg/L	22:12:23
2	Sr 407.771†	731618.1	684128.8	0.5794	mg/L	0.5794	mg/L	22:11:43
2	Ti 337.279†	3771668.6	3529413.9	3.621	mg/L	3.621	mg/L	22:12:13
2	Tl 190.801†	-29.9	-20.9	-0.2658	mg/L	-0.2658	mg/L	22:12:23
2	V 292.402†	125312.7	118122.5	0.4538	mg/L	0.4538	mg/L	22:12:13
2	Zn 213.857†	1486300.6	1389454.4	8.506	mg/L	8.506	mg/L	22:12:13

Mean Data: 1306346-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3596349.0	1.06 mg/L	0.008			0.72%
Ag 328.068†	-1622.6	0.0065 mg/L	0.00001	0.0065 mg/L	0.00001	0.11%
Al 237.313†	1141724.4	104.7 mg/L	1.52	104.7 mg/L	1.52	1.45%
As 188.979†	514.9	0.3169 mg/L	0.00109	0.3169 mg/L	0.00109	0.34%
B 249.677†	-90.3	-0.0343 mg/L	0.00612	-0.0343 mg/L	0.00612	17.87%
B 182.528†	66.7	0.0587 mg/L	0.00339	0.0587 mg/L	0.00339	5.78%
Ba 233.527†	511137.0	3.876 mg/L	0.0015	3.876 mg/L	0.0015	0.04%
Be 313.107†	31104.6	0.0103 mg/L	0.00002	0.0103 mg/L	0.00002	0.21%
Ca 315.887†	6498860.9	58.18 mg/L	0.867	58.18 mg/L	0.867	1.49%
Cd 228.802†	1038.2	0.0201 mg/L	0.00007	0.0201 mg/L	0.00007	0.34%
Co 228.616†	8243.8	0.1216 mg/L	0.00052	0.1216 mg/L	0.00052	0.43%
Cr 267.716†	37827.1	0.2883 mg/L	0.00075	0.2883 mg/L	0.00075	0.26%
Cu 324.752†	729776.7	3.123 mg/L	0.0044	3.123 mg/L	0.0044	0.14%
Fe 234.349†	1095004.8	542.1 mg/L	0.18	542.1 mg/L	0.18	0.03%
K 766.490†	19596.6	8.512 mg/L	0.0817	8.512 mg/L	0.0817	0.96%
Li 670.784†	6724.2	0.1598 mg/L	0.00454	0.1598 mg/L	0.00454	2.84%
Mg 279.077†	345295.0	22.44 mg/L	0.015	22.44 mg/L	0.015	0.07%
Mn 257.610†	8564137.1	9.090 mg/L	0.1267	9.090 mg/L	0.1267	1.39%
Mn 294.920†	4527017.7	9.656 mg/L	0.0024	9.656 mg/L	0.0024	0.02%
Mo 202.031†	1262.9	-0.0486 mg/L	0.00063	-0.0486 mg/L	0.00063	1.30%
Na 589.592†	10950.1	1.554 mg/L	0.0267	1.554 mg/L	0.0267	1.72%
Ni 231.604†	13995.4	0.2600 mg/L	0.00016	0.2600 mg/L	0.00016	0.06%
P 214.914†	30023.2	15.76 mg/L	0.041	15.76 mg/L	0.041	0.26%
Pb 220.353†	311900.2	18.21 mg/L	0.002	18.21 mg/L	0.002	0.01%
Sb 206.836†	136.8	-0.1721 mg/L	0.00743	-0.1721 mg/L	0.00743	4.32%
Se 196.026†	-159.0	-0.0516 mg/L	0.00524	-0.0516 mg/L	0.00524	10.15%
Sn 189.927†	30168.2	3.742 mg/L	0.0049	3.742 mg/L	0.0049	0.13%
Sr 407.771†	684423.2	0.5796 mg/L	0.00035	0.5796 mg/L	0.00035	0.06%
Ti 337.279†	3529966.2	3.621 mg/L	0.0008	3.621 mg/L	0.0008	0.02%
Tl 190.801†	-19.3	-0.2648 mg/L	0.00147	-0.2648 mg/L	0.00147	0.55%
V 292.402†	118213.9	0.4542 mg/L	0.00049	0.4542 mg/L	0.00049	0.11%
Zn 213.857†	1390284.3	8.511 mg/L	0.0072	8.511 mg/L	0.0072	0.08%

Sequence No.: 105

Sample ID: 1306346-02

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 70

Date Collected: 6/25/2013 10:15:32 PM

Data Type: Reprocessed on 6/26/2013 10:57:22 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306346-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3568371.8	3568371.8	1.06 mg/L		22:17:32
1	Ag 328.068†	363.5	-392.3	0.0063 mg/L	0.0063 mg/L	22:17:32
1	Al 237.313†	1043386.0	989035.0	90.68 mg/L	90.68 mg/L	22:17:29
1	As 188.979†	446.8	422.3	0.2604 mg/L	0.2604 mg/L	22:17:43
1	B 249.677†	-28.0	-11.3	-0.0020 mg/L	-0.0020 mg/L	22:17:19
1	B 182.528†	62.1	65.8	0.0580 mg/L	0.0580 mg/L	22:17:43
1	Ba 233.527†	643711.8	610029.0	4.625 mg/L	4.625 mg/L	22:17:32
1	Be 313.107†	30645.4	30470.5	0.0102 mg/L	0.0102 mg/L	22:17:32
1	Ca 315.887†	7292020.0	6910181.7	61.86 mg/L	61.86 mg/L	22:17:29
1	Cd 228.802†	735.8	549.7	0.0111 mg/L	0.0111 mg/L	22:17:43
1	Co 228.616†	6784.7	6606.7	0.0963 mg/L	0.0963 mg/L	22:17:43
1	Cr 267.716†	43048.6	40079.4	0.3054 mg/L	0.3054 mg/L	22:17:32
1	Cu 324.752†	934179.9	881213.9	3.769 mg/L	3.769 mg/L	22:17:32
1	Fe 234.349†	633747.7	600501.5	297.2 mg/L	297.2 mg/L	22:17:17
1	K 766.490†	17365.8	15709.6	6.852 mg/L	6.852 mg/L	22:17:19
1	Li 670.784†	5636.9	5613.8	0.1337 mg/L	0.1337 mg/L	22:17:19
1	Mg 279.077†	331914.2	314213.3	20.41 mg/L	20.41 mg/L	22:17:32
1	Mn 257.610†	4543483.8	4289067.9	4.547 mg/L	4.547 mg/L	22:17:32
1	Mn 294.920†	2346896.4	2224413.4	4.745 mg/L	4.745 mg/L	22:17:32
1	Mo 202.031†	1003.0	960.8	-0.0269 mg/L	-0.0269 mg/L	22:17:32
1	Na 589.592†	18178.5	12998.4	1.829 mg/L	1.829 mg/L	22:17:19
1	Ni 231.604†	12759.7	11913.2	0.2212 mg/L	0.2212 mg/L	22:17:43
1	P 214.914†	26996.4	25626.2	13.45 mg/L	13.45 mg/L	22:17:32
1	Pb 220.353†	280309.2	265420.4	15.50 mg/L	15.50 mg/L	22:17:32
1	Sb 206.836†	140.7	88.5	-0.0880 mg/L	-0.0880 mg/L	22:17:43

1	Se 196.026†	-69.7	-83.0	-0.0239 mg/L	-0.0239 mg/L	22:17:43
1	Sn 189.927†	14414.8	13621.1	1.713 mg/L	1.713 mg/L	22:17:43
1	Sr 407.771†	854848.4	809755.5	0.6857 mg/L	0.6857 mg/L	22:17:17
1	Ti 337.279†	3359415.7	3184470.8	3.267 mg/L	3.267 mg/L	22:17:32
1	Tl 190.801†	-12.7	-4.9	-0.1461 mg/L	-0.1461 mg/L	22:17:43
1	V 292.402†	86898.5	83241.5	0.3199 mg/L	0.3199 mg/L	22:17:32
1	Zn 213.857†	930392.8	880712.8	5.391 mg/L	5.391 mg/L	22:17:32
2	Y 371.029	3532644.5	3532644.5	1.04 mg/L	1.04 mg/L	22:17:49
2	Ag 328.068†	273.9	-474.6	0.0060 mg/L	0.0060 mg/L	22:17:49
2	Al 237.313†	1037081.4	992999.4	91.04 mg/L	91.04 mg/L	22:17:46
2	As 188.979†	441.9	421.9	0.2602 mg/L	0.2602 mg/L	22:18:00
2	B 249.677†	-1.0	14.2	0.0084 mg/L	0.0084 mg/L	22:17:23
2	B 182.528†	47.4	52.3	0.0469 mg/L	0.0469 mg/L	22:18:00
2	Ba 233.527†	636359.4	609160.4	4.619 mg/L	4.619 mg/L	22:17:49
2	Be 313.107†	30283.8	30418.0	0.0102 mg/L	0.0102 mg/L	22:17:49
2	Ca 315.887†	7246612.1	6936599.4	62.09 mg/L	62.09 mg/L	22:17:46
2	Cd 228.802†	745.4	566.0	0.0115 mg/L	0.0115 mg/L	22:18:00
2	Co 228.616†	6819.3	6704.8	0.0978 mg/L	0.0978 mg/L	22:18:00
2	Cr 267.716†	42613.7	40075.6	0.3054 mg/L	0.3054 mg/L	22:17:49
2	Cu 324.752†	926681.4	882989.2	3.777 mg/L	3.777 mg/L	22:17:49
2	Fe 234.349†	634839.7	607619.8	300.8 mg/L	300.8 mg/L	22:17:21
2	K 766.490†	17347.3	15858.4	6.915 mg/L	6.915 mg/L	22:17:23
2	Li 670.784†	5580.2	5613.6	0.1337 mg/L	0.1337 mg/L	22:17:23
2	Mg 279.077†	327876.5	313529.5	20.36 mg/L	20.36 mg/L	22:17:49
2	Mn 257.610†	4493895.0	4285145.1	4.542 mg/L	4.542 mg/L	22:17:49
2	Mn 294.920†	2321980.0	2223055.4	4.742 mg/L	4.742 mg/L	22:17:49
2	Mo 202.031†	993.6	961.4	-0.0274 mg/L	-0.0274 mg/L	22:17:49
2	Na 589.592†	18048.5	13048.1	1.835 mg/L	1.835 mg/L	22:17:23
2	Ni 231.604†	12790.0	12064.4	0.2240 mg/L	0.2240 mg/L	22:18:00
2	P 214.914†	26588.9	25494.8	13.38 mg/L	13.38 mg/L	22:17:49
2	Pb 220.353†	276536.8	264495.9	15.44 mg/L	15.44 mg/L	22:17:49
2	Sb 206.836†	150.3	99.1	-0.0852 mg/L	-0.0852 mg/L	22:18:00
2	Se 196.026†	-70.0	-83.9	-0.0242 mg/L	-0.0242 mg/L	22:18:00
2	Sn 189.927†	14389.8	13735.3	1.727 mg/L	1.727 mg/L	22:18:00
2	Sr 407.771†	855994.4	819044.3	0.6936 mg/L	0.6936 mg/L	22:17:21
2	Ti 337.279†	3322983.3	3181793.5	3.264 mg/L	3.264 mg/L	22:17:49
2	Tl 190.801†	1.4	8.4	-0.1376 mg/L	-0.1376 mg/L	22:18:00
2	V 292.402†	85996.1	83210.5	0.3198 mg/L	0.3198 mg/L	22:17:49
2	Zn 213.857†	920700.1	880351.6	5.389 mg/L	5.389 mg/L	22:17:49

Mean Data: 1306346-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3550508.1	1.05	mg/L	0.007				0.71%
Ag 328.068†	-433.5	0.0061	mg/L	0.00022	0.0061	mg/L	0.00022	3.55%
Al 237.313†	991017.2	90.86	mg/L	0.257	90.86	mg/L	0.257	0.28%
As 188.979†	422.1	0.2603	mg/L	0.00015	0.2603	mg/L	0.00015	0.06%
B 249.677†	1.5	0.0032	mg/L	0.00737	0.0032	mg/L	0.00737	231.91%
B 182.528†	59.1	0.0524	mg/L	0.00783	0.0524	mg/L	0.00783	14.94%
Ba 233.527†	609594.7	4.622	mg/L	0.0047	4.622	mg/L	0.0047	0.10%
Be 313.107†	30444.2	0.0102	mg/L	0.00001	0.0102	mg/L	0.00001	0.12%
Ca 315.887†	6923390.5	61.98	mg/L	0.167	61.98	mg/L	0.167	0.27%
Cd 228.802†	557.9	0.0113	mg/L	0.00027	0.0113	mg/L	0.00027	2.34%
Co 228.616†	6655.7	0.0970	mg/L	0.00111	0.0970	mg/L	0.00111	1.14%
Cr 267.716†	40077.5	0.3054	mg/L	0.00002	0.3054	mg/L	0.00002	0.01%
Cu 324.752†	882101.5	3.773	mg/L	0.0054	3.773	mg/L	0.0054	0.14%
Fe 234.349†	604060.6	299.0	mg/L	2.49	299.0	mg/L	2.49	0.83%
K 766.490†	15784.0	6.884	mg/L	0.0449	6.884	mg/L	0.0449	0.65%
Li 670.784†	5613.7	0.1337	mg/L	0.00000	0.1337	mg/L	0.00000	0.00%
Mg 279.077†	313871.4	20.39	mg/L	0.031	20.39	mg/L	0.031	0.15%
Mn 257.610†	4287106.5	4.544	mg/L	0.0035	4.544	mg/L	0.0035	0.08%
Mn 294.920†	2223734.4	4.743	mg/L	0.0020	4.743	mg/L	0.0020	0.04%
Mo 202.031†	961.1	-0.0272	mg/L	0.00039	-0.0272	mg/L	0.00039	1.42%
Na 589.592†	13023.2	1.832	mg/L	0.0047	1.832	mg/L	0.0047	0.26%
Ni 231.604†	11988.8	0.2226	mg/L	0.00199	0.2226	mg/L	0.00199	0.89%
P 214.914†	25560.5	13.41	mg/L	0.049	13.41	mg/L	0.049	0.36%
Pb 220.353†	264958.2	15.47	mg/L	0.038	15.47	mg/L	0.038	0.25%
Sb 206.836†	93.8	-0.0866	mg/L	0.00199	-0.0866	mg/L	0.00199	2.29%
Se 196.026†	-83.4	-0.0241	mg/L	0.00022	-0.0241	mg/L	0.00022	0.92%
Sn 189.927†	13678.2	1.720	mg/L	0.0100	1.720	mg/L	0.0100	0.58%
Sr 407.771†	814399.9	0.6897	mg/L	0.00556	0.6897	mg/L	0.00556	0.81%
Ti 337.279†	3183132.2	3.266	mg/L	0.0019	3.266	mg/L	0.0019	0.06%

Tl 190.801†	1.7	-0.1418 mg/L	0.00602	-0.1418 mg/L	0.00602	4.24%
V 292.402†	83226.0	0.3198 mg/L	0.00008	0.3198 mg/L	0.00008	0.03%
Zn 213.857†	880532.2	5.390 mg/L	0.0017	5.390 mg/L	0.0017	0.03%

Sequence No.: 106
Sample ID: 1306347-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 6/25/2013 10:21:09 PM
Data Type: Reprocessed on 6/26/2013 10:57:23 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306347-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3397363.6	3397363.6	1.00	mg/L			22:23:05
1	Ag 328.068†	-280.7	-1016.1	0.0002	mg/L	0.0002	mg/L	22:23:05
1	Al 237.313†	1419668.8	1413288.0	129.6	mg/L	129.6	mg/L	22:23:05
1	As 188.979†	79.1	77.7	0.0496	mg/L	0.0496	mg/L	22:23:15
1	B 249.677†	1.6	16.8	0.0094	mg/L	0.0094	mg/L	22:22:51
1	B 182.528†	45.9	52.6	0.0471	mg/L	0.0471	mg/L	22:23:15
1	Ba 233.527†	69519.8	69276.1	0.5258	mg/L	0.5258	mg/L	22:23:05
1	Be 313.107†	15176.7	16537.1	0.0048	mg/L	0.0048	mg/L	22:23:05
1	Ca 315.887†	19841539.4	19747662.7	176.8	mg/L	176.8	mg/L	22:23:01
1	Cd 228.802†	264.5	115.8	0.0016	mg/L	0.0016	mg/L	22:23:15
1	Co 228.616†	5879.4	6029.3	0.0831	mg/L	0.0831	mg/L	22:23:15
1	Cr 267.716†	25739.1	24905.6	0.1900	mg/L	0.1900	mg/L	22:23:05
1	Cu 324.752†	92781.1	88382.1	0.3849	mg/L	0.3849	mg/L	22:23:05
1	Fe 234.349†	352511.6	350832.6	173.4	mg/L	173.4	mg/L	22:22:49
1	K 766.490†	27859.2	26981.3	11.67	mg/L	11.67	mg/L	22:22:51
1	Li 670.784†	6623.8	6864.9	0.1631	mg/L	0.1631	mg/L	22:22:51
1	Mg 279.077†	802738.3	798623.4	51.86	mg/L	51.86	mg/L	22:23:05
1	Mn 257.610†	4379523.5	4342589.9	4.632	mg/L	4.632	mg/L	22:23:05
1	Mn 294.920†	2226737.1	2216761.7	4.728	mg/L	4.728	mg/L	22:23:05
1	Mo 202.031†	363.0	371.7	-0.0114	mg/L	-0.0114	mg/L	22:23:15
1	Na 589.592†	28915.9	24551.5	3.377	mg/L	3.377	mg/L	22:22:51
1	Ni 231.604†	7504.7	7291.8	0.1352	mg/L	0.1352	mg/L	22:23:15
1	P 214.914†	15538.0	15509.9	8.178	mg/L	8.178	mg/L	22:23:15
1	Pb 220.353†	11412.7	11175.2	0.6232	mg/L	0.6232	mg/L	22:23:15
1	Sb 206.836†	108.2	62.9	-0.0452	mg/L	-0.0452	mg/L	22:23:15
1	Se 196.026†	-54.7	-71.3	-0.0248	mg/L	-0.0248	mg/L	22:23:15
1	Sn 189.927†	-679.2	-713.4	0.0233	mg/L	0.0233	mg/L	22:23:15
1	Sr 407.771†	956395.7	951590.4	0.8058	mg/L	0.8058	mg/L	22:22:49
1	Ti 337.279†	4977669.1	4955235.9	5.082	mg/L	5.082	mg/L	22:23:05
1	Tl 190.801†	20.8	27.8	-0.0848	mg/L	-0.0848	mg/L	22:23:15
1	V 292.402†	87302.9	87788.5	0.3359	mg/L	0.3359	mg/L	22:23:05
1	Zn 213.857†	128345.0	126863.7	0.7706	mg/L	0.7706	mg/L	22:23:05
2	Y 371.029	3404258.8	3404258.8	1.01	mg/L			22:23:22
2	Ag 328.068†	-397.2	-1131.3	-0.0004	mg/L	-0.0004	mg/L	22:23:22
2	Al 237.313†	1421395.2	1412140.9	129.5	mg/L	129.5	mg/L	22:23:22
2	As 188.979†	96.2	94.5	0.0599	mg/L	0.0599	mg/L	22:23:33
2	B 249.677†	-28.1	-12.7	-0.0026	mg/L	-0.0026	mg/L	22:22:55
2	B 182.528†	42.0	48.7	0.0439	mg/L	0.0439	mg/L	22:23:33
2	Ba 233.527†	69657.6	69272.8	0.5258	mg/L	0.5258	mg/L	22:23:22
2	Be 313.107†	15169.7	16499.6	0.0048	mg/L	0.0048	mg/L	22:23:22
2	Ca 315.887†	19894342.1	19760110.8	176.9	mg/L	176.9	mg/L	22:23:19
2	Cd 228.802†	273.6	124.3	0.0019	mg/L	0.0019	mg/L	22:23:33
2	Co 228.616†	5938.5	6076.1	0.0839	mg/L	0.0839	mg/L	22:23:33
2	Cr 267.716†	25831.6	24945.6	0.1903	mg/L	0.1903	mg/L	22:23:22
2	Cu 324.752†	92769.3	88183.3	0.3841	mg/L	0.3841	mg/L	22:23:22
2	Fe 234.349†	353124.5	350730.8	173.4	mg/L	173.4	mg/L	22:22:53
2	K 766.490†	28000.6	27065.6	11.70	mg/L	11.70	mg/L	22:22:55
2	Li 670.784†	6701.8	6929.0	0.1646	mg/L	0.1646	mg/L	22:22:55
2	Mg 279.077†	802802.6	797069.1	51.76	mg/L	51.76	mg/L	22:23:22
2	Mn 257.610†	4385561.7	4339758.9	4.629	mg/L	4.629	mg/L	22:23:22
2	Mn 294.920†	2230217.2	2215729.5	4.726	mg/L	4.726	mg/L	22:23:22
2	Mo 202.031†	416.5	424.1	-0.0095	mg/L	-0.0095	mg/L	22:23:33
2	Na 589.592†	28958.1	24535.2	3.375	mg/L	3.375	mg/L	22:22:55
2	Ni 231.604†	7575.9	7347.3	0.1362	mg/L	0.1362	mg/L	22:23:33
2	P 214.914†	15646.8	15586.7	8.218	mg/L	8.218	mg/L	22:23:33
2	Pb 220.353†	11449.9	11189.1	0.6240	mg/L	0.6240	mg/L	22:23:33
2	Sb 206.836†	96.1	50.7	-0.0502	mg/L	-0.0502	mg/L	22:23:33

2	Se 196.026†	-49.9	-66.4	-0.0221 mg/L	-0.0221 mg/L	22:23:33
2	Sn 189.927†	-663.2	-696.2	0.0254 mg/L	0.0254 mg/L	22:23:33
2	Sr 407.771†	958793.1	952043.7	0.8062 mg/L	0.8062 mg/L	22:22:53
2	Ti 337.279†	4987017.1	4954486.5	5.081 mg/L	5.081 mg/L	22:23:22
2	Tl 190.801†	17.6	24.6	-0.0872 mg/L	-0.0872 mg/L	22:23:33
2	V 292.402†	87431.5	87740.3	0.3357 mg/L	0.3357 mg/L	22:23:22
2	Zn 213.857†	128321.1	126581.3	0.7688 mg/L	0.7688 mg/L	22:23:22

Mean Data: 1306347-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3400811.2	1.01 mg/L		0.001			0.14%
Ag 328.068†	-1073.7	-0.0001 mg/L		0.00039	-0.0001 mg/L	0.00039	435.17%
Al 237.313†	1412714.4	129.5 mg/L		0.07	129.5 mg/L	0.07	0.06%
As 188.979†	86.1	0.0547 mg/L		0.00724	0.0547 mg/L	0.00724	13.22%
B 249.677†	2.1	0.0034 mg/L		0.00851	0.0034 mg/L	0.00851	251.28%
B 182.528†	50.6	0.0455 mg/L		0.00231	0.0455 mg/L	0.00231	5.07%
Ba 233.527†	69274.5	0.5258 mg/L		0.00002	0.5258 mg/L	0.00002	0.00%
Be 313.107†	16518.4	0.0048 mg/L		0.00001	0.0048 mg/L	0.00001	0.19%
Ca 315.887†	19753886.8	176.8 mg/L		0.08	176.8 mg/L	0.08	0.04%
Cd 228.802†	120.1	0.0018 mg/L		0.00016	0.0018 mg/L	0.00016	9.18%
Co 228.616†	6052.7	0.0835 mg/L		0.00053	0.0835 mg/L	0.00053	0.63%
Cr 267.716†	24925.6	0.1901 mg/L		0.00022	0.1901 mg/L	0.00022	0.11%
Cu 324.752†	88282.7	0.3845 mg/L		0.00060	0.3845 mg/L	0.00060	0.16%
Fe 234.349†	350781.7	173.4 mg/L		0.04	173.4 mg/L	0.04	0.02%
K 766.490†	27023.5	11.68 mg/L		0.025	11.68 mg/L	0.025	0.22%
Li 670.784†	6896.9	0.1638 mg/L		0.00106	0.1638 mg/L	0.00106	0.65%
Mg 279.077†	797846.3	51.81 mg/L		0.071	51.81 mg/L	0.071	0.14%
Mn 257.610†	4341174.4	4.631 mg/L		0.0021	4.631 mg/L	0.0021	0.05%
Mn 294.920†	2216245.6	4.727 mg/L		0.0016	4.727 mg/L	0.0016	0.03%
Mo 202.031†	397.9	-0.0104 mg/L		0.00140	-0.0104 mg/L	0.00140	13.40%
Na 589.592†	24543.4	3.376 mg/L		0.0015	3.376 mg/L	0.0015	0.05%
Ni 231.604†	7319.6	0.1357 mg/L		0.00073	0.1357 mg/L	0.00073	0.54%
P 214.914†	15548.3	8.198 mg/L		0.0284	8.198 mg/L	0.0284	0.35%
Pb 220.353†	11182.2	0.6236 mg/L		0.00060	0.6236 mg/L	0.00060	0.10%
Sb 206.836†	56.8	-0.0477 mg/L		0.00350	-0.0477 mg/L	0.00350	7.35%
Se 196.026†	-68.9	-0.0234 mg/L		0.00192	-0.0234 mg/L	0.00192	8.18%
Sn 189.927†	-704.8	0.0244 mg/L		0.00154	0.0244 mg/L	0.00154	6.34%
Sr 407.771†	951817.1	0.8060 mg/L		0.00027	0.8060 mg/L	0.00027	0.03%
Ti 337.279†	4954861.2	5.082 mg/L		0.0005	5.082 mg/L	0.0005	0.01%
Tl 190.801†	26.2	-0.0860 mg/L		0.00172	-0.0860 mg/L	0.00172	2.00%
V 292.402†	87764.4	0.3358 mg/L		0.00011	0.3358 mg/L	0.00011	0.03%
Zn 213.857†	126722.5	0.7697 mg/L		0.00123	0.7697 mg/L	0.00123	0.16%

Sequence No.: 107

Sample ID: 1306347-02

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 72

Date Collected: 6/25/2013 10:25:09 PM

Data Type: Reprocessed on 6/26/2013 10:57:24 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306347-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3507477.9	3507477.9	1.04 mg/L			22:26:59
1	Ag 328.068†	-246.2	-974.2	0.0002 mg/L		0.0002 mg/L	22:27:01
1	Al 237.313†	1612446.5	1554766.6	142.5 mg/L		142.5 mg/L	22:26:59
1	As 188.979†	75.8	72.1	0.0462 mg/L		0.0462 mg/L	22:27:11
1	B 249.677†	-60.0	-42.6	-0.0149 mg/L		-0.0149 mg/L	22:26:49
1	B 182.528†	27.6	33.5	0.0314 mg/L		0.0314 mg/L	22:27:11
1	Ba 233.527†	60364.5	58278.4	0.4424 mg/L		0.4424 mg/L	22:27:01
1	Be 313.107†	16734.8	17565.0	0.0050 mg/L		0.0050 mg/L	22:27:01
1	Ca 315.887†	1580553.1	1524352.2	13.65 mg/L		13.65 mg/L	22:26:59
1	Cd 228.802†	255.8	99.2	0.0013 mg/L		0.0013 mg/L	22:27:11
1	Co 228.616†	5130.4	5123.6	0.0668 mg/L		0.0668 mg/L	22:27:11
1	Cr 267.716†	22065.2	20559.8	0.1569 mg/L		0.1569 mg/L	22:27:01
1	Cu 324.752†	49763.8	44015.0	0.1965 mg/L		0.1965 mg/L	22:27:01
1	Fe 234.349†	348772.8	336214.4	166.5 mg/L		166.5 mg/L	22:26:47
1	K 766.490†	15996.4	14675.3	6.410 mg/L		6.410 mg/L	22:26:49
1	Li 670.784†	4799.9	4899.6	0.1169 mg/L		0.1169 mg/L	22:26:49

1	Mg	279.077†	509887.3	491237.4	31.90	mg/L	31.90	mg/L	22:26:59
1	Mn	257.610†	3249314.3	3116245.8	3.315	mg/L	3.315	mg/L	22:26:59
1	Mn	294.920†	1655752.6	1596766.3	3.406	mg/L	3.406	mg/L	22:26:59
1	Mo	202.031†	85.9	93.3	-0.0197	mg/L	-0.0197	mg/L	22:27:01
1	Na	589.592†	17479.6	12623.6	1.779	mg/L	1.779	mg/L	22:26:49
1	Ni	231.604†	6704.0	6285.5	0.1164	mg/L	0.1164	mg/L	22:27:01
1	P	214.914†	13112.3	12686.2	6.699	mg/L	6.699	mg/L	22:27:01
1	Pb	220.353†	7361.9	6913.6	0.3708	mg/L	0.3708	mg/L	22:27:01
1	Sb	206.836†	92.9	44.7	-0.0494	mg/L	-0.0494	mg/L	22:27:11
1	Se	196.026†	-21.5	-37.6	-0.0065	mg/L	-0.0065	mg/L	22:27:11
1	Sn	189.927†	-138.6	-171.1	-0.0110	mg/L	-0.0110	mg/L	22:27:11
1	Sr	407.771†	141139.9	135811.6	0.1153	mg/L	0.1153	mg/L	22:26:47
1	Ti	337.279†	6043627.7	5827282.6	5.976	mg/L	5.976	mg/L	22:26:59
1	Tl	190.801†	-11.4	-3.8	-0.0802	mg/L	-0.0802	mg/L	22:27:11
1	V	292.402†	83300.4	81202.5	0.3082	mg/L	0.3082	mg/L	22:27:01
1	Zn	213.857†	69246.4	65883.3	0.3967	mg/L	0.3967	mg/L	22:27:01
2	Y	371.029	3507909.8	3507909.8	1.04	mg/L	1.04	mg/L	22:27:15
2	Ag	328.068†	-283.2	-1009.7	-0.0001	mg/L	-0.0001	mg/L	22:27:17
2	Al	237.313†	1611975.0	1554120.7	142.5	mg/L	142.5	mg/L	22:27:15
2	As	188.979†	88.6	84.4	0.0537	mg/L	0.0537	mg/L	22:27:27
2	B	249.677†	-62.0	-44.6	-0.0157	mg/L	-0.0157	mg/L	22:26:53
2	B	182.528†	23.7	29.8	0.0284	mg/L	0.0284	mg/L	22:27:27
2	Ba	233.527†	61484.3	59350.5	0.4505	mg/L	0.4505	mg/L	22:27:17
2	Be	313.107†	17062.6	17878.9	0.0051	mg/L	0.0051	mg/L	22:27:17
2	Ca	315.887†	1576333.5	1520097.5	13.62	mg/L	13.62	mg/L	22:27:15
2	Cd	228.802†	262.3	105.4	0.0016	mg/L	0.0016	mg/L	22:27:27
2	Co	228.616†	5153.0	5144.7	0.0671	mg/L	0.0671	mg/L	22:27:27
2	Cr	267.716†	22252.2	20737.4	0.1583	mg/L	0.1583	mg/L	22:27:17
2	Cu	324.752†	50436.5	44657.5	0.1992	mg/L	0.1992	mg/L	22:27:17
2	Fe	234.349†	340882.2	328567.5	162.7	mg/L	162.7	mg/L	22:26:51
2	K	766.490†	15929.0	14608.4	6.382	mg/L	6.382	mg/L	22:26:53
2	Li	670.784†	4803.7	4902.7	0.1170	mg/L	0.1170	mg/L	22:26:53
2	Mg	279.077†	508338.5	489684.0	31.80	mg/L	31.80	mg/L	22:27:15
2	Mn	257.610†	3247508.2	3114119.3	3.313	mg/L	3.313	mg/L	22:27:15
2	Mn	294.920†	1654996.9	1595841.4	3.404	mg/L	3.404	mg/L	22:27:15
2	Mo	202.031†	83.5	90.9	-0.0193	mg/L	-0.0193	mg/L	22:27:17
2	Na	589.592†	17550.5	12689.9	1.787	mg/L	1.787	mg/L	22:26:53
2	Ni	231.604†	6842.5	6418.1	0.1189	mg/L	0.1189	mg/L	22:27:17
2	P	214.914†	13443.4	13003.8	6.866	mg/L	6.866	mg/L	22:27:17
2	Pb	220.353†	7400.7	6950.2	0.3730	mg/L	0.3730	mg/L	22:27:17
2	Sb	206.836†	90.5	42.4	-0.0487	mg/L	-0.0487	mg/L	22:27:27
2	Se	196.026†	-34.4	-50.0	-0.0137	mg/L	-0.0137	mg/L	22:27:27
2	Sn	189.927†	-116.1	-149.4	-0.0083	mg/L	-0.0083	mg/L	22:27:27
2	Sr	407.771†	137973.5	132742.8	0.1127	mg/L	0.1127	mg/L	22:26:51
2	Ti	337.279†	6038227.3	5821360.1	5.970	mg/L	5.970	mg/L	22:27:15
2	Tl	190.801†	-16.4	-8.7	-0.0823	mg/L	-0.0823	mg/L	22:27:27
2	V	292.402†	84574.1	82420.2	0.3130	mg/L	0.3130	mg/L	22:27:17
2	Zn	213.857†	70479.9	67064.0	0.4041	mg/L	0.4041	mg/L	22:27:17

Mean Data: 1306347-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3507693.9	1.04 mg/L	0.000			0.01%
Ag 328.068†	-991.9	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	267.20%
Al 237.313†	1554443.6	142.5 mg/L	0.04	142.5 mg/L	0.04	0.03%
As 188.979†	78.2	0.0500 mg/L	0.00532	0.0500 mg/L	0.00532	10.65%
B 249.677†	-43.6	-0.0153 mg/L	0.00056	-0.0153 mg/L	0.00056	3.65%
B 182.528†	31.7	0.0299 mg/L	0.00218	0.0299 mg/L	0.00218	7.28%
Ba 233.527†	58814.5	0.4465 mg/L	0.00575	0.4465 mg/L	0.00575	1.29%
Be 313.107†	17721.9	0.0050 mg/L	0.00008	0.0050 mg/L	0.00008	1.57%
Ca 315.887†	1522224.9	13.63 mg/L	0.027	13.63 mg/L	0.027	0.20%
Cd 228.802†	102.3	0.0014 mg/L	0.00016	0.0014 mg/L	0.00016	11.37%
Co 228.616†	5134.2	0.0670 mg/L	0.00025	0.0670 mg/L	0.00025	0.37%
Cr 267.716†	20648.6	0.1576 mg/L	0.00096	0.1576 mg/L	0.00096	0.61%
Cu 324.752†	44336.2	0.1978 mg/L	0.00194	0.1978 mg/L	0.00194	0.98%
Fe 234.349†	332391.0	164.6 mg/L	2.68	164.6 mg/L	2.68	1.63%
K 766.490†	14641.9	6.396 mg/L	0.202	6.396 mg/L	0.202	0.32%
Li 670.784†	4901.2	0.1170 mg/L	0.00005	0.1170 mg/L	0.00005	0.04%
Mg 279.077†	490460.7	31.85 mg/L	0.071	31.85 mg/L	0.071	0.22%
Mn 257.610†	3115182.6	3.314 mg/L	0.0010	3.314 mg/L	0.0010	0.03%
Mn 294.920†	1596303.8	3.405 mg/L	0.0014	3.405 mg/L	0.0014	0.04%
Mo 202.031†	92.1	-0.0195 mg/L	0.00033	-0.0195 mg/L	0.00033	1.68%

2	Mg	279.077†	527535.4	509994.7	33.12	mg/L	33.12	mg/L	22:31:13
2	Mn	257.610†	3099376.0	2981957.9	3.171	mg/L	3.171	mg/L	22:31:13
2	Mn	294.920†	1579488.7	1528472.7	3.260	mg/L	3.260	mg/L	22:31:13
2	Mo	202.031†	95.1	102.4	-0.0189	mg/L	-0.0189	mg/L	22:31:25
2	Na	589.592†	18457.9	13627.8	1.913	mg/L	1.913	mg/L	22:30:51
2	Ni	231.604†	7051.0	6643.3	0.1231	mg/L	0.1231	mg/L	22:31:25
2	P	214.914†	12929.4	12552.6	6.629	mg/L	6.629	mg/L	22:31:25
2	Pb	220.353†	7640.3	7207.3	0.3853	mg/L	0.3853	mg/L	22:31:25
2	Sb	206.836†	89.4	41.7	-0.0490	mg/L	-0.0490	mg/L	22:31:25
2	Se	196.026†	-28.6	-44.5	-0.0106	mg/L	-0.0106	mg/L	22:31:25
2	Sn	189.927†	-105.2	-139.2	-0.0067	mg/L	-0.0067	mg/L	22:31:25
2	Sr	407.771†	160561.5	155064.7	0.1316	mg/L	0.1316	mg/L	22:30:49
2	Ti	337.279†	6527662.8	6315476.0	6.476	mg/L	6.476	mg/L	22:31:13
2	Tl	190.801†	-12.5	-5.0	-0.0794	mg/L	-0.0794	mg/L	22:31:25
2	V	292.402†	81036.9	79288.4	0.2998	mg/L	0.2998	mg/L	22:31:15
2	Zn	213.857†	70987.2	67796.2	0.4085	mg/L	0.4085	mg/L	22:31:15

Mean Data: CF32408-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3482018.0	1.03 mg/L	0.006			0.55%
Ag 328.068†	-951.9	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.78%
Al 237.313†	1670574.8	153.2 mg/L	0.07	153.2 mg/L	0.07	0.05%
As 188.979†	87.1	0.0554 mg/L	0.00074	0.0554 mg/L	0.00074	1.34%
B 249.677†	-38.2	-0.0131 mg/L	0.00124	-0.0131 mg/L	0.00124	9.49%
B 182.528†	30.8	0.0292 mg/L	0.00324	0.0292 mg/L	0.00324	11.11%
Ba 233.527†	60747.6	0.4611 mg/L	0.00617	0.4611 mg/L	0.00617	1.34%
Be 313.107†	18446.3	0.0052 mg/L	0.00008	0.0052 mg/L	0.00008	1.47%
Ca 315.887†	1586575.9	14.21 mg/L	0.011	14.21 mg/L	0.011	0.08%
Cd 228.802†	96.6	0.0013 mg/L	0.00024	0.0013 mg/L	0.00024	18.19%
Co 228.616†	5154.1	0.0662 mg/L	0.00050	0.0662 mg/L	0.00050	0.76%
Cr 267.716†	21002.5	0.1603 mg/L	0.00282	0.1603 mg/L	0.00282	1.76%
Cu 324.752†	47032.1	0.2100 mg/L	0.00265	0.2100 mg/L	0.00265	1.26%
Fe 234.349†	328696.2	162.7 mg/L	0.28	162.7 mg/L	0.28	0.17%
K 766.490†	15608.8	6.809 mg/L	0.0683	6.809 mg/L	0.0683	1.00%
Li 670.784†	5335.7	0.1272 mg/L	0.00037	0.1272 mg/L	0.00037	0.29%
Mg 279.077†	509469.4	33.09 mg/L	0.048	33.09 mg/L	0.048	0.15%
Mn 257.610†	2981557.9	3.171 mg/L	0.0007	3.171 mg/L	0.0007	0.02%
Mn 294.920†	1528511.7	3.260 mg/L	0.0001	3.260 mg/L	0.0001	0.00%
Mo 202.031†	113.0	-0.0185 mg/L	0.00051	-0.0185 mg/L	0.00051	2.73%
Na 589.592†	13694.6	1.922 mg/L	0.0127	1.922 mg/L	0.0127	0.66%
Ni 231.604†	6593.5	0.1222 mg/L	0.00131	0.1222 mg/L	0.00131	1.07%
P 214.914†	12479.4	6.591 mg/L	0.0542	6.591 mg/L	0.0542	0.82%
Pb 220.353†	7212.4	0.3856 mg/L	0.00044	0.3856 mg/L	0.00044	0.11%
Sb 206.836†	45.7	-0.0474 mg/L	0.00220	-0.0474 mg/L	0.00220	4.64%
Se 196.026†	-44.3	-0.0105 mg/L	0.00014	-0.0105 mg/L	0.00014	1.29%
Sn 189.927†	-149.4	-0.0080 mg/L	0.00177	-0.0080 mg/L	0.00177	22.22%
Sr 407.771†	155131.0	0.1316 mg/L	0.00008	0.1316 mg/L	0.00008	0.06%
Ti 337.279†	6315594.0	6.476 mg/L	0.0002	6.476 mg/L	0.0002	0.00%
Tl 190.801†	-5.1	-0.0796 mg/L	0.00027	-0.0796 mg/L	0.00027	0.34%
V 292.402†	79935.7	0.3023 mg/L	0.00360	0.3023 mg/L	0.00360	1.19%
Zn 213.857†	68415.9	0.4123 mg/L	0.00538	0.4123 mg/L	0.00538	1.30%

Sequence No.: 109

Sample ID: CF32408-MS1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 74

Date Collected: 6/25/2013 10:33:01 PM

Data Type: Reprocessed on 6/26/2013 10:57:25 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32408-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3469933.5	3469933.5	1.03 mg/L		22:34:53
1	Ag 328.068†	45422.4	43523.6	0.2142 mg/L	0.2142 mg/L	22:34:55
1	Al 237.313†	1877843.2	1830192.2	167.8 mg/L	167.8 mg/L	22:34:53
1	As 188.979†	761.5	741.0	0.4547 mg/L	0.4547 mg/L	22:35:05
1	B 249.677†	908.9	900.8	0.3708 mg/L	0.3708 mg/L	22:34:42
1	B 182.528†	478.5	473.2	0.3927 mg/L	0.3927 mg/L	22:35:05
1	Ba 233.527†	119984.5	117002.9	0.8876 mg/L	0.8876 mg/L	22:34:55

1	Be	313.107†	145837.8	143539.8	0.0491 mg/L	0.0491 mg/L	22:34:55
1	Ca	315.887†	2318007.4	2259426.8	20.23 mg/L	20.23 mg/L	22:34:53
1	Cd	228.802†	8451.1	8087.5	0.2148 mg/L	0.2148 mg/L	22:35:05
1	Co	228.616†	33211.2	32539.6	0.5010 mg/L	0.5010 mg/L	22:35:05
1	Cr	267.716†	84523.7	81650.6	0.6219 mg/L	0.6219 mg/L	22:34:55
1	Cu	324.752†	160153.2	152099.6	0.6596 mg/L	0.6596 mg/L	22:34:55
1	Fe	234.349†	368484.7	359059.9	177.8 mg/L	177.8 mg/L	22:34:40
1	K	766.490†	67451.1	64980.5	27.89 mg/L	27.89 mg/L	22:34:42
1	Li	670.784†	25750.7	25364.6	0.5975 mg/L	0.5975 mg/L	22:34:42
1	Mg	279.077†	690725.8	672768.0	43.69 mg/L	43.69 mg/L	22:34:53
1	Mn	257.610†	3668315.0	3558419.0	3.788 mg/L	3.788 mg/L	22:34:53
1	Mn	294.920†	1872776.5	1825508.3	3.894 mg/L	3.894 mg/L	22:34:53
1	Mo	202.031†	10944.0	10674.4	0.3735 mg/L	0.3735 mg/L	22:35:05
1	Na	589.592†	184514.4	175567.8	23.61 mg/L	23.61 mg/L	22:34:40
1	Ni	231.604†	31620.1	30634.0	0.5701 mg/L	0.5701 mg/L	22:34:55
1	P	214.914†	22045.8	21527.9	11.33 mg/L	11.33 mg/L	22:34:55
1	Pb	220.353†	15261.5	14688.0	0.8205 mg/L	0.8205 mg/L	22:35:05
1	Sb	206.836†	514.7	456.7	0.1144 mg/L	0.1144 mg/L	22:35:05
1	Se	196.026†	1436.5	1382.9	0.7804 mg/L	0.7804 mg/L	22:35:05
1	Sn	189.927†	3402.3	3277.8	0.4166 mg/L	0.4166 mg/L	22:35:05
1	Sr	407.771†	222403.8	216468.7	0.1835 mg/L	0.1835 mg/L	22:34:40
1	Ti	337.279†	7370605.3	7183350.6	7.366 mg/L	7.366 mg/L	22:34:53
1	Tl	190.801†	523.4	517.2	0.3046 mg/L	0.3046 mg/L	22:35:05
1	V	292.402†	202640.7	198358.6	0.7707 mg/L	0.7707 mg/L	22:34:55
1	Zn	213.857†	151143.6	146407.7	0.8871 mg/L	0.8871 mg/L	22:34:55
2	Y	371.029	3455869.5	3455869.5	1.02 mg/L	1.02 mg/L	22:35:09
2	Ag	328.068†	45497.2	43777.0	0.2154 mg/L	0.2154 mg/L	22:35:11
2	Al	237.313†	1862885.0	1823003.9	167.1 mg/L	167.1 mg/L	22:35:09
2	As	188.979†	757.6	740.2	0.4542 mg/L	0.4542 mg/L	22:35:21
2	B	249.677†	879.1	875.3	0.3603 mg/L	0.3603 mg/L	22:34:47
2	B	182.528†	482.8	479.3	0.3977 mg/L	0.3977 mg/L	22:35:21
2	Ba	233.527†	120480.3	117963.8	0.8949 mg/L	0.8949 mg/L	22:35:11
2	Be	313.107†	146079.2	144354.3	0.0494 mg/L	0.0494 mg/L	22:35:11
2	Ca	315.887†	2297207.5	2248268.6	20.13 mg/L	20.13 mg/L	22:35:09
2	Cd	228.802†	8451.3	8121.1	0.2157 mg/L	0.2157 mg/L	22:35:21
2	Co	228.616†	33255.8	32714.8	0.5039 mg/L	0.5039 mg/L	22:35:21
2	Cr	267.716†	84687.0	82145.5	0.6257 mg/L	0.6257 mg/L	22:35:11
2	Cu	324.752†	160284.0	152862.6	0.6628 mg/L	0.6628 mg/L	22:35:11
2	Fe	234.349†	369891.3	361897.3	179.2 mg/L	179.2 mg/L	22:34:45
2	K	766.490†	66589.6	64405.1	27.65 mg/L	27.65 mg/L	22:34:47
2	Li	670.784†	25377.6	25101.6	0.5913 mg/L	0.5913 mg/L	22:34:47
2	Mg	279.077†	684658.8	669571.2	43.48 mg/L	43.48 mg/L	22:35:09
2	Mn	257.610†	3643106.2	3548301.9	3.777 mg/L	3.777 mg/L	22:35:09
2	Mn	294.920†	1859622.5	1820065.1	3.882 mg/L	3.882 mg/L	22:35:09
2	Mo	202.031†	10931.8	10705.9	0.3744 mg/L	0.3744 mg/L	22:35:21
2	Na	589.592†	185281.2	177049.7	23.81 mg/L	23.81 mg/L	22:34:45
2	Ni	231.604†	31718.4	30855.6	0.5742 mg/L	0.5742 mg/L	22:35:11
2	P	214.914†	22036.6	21606.3	11.37 mg/L	11.37 mg/L	22:35:11
2	Pb	220.353†	15265.1	14752.0	0.8244 mg/L	0.8244 mg/L	22:35:21
2	Sb	206.836†	514.9	459.0	0.1147 mg/L	0.1147 mg/L	22:35:21
2	Se	196.026†	1430.2	1382.5	0.7803 mg/L	0.7803 mg/L	22:35:21
2	Sn	189.927†	3407.4	3296.2	0.4188 mg/L	0.4188 mg/L	22:35:21
2	Sr	407.771†	223488.9	218412.3	0.1852 mg/L	0.1852 mg/L	22:34:45
2	Ti	337.279†	7319676.9	7162751.2	7.345 mg/L	7.345 mg/L	22:35:09
2	Tl	190.801†	534.5	530.1	0.3137 mg/L	0.3137 mg/L	22:35:21
2	V	292.402†	202861.8	199378.6	0.7748 mg/L	0.7748 mg/L	22:35:11
2	Zn	213.857†	151296.3	147156.5	0.8916 mg/L	0.8916 mg/L	22:35:11

Mean Data: CF32408-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3462901.5	1.02	mg/L	0.003				0.29%
Ag 328.068†	43650.3	0.2148	mg/L	0.00089	0.2148	mg/L	0.00089	0.41%
Al 237.313†	1826598.1	167.5	mg/L	0.47	167.5	mg/L	0.47	0.28%
As 188.979†	740.6	0.4544	mg/L	0.00036	0.4544	mg/L	0.00036	0.08%
B 249.677†	888.0	0.3656	mg/L	0.00737	0.3656	mg/L	0.00737	2.02%
B 182.528†	476.3	0.3952	mg/L	0.00355	0.3952	mg/L	0.00355	0.90%
Ba 233.527†	117483.3	0.8912	mg/L	0.00515	0.8912	mg/L	0.00515	0.58%
Be 313.107†	143947.0	0.0492	mg/L	0.00021	0.0492	mg/L	0.00021	0.42%
Ca 315.887†	2253847.7	20.18	mg/L	0.071	20.18	mg/L	0.071	0.35%
Cd 228.802†	8104.3	0.2152	mg/L	0.00062	0.2152	mg/L	0.00062	0.29%
Co 228.616†	32627.2	0.5024	mg/L	0.00201	0.5024	mg/L	0.00201	0.40%

Cr 267.716†	81898.1	0.6238 mg/L	0.00266	0.6238 mg/L	0.00266	0.43%
Cu 324.752†	152481.1	0.6612 mg/L	0.00229	0.6612 mg/L	0.00229	0.35%
Fe 234.349†	360478.6	178.5 mg/L	0.99	178.5 mg/L	0.99	0.56%
K 766.490†	64692.8	27.77 mg/L	0.174	27.77 mg/L	0.174	0.63%
Li 670.784†	25233.1	0.5944 mg/L	0.00437	0.5944 mg/L	0.00437	0.73%
Mg 279.077†	671169.6	43.59 mg/L	0.147	43.59 mg/L	0.147	0.34%
Mn 257.610†	3553360.4	3.782 mg/L	0.0079	3.782 mg/L	0.0079	0.21%
Mn 294.920†	1822786.7	3.888 mg/L	0.0082	3.888 mg/L	0.0082	0.21%
Mo 202.031†	10690.2	0.3739 mg/L	0.00067	0.3739 mg/L	0.00067	0.18%
Na 589.592†	176308.7	23.71 mg/L	0.140	23.71 mg/L	0.140	0.59%
Ni 231.604†	30744.8	0.5722 mg/L	0.00292	0.5722 mg/L	0.00292	0.51%
P 214.914†	21567.1	11.35 mg/L	0.029	11.35 mg/L	0.029	0.26%
Pb 220.353†	14720.0	0.8225 mg/L	0.00277	0.8225 mg/L	0.00277	0.34%
Sb 206.836†	457.9	0.1145 mg/L	0.00022	0.1145 mg/L	0.00022	0.19%
Se 196.026†	1382.7	0.7803 mg/L	0.00012	0.7803 mg/L	0.00012	0.02%
Sn 189.927†	3287.0	0.4177 mg/L	0.00155	0.4177 mg/L	0.00155	0.37%
Sr 407.771†	217440.5	0.1844 mg/L	0.00116	0.1844 mg/L	0.00116	0.63%
Ti 337.279†	7173050.9	7.355 mg/L	0.0149	7.355 mg/L	0.0149	0.20%
Tl 190.801†	523.6	0.3092 mg/L	0.00644	0.3092 mg/L	0.00644	2.08%
V 292.402†	198868.6	0.7727 mg/L	0.00287	0.7727 mg/L	0.00287	0.37%
Zn 213.857†	146782.1	0.8893 mg/L	0.00318	0.8893 mg/L	0.00318	0.36%

Sequence No.: 110
Sample ID: CF32408-SD1 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 75
Date Collected: 6/25/2013 10:36:58 PM
Data Type: Reprocessed on 6/26/2013 10:57:25 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32408-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3376161.8	3376161.8	0.999	mg/L			22:39:07
1	Ag 328.068†	463.4	-272.7	0.0002	mg/L	0.0002	mg/L	22:39:09
1	Al 237.313†	329302.2	330177.8	30.28	mg/L	30.28	mg/L	22:39:09
1	As 188.979†	17.9	16.9	0.0129	mg/L	0.0129	mg/L	22:39:20
1	B 249.677†	-22.2	-7.0	-0.0003	mg/L	-0.0003	mg/L	22:38:51
1	B 182.528†	6.4	13.4	0.0149	mg/L	0.0149	mg/L	22:39:20
1	Ba 233.527†	12462.3	12568.5	0.0959	mg/L	0.0959	mg/L	22:39:09
1	Be 313.107†	2385.4	3821.7	0.0013	mg/L	0.0013	mg/L	22:39:09
1	Ca 315.887†	318783.0	319973.6	2.873	mg/L	2.873	mg/L	22:39:07
1	Cd 228.802†	168.6	21.4	0.0015	mg/L	0.0015	mg/L	22:39:20
1	Co 228.616†	960.7	1140.0	0.0134	mg/L	0.0134	mg/L	22:39:20
1	Cr 267.716†	4986.5	4283.1	0.0331	mg/L	0.0331	mg/L	22:39:09
1	Cu 324.752†	13670.6	9734.2	0.0444	mg/L	0.0444	mg/L	22:39:09
1	Fe 234.349†	69378.1	69482.6	34.41	mg/L	34.41	mg/L	22:38:40
1	K 766.490†	3673.9	2934.2	1.396	mg/L	1.396	mg/L	22:38:40
1	Li 670.784†	755.1	1028.8	0.0261	mg/L	0.0261	mg/L	22:38:40
1	Mg 279.077†	106778.4	106648.9	6.924	mg/L	6.924	mg/L	22:39:09
1	Mn 257.610†	688671.5	673638.2	0.7168	mg/L	0.7168	mg/L	22:39:07
1	Mn 294.920†	346816.7	347971.4	0.7421	mg/L	0.7421	mg/L	22:39:09
1	Mo 202.031†	29.8	40.3	-0.0011	mg/L	-0.0011	mg/L	22:39:20
1	Na 589.592†	5714.6	1496.6	0.2877	mg/L	0.2877	mg/L	22:38:40
1	Ni 231.604†	1594.6	1419.8	0.0259	mg/L	0.0259	mg/L	22:39:20
1	P 214.914†	2741.7	2791.8	1.512	mg/L	1.512	mg/L	22:39:20
1	Pb 220.353†	1716.1	1535.5	0.0842	mg/L	0.0842	mg/L	22:39:20
1	Sb 206.836†	46.0	1.2	-0.0100	mg/L	-0.0100	mg/L	22:39:20
1	Se 196.026†	9.1	-7.7	0.0022	mg/L	0.0022	mg/L	22:39:20
1	Sn 189.927†	-12.5	-50.0	-0.0028	mg/L	-0.0028	mg/L	22:39:20
1	Sr 407.771†	27699.5	27494.9	0.0236	mg/L	0.0236	mg/L	22:38:40
1	Ti 337.279†	1224463.1	1227576.2	1.261	mg/L	1.261	mg/L	22:39:07
1	Tl 190.801†	-6.2	0.9	-0.0156	mg/L	-0.0156	mg/L	22:39:20
1	V 292.402†	16222.7	17148.6	0.0670	mg/L	0.0670	mg/L	22:39:09
1	Zn 213.857†	15646.3	14800.1	0.0896	mg/L	0.0896	mg/L	22:39:09
2	Y 371.029	3400888.5	3400888.5	1.01	mg/L			22:39:22
2	Ag 328.068†	544.5	-195.5	0.0006	mg/L	0.0006	mg/L	22:39:25
2	Al 237.313†	332613.9	331072.5	30.36	mg/L	30.36	mg/L	22:39:25
2	As 188.979†	19.2	18.0	0.0135	mg/L	0.0135	mg/L	22:39:35
2	B 249.677†	-22.3	-6.9	-0.0003	mg/L	-0.0003	mg/L	22:39:03
2	B 182.528†	0.7	7.6	0.0102	mg/L	0.0102	mg/L	22:39:35
2	Ba 233.527†	12489.7	12505.1	0.0954	mg/L	0.0954	mg/L	22:39:25

2	Be 313.107†	2348.5	3767.7	0.0012 mg/L	0.0012 mg/L	22:39:25
2	Ca 315.887†	321641.2	320494.0	2.877 mg/L	2.877 mg/L	22:39:22
2	Cd 228.802†	168.9	20.5	0.0015 mg/L	0.0015 mg/L	22:39:35
2	Co 228.616†	976.1	1148.4	0.0135 mg/L	0.0135 mg/L	22:39:35
2	Cr 267.716†	5035.8	4295.8	0.0332 mg/L	0.0332 mg/L	22:39:25
2	Cu 324.752†	13691.9	9655.8	0.0441 mg/L	0.0441 mg/L	22:39:25
2	Fe 234.349†	69491.3	69090.0	34.22 mg/L	34.22 mg/L	22:38:53
2	K 766.490†	3676.6	2910.2	1.386 mg/L	1.386 mg/L	22:38:53
2	Li 670.784†	801.5	1069.5	0.0270 mg/L	0.0270 mg/L	22:38:53
2	Mg 279.077†	108112.9	107198.1	6.960 mg/L	6.960 mg/L	22:39:25
2	Mn 257.610†	694090.3	674011.1	0.7173 mg/L	0.7173 mg/L	22:39:22
2	Mn 294.920†	350510.7	349118.7	0.7445 mg/L	0.7445 mg/L	22:39:25
2	Mo 202.031†	29.6	39.8	-0.0011 mg/L	-0.0011 mg/L	22:39:35
2	Na 589.592†	5745.2	1485.5	0.2862 mg/L	0.2862 mg/L	22:38:53
2	Ni 231.604†	1604.4	1417.9	0.0259 mg/L	0.0259 mg/L	22:39:35
2	P 214.914†	2713.8	2744.1	1.487 mg/L	1.487 mg/L	22:39:35
2	Pb 220.353†	1663.6	1470.8	0.0804 mg/L	0.0804 mg/L	22:39:35
2	Sb 206.836†	43.8	-1.3	-0.0109 mg/L	-0.0109 mg/L	22:39:35
2	Se 196.026†	6.1	-10.8	0.0005 mg/L	0.0005 mg/L	22:39:35
2	Sn 189.927†	-8.6	-46.0	-0.0023 mg/L	-0.0023 mg/L	22:39:35
2	Sr 407.771†	27795.6	27388.8	0.0235 mg/L	0.0235 mg/L	22:38:53
2	Ti 337.279†	1232390.6	1226541.9	1.260 mg/L	1.260 mg/L	22:39:22
2	Tl 190.801†	-5.6	1.5	-0.0151 mg/L	-0.0151 mg/L	22:39:35
2	V 292.402†	16409.9	17216.6	0.0672 mg/L	0.0672 mg/L	22:39:25
2	Zn 213.857†	15782.2	14821.3	0.0898 mg/L	0.0898 mg/L	22:39:25

Mean Data: CF32408-SD1 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3388525.1	1.00	mg/L	0.005			0.52%
Ag 328.068†	-234.1	0.0004	mg/L	0.00026	0.0004 mg/L	0.00026	64.91%
Al 237.313†	330625.2	30.32	mg/L	0.058	30.32 mg/L	0.058	0.19%
As 188.979†	17.5	0.0132	mg/L	0.00046	0.0132 mg/L	0.00046	3.52%
B 249.677†	-7.0	-0.0003	mg/L	0.00003	-0.0003 mg/L	0.00003	7.99%
B 182.528†	10.5	0.0125	mg/L	0.00333	0.0125 mg/L	0.00333	26.62%
Ba 233.527†	12536.8	0.0956	mg/L	0.00034	0.0956 mg/L	0.00034	0.36%
Be 313.107†	3794.7	0.0013	mg/L	0.00001	0.0013 mg/L	0.00001	1.06%
Ca 315.887†	320233.8	2.875	mg/L	0.0033	2.875 mg/L	0.0033	0.11%
Cd 228.802†	20.9	0.0015	mg/L	0.00002	0.0015 mg/L	0.00002	1.03%
Co 228.616†	1144.2	0.0135	mg/L	0.00010	0.0135 mg/L	0.00010	0.71%
Cr 267.716†	4289.4	0.0331	mg/L	0.00007	0.0331 mg/L	0.00007	0.21%
Cu 324.752†	9695.0	0.0442	mg/L	0.00024	0.0442 mg/L	0.00024	0.54%
Fe 234.349†	69286.3	34.31	mg/L	0.137	34.31 mg/L	0.137	0.40%
K 766.490†	2922.2	1.391	mg/L	0.0072	1.391 mg/L	0.0072	0.52%
Li 670.784†	1049.1	0.0265	mg/L	0.00068	0.0265 mg/L	0.00068	2.55%
Mg 279.077†	106923.5	6.942	mg/L	0.0252	6.942 mg/L	0.0252	0.36%
Mn 257.610†	673824.6	0.7170	mg/L	0.00031	0.7170 mg/L	0.00031	0.04%
Mn 294.920†	348545.0	0.7433	mg/L	0.00173	0.7433 mg/L	0.00173	0.23%
Mo 202.031†	40.1	-0.0011	mg/L	0.00001	-0.0011 mg/L	0.00001	0.95%
Na 589.592†	1491.0	0.2869	mg/L	0.00105	0.2869 mg/L	0.00105	0.37%
Ni 231.604†	1418.9	0.0259	mg/L	0.00002	0.0259 mg/L	0.00002	0.10%
P 214.914†	2767.9	1.500	mg/L	0.0177	1.500 mg/L	0.0177	1.18%
Pb 220.353†	1503.2	0.0823	mg/L	0.00269	0.0823 mg/L	0.00269	3.27%
Sb 206.836†	-0.0	-0.0105	mg/L	0.00066	-0.0105 mg/L	0.00066	6.34%
Se 196.026†	-9.3	0.0013	mg/L	0.00119	0.0013 mg/L	0.00119	88.98%
Sn 189.927†	-48.0	-0.0025	mg/L	0.00035	-0.0025 mg/L	0.00035	13.62%
Sr 407.771†	27441.9	0.0235	mg/L	0.00006	0.0235 mg/L	0.00006	0.27%
Ti 337.279†	1227059.0	1.261	mg/L	0.0007	1.261 mg/L	0.0007	0.06%
Tl 190.801†	1.2	-0.0153	mg/L	0.00037	-0.0153 mg/L	0.00037	2.44%
V 292.402†	17182.6	0.0671	mg/L	0.00019	0.0671 mg/L	0.00019	0.28%
Zn 213.857†	14810.7	0.0897	mg/L	0.00010	0.0897 mg/L	0.00010	0.11%

Sequence No.: 111

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/25/2013 10:41:12 PM

Data Type: Reprocessed on 6/26/2013 10:57:26 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3393087.3	3393087.3	1.00	mg/L			22:43:07
1	Ag 328.068†	51882.3	50963.3	0.2455	mg/L	0.2455	mg/L	22:43:07
1	Al 237.313†	25730.5	26027.5	2.395	mg/L	2.395	mg/L	22:43:17
1	As 188.979†	765.8	762.1	0.4680	mg/L	0.4680	mg/L	22:43:17
1	B 249.677†	1115.6	1126.9	0.4632	mg/L	0.4632	mg/L	22:42:57
1	B 182.528†	567.4	572.4	0.4742	mg/L	0.4742	mg/L	22:43:17
1	Ba 233.527†	64987.3	64846.7	0.4922	mg/L	0.4922	mg/L	22:43:07
1	Be 313.107†	138903.4	139848.2	0.0494	mg/L	0.0494	mg/L	22:43:07
1	Ca 315.887†	528251.5	527113.6	4.728	mg/L	4.728	mg/L	22:43:07
1	Cd 228.802†	9515.2	9334.4	0.2511	mg/L	0.2511	mg/L	22:43:17
1	Co 228.616†	30908.3	30977.6	0.4909	mg/L	0.4909	mg/L	22:43:17
1	Cr 267.716†	63881.6	62946.4	0.4797	mg/L	0.4797	mg/L	22:43:07
1	Cu 324.752†	116270.9	111905.7	0.4796	mg/L	0.4796	mg/L	22:43:07
1	Fe 234.349†	4681.0	4666.2	2.306	mg/L	2.306	mg/L	22:42:57
1	K 766.490†	55334.0	54394.6	23.37	mg/L	23.37	mg/L	22:42:55
1	Li 670.784†	19828.7	20031.7	0.4723	mg/L	0.4723	mg/L	22:42:57
1	Mg 279.077†	74211.2	73662.6	4.782	mg/L	4.782	mg/L	22:43:07
1	Mn 257.610†	474628.0	456906.4	0.4909	mg/L	0.4909	mg/L	22:43:07
1	Mn 294.920†	228513.7	228351.4	0.4869	mg/L	0.4869	mg/L	22:43:07
1	Mo 202.031†	12831.8	12797.1	0.4805	mg/L	0.4805	mg/L	22:43:17
1	Na 589.592†	179068.5	174213.0	23.43	mg/L	23.43	mg/L	22:42:55
1	Ni 231.604†	26540.6	26270.2	0.4890	mg/L	0.4890	mg/L	22:43:07
1	P 214.914†	8886.2	8901.0	4.708	mg/L	4.708	mg/L	22:43:17
1	Pb 220.353†	8498.0	8285.1	0.4875	mg/L	0.4875	mg/L	22:43:17
1	Sb 206.836†	1204.2	1155.2	0.4767	mg/L	0.4767	mg/L	22:43:17
1	Se 196.026†	1724.6	1701.7	0.9465	mg/L	0.9465	mg/L	22:43:17
1	Sn 189.927†	4001.4	3949.9	0.4896	mg/L	0.4896	mg/L	22:43:17
1	Sr 407.771†	54171.0	53735.1	0.0458	mg/L	0.0458	mg/L	22:42:55
1	Ti 337.279†	472230.2	471869.1	0.4865	mg/L	0.4865	mg/L	22:43:07
1	Tl 190.801†	623.4	628.3	0.4696	mg/L	0.4696	mg/L	22:43:17
1	V 292.402†	124517.9	124982.3	0.4985	mg/L	0.4985	mg/L	22:43:07
1	Zn 213.857†	81070.6	79916.4	0.4873	mg/L	0.4873	mg/L	22:43:07
2	Y 371.029	3336466.8	3336466.8	0.987	mg/L			22:43:21
2	Ag 328.068†	51444.4	51396.8	0.2475	mg/L	0.2475	mg/L	22:43:21
2	Al 237.313†	25797.7	26530.8	2.441	mg/L	2.441	mg/L	22:43:31
2	As 188.979†	771.3	780.6	0.4793	mg/L	0.4793	mg/L	22:43:31
2	B 249.677†	1101.8	1131.8	0.4652	mg/L	0.4652	mg/L	22:43:02
2	B 182.528†	574.9	589.5	0.4882	mg/L	0.4882	mg/L	22:43:31
2	Ba 233.527†	64138.6	65085.7	0.4940	mg/L	0.4940	mg/L	22:43:21
2	Be 313.107†	137111.1	140380.8	0.0496	mg/L	0.0496	mg/L	22:43:21
2	Ca 315.887†	520929.1	528626.1	4.741	mg/L	4.741	mg/L	22:43:21
2	Cd 228.802†	9552.8	9533.3	0.2564	mg/L	0.2564	mg/L	22:43:31
2	Co 228.616†	31075.0	31669.2	0.5020	mg/L	0.5020	mg/L	22:43:31
2	Cr 267.716†	63147.1	63282.3	0.4822	mg/L	0.4822	mg/L	22:43:21
2	Cu 324.752†	114365.1	111940.6	0.4798	mg/L	0.4798	mg/L	22:43:21
2	Fe 234.349†	4675.3	4739.6	2.342	mg/L	2.342	mg/L	22:43:02
2	K 766.490†	55072.3	55065.0	23.66	mg/L	23.66	mg/L	22:43:00
2	Li 670.784†	19881.7	20420.6	0.4814	mg/L	0.4814	mg/L	22:43:02
2	Mg 279.077†	73108.0	73799.6	4.791	mg/L	4.791	mg/L	22:43:21
2	Mn 257.610†	468480.9	458703.1	0.4929	mg/L	0.4929	mg/L	22:43:21
2	Mn 294.920†	225173.4	228830.8	0.4879	mg/L	0.4879	mg/L	22:43:21
2	Mo 202.031†	12889.3	13072.4	0.4908	mg/L	0.4908	mg/L	22:43:31
2	Na 589.592†	178644.4	176811.3	23.78	mg/L	23.78	mg/L	22:43:00
2	Ni 231.604†	26182.8	26356.4	0.4907	mg/L	0.4907	mg/L	22:43:21
2	P 214.914†	8902.8	9068.1	4.795	mg/L	4.795	mg/L	22:43:31
2	Pb 220.353†	8542.5	8473.8	0.4985	mg/L	0.4985	mg/L	22:43:31
2	Sb 206.836†	1217.9	1189.4	0.4908	mg/L	0.4908	mg/L	22:43:31
2	Se 196.026†	1728.7	1735.0	0.9649	mg/L	0.9649	mg/L	22:43:31
2	Sn 189.927†	4024.1	4040.5	0.5007	mg/L	0.5007	mg/L	22:43:31
2	Sr 407.771†	54107.5	54586.8	0.0465	mg/L	0.0465	mg/L	22:43:00
2	Ti 337.279†	465030.0	472558.0	0.4872	mg/L	0.4872	mg/L	22:43:21
2	Tl 190.801†	614.4	629.8	0.4707	mg/L	0.4707	mg/L	22:43:31
2	V 292.402†	123022.1	125572.1	0.5009	mg/L	0.5009	mg/L	22:43:21
2	Zn 213.857†	79882.6	80083.4	0.4883	mg/L	0.4883	mg/L	22:43:21

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3364777.0	0.995	mg/L	0.0118				1.19%
Ag 328.068†	51180.0	0.2465	mg/L	0.00147	0.2465	mg/L	0.00147	0.60%

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3406561.9	3406561.9	1.01	mg/L			22:47:15
1	Ag 328.068†	652.9	-88.7	0.0002	mg/L	0.0002	mg/L	22:47:18
1	Al 237.313†	-447.2	-56.4	0.0019	mg/L	0.0019	mg/L	22:47:18
1	As 188.979†	4.3	3.2	0.0046	mg/L	0.0046	mg/L	22:47:28
1	B 249.677†	-13.0	2.3	0.0034	mg/L	0.0034	mg/L	22:46:59
1	B 182.528†	-2.5	4.4	0.0075	mg/L	0.0075	mg/L	22:47:28
1	Ba 233.527†	-52.3	35.9	0.0009	mg/L	0.0009	mg/L	22:47:28
1	Be 313.107†	-1232.0	210.0	0.0003	mg/L	0.0003	mg/L	22:47:18
1	Ca 315.887†	-1491.2	-762.2	0.0015	mg/L	0.0015	mg/L	22:47:18
1	Cd 228.802†	154.2	5.6	0.0016	mg/L	0.0016	mg/L	22:47:28
1	Co 228.616†	-183.2	-3.9	-0.0021	mg/L	-0.0021	mg/L	22:47:28
1	Cr 267.716†	514.1	-200.5	-0.0010	mg/L	-0.0010	mg/L	22:47:18
1	Cu 324.752†	3986.1	-0.3	0.0013	mg/L	0.0013	mg/L	22:47:18
1	Fe 234.349†	-11.5	-9.8	0.0058	mg/L	0.0058	mg/L	22:46:59
1	K 766.490†	537.9	-211.2	0.0532	mg/L	0.0532	mg/L	22:46:49
1	Li 670.784†	-280.0	-5.3	0.0018	mg/L	0.0018	mg/L	22:46:49
1	Mg 279.077†	337.1	46.7	0.0010	mg/L	0.0010	mg/L	22:47:18
1	Mn 257.610†	15796.3	-375.7	-0.0005	mg/L	-0.0005	mg/L	22:47:18
1	Mn 294.920†	-795.1	-148.5	-0.0005	mg/L	-0.0005	mg/L	22:47:18
1	Mo 202.031†	-4.3	6.2	0.0030	mg/L	0.0030	mg/L	22:47:28
1	Na 589.592†	2628.6	-1617.5	-0.1296	mg/L	-0.1296	mg/L	22:46:49
1	Ni 231.604†	145.3	-32.9	-0.0011	mg/L	-0.0011	mg/L	22:47:18
1	P 214.914†	-50.9	-4.5	0.0461	mg/L	0.0461	mg/L	22:47:28
1	Pb 220.353†	156.2	-28.0	0.0003	mg/L	0.0003	mg/L	22:47:28
1	Sb 206.836†	35.7	-9.4	0.0005	mg/L	0.0005	mg/L	22:47:28
1	Se 196.026†	17.2	0.2	0.0046	mg/L	0.0046	mg/L	22:47:28
1	Sn 189.927†	40.7	2.9	0.0019	mg/L	0.0019	mg/L	22:47:28
1	Sr 407.771†	179.0	-68.0	0.0002	mg/L	0.0002	mg/L	22:46:49
1	Ti 337.279†	-1572.2	-262.6	0.0025	mg/L	0.0025	mg/L	22:47:18
1	Tl 190.801†	-8.2	-1.0	-0.0011	mg/L	-0.0011	mg/L	22:47:28
1	V 292.402†	-932.4	-23.6	0.0022	mg/L	0.0022	mg/L	22:47:18
1	Zn 213.857†	956.7	80.2	0.0010	mg/L	0.0010	mg/L	22:47:28
2	Y 371.029	3382016.0	3382016.0	1.00	mg/L			22:47:30
2	Ag 328.068†	667.4	-69.6	0.0003	mg/L	0.0003	mg/L	22:47:32
2	Al 237.313†	-347.4	40.1	0.0108	mg/L	0.0108	mg/L	22:47:32
2	As 188.979†	-0.9	-1.9	0.0015	mg/L	0.0015	mg/L	22:47:43
2	B 249.677†	-13.9	1.3	0.0030	mg/L	0.0030	mg/L	22:47:12
2	B 182.528†	-2.4	4.6	0.0076	mg/L	0.0076	mg/L	22:47:43
2	Ba 233.527†	-81.0	6.8	0.0006	mg/L	0.0006	mg/L	22:47:43
2	Be 313.107†	-1264.9	168.2	0.0003	mg/L	0.0003	mg/L	22:47:32
2	Ca 315.887†	-1469.8	-751.5	0.0016	mg/L	0.0016	mg/L	22:47:32
2	Cd 228.802†	144.7	-2.8	0.0014	mg/L	0.0014	mg/L	22:47:43
2	Co 228.616†	-187.2	-9.3	-0.0022	mg/L	-0.0022	mg/L	22:47:43
2	Cr 267.716†	543.1	-167.9	-0.0008	mg/L	-0.0008	mg/L	22:47:32
2	Cu 324.752†	3947.9	-9.8	0.0013	mg/L	0.0013	mg/L	22:47:32
2	Fe 234.349†	9.1	10.7	0.0159	mg/L	0.0159	mg/L	22:47:12
2	K 766.490†	710.4	-34.9	0.1285	mg/L	0.1285	mg/L	22:47:02
2	Li 670.784†	-144.0	128.6	0.0049	mg/L	0.0049	mg/L	22:47:02
2	Mg 279.077†	236.8	-51.1	-0.0053	mg/L	-0.0053	mg/L	22:47:32
2	Mn 257.610†	15803.3	-254.9	-0.0003	mg/L	-0.0003	mg/L	22:47:32
2	Mn 294.920†	-784.6	-143.8	-0.0005	mg/L	-0.0005	mg/L	22:47:32
2	Mo 202.031†	-8.1	2.3	0.0029	mg/L	0.0029	mg/L	22:47:43
2	Na 589.592†	2580.0	-1647.1	-0.1336	mg/L	-0.1336	mg/L	22:47:02
2	Ni 231.604†	183.6	6.4	-0.0004	mg/L	-0.0004	mg/L	22:47:32
2	P 214.914†	-56.1	-10.1	0.0432	mg/L	0.0432	mg/L	22:47:43
2	Pb 220.353†	215.3	32.1	0.0038	mg/L	0.0038	mg/L	22:47:43
2	Sb 206.836†	34.1	-10.7	0.0000	mg/L	0.0000	mg/L	22:47:43
2	Se 196.026†	21.3	4.4	0.0069	mg/L	0.0069	mg/L	22:47:43
2	Sn 189.927†	33.8	-3.7	0.0011	mg/L	0.0011	mg/L	22:47:43
2	Sr 407.771†	168.6	-77.1	0.0002	mg/L	0.0002	mg/L	22:47:02
2	Ti 337.279†	-1357.0	-58.7	0.0027	mg/L	0.0027	mg/L	22:47:32
2	Tl 190.801†	-0.8	6.3	0.0044	mg/L	0.0044	mg/L	22:47:43
2	V 292.402†	-953.3	-51.2	0.0021	mg/L	0.0021	mg/L	22:47:32
2	Zn 213.857†	961.4	91.7	0.0010	mg/L	0.0010	mg/L	22:47:43

Mean Data: CCBI

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3394288.9	1.00 mg/L	0.005			0.51%
Ag 328.068†	-79.2	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	24.06%

Al	QC value within limits for Ag 328.068	Recovery = Not calculated					
237.313†	-8.1	0.0063 mg/L	0.00626	0.0063 mg/L	0.00626	98.57%	
As	QC value within limits for Al 237.313	Recovery = Not calculated					
188.979†	0.6	0.0030 mg/L	0.00221	0.0030 mg/L	0.00221	72.83%	
B	QC value within limits for As 188.979	Recovery = Not calculated					
249.677†	1.8	0.0032 mg/L	0.00029	0.0032 mg/L	0.00029	8.93%	
B	QC value within limits for B 249.677	Recovery = Not calculated					
182.528†	4.5	0.0076 mg/L	0.00007	0.0076 mg/L	0.00007	0.96%	
Ba	QC value within limits for B 182.528	Recovery = Not calculated					
233.527†	21.3	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	20.56%	
Be	QC value within limits for Ba 233.527	Recovery = Not calculated					
313.107†	189.1	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	3.73%	
Ca	QC value within limits for Be 313.107	Recovery = Not calculated					
315.887†	-756.8	0.0015 mg/L	0.00007	0.0015 mg/L	0.00007	4.46%	
Cd	QC value within limits for Ca 315.887	Recovery = Not calculated					
228.802†	1.4	0.0015 mg/L	0.00016	0.0015 mg/L	0.00016	10.25%	
Co	QC value greater than the upper limit for Cd 228.802	Recovery = Not calculated					
228.616†	-6.6	-0.0022 mg/L	0.00006	-0.0022 mg/L	0.00006	2.78%	
Cr	QC value less than the lower limit for Co 228.616	Recovery = Not calculated					
267.716†	-184.2	-0.0009 mg/L	0.00018	-0.0009 mg/L	0.00018	19.63%	
Cu	QC value within limits for Cr 267.716	Recovery = Not calculated					
324.752†	-5.0	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.20%	
Fe	QC value within limits for Cu 324.752	Recovery = Not calculated					
234.349†	0.5	0.0108 mg/L	0.00718	0.0108 mg/L	0.00718	66.21%	
K	QC value within limits for Fe 234.349	Recovery = Not calculated					
766.490†	-123.0	0.0909 mg/L	0.05326	0.0909 mg/L	0.05326	58.59%	
Li	QC value within limits for K 766.490	Recovery = Not calculated					
670.784†	61.7	0.0033 mg/L	0.00222	0.0033 mg/L	0.00222	66.47%	
Mg	QC value within limits for Li 670.784	Recovery = Not calculated					
279.077†	-2.2	-0.0021 mg/L	0.00449	-0.0021 mg/L	0.00449	209.32%	
Mn	QC value within limits for Mg 279.077	Recovery = Not calculated					
257.610†	-315.3	-0.0004 mg/L	0.00009	-0.0004 mg/L	0.00009	22.28%	
Mn	QC value within limits for Mn 257.610	Recovery = Not calculated					
294.920†	-146.2	-0.0005 mg/L	0.00001	-0.0005 mg/L	0.00001	1.48%	
Mo	QC value within limits for Mn 294.920	Recovery = Not calculated					
202.031†	4.2	0.0029 mg/L	0.00010	0.0029 mg/L	0.00010	3.49%	
Na	QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated					
589.592†	-1632.3	-0.1316 mg/L	0.00281	-0.1316 mg/L	0.00281	2.13%	
Ni	QC value within limits for Na 589.592	Recovery = Not calculated					
231.604†	-13.3	-0.0008 mg/L	0.00052	-0.0008 mg/L	0.00052	67.07%	
P	QC value within limits for Ni 231.604	Recovery = Not calculated					
214.914†	-7.3	0.0447 mg/L	0.00206	0.0447 mg/L	0.00206	4.60%	
Pb	QC value greater than the upper limit for P 214.914	Recovery = Not calculated					
220.353†	2.0	0.0020 mg/L	0.00248	0.0020 mg/L	0.00248	121.20%	
Sb	QC value within limits for Pb 220.353	Recovery = Not calculated					
206.836†	-10.0	0.0003 mg/L	0.00038	0.0003 mg/L	0.00038	140.89%	
Se	QC value within limits for Sb 206.836	Recovery = Not calculated					
196.026†	2.3	0.0057 mg/L	0.00166	0.0057 mg/L	0.00166	28.90%	
Sn	QC value within limits for Se 196.026	Recovery = Not calculated					
189.927†	-0.4	0.0015 mg/L	0.00057	0.0015 mg/L	0.00057	37.28%	
Sr	QC value within limits for Sn 189.927	Recovery = Not calculated					
407.771†	-72.5	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	2.31%	
Ti	QC value within limits for Sr 407.771	Recovery = Not calculated					
337.279†	-160.7	0.0026 mg/L	0.00015	0.0026 mg/L	0.00015	5.64%	
Tl	QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated					
190.801†	2.7	0.0017 mg/L	0.00391	0.0017 mg/L	0.00391	236.28%	
V	QC value within limits for Tl 190.801	Recovery = Not calculated					
292.402†	-37.4	0.0022 mg/L	0.00008	0.0022 mg/L	0.00008	3.53%	
Zn	QC value greater than the upper limit for V 292.402	Recovery = Not calculated					
213.857†	86.0	0.0010 mg/L	0.00005	0.0010 mg/L	0.00005	4.56%	
	QC value within limits for Zn 213.857	Recovery = Not calculated					
	QC Failed. Continue with analysis.						

Sequence No.: 113
Sample ID: CF32408-PDS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 6/25/2013 10:49:20 PM
Data Type: Reprocessed on 6/26/2013 10:57:27 AM
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3341079.0	3341079.0	0.988	mg/L			22:51:11
1	Ag 328.068†	47198.4	47027.9	0.2306	mg/L	0.2306	mg/L	22:51:13
1	Al 237.313†	1550602.9	1569595.1	143.9	mg/L	143.9	mg/L	22:51:11
1	As 188.979†	787.0	795.4	0.4879	mg/L	0.4879	mg/L	22:51:23
1	B 249.677†	962.8	989.6	0.4071	mg/L	0.4071	mg/L	22:51:01
1	B 182.528†	530.2	543.6	0.4505	mg/L	0.4505	mg/L	22:51:23
1	Ba 233.527†	120116.1	121645.1	0.9228	mg/L	0.9228	mg/L	22:51:13
1	Be 313.107†	148248.4	151459.9	0.0521	mg/L	0.0521	mg/L	22:51:13
1	Ca 315.887†	1980933.3	2005419.4	17.96	mg/L	17.96	mg/L	22:51:11
1	Cd 228.802†	8632.4	8588.5	0.2285	mg/L	0.2285	mg/L	22:51:23
1	Co 228.616†	32898.8	33471.4	0.5180	mg/L	0.5180	mg/L	22:51:23
1	Cr 267.716†	82147.7	82422.5	0.6278	mg/L	0.6278	mg/L	22:51:13
1	Cu 324.752†	155971.5	153886.2	0.6660	mg/L	0.6660	mg/L	22:51:13
1	Fe 234.349†	319273.2	323105.6	160.0	mg/L	160.0	mg/L	22:50:59
1	K 766.490†	66333.9	66384.7	28.49	mg/L	28.49	mg/L	22:51:01
1	Li 670.784†	23903.3	24462.7	0.5763	mg/L	0.5763	mg/L	22:51:01
1	Mg 279.077†	542562.6	548784.6	35.64	mg/L	35.64	mg/L	22:51:11
1	Mn 257.610†	3457890.3	3483325.3	3.711	mg/L	3.711	mg/L	22:51:11
1	Mn 294.920†	1760178.1	1781938.0	3.801	mg/L	3.801	mg/L	22:51:11
1	Mo 202.031†	12022.0	12176.7	0.4325	mg/L	0.4325	mg/L	22:51:23
1	Na 589.592†	181869.2	179824.9	24.18	mg/L	24.18	mg/L	22:50:59
1	Ni 231.604†	30642.7	30833.3	0.5739	mg/L	0.5739	mg/L	22:51:13
1	P 214.914†	20820.7	21116.5	11.11	mg/L	11.11	mg/L	22:51:23
1	Pb 220.353†	14573.0	14564.7	0.8194	mg/L	0.8194	mg/L	22:51:23
1	Sb 206.836†	1186.3	1155.7	0.4085	mg/L	0.4085	mg/L	22:51:23
1	Se 196.026†	1508.4	1509.6	0.8495	mg/L	0.8495	mg/L	22:51:23
1	Sn 189.927†	3505.3	3509.9	0.4437	mg/L	0.4437	mg/L	22:51:23
1	Sr 407.771†	179267.0	181172.3	0.1537	mg/L	0.1537	mg/L	22:50:59
1	Ti 337.279†	6147100.5	6222153.9	6.381	mg/L	6.381	mg/L	22:51:11
1	Tl 190.801†	550.8	564.5	0.3485	mg/L	0.3485	mg/L	22:51:23
1	V 292.402†	200490.6	203798.0	0.7948	mg/L	0.7948	mg/L	22:51:13
1	Zn 213.857†	139893.1	140702.2	0.8528	mg/L	0.8528	mg/L	22:51:13
2	Y 371.029	3360139.1	3360139.1	0.994	mg/L			22:51:27
2	Ag 328.068†	46354.0	45907.3	0.2252	mg/L	0.2252	mg/L	22:51:29
2	Al 237.313†	1555922.1	1566046.4	143.6	mg/L	143.6	mg/L	22:51:27
2	As 188.979†	786.2	790.1	0.4847	mg/L	0.4847	mg/L	22:51:40
2	B 249.677†	981.3	1002.7	0.4124	mg/L	0.4124	mg/L	22:51:05
2	B 182.528†	528.7	539.0	0.4467	mg/L	0.4467	mg/L	22:51:40
2	Ba 233.527†	118476.8	119306.0	0.9051	mg/L	0.9051	mg/L	22:51:29
2	Be 313.107†	146029.3	148375.9	0.0510	mg/L	0.0510	mg/L	22:51:29
2	Ca 315.887†	1987766.4	2000923.7	17.92	mg/L	17.92	mg/L	22:51:27
2	Cd 228.802†	8586.4	8492.7	0.2259	mg/L	0.2259	mg/L	22:51:40
2	Co 228.616†	32771.2	33154.2	0.5130	mg/L	0.5130	mg/L	22:51:40
2	Cr 267.716†	80700.0	80494.2	0.6131	mg/L	0.6131	mg/L	22:51:29
2	Cu 324.752†	153698.5	150703.7	0.6524	mg/L	0.6524	mg/L	22:51:29
2	Fe 234.349†	319896.4	321900.0	159.4	mg/L	159.4	mg/L	22:51:03
2	K 766.490†	67129.7	66804.7	28.67	mg/L	28.67	mg/L	22:51:05
2	Li 670.784†	24016.2	24439.1	0.5758	mg/L	0.5758	mg/L	22:51:05
2	Mg 279.077†	544621.9	547742.3	35.57	mg/L	35.57	mg/L	22:51:27
2	Mn 257.610†	3469772.5	3475432.0	3.703	mg/L	3.703	mg/L	22:51:27
2	Mn 294.920†	1766083.2	1777775.9	3.792	mg/L	3.792	mg/L	22:51:27
2	Mo 202.031†	11977.3	12062.7	0.4284	mg/L	0.4284	mg/L	22:51:40
2	Na 589.592†	182533.4	179449.2	24.13	mg/L	24.13	mg/L	22:51:03
2	Ni 231.604†	30211.0	30222.9	0.5625	mg/L	0.5625	mg/L	22:51:29
2	P 214.914†	20758.1	20934.1	11.02	mg/L	11.02	mg/L	22:51:40
2	Pb 220.353†	14503.0	14410.6	0.8105	mg/L	0.8105	mg/L	22:51:40
2	Sb 206.836†	1168.6	1131.1	0.3988	mg/L	0.3988	mg/L	22:51:40
2	Se 196.026†	1517.3	1509.9	0.8496	mg/L	0.8496	mg/L	22:51:40
2	Sn 189.927†	3524.8	3509.4	0.4436	mg/L	0.4436	mg/L	22:51:40
2	Sr 407.771†	179695.1	180574.0	0.1532	mg/L	0.1532	mg/L	22:51:03
2	Ti 337.279†	6168214.7	6208113.0	6.366	mg/L	6.366	mg/L	22:51:27
2	Tl 190.801†	547.9	558.4	0.3442	mg/L	0.3442	mg/L	22:51:40
2	V 292.402†	197697.7	199836.7	0.7792	mg/L	0.7792	mg/L	22:51:29
2	Zn 213.857†	137666.5	137658.6	0.8342	mg/L	0.8342	mg/L	22:51:29

Mean Data: CF32408-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3350609.1	0.991	mg/L	0.0040				0.40%
Ag 328.068†	46467.6	0.2279	mg/L	0.00382	0.2279	mg/L	0.00382	1.67%

Al 237.313†	1567820.8	143.7 mg/L	0.23	143.7 mg/L	0.23	0.16%
As 188.979†	792.8	0.4863 mg/L	0.00231	0.4863 mg/L	0.00231	0.47%
B 249.677†	996.1	0.4097 mg/L	0.00377	0.4097 mg/L	0.00377	0.92%
B 182.528†	541.3	0.4486 mg/L	0.00268	0.4486 mg/L	0.00268	0.60%
Ba 233.527†	120475.5	0.9139 mg/L	0.01254	0.9139 mg/L	0.01254	1.37%
Be 313.107†	149917.9	0.0516 mg/L	0.00077	0.0516 mg/L	0.00077	1.49%
Ca 315.887†	2003171.5	17.94 mg/L	0.029	17.94 mg/L	0.029	0.16%
Cd 228.802†	8540.6	0.2272 mg/L	0.00181	0.2272 mg/L	0.00181	0.79%
Co 228.616†	33312.8	0.5155 mg/L	0.00356	0.5155 mg/L	0.00356	0.69%
Cr 267.716†	81458.4	0.6205 mg/L	0.01037	0.6205 mg/L	0.01037	1.67%
Cu 324.752†	152294.9	0.6592 mg/L	0.00962	0.6592 mg/L	0.00962	1.46%
Fe 234.349†	322502.8	159.7 mg/L	0.42	159.7 mg/L	0.42	0.26%
K 766.490†	66594.7	28.58 mg/L	0.127	28.58 mg/L	0.127	0.44%
Li 670.784†	24450.9	0.5761 mg/L	0.00039	0.5761 mg/L	0.00039	0.07%
Mg 279.077†	548263.4	35.61 mg/L	0.048	35.61 mg/L	0.048	0.13%
Mn 257.610†	3479378.6	3.707 mg/L	0.0059	3.707 mg/L	0.0059	0.16%
Mn 294.920†	1779856.9	3.796 mg/L	0.0063	3.796 mg/L	0.0063	0.17%
Mo 202.031†	12119.7	0.4305 mg/L	0.00291	0.4305 mg/L	0.00291	0.68%
Na 589.592†	179637.0	24.16 mg/L	0.036	24.16 mg/L	0.036	0.15%
Ni 231.604†	30528.1	0.5682 mg/L	0.00803	0.5682 mg/L	0.00803	1.41%
P 214.914†	21025.3	11.06 mg/L	0.068	11.06 mg/L	0.068	0.61%
Pb 220.353†	14487.7	0.8149 mg/L	0.00632	0.8149 mg/L	0.00632	0.78%
Sb 206.836†	1143.4	0.4036 mg/L	0.00687	0.4036 mg/L	0.00687	1.70%
Se 196.026†	1509.8	0.8496 mg/L	0.00009	0.8496 mg/L	0.00009	0.01%
Sn 189.927†	3509.6	0.4437 mg/L	0.00006	0.4437 mg/L	0.00006	0.01%
Sr 407.771†	180873.2	0.1534 mg/L	0.00036	0.1534 mg/L	0.00036	0.23%
Ti 337.279†	6215133.4	6.374 mg/L	0.0102	6.374 mg/L	0.0102	0.16%
Tl 190.801†	561.5	0.3463 mg/L	0.00302	0.3463 mg/L	0.00302	0.87%
V 292.402†	201817.4	0.7870 mg/L	0.01101	0.7870 mg/L	0.01101	1.40%
Zn 213.857†	139180.4	0.8435 mg/L	0.01313	0.8435 mg/L	0.01313	1.56%

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Sequence No.: 114                               Autosampler Location: 77
Sample ID: 1306347-03                          Date Collected: 6/25/2013 10:53:17 PM
Analyst:                                         Data Type: Reprocessed on 6/26/2013 10:57:28 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: 1306347-03
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Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3391213.0	3391213.0	1.00 mg/L		22:55:10
1	Ag 328.068†	-203.2	-939.4	0.0006 mg/L	0.0006 mg/L	22:55:13
1	Al 237.313†	1718664.6	1713960.6	157.1 mg/L	157.1 mg/L	22:55:10
1	As 188.979†	127.6	126.2	0.0793 mg/L	0.0793 mg/L	22:55:23
1	B 249.677†	-28.2	-12.9	-0.0027 mg/L	-0.0027 mg/L	22:55:00
1	B 182.528†	37.6	44.5	0.0404 mg/L	0.0404 mg/L	22:55:23
1	Ba 233.527†	88579.9	88405.2	0.6708 mg/L	0.6708 mg/L	22:55:13
1	Be 313.107†	18083.8	19463.0	0.0057 mg/L	0.0057 mg/L	22:55:13
1	Ca 315.887†	2188248.3	2182483.6	19.54 mg/L	19.54 mg/L	22:55:10
1	Cd 228.802†	281.9	133.6	0.0021 mg/L	0.0021 mg/L	22:55:23
1	Co 228.616†	4740.3	4904.2	0.0638 mg/L	0.0638 mg/L	22:55:23
1	Cr 267.716†	24379.9	23596.9	0.1800 mg/L	0.1800 mg/L	22:55:13
1	Cu 324.752†	91054.1	86827.7	0.3790 mg/L	0.3790 mg/L	22:55:13
1	Fe 234.349†	357619.7	356561.9	176.5 mg/L	176.5 mg/L	22:54:58
1	K 766.490†	16997.7	16202.2	7.062 mg/L	7.062 mg/L	22:55:00
1	Li 670.784†	4917.6	5175.6	0.1234 mg/L	0.1234 mg/L	22:55:00
1	Mg 279.077†	485808.1	484081.1	31.44 mg/L	31.44 mg/L	22:55:10
1	Mn 257.610†	3002317.3	2977368.9	3.163 mg/L	3.163 mg/L	22:55:10
1	Mn 294.920†	1533830.9	1529927.6	3.263 mg/L	3.263 mg/L	22:55:10
1	Mo 202.031†	235.2	244.9	-0.0166 mg/L	-0.0166 mg/L	22:55:23
1	Na 589.592†	9997.6	5741.5	0.8564 mg/L	0.8564 mg/L	22:55:00
1	Ni 231.604†	7364.2	7165.2	0.1328 mg/L	0.1328 mg/L	22:55:23
1	P 214.914†	19670.6	19658.3	10.35 mg/L	10.35 mg/L	22:55:23
1	Pb 220.353†	18480.1	18242.3	1.030 mg/L	1.030 mg/L	22:55:23
1	Sb 206.836†	95.2	50.1	-0.0516 mg/L	-0.0516 mg/L	22:55:23
1	Se 196.026†	-42.0	-58.8	-0.0177 mg/L	-0.0177 mg/L	22:55:23
1	Sn 189.927†	2635.7	2590.4	0.3318 mg/L	0.3318 mg/L	22:55:23
1	Sr 407.771†	156019.2	155311.4	0.1318 mg/L	0.1318 mg/L	22:54:58
1	Ti 337.279†	5591822.1	5576554.5	5.719 mg/L	5.719 mg/L	22:55:10
1	Tl 190.801†	-11.0	-3.9	-0.0858 mg/L	-0.0858 mg/L	22:55:23

1	V 292.402†	87879.7	88521.2	0.3374	mg/L	0.3374	mg/L	22:55:13
1	Zn 213.857†	98802.9	97640.8	0.5909	mg/L	0.5909	mg/L	22:55:13
2	Y 371.029	3388368.7	3388368.7	1.00	mg/L			22:55:27
2	Ag 328.068†	-220.9	-957.3	0.0006	mg/L	0.0006	mg/L	22:55:29
2	Al 237.313†	1718981.3	1715715.1	157.3	mg/L	157.3	mg/L	22:55:27
2	As 188.979†	132.6	131.3	0.0824	mg/L	0.0824	mg/L	22:55:39
2	B 249.677†	-39.9	-24.6	-0.0075	mg/L	-0.0075	mg/L	22:55:05
2	B 182.528†	30.1	37.0	0.0343	mg/L	0.0343	mg/L	22:55:39
2	Ba 233.527†	88252.5	88152.7	0.6689	mg/L	0.6689	mg/L	22:55:29
2	Be 313.107†	18082.0	19476.4	0.0057	mg/L	0.0057	mg/L	22:55:29
2	Ca 315.887†	2185513.2	2181585.9	19.54	mg/L	19.54	mg/L	22:55:27
2	Cd 228.802†	269.4	121.3	0.0017	mg/L	0.0017	mg/L	22:55:39
2	Co 228.616†	4689.6	4857.5	0.0631	mg/L	0.0631	mg/L	22:55:39
2	Cr 267.716†	24343.5	23580.9	0.1799	mg/L	0.1799	mg/L	22:55:29
2	Cu 324.752†	90875.3	86725.5	0.3786	mg/L	0.3786	mg/L	22:55:29
2	Fe 234.349†	360770.1	360005.0	178.2	mg/L	178.2	mg/L	22:55:03
2	K 766.490†	17227.8	16446.1	7.166	mg/L	7.166	mg/L	22:55:05
2	Li 670.784†	4941.8	5203.9	0.1241	mg/L	0.1241	mg/L	22:55:05
2	Mg 279.077†	485317.3	483997.9	31.43	mg/L	31.43	mg/L	22:55:27
2	Mn 257.610†	3002010.7	2979575.7	3.165	mg/L	3.165	mg/L	22:55:27
2	Mn 294.920†	1534075.5	1531455.4	3.266	mg/L	3.266	mg/L	22:55:27
2	Mo 202.031†	229.4	239.3	-0.0171	mg/L	-0.0171	mg/L	22:55:39
2	Na 589.592†	10105.6	5857.7	0.8720	mg/L	0.8720	mg/L	22:55:05
2	Ni 231.604†	7282.0	7089.4	0.1314	mg/L	0.1314	mg/L	22:55:39
2	P 214.914†	19435.0	19439.8	10.24	mg/L	10.24	mg/L	22:55:39
2	Pb 220.353†	18314.5	18092.5	1.021	mg/L	1.021	mg/L	22:55:39
2	Sb 206.836†	98.9	53.9	-0.0508	mg/L	-0.0508	mg/L	22:55:39
2	Se 196.026†	-29.7	-46.5	-0.0108	mg/L	-0.0108	mg/L	22:55:39
2	Sn 189.927†	2622.1	2579.0	0.3304	mg/L	0.3304	mg/L	22:55:39
2	Sr 407.771†	157288.7	156708.7	0.1329	mg/L	0.1329	mg/L	22:55:03
2	Ti 337.279†	5595144.3	5584549.7	5.727	mg/L	5.727	mg/L	22:55:27
2	Tl 190.801†	-11.1	-4.0	-0.0866	mg/L	-0.0866	mg/L	22:55:39
2	V 292.402†	87404.7	88120.8	0.3359	mg/L	0.3359	mg/L	22:55:29
2	Zn 213.857†	98700.6	97621.4	0.5908	mg/L	0.5908	mg/L	22:55:29

Mean Data: 1306347-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3389790.8	1.00	mg/L	0.001				0.06%
Ag 328.068†	-948.3	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	5.05%
Al 237.313†	1714837.8	157.2	mg/L	0.11	157.2	mg/L	0.11	0.07%
As 188.979†	128.7	0.0808	mg/L	0.00219	0.0808	mg/L	0.00219	2.71%
B 249.677†	-18.7	-0.0051	mg/L	0.00339	-0.0051	mg/L	0.00339	66.27%
B 182.528†	40.7	0.0374	mg/L	0.00437	0.0374	mg/L	0.00437	11.70%
Ba 233.527†	88279.0	0.6698	mg/L	0.00135	0.6698	mg/L	0.00135	0.20%
Be 313.107†	19469.7	0.0057	mg/L	0.00000	0.0057	mg/L	0.00000	0.03%
Ca 315.887†	2182034.8	19.54	mg/L	0.006	19.54	mg/L	0.006	0.03%
Cd 228.802†	127.5	0.0019	mg/L	0.00025	0.0019	mg/L	0.00025	13.35%
Co 228.616†	4880.9	0.0635	mg/L	0.00054	0.0635	mg/L	0.00054	0.85%
Cr 267.716†	23588.9	0.1799	mg/L	0.00009	0.1799	mg/L	0.00009	0.05%
Cu 324.752†	86776.6	0.3788	mg/L	0.00030	0.3788	mg/L	0.00030	0.08%
Fe 234.349†	358283.5	177.4	mg/L	1.21	177.4	mg/L	1.21	0.68%
K 766.490†	16324.2	7.114	mg/L	0.0736	7.114	mg/L	0.0736	1.03%
Li 670.784†	5189.7	0.1238	mg/L	0.00047	0.1238	mg/L	0.00047	0.38%
Mg 279.077†	484039.5	31.43	mg/L	0.004	31.43	mg/L	0.004	0.01%
Mn 257.610†	2978472.3	3.164	mg/L	0.0014	3.164	mg/L	0.0014	0.04%
Mn 294.920†	1530691.5	3.265	mg/L	0.0023	3.265	mg/L	0.0023	0.07%
Mo 202.031†	242.1	-0.0168	mg/L	0.00033	-0.0168	mg/L	0.00033	1.95%
Na 589.592†	5799.6	0.8642	mg/L	0.01101	0.8642	mg/L	0.01101	1.27%
Ni 231.604†	7127.3	0.1321	mg/L	0.00100	0.1321	mg/L	0.00100	0.76%
P 214.914†	19549.0	10.30	mg/L	0.081	10.30	mg/L	0.081	0.79%
Pb 220.353†	18167.4	1.025	mg/L	0.0062	1.025	mg/L	0.0062	0.61%
Sb 206.836†	52.0	-0.0512	mg/L	0.00057	-0.0512	mg/L	0.00057	1.12%
Se 196.026†	-52.6	-0.0142	mg/L	0.00487	-0.0142	mg/L	0.00487	34.20%
Sn 189.927†	2584.7	0.3311	mg/L	0.00099	0.3311	mg/L	0.00099	0.30%
Sr 407.771†	156010.1	0.1324	mg/L	0.00084	0.1324	mg/L	0.00084	0.63%
Ti 337.279†	5580552.1	5.723	mg/L	0.0058	5.723	mg/L	0.0058	0.10%
Tl 190.801†	-3.9	-0.0862	mg/L	0.00058	-0.0862	mg/L	0.00058	0.68%
V 292.402†	88321.0	0.3366	mg/L	0.00112	0.3366	mg/L	0.00112	0.33%
Zn 213.857†	97631.1	0.5908	mg/L	0.00013	0.5908	mg/L	0.00013	0.02%

Sequence No.: 115
Sample ID: 1306351-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 6/25/2013 10:57:16 PM
Data Type: Reprocessed on 6/26/2013 10:57:28 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306351-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3390963.4	3390963.4	1.00 mg/L		22:59:11
1	Ag 328.068†	-343.1	-1078.9	0.0030 mg/L	0.0030 mg/L	22:59:13
1	Al 237.313†	1624991.3	1620684.0	148.6 mg/L	148.6 mg/L	22:59:11
1	As 188.979†	200.9	199.3	0.1237 mg/L	0.1237 mg/L	22:59:23
1	B 249.677†	-62.5	-47.1	-0.0167 mg/L	-0.0167 mg/L	22:59:01
1	B 182.528†	42.3	49.1	0.0443 mg/L	0.0443 mg/L	22:59:23
1	Ba 233.527†	151540.4	151190.4	1.147 mg/L	1.147 mg/L	22:59:13
1	Be 313.107†	21134.7	22506.4	0.0061 mg/L	0.0061 mg/L	22:59:13
1	Ca 315.887†	3873837.6	3863363.8	34.59 mg/L	34.59 mg/L	22:59:11
1	Cd 228.802†	562.3	413.2	0.0075 mg/L	0.0075 mg/L	22:59:23
1	Co 228.616†	9008.2	9160.1	0.1258 mg/L	0.1258 mg/L	22:59:23
1	Cr 267.716†	42682.9	41848.8	0.3188 mg/L	0.3188 mg/L	22:59:13
1	Cu 324.752†	158466.4	154051.9	0.6694 mg/L	0.6694 mg/L	22:59:13
1	Fe 234.349†	598649.8	596921.9	295.5 mg/L	295.5 mg/L	22:58:59
1	K 766.490†	51997.4	51102.1	21.97 mg/L	21.97 mg/L	22:59:01
1	Li 670.784†	10839.5	11080.8	0.2621 mg/L	0.2621 mg/L	22:59:01
1	Mg 279.077†	990278.1	987129.3	64.10 mg/L	64.10 mg/L	22:59:11
1	Mn 257.610†	4774598.5	4744750.2	5.037 mg/L	5.037 mg/L	22:59:11
1	Mn 294.920†	2461890.8	2455418.8	5.237 mg/L	5.237 mg/L	22:59:11
1	Mo 202.031†	260.5	270.2	-0.0351 mg/L	-0.0351 mg/L	22:59:13
1	Na 589.592†	106004.5	101471.8	13.68 mg/L	13.68 mg/L	22:58:59
1	Ni 231.604†	13982.0	13764.5	0.2556 mg/L	0.2556 mg/L	22:59:23
1	P 214.914†	23664.4	23642.1	12.44 mg/L	12.44 mg/L	22:59:13
1	Pb 220.353†	84607.1	84179.6	4.887 mg/L	4.887 mg/L	22:59:13
1	Sb 206.836†	129.0	83.8	-0.0896 mg/L	-0.0896 mg/L	22:59:23
1	Se 196.026†	-65.4	-82.1	-0.0236 mg/L	-0.0236 mg/L	22:59:23
1	Sn 189.927†	2709.3	2664.0	0.3501 mg/L	0.3501 mg/L	22:59:23
1	Sr 407.771†	238705.6	237770.3	0.2016 mg/L	0.2016 mg/L	22:58:59
1	Ti 337.279†	8255360.1	8232807.7	8.442 mg/L	8.442 mg/L	22:59:11
1	Tl 190.801†	-13.7	-6.6	-0.1434 mg/L	-0.1434 mg/L	22:59:23
1	V 292.402†	133892.9	134407.9	0.5109 mg/L	0.5109 mg/L	22:59:13
1	Zn 213.857†	406474.6	404430.9	2.469 mg/L	2.469 mg/L	22:59:13
2	Y 371.029	3412534.5	3412534.5	1.01 mg/L		22:59:27
2	Ag 328.068†	-384.5	-1117.8	0.0026 mg/L	0.0026 mg/L	22:59:29
2	Al 237.313†	1636356.3	1621702.5	148.7 mg/L	148.7 mg/L	22:59:27
2	As 188.979†	209.5	206.5	0.1281 mg/L	0.1281 mg/L	22:59:40
2	B 249.677†	-74.9	-59.0	-0.0216 mg/L	-0.0216 mg/L	22:59:05
2	B 182.528†	43.8	50.4	0.0453 mg/L	0.0453 mg/L	22:59:40
2	Ba 233.527†	151751.5	150444.3	1.141 mg/L	1.141 mg/L	22:59:29
2	Be 313.107†	21160.4	22398.7	0.0061 mg/L	0.0061 mg/L	22:59:29
2	Ca 315.887†	3896496.6	3861398.2	34.57 mg/L	34.57 mg/L	22:59:27
2	Cd 228.802†	545.8	393.4	0.0071 mg/L	0.0071 mg/L	22:59:40
2	Co 228.616†	9014.0	9109.0	0.1250 mg/L	0.1250 mg/L	22:59:40
2	Cr 267.716†	42887.6	41782.5	0.3183 mg/L	0.3183 mg/L	22:59:29
2	Cu 324.752†	159602.7	154179.0	0.6700 mg/L	0.6700 mg/L	22:59:29
2	Fe 234.349†	588272.7	582867.0	288.6 mg/L	288.6 mg/L	22:59:03
2	K 766.490†	51982.7	50759.7	21.82 mg/L	21.82 mg/L	22:59:05
2	Li 670.784†	10787.8	10961.2	0.2593 mg/L	0.2593 mg/L	22:59:05
2	Mg 279.077†	995580.3	986141.1	64.04 mg/L	64.04 mg/L	22:59:27
2	Mn 257.610†	4803216.1	4743011.0	5.037 mg/L	5.037 mg/L	22:59:27
2	Mn 294.920†	2476809.4	2454683.3	5.236 mg/L	5.236 mg/L	22:59:27
2	Mo 202.031†	266.2	274.2	-0.0339 mg/L	-0.0339 mg/L	22:59:29
2	Na 589.592†	104363.3	99177.5	13.38 mg/L	13.38 mg/L	22:59:03
2	Ni 231.604†	14046.8	13740.5	0.2552 mg/L	0.2552 mg/L	22:59:40
2	P 214.914†	23802.2	23629.5	12.43 mg/L	12.43 mg/L	22:59:29
2	Pb 220.353†	84893.7	83930.3	4.873 mg/L	4.873 mg/L	22:59:29
2	Sb 206.836†	124.7	78.8	-0.0886 mg/L	-0.0886 mg/L	22:59:40
2	Se 196.026†	-79.6	-95.7	-0.0315 mg/L	-0.0315 mg/L	22:59:40
2	Sn 189.927†	2712.6	2650.2	0.3484 mg/L	0.3484 mg/L	22:59:40
2	Sr 407.771†	234661.4	232258.8	0.1969 mg/L	0.1969 mg/L	22:59:03
2	Ti 337.279†	8302537.0	8227518.6	8.436 mg/L	8.436 mg/L	22:59:27
2	Tl 190.801†	-12.7	-5.5	-0.1395 mg/L	-0.1395 mg/L	22:59:40

2	V 292.402†	134755.7	134418.9	0.5109 mg/L	0.5109 mg/L	22:59:29
2	Zn 213.857†	407861.0	403242.5	2.462 mg/L	2.462 mg/L	22:59:29

Mean Data: 1306351-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3401748.9	1.01 mg/L	0.005			0.45%
Ag 328.068†	-1098.4	0.0028 mg/L	0.00025	0.0028 mg/L	0.00025	9.14%
Al 237.313†	1621193.2	148.6 mg/L	0.07	148.6 mg/L	0.07	0.04%
As 188.979†	202.9	0.1259 mg/L	0.00313	0.1259 mg/L	0.00313	2.49%
B 249.677†	-53.1	-0.0191 mg/L	0.00343	-0.0191 mg/L	0.00343	17.92%
B 182.528†	49.8	0.0448 mg/L	0.00071	0.0448 mg/L	0.00071	1.58%
Ba 233.527†	150817.4	1.144 mg/L	0.0040	1.144 mg/L	0.0040	0.35%
Be 313.107†	22452.5	0.0061 mg/L	0.00003	0.0061 mg/L	0.00003	0.42%
Ca 315.887†	3862381.0	34.58 mg/L	0.012	34.58 mg/L	0.012	0.04%
Cd 228.802†	403.3	0.0073 mg/L	0.00029	0.0073 mg/L	0.00029	3.98%
Co 228.616†	9134.6	0.1254 mg/L	0.00057	0.1254 mg/L	0.00057	0.45%
Cr 267.716†	41815.7	0.3186 mg/L	0.00036	0.3186 mg/L	0.00036	0.11%
Cu 324.752†	154115.4	0.6697 mg/L	0.00038	0.6697 mg/L	0.00038	0.06%
Fe 234.349†	589894.5	292.0 mg/L	4.92	292.0 mg/L	4.92	1.69%
K 766.490†	50930.9	21.89 mg/L	0.103	21.89 mg/L	0.103	0.47%
Li 670.784†	11021.0	0.2607 mg/L	0.00199	0.2607 mg/L	0.00199	0.76%
Mg 279.077†	986635.2	64.07 mg/L	0.045	64.07 mg/L	0.045	0.07%
Mn 257.610†	4743880.6	5.037 mg/L	0.0002	5.037 mg/L	0.0002	0.00%
Mn 294.920†	2455051.1	5.237 mg/L	0.0011	5.237 mg/L	0.0011	0.02%
Mo 202.031†	272.2	-0.0345 mg/L	0.00084	-0.0345 mg/L	0.00084	2.44%
Na 589.592†	100324.6	13.53 mg/L	0.217	13.53 mg/L	0.217	1.61%
Ni 231.604†	13752.5	0.2554 mg/L	0.00031	0.2554 mg/L	0.00031	0.12%
P 214.914†	23635.8	12.44 mg/L	0.005	12.44 mg/L	0.005	0.04%
Pb 220.353†	84054.9	4.880 mg/L	0.0103	4.880 mg/L	0.0103	0.21%
Sb 206.836†	81.3	-0.0891 mg/L	0.00065	-0.0891 mg/L	0.00065	0.73%
Se 196.026†	-88.9	-0.0275 mg/L	0.00562	-0.0275 mg/L	0.00562	20.40%
Sn 189.927†	2657.1	0.3493 mg/L	0.00121	0.3493 mg/L	0.00121	0.35%
Sr 407.771†	235014.6	0.1992 mg/L	0.00330	0.1992 mg/L	0.00330	1.66%
Ti 337.279†	8230163.1	8.439 mg/L	0.0038	8.439 mg/L	0.0038	0.05%
Tl 190.801†	-6.0	-0.1415 mg/L	0.00277	-0.1415 mg/L	0.00277	1.96%
V 292.402†	134413.4	0.5109 mg/L	0.00004	0.5109 mg/L	0.00004	0.01%
Zn 213.857†	403836.7	2.465 mg/L	0.0049	2.465 mg/L	0.0049	0.20%

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Sequence No.: 116	Autosampler Location: 79
Sample ID: 1306351-02	Date Collected: 6/25/2013 11:02:47 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:57:29 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1306351-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3373450.3	3373450.3	0.998 mg/L		23:04:39
1	Ag 328.068†	62.7	-673.9	0.0018 mg/L	0.0018 mg/L	23:04:39
1	Al 237.313†	1784913.1	1789383.3	164.0 mg/L	164.0 mg/L	23:04:39
1	As 188.979†	134.1	133.3	0.0836 mg/L	0.0836 mg/L	23:04:49
1	B 249.677†	-19.4	-4.2	0.0008 mg/L	0.0008 mg/L	23:04:29
1	B 182.528†	33.5	40.6	0.0372 mg/L	0.0372 mg/L	23:04:49
1	Ba 233.527†	60628.6	60855.0	0.4619 mg/L	0.4619 mg/L	23:04:39
1	Be 313.107†	19241.3	20718.1	0.0064 mg/L	0.0064 mg/L	23:04:39
1	Ca 315.887†	1610569.9	1614971.9	14.46 mg/L	14.46 mg/L	23:04:39
1	Cd 228.802†	263.7	116.9	0.0017 mg/L	0.0017 mg/L	23:04:49
1	Co 228.616†	4496.5	4684.7	0.0621 mg/L	0.0621 mg/L	23:04:49
1	Cr 267.716†	25547.6	24895.2	0.1899 mg/L	0.1899 mg/L	23:04:39
1	Cu 324.752†	58881.1	55059.1	0.2423 mg/L	0.2423 mg/L	23:04:39
1	Fe 234.349†	351525.1	352330.8	174.4 mg/L	174.4 mg/L	23:04:27
1	K 766.490†	15153.7	14443.2	6.311 mg/L	6.311 mg/L	23:04:29
1	Li 670.784†	7933.8	8224.6	0.1950 mg/L	0.1950 mg/L	23:04:29
1	Mg 279.077†	603145.7	604237.5	39.24 mg/L	39.24 mg/L	23:04:39
1	Mn 257.610†	3915071.6	3907972.6	4.165 mg/L	4.165 mg/L	23:04:39
1	Mn 294.920†	1994530.1	1999733.0	4.265 mg/L	4.265 mg/L	23:04:39
1	Mo 202.031†	209.1	220.0	-0.0164 mg/L	-0.0164 mg/L	23:04:49
1	Na 589.592†	44710.3	40586.1	5.525 mg/L	5.525 mg/L	23:04:29

1	Ni 231.604†	8121.8	7963.2	0.1477 mg/L	0.1477 mg/L	23:04:49
1	P 214.914†	21614.0	21709.5	11.43 mg/L	11.43 mg/L	23:04:39
1	Pb 220.353†	15815.1	15668.2	0.8773 mg/L	0.8773 mg/L	23:04:49
1	Sb 206.836†	100.6	56.0	-0.0484 mg/L	-0.0484 mg/L	23:04:49
1	Se 196.026†	-17.7	-34.7	-0.0044 mg/L	-0.0044 mg/L	23:04:49
1	Sn 189.927†	-109.0	-146.7	-0.0075 mg/L	-0.0075 mg/L	23:04:49
1	Sr 407.771†	119912.2	119940.9	0.1018 mg/L	0.1018 mg/L	23:04:27
1	Ti 337.279†	4747909.6	4760067.8	4.882 mg/L	4.882 mg/L	23:04:39
1	Tl 190.801†	-19.8	-12.7	-0.0907 mg/L	-0.0907 mg/L	23:04:49
1	V 292.402†	86110.8	87209.6	0.3337 mg/L	0.3337 mg/L	23:04:39
1	Zn 213.857†	181799.0	181345.4	1.105 mg/L	1.105 mg/L	23:04:39
2	Y 371.029	3494541.4	3494541.4	1.03 mg/L		23:04:53
2	Ag 328.068†	113.8	-626.7	0.0019 mg/L	0.0019 mg/L	23:04:53
2	Al 237.313†	1766063.3	1709153.7	156.7 mg/L	156.7 mg/L	23:04:53
2	As 188.979†	127.4	122.2	0.0769 mg/L	0.0769 mg/L	23:05:03
2	B 249.677†	-23.1	-7.1	-0.0004 mg/L	-0.0004 mg/L	23:04:33
2	B 182.528†	35.2	41.0	0.0376 mg/L	0.0376 mg/L	23:05:03
2	Ba 233.527†	59811.0	57958.3	0.4400 mg/L	0.4400 mg/L	23:04:53
2	Be 313.107†	19163.0	19974.1	0.0061 mg/L	0.0061 mg/L	23:04:53
2	Ca 315.887†	1591385.6	1540473.6	13.80 mg/L	13.80 mg/L	23:04:53
2	Cd 228.802†	260.6	104.7	0.0014 mg/L	0.0014 mg/L	23:05:03
2	Co 228.616†	4421.3	4455.8	0.0590 mg/L	0.0590 mg/L	23:05:03
2	Cr 267.716†	25290.1	23758.8	0.1812 mg/L	0.1812 mg/L	23:04:53
2	Cu 324.752†	58075.6	52234.8	0.2300 mg/L	0.2300 mg/L	23:04:53
2	Fe 234.349†	350590.0	339217.4	167.9 mg/L	167.9 mg/L	23:04:31
2	K 766.490†	14912.1	13683.2	5.987 mg/L	5.987 mg/L	23:04:33
2	Li 670.784†	7759.1	7780.0	0.1846 mg/L	0.1846 mg/L	23:04:33
2	Mg 279.077†	596000.0	576375.9	37.43 mg/L	37.43 mg/L	23:04:53
2	Mn 257.610†	3874620.1	3732860.2	3.978 mg/L	3.978 mg/L	23:04:53
2	Mn 294.920†	1974852.2	1911422.0	4.077 mg/L	4.077 mg/L	23:04:53
2	Mo 202.031†	259.0	261.0	-0.0139 mg/L	-0.0139 mg/L	23:05:03
2	Na 589.592†	44193.7	38533.5	5.250 mg/L	5.250 mg/L	23:04:33
2	Ni 231.604†	8046.8	7608.6	0.1411 mg/L	0.1411 mg/L	23:05:03
2	P 214.914†	21265.5	20621.6	10.86 mg/L	10.86 mg/L	23:04:53
2	Pb 220.353†	15760.5	15066.1	0.8440 mg/L	0.8440 mg/L	23:05:03
2	Sb 206.836†	102.3	54.1	-0.0463 mg/L	-0.0463 mg/L	23:05:03
2	Se 196.026†	-27.9	-43.9	-0.0099 mg/L	-0.0099 mg/L	23:05:03
2	Sn 189.927†	-116.2	-149.9	-0.0083 mg/L	-0.0083 mg/L	23:05:03
2	Sr 407.771†	119776.4	115644.8	0.0982 mg/L	0.0982 mg/L	23:04:31
2	Ti 337.279†	4696399.6	4545330.5	4.662 mg/L	4.662 mg/L	23:04:53
2	Tl 190.801†	-12.1	-4.5	-0.0815 mg/L	-0.0815 mg/L	23:05:03
2	V 292.402†	85114.6	83255.0	0.3187 mg/L	0.3187 mg/L	23:04:53
2	Zn 213.857†	179908.0	173201.8	1.056 mg/L	1.056 mg/L	23:04:53

Mean Data: 1306351-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3433995.8	1.02 mg/L	0.025			2.49%
Ag 328.068†	-650.3	0.0019 mg/L	0.00004	0.0019 mg/L	0.00004	2.30%
Al 237.313†	1749268.5	160.4 mg/L	5.20	160.4 mg/L	5.20	3.24%
As 188.979†	127.8	0.0803 mg/L	0.00480	0.0803 mg/L	0.00480	5.98%
B 249.677†	-5.7	0.0002 mg/L	0.00083	0.0002 mg/L	0.00083	392.52%
B 182.528†	40.8	0.0374 mg/L	0.00025	0.0374 mg/L	0.00025	0.66%
Ba 233.527†	59406.7	0.4510 mg/L	0.01553	0.4510 mg/L	0.01553	3.44%
Be 313.107†	20346.1	0.0063 mg/L	0.00015	0.0063 mg/L	0.00015	2.38%
Ca 315.887†	1577722.8	14.13 mg/L	0.472	14.13 mg/L	0.472	3.34%
Cd 228.802†	110.8	0.0016 mg/L	0.00015	0.0016 mg/L	0.00015	9.80%
Co 228.616†	4570.3	0.0606 mg/L	0.00225	0.0606 mg/L	0.00225	3.71%
Cr 267.716†	24327.0	0.1856 mg/L	0.00611	0.1856 mg/L	0.00611	3.29%
Cu 324.752†	53646.9	0.2362 mg/L	0.00872	0.2362 mg/L	0.00872	3.69%
Fe 234.349†	345774.1	171.2 mg/L	4.59	171.2 mg/L	4.59	2.68%
K 766.490†	14063.2	6.149 mg/L	0.2295	6.149 mg/L	0.2295	3.73%
Li 670.784†	8002.3	0.1898 mg/L	0.00738	0.1898 mg/L	0.00738	3.89%
Mg 279.077†	590306.7	38.34 mg/L	1.279	38.34 mg/L	1.279	3.34%
Mn 257.610†	3820416.4	4.071 mg/L	0.1322	4.071 mg/L	0.1322	3.25%
Mn 294.920†	1955577.5	4.171 mg/L	0.1332	4.171 mg/L	0.1332	3.19%
Mo 202.031†	240.5	-0.0152 mg/L	0.00183	-0.0152 mg/L	0.00183	12.06%
Na 589.592†	39559.8	5.388 mg/L	0.1945	5.388 mg/L	0.1945	3.61%
Ni 231.604†	7785.9	0.1444 mg/L	0.00466	0.1444 mg/L	0.00466	3.23%
P 214.914†	21165.5	11.14 mg/L	0.403	11.14 mg/L	0.403	3.62%
Pb 220.353†	15367.1	0.8607 mg/L	0.02360	0.8607 mg/L	0.02360	2.74%
Sb 206.836†	55.1	-0.0473 mg/L	0.00148	-0.0473 mg/L	0.00148	3.12%

2	Ni 231.604†	16744.2	16558.4	0.3076 mg/L	0.3076 mg/L	23:08:58
2	P 214.914†	26199.1	26231.5	13.80 mg/L	13.80 mg/L	23:08:58
2	Pb 220.353†	302975.1	302634.7	17.67 mg/L	17.67 mg/L	23:08:58
2	Sb 206.836†	115.2	70.3	-0.0846 mg/L	-0.0846 mg/L	23:09:08
2	Se 196.026†	-83.9	-100.8	-0.0354 mg/L	-0.0354 mg/L	23:09:08
2	Sn 189.927†	499.0	461.2	0.0944 mg/L	0.0944 mg/L	23:09:08
2	Sr 407.771†	283548.3	283155.4	0.2400 mg/L	0.2400 mg/L	23:08:30
2	Ti 337.279†	4398146.1	4397160.7	4.510 mg/L	4.510 mg/L	23:08:58
2	Tl 190.801†	-11.1	-4.0	-0.1358 mg/L	-0.1358 mg/L	23:09:08
2	V 292.402†	208855.4	209648.8	0.8115 mg/L	0.8115 mg/L	23:08:58
2	Zn 213.857†	844051.5	842743.9	5.162 mg/L	5.162 mg/L	23:08:58

Mean Data: 1306351-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3379877.1	1.000 mg/L	0.0013			0.13%
Ag 328.068†	-662.3	0.0044 mg/L	0.00026	0.0044 mg/L	0.00026	5.87%
Al 237.313†	1366348.3	125.3 mg/L	0.89	125.3 mg/L	0.89	0.71%
As 188.979†	407.0	0.2503 mg/L	0.00145	0.2503 mg/L	0.00145	0.58%
B 249.677†	-38.0	-0.0130 mg/L	0.00326	-0.0130 mg/L	0.00326	25.16%
B 182.528†	53.2	0.0476 mg/L	0.00711	0.0476 mg/L	0.00711	14.93%
Ba 233.527†	263359.0	1.997 mg/L	0.0105	1.997 mg/L	0.0105	0.52%
Be 313.107†	18796.0	0.0058 mg/L	0.00004	0.0058 mg/L	0.00004	0.68%
Ca 315.887†	6527274.9	58.43 mg/L	0.207	58.43 mg/L	0.207	0.35%
Cd 228.802†	556.8	0.0118 mg/L	0.00016	0.0118 mg/L	0.00016	1.37%
Co 228.616†	8538.2	0.1243 mg/L	0.00005	0.1243 mg/L	0.00005	0.04%
Cr 267.716†	42875.6	0.3267 mg/L	0.00218	0.3267 mg/L	0.00218	0.67%
Cu 324.752†	211362.7	0.9096 mg/L	0.00465	0.9096 mg/L	0.00465	0.51%
Fe 234.349†	543589.6	269.1 mg/L	2.45	269.1 mg/L	2.45	0.91%
K 766.490†	22519.4	9.760 mg/L	0.0405	9.760 mg/L	0.0405	0.41%
Li 670.784†	9088.7	0.2153 mg/L	0.00426	0.2153 mg/L	0.00426	1.98%
Mg 279.077†	985967.6	64.03 mg/L	0.433	64.03 mg/L	0.433	0.68%
Mn 257.610†	4503511.6	4.784 mg/L	0.0299	4.784 mg/L	0.0299	0.62%
Mn 294.920†	2320429.7	4.949 mg/L	0.0293	4.949 mg/L	0.0293	0.59%
Mo 202.031†	404.9	-0.0275 mg/L	0.00302	-0.0275 mg/L	0.00302	10.98%
Na 589.592†	53035.7	7.193 mg/L	0.0014	7.193 mg/L	0.0014	0.02%
Ni 231.604†	16596.3	0.3083 mg/L	0.00100	0.3083 mg/L	0.00100	0.33%
P 214.914†	26315.2	13.84 mg/L	0.062	13.84 mg/L	0.062	0.45%
Pb 220.353†	304084.1	17.75 mg/L	0.120	17.75 mg/L	0.120	0.67%
Sb 206.836†	67.9	-0.0848 mg/L	0.00032	-0.0848 mg/L	0.00032	0.38%
Se 196.026†	-90.3	-0.0297 mg/L	0.00807	-0.0297 mg/L	0.00807	27.21%
Sn 189.927†	466.9	0.0951 mg/L	0.00086	0.0951 mg/L	0.00086	0.91%
Sr 407.771†	281534.3	0.2386 mg/L	0.00194	0.2386 mg/L	0.00194	0.81%
Ti 337.279†	4414457.2	4.528 mg/L	0.0251	4.528 mg/L	0.0251	0.55%
Tl 190.801†	0.2	-0.1319 mg/L	0.00559	-0.1319 mg/L	0.00559	4.24%
V 292.402†	210463.1	0.8146 mg/L	0.00448	0.8146 mg/L	0.00448	0.55%
Zn 213.857†	846435.2	5.185 mg/L	0.0322	5.185 mg/L	0.0322	0.62%

Sequence No.: 118

Sample ID: 1306363-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 6/25/2013 11:12:16 PM

Data Type: Reprocessed on 6/26/2013 10:57:30 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306363-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3335461.2	3335461.2	0.986 mg/L		23:14:12
1	Ag 328.068†	-125.9	-864.4	0.0034 mg/L	0.0034 mg/L	23:14:14
1	Al 237.313†	1269140.3	1286918.7	118.0 mg/L	118.0 mg/L	23:14:12
1	As 188.979†	235.9	238.1	0.1476 mg/L	0.1476 mg/L	23:14:25
1	B 249.677†	5.4	20.7	0.0110 mg/L	0.0110 mg/L	23:13:58
1	B 182.528†	69.4	77.3	0.0674 mg/L	0.0674 mg/L	23:14:25
1	Ba 233.527†	179365.5	181911.0	1.380 mg/L	1.380 mg/L	23:14:14
1	Be 313.107†	20416.6	22129.1	0.0064 mg/L	0.0064 mg/L	23:14:14
1	Ca 315.887†	13094186.2	13274332.3	118.8 mg/L	118.8 mg/L	23:14:09
1	Cd 228.802†	470.4	329.4	0.0057 mg/L	0.0057 mg/L	23:14:25
1	Co 228.616†	7105.3	7380.5	0.1013 mg/L	0.1013 mg/L	23:14:25
1	Cr 267.716†	37206.7	37005.7	0.2820 mg/L	0.2820 mg/L	23:14:14

1	Cu 324.752†	438672.2	440726.6	1.892 mg/L	1.892 mg/L	23:14:14
1	Fe 234.349†	539603.4	546999.2	270.7 mg/L	270.7 mg/L	23:13:56
1	K 766.490†	38509.6	38292.2	16.50 mg/L	16.50 mg/L	23:13:58
1	Li 670.784†	8960.3	9355.7	0.2216 mg/L	0.2216 mg/L	23:13:58
1	Mg 279.077†	781356.3	791775.2	51.42 mg/L	51.42 mg/L	23:14:12
1	Mn 257.610†	3417965.6	3448747.4	3.649 mg/L	3.649 mg/L	23:14:12
1	Mn 294.920†	1762005.7	1786790.9	3.811 mg/L	3.811 mg/L	23:14:12
1	Mo 202.031†	891.0	913.6	-0.0141 mg/L	-0.0141 mg/L	23:14:14
1	Na 589.592†	35031.3	31284.9	4.279 mg/L	4.279 mg/L	23:13:58
1	Ni 231.604†	13997.6	14012.2	0.2603 mg/L	0.2603 mg/L	23:14:25
1	P 214.914†	16145.1	16412.3	8.635 mg/L	8.635 mg/L	23:14:25
1	Pb 220.353†	36994.0	37317.8	2.154 mg/L	2.154 mg/L	23:14:14
1	Sb 206.836†	138.3	95.4	-0.0738 mg/L	-0.0738 mg/L	23:14:25
1	Se 196.026†	-66.1	-83.9	-0.0260 mg/L	-0.0260 mg/L	23:14:25
1	Sn 189.927†	992.1	968.2	0.1940 mg/L	0.1940 mg/L	23:14:25
1	Sr 407.771†	695474.0	704758.3	0.5969 mg/L	0.5969 mg/L	23:13:56
1	Ti 337.279†	6408416.4	6497528.1	6.663 mg/L	6.663 mg/L	23:14:12
1	Tl 190.801†	4.5	11.7	-0.1311 mg/L	-0.1311 mg/L	23:14:25
1	V 292.402†	104370.6	106702.6	0.4062 mg/L	0.4062 mg/L	23:14:14
1	Zn 213.857†	434497.5	439582.0	2.684 mg/L	2.684 mg/L	23:14:14
2	Y 371.029	3329237.2	3329237.2	0.985 mg/L		23:14:32
2	Ag 328.068†	-163.4	-902.8	0.0031 mg/L	0.0031 mg/L	23:14:34
2	Al 237.313†	1270565.5	1290771.3	118.3 mg/L	118.3 mg/L	23:14:32
2	As 188.979†	224.7	227.2	0.1409 mg/L	0.1409 mg/L	23:14:44
2	B 249.677†	21.9	37.4	0.0178 mg/L	0.0178 mg/L	23:14:02
2	B 182.528†	62.2	70.2	0.0615 mg/L	0.0615 mg/L	23:14:44
2	Ba 233.527†	183322.1	186269.3	1.413 mg/L	1.413 mg/L	23:14:34
2	Be 313.107†	20724.8	22480.9	0.0066 mg/L	0.0066 mg/L	23:14:34
2	Ca 315.887†	13074163.8	13278812.8	118.9 mg/L	118.9 mg/L	23:14:28
2	Cd 228.802†	483.7	343.8	0.0061 mg/L	0.0061 mg/L	23:14:44
2	Co 228.616†	7090.6	7379.2	0.1013 mg/L	0.1013 mg/L	23:14:44
2	Cr 267.716†	37883.7	37763.8	0.2878 mg/L	0.2878 mg/L	23:14:34
2	Cu 324.752†	447316.0	450336.6	1.933 mg/L	1.933 mg/L	23:14:34
2	Fe 234.349†	535286.5	543637.6	269.0 mg/L	269.0 mg/L	23:14:00
2	K 766.490†	38952.5	38815.0	16.72 mg/L	16.72 mg/L	23:14:02
2	Li 670.784†	8814.8	9224.9	0.2185 mg/L	0.2185 mg/L	23:14:02
2	Mg 279.077†	780907.2	792800.0	51.48 mg/L	51.48 mg/L	23:14:32
2	Mn 257.610†	3417550.3	3454803.1	3.656 mg/L	3.656 mg/L	23:14:32
2	Mn 294.920†	1762465.8	1790597.4	3.819 mg/L	3.819 mg/L	23:14:32
2	Mo 202.031†	814.6	837.8	-0.0169 mg/L	-0.0169 mg/L	23:14:34
2	Na 589.592†	35258.0	31581.5	4.319 mg/L	4.319 mg/L	23:14:02
2	Ni 231.604†	13931.6	13971.8	0.2595 mg/L	0.2595 mg/L	23:14:44
2	P 214.914†	16063.6	16360.2	8.608 mg/L	8.608 mg/L	23:14:44
2	Pb 220.353†	37949.7	38358.6	2.215 mg/L	2.215 mg/L	23:14:34
2	Sb 206.836†	145.3	102.8	-0.0701 mg/L	-0.0701 mg/L	23:14:44
2	Se 196.026†	-68.1	-86.1	-0.0273 mg/L	-0.0273 mg/L	23:14:44
2	Sn 189.927†	970.1	947.8	0.1915 mg/L	0.1915 mg/L	23:14:44
2	Sr 407.771†	690292.7	700814.3	0.5935 mg/L	0.5935 mg/L	23:14:00
2	Ti 337.279†	6408477.9	6509735.4	6.675 mg/L	6.675 mg/L	23:14:32
2	Tl 190.801†	4.8	12.0	-0.1302 mg/L	-0.1302 mg/L	23:14:44
2	V 292.402†	106626.5	109191.5	0.4158 mg/L	0.4158 mg/L	23:14:34
2	Zn 213.857†	443663.6	449714.4	2.747 mg/L	2.747 mg/L	23:14:34

Mean Data: 1306363-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3332349.2	0.986	mg/L	0.0013				0.13%
Ag 328.068†	-883.6	0.0032	mg/L	0.00016	0.0032	mg/L	0.00016	4.88%
Al 237.313†	1288845.0	118.2	mg/L	0.25	118.2	mg/L	0.25	0.21%
As 188.979†	232.7	0.1443	mg/L	0.00474	0.1443	mg/L	0.00474	3.29%
B 249.677†	29.1	0.0144	mg/L	0.00483	0.0144	mg/L	0.00483	33.48%
B 182.528†	73.7	0.0645	mg/L	0.00413	0.0645	mg/L	0.00413	6.41%
Ba 233.527†	184090.2	1.396	mg/L	0.0234	1.396	mg/L	0.0234	1.67%
Be 313.107†	22305.0	0.0065	mg/L	0.00009	0.0065	mg/L	0.00009	1.32%
Ca 315.887†	13276572.6	118.8	mg/L	0.03	118.8	mg/L	0.03	0.02%
Cd 228.802†	336.6	0.0059	mg/L	0.00029	0.0059	mg/L	0.00029	4.96%
Co 228.616†	7379.9	0.1013	mg/L	0.00004	0.1013	mg/L	0.00004	0.04%
Cr 267.716†	37384.7	0.2849	mg/L	0.00408	0.2849	mg/L	0.00408	1.43%
Cu 324.752†	445531.6	1.912	mg/L	0.0290	1.912	mg/L	0.0290	1.52%
Fe 234.349†	545318.4	269.8	mg/L	1.18	269.8	mg/L	1.18	0.44%
K 766.490†	38553.6	16.61	mg/L	0.158	16.61	mg/L	0.158	0.95%
Li 670.784†	9290.3	0.2201	mg/L	0.00217	0.2201	mg/L	0.00217	0.99%

Mg 279.077†	792287.6	51.45 mg/L	0.047	51.45 mg/L	0.047	0.09%
Mn 257.610†	3451775.3	3.652 mg/L	0.0049	3.652 mg/L	0.0049	0.13%
Mn 294.920†	1788694.2	3.815 mg/L	0.0057	3.815 mg/L	0.0057	0.15%
Mo 202.031†	875.7	-0.0155 mg/L	0.00200	-0.0155 mg/L	0.00200	12.90%
Na 589.592†	31433.2	4.299 mg/L	0.0281	4.299 mg/L	0.0281	0.65%
Ni 231.604†	13992.0	0.2599 mg/L	0.00054	0.2599 mg/L	0.00054	0.21%
P 214.914†	16386.2	8.621 mg/L	0.0196	8.621 mg/L	0.0196	0.23%
Pb 220.353†	37838.2	2.184 mg/L	0.0429	2.184 mg/L	0.0429	1.97%
Sb 206.836†	99.1	-0.0719 mg/L	0.00259	-0.0719 mg/L	0.00259	3.59%
Se 196.026†	-85.0	-0.0267 mg/L	0.00091	-0.0267 mg/L	0.00091	3.41%
Sn 189.927†	958.0	0.1927 mg/L	0.00175	0.1927 mg/L	0.00175	0.91%
Sr 407.771†	702786.3	0.5952 mg/L	0.00236	0.5952 mg/L	0.00236	0.40%
Ti 337.279†	6503631.8	6.669 mg/L	0.0088	6.669 mg/L	0.0088	0.13%
Tl 190.801†	11.8	-0.1307 mg/L	0.00065	-0.1307 mg/L	0.00065	0.50%
V 292.402†	107947.0	0.4110 mg/L	0.00683	0.4110 mg/L	0.00683	1.66%
Zn 213.857†	444648.2	2.716 mg/L	0.0440	2.716 mg/L	0.0440	1.62%

Sequence No.: 119
Sample ID: 1306363-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 6/25/2013 11:17:53 PM
Data Type: Reprocessed on 6/26/2013 10:57:31 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306363-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3372959.7	3372959.7	0.998 mg/L			23:19:50
1	Ag 328.068†	-35.7	-772.6	0.0029 mg/L		0.0029 mg/L	23:19:50
1	Al 237.313†	1185919.7	1189192.7	109.0 mg/L		109.0 mg/L	23:19:50
1	As 188.979†	250.5	250.1	0.1550 mg/L		0.1550 mg/L	23:20:00
1	B 249.677†	-4.2	11.0	0.0070 mg/L		0.0070 mg/L	23:19:37
1	B 182.528†	50.7	57.7	0.0513 mg/L		0.0513 mg/L	23:20:00
1	Ba 233.527†	206214.6	206804.1	1.568 mg/L		1.568 mg/L	23:19:50
1	Be 313.107†	19461.4	20941.5	0.0061 mg/L		0.0061 mg/L	23:19:50
1	Ca 315.887†	10405286.5	10431322.4	93.37 mg/L		93.37 mg/L	23:19:46
1	Cd 228.802†	515.8	369.6	0.0074 mg/L		0.0074 mg/L	23:20:00
1	Co 228.616†	7065.9	7261.1	0.0997 mg/L		0.0997 mg/L	23:20:00
1	Cr 267.716†	34216.9	33589.3	0.2560 mg/L		0.2560 mg/L	23:19:50
1	Cu 324.752†	363352.1	360279.5	1.548 mg/L		1.548 mg/L	23:19:50
1	Fe 234.349†	475437.9	476596.4	235.8 mg/L		235.8 mg/L	23:19:34
1	K 766.490†	38380.0	37728.3	16.25 mg/L		16.25 mg/L	23:19:37
1	Li 670.784†	7978.9	8270.9	0.1961 mg/L		0.1961 mg/L	23:19:37
1	Mg 279.077†	722354.9	723824.7	47.01 mg/L		47.01 mg/L	23:19:50
1	Mn 257.610†	3536254.8	3528805.0	3.743 mg/L		3.743 mg/L	23:19:50
1	Mn 294.920†	1817664.7	1822728.0	3.888 mg/L		3.888 mg/L	23:19:50
1	Mo 202.031†	686.7	698.8	-0.0150 mg/L		-0.0150 mg/L	23:20:00
1	Na 589.592†	39749.7	35619.9	4.860 mg/L		4.860 mg/L	23:19:37
1	Ni 231.604†	13792.8	13649.2	0.2535 mg/L		0.2535 mg/L	23:20:00
1	P 214.914†	15964.4	16049.3	8.449 mg/L		8.449 mg/L	23:20:00
1	Pb 220.353†	52651.4	52596.4	3.050 mg/L		3.050 mg/L	23:19:50
1	Sb 206.836†	136.0	91.5	-0.0604 mg/L		-0.0604 mg/L	23:20:00
1	Se 196.026†	-57.3	-74.3	-0.0228 mg/L		-0.0228 mg/L	23:20:00
1	Sn 189.927†	2235.4	2203.4	0.3299 mg/L		0.3299 mg/L	23:20:00
1	Sr 407.771†	585979.3	587159.5	0.4973 mg/L		0.4973 mg/L	23:19:34
1	Ti 337.279†	6328392.4	6345088.5	6.507 mg/L		6.507 mg/L	23:19:46
1	Tl 190.801†	3.3	10.4	-0.1127 mg/L		-0.1127 mg/L	23:20:00
1	V 292.402†	100432.4	101578.6	0.3861 mg/L		0.3861 mg/L	23:19:50
1	Zn 213.857†	493795.4	494127.5	3.022 mg/L		3.022 mg/L	23:19:50
2	Y 371.029	3360252.3	3360252.3	0.994 mg/L			23:20:07
2	Ag 328.068†	-22.8	-759.8	0.0031 mg/L		0.0031 mg/L	23:20:07
2	Al 237.313†	1182272.1	1190018.1	109.1 mg/L		109.1 mg/L	23:20:07
2	As 188.979†	242.5	243.0	0.1506 mg/L		0.1506 mg/L	23:20:17
2	B 249.677†	3.3	18.5	0.0101 mg/L		0.0101 mg/L	23:19:41
2	B 182.528†	47.6	54.9	0.0490 mg/L		0.0490 mg/L	23:20:17
2	Ba 233.527†	205534.9	206901.9	1.569 mg/L		1.569 mg/L	23:20:07
2	Be 313.107†	19265.4	20818.1	0.0060 mg/L		0.0060 mg/L	23:20:07
2	Ca 315.887†	10365452.9	10430686.0	93.37 mg/L		93.37 mg/L	23:20:03
2	Cd 228.802†	509.9	365.7	0.0072 mg/L		0.0072 mg/L	23:20:17
2	Co 228.616†	6991.7	7213.2	0.0990 mg/L		0.0990 mg/L	23:20:17
2	Cr 267.716†	34041.3	33542.3	0.2557 mg/L		0.2557 mg/L	23:20:07

2	Cu 324.752†	362838.1	361139.7	1.552 mg/L	1.552 mg/L	23:20:07
2	Fe 234.349†	484966.7	487986.8	241.5 mg/L	241.5 mg/L	23:19:39
2	K 766.490†	38064.1	37555.9	16.18 mg/L	16.18 mg/L	23:19:41
2	Li 670.784†	7926.0	8247.9	0.1956 mg/L	0.1956 mg/L	23:19:41
2	Mg 279.077†	719553.6	723744.2	47.00 mg/L	47.00 mg/L	23:20:07
2	Mn 257.610†	3525801.3	3531691.9	3.745 mg/L	3.745 mg/L	23:20:07
2	Mn 294.920†	1813070.0	1824995.2	3.893 mg/L	3.893 mg/L	23:20:07
2	Mo 202.031†	676.0	690.6	-0.0162 mg/L	-0.0162 mg/L	23:20:17
2	Na 589.592†	39561.6	35581.3	4.855 mg/L	4.855 mg/L	23:19:41
2	Ni 231.604†	13660.7	13568.6	0.2520 mg/L	0.2520 mg/L	23:20:17
2	P 214.914†	15844.8	15989.4	8.417 mg/L	8.417 mg/L	23:20:17
2	Pb 220.353†	52738.1	52883.3	3.067 mg/L	3.067 mg/L	23:20:07
2	Sb 206.836†	137.4	93.4	-0.0620 mg/L	-0.0620 mg/L	23:20:17
2	Se 196.026†	-55.2	-72.4	-0.0214 mg/L	-0.0214 mg/L	23:20:17
2	Sn 189.927†	2226.5	2202.9	0.3298 mg/L	0.3298 mg/L	23:20:17
2	Sr 407.771†	596020.8	599484.8	0.5077 mg/L	0.5077 mg/L	23:19:39
2	Ti 337.279†	6309128.6	6349694.9	6.511 mg/L	6.511 mg/L	23:20:03
2	Tl 190.801†	4.8	11.9	-0.1141 mg/L	-0.1141 mg/L	23:20:17
2	V 292.402†	100006.6	101530.9	0.3859 mg/L	0.3859 mg/L	23:20:07
2	Zn 213.857†	492369.1	494564.2	3.024 mg/L	3.024 mg/L	23:20:07

Mean Data: 1306363-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3366606.0	0.996 mg/L		0.0027			0.27%
Ag 328.068†	-766.2	0.0030 mg/L		0.00014	0.0030 mg/L	0.00014	4.73%
Al 237.313†	1189605.4	109.1 mg/L		0.05	109.1 mg/L	0.05	0.05%
As 188.979†	246.5	0.1528 mg/L		0.00309	0.1528 mg/L	0.00309	2.02%
B 249.677†	14.7	0.0086 mg/L		0.00219	0.0086 mg/L	0.00219	25.48%
B 182.528†	56.3	0.0501 mg/L		0.00167	0.0501 mg/L	0.00167	3.32%
Ba 233.527†	206853.0	1.569 mg/L		0.0005	1.569 mg/L	0.0005	0.03%
Be 313.107†	20879.8	0.0060 mg/L		0.00003	0.0060 mg/L	0.00003	0.52%
Ca 315.887†	10431004.2	93.37 mg/L		0.004	93.37 mg/L	0.004	0.00%
Cd 228.802†	367.6	0.0073 mg/L		0.00014	0.0073 mg/L	0.00014	1.94%
Co 228.616†	7237.1	0.0993 mg/L		0.00055	0.0993 mg/L	0.00055	0.55%
Cr 267.716†	33565.8	0.2559 mg/L		0.00025	0.2559 mg/L	0.00025	0.10%
Cu 324.752†	360709.6	1.550 mg/L		0.0026	1.550 mg/L	0.0026	0.17%
Fe 234.349†	482291.6	238.7 mg/L		3.99	238.7 mg/L	3.99	1.67%
K 766.490†	37642.1	16.22 mg/L		0.052	16.22 mg/L	0.052	0.32%
Li 670.784†	8259.4	0.1958 mg/L		0.00038	0.1958 mg/L	0.00038	0.20%
Mg 279.077†	723784.4	47.00 mg/L		0.004	47.00 mg/L	0.004	0.01%
Mn 257.610†	3530248.4	3.744 mg/L		0.0013	3.744 mg/L	0.0013	0.03%
Mn 294.920†	1823861.6	3.890 mg/L		0.0034	3.890 mg/L	0.0034	0.09%
Mo 202.031†	694.7	-0.0156 mg/L		0.00083	-0.0156 mg/L	0.00083	5.32%
Na 589.592†	35600.6	4.857 mg/L		0.0037	4.857 mg/L	0.0037	0.08%
Ni 231.604†	13608.9	0.2527 mg/L		0.00106	0.2527 mg/L	0.00106	0.42%
P 214.914†	16019.4	8.433 mg/L		0.0222	8.433 mg/L	0.0222	0.26%
Pb 220.353†	52739.9	3.058 mg/L		0.0118	3.058 mg/L	0.0118	0.39%
Sb 206.836†	92.5	-0.0612 mg/L		0.00114	-0.0612 mg/L	0.00114	1.87%
Se 196.026†	-73.4	-0.0221 mg/L		0.00099	-0.0221 mg/L	0.00099	4.50%
Sn 189.927†	2203.1	0.3299 mg/L		0.00004	0.3299 mg/L	0.00004	0.01%
Sr 407.771†	593322.1	0.5025 mg/L		0.00738	0.5025 mg/L	0.00738	1.47%
Ti 337.279†	6347391.7	6.509 mg/L		0.0033	6.509 mg/L	0.0033	0.05%
Tl 190.801†	11.2	-0.1134 mg/L		0.00094	-0.1134 mg/L	0.00094	0.83%
V 292.402†	101554.7	0.3860 mg/L		0.00014	0.3860 mg/L	0.00014	0.04%
Zn 213.857†	494345.8	3.023 mg/L		0.0017	3.023 mg/L	0.0017	0.06%

Sequence No.: 120

Sample ID: 1306363-03

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 6/25/2013 11:23:25 PM

Data Type: Reprocessed on 6/26/2013 10:57:31 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306363-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3454916.8	3454916.8	1.02 mg/L		23:25:23
1	Ag 328.068†	270.4	-472.2	0.0049 mg/L	0.0049 mg/L	23:25:23
1	Al 237.313†	1518064.2	1486046.4	136.2 mg/L	136.2 mg/L	23:25:23

1	As 188.979†	195.5	190.2	0.1182 mg/L	0.1182 mg/L	23:25:33
1	B 249.677†	-22.4	-6.7	-0.0002 mg/L	-0.0002 mg/L	23:25:10
1	B 182.528†	59.9	65.6	0.0578 mg/L	0.0578 mg/L	23:25:33
1	Ba 233.527†	238021.7	233028.5	1.767 mg/L	1.767 mg/L	23:25:23
1	Be 313.107†	21991.3	22954.6	0.0066 mg/L	0.0066 mg/L	23:25:23
1	Ca 315.887†	9896813.9	9686270.3	86.70 mg/L	86.70 mg/L	23:25:19
1	Cd 228.802†	478.3	320.6	0.0057 mg/L	0.0057 mg/L	23:25:33
1	Co 228.616†	7779.9	7791.7	0.1067 mg/L	0.1067 mg/L	23:25:33
1	Cr 267.716†	38928.5	37386.7	0.2849 mg/L	0.2849 mg/L	23:25:23
1	Cu 324.752†	1220467.7	1190458.4	5.095 mg/L	5.095 mg/L	23:25:23
1	Fe 234.349†	531093.1	519757.8	257.2 mg/L	257.2 mg/L	23:25:07
1	K 766.490†	50430.6	48609.0	20.90 mg/L	20.90 mg/L	23:25:10
1	Li 670.784†	9701.2	9766.7	0.2312 mg/L	0.2312 mg/L	23:25:10
1	Mg 279.077†	949552.5	928995.1	60.33 mg/L	60.33 mg/L	23:25:23
1	Mn 257.610†	3405211.2	3316467.9	3.509 mg/L	3.509 mg/L	23:25:23
1	Mn 294.920†	1759359.4	1722444.0	3.674 mg/L	3.674 mg/L	23:25:23
1	Mo 202.031†	609.4	606.8	-0.0416 mg/L	-0.0416 mg/L	23:25:23
1	Na 589.592†	37097.5	32079.1	4.385 mg/L	4.385 mg/L	23:25:10
1	Ni 231.604†	13693.9	13224.4	0.2456 mg/L	0.2456 mg/L	23:25:33
1	P 214.914†	18739.2	18385.2	9.637 mg/L	9.637 mg/L	23:25:33
1	Pb 220.353†	52685.3	51377.6	2.970 mg/L	2.970 mg/L	23:25:23
1	Sb 206.836†	161.5	113.2	-0.0608 mg/L	-0.0608 mg/L	23:25:33
1	Se 196.026†	-72.8	-88.1	-0.0292 mg/L	-0.0292 mg/L	23:25:33
1	Sn 189.927†	3007.9	2906.2	0.4121 mg/L	0.4121 mg/L	23:25:33
1	Sr 407.771†	522427.2	511029.6	0.4329 mg/L	0.4329 mg/L	23:25:07
1	Ti 337.279†	7165789.7	7014123.7	7.192 mg/L	7.192 mg/L	23:25:19
1	Tl 190.801†	1.8	8.9	-0.1227 mg/L	-0.1227 mg/L	23:25:33
1	V 292.402†	125386.4	123611.7	0.4709 mg/L	0.4709 mg/L	23:25:23
1	Zn 213.857†	504875.5	493228.8	3.011 mg/L	3.011 mg/L	23:25:23
2	Y 371.029	3455793.5	3455793.5	1.02 mg/L		23:25:40
2	Ag 328.068†	130.3	-609.3	0.0042 mg/L	0.0042 mg/L	23:25:40
2	Al 237.313†	1517632.9	1485247.5	136.2 mg/L	136.2 mg/L	23:25:40
2	As 188.979†	200.2	194.8	0.1210 mg/L	0.1210 mg/L	23:25:50
2	B 249.677†	-19.3	-3.7	0.0011 mg/L	0.0011 mg/L	23:25:14
2	B 182.528†	57.9	63.6	0.0562 mg/L	0.0562 mg/L	23:25:50
2	Ba 233.527†	238049.5	232996.6	1.767 mg/L	1.767 mg/L	23:25:40
2	Be 313.107†	21889.0	22849.1	0.0066 mg/L	0.0066 mg/L	23:25:40
2	Ca 315.887†	9813117.6	9601924.1	85.95 mg/L	85.95 mg/L	23:25:36
2	Cd 228.802†	497.5	339.4	0.0062 mg/L	0.0062 mg/L	23:25:50
2	Co 228.616†	7676.3	7688.5	0.1052 mg/L	0.1052 mg/L	23:25:50
2	Cr 267.716†	38930.6	37379.1	0.2849 mg/L	0.2849 mg/L	23:25:40
2	Cu 324.752†	1221962.6	1191617.9	5.100 mg/L	5.100 mg/L	23:25:40
2	Fe 234.349†	529987.7	518544.5	256.6 mg/L	256.6 mg/L	23:25:12
2	K 766.490†	49490.0	47676.2	20.50 mg/L	20.50 mg/L	23:25:14
2	Li 670.784†	9548.4	9614.8	0.2277 mg/L	0.2277 mg/L	23:25:14
2	Mg 279.077†	947542.8	926793.0	60.18 mg/L	60.18 mg/L	23:25:40
2	Mn 257.610†	3405664.9	3316066.4	3.509 mg/L	3.509 mg/L	23:25:40
2	Mn 294.920†	1760127.5	1722758.6	3.675 mg/L	3.675 mg/L	23:25:40
2	Mo 202.031†	596.6	594.1	-0.0420 mg/L	-0.0420 mg/L	23:25:40
2	Na 589.592†	36465.7	31451.8	4.301 mg/L	4.301 mg/L	23:25:14
2	Ni 231.604†	13557.7	13087.7	0.2430 mg/L	0.2430 mg/L	23:25:50
2	P 214.914†	18617.0	18261.0	9.572 mg/L	9.572 mg/L	23:25:50
2	Pb 220.353†	52633.3	51313.6	2.966 mg/L	2.966 mg/L	23:25:40
2	Sb 206.836†	155.3	107.1	-0.0631 mg/L	-0.0631 mg/L	23:25:50
2	Se 196.026†	-72.5	-87.8	-0.0290 mg/L	-0.0290 mg/L	23:25:50
2	Sn 189.927†	2951.2	2850.0	0.4047 mg/L	0.4047 mg/L	23:25:50
2	Sr 407.771†	520434.3	508950.1	0.4311 mg/L	0.4311 mg/L	23:25:12
2	Ti 337.279†	7119748.3	6967297.3	7.145 mg/L	7.145 mg/L	23:25:36
2	Tl 190.801†	9.8	16.7	-0.1164 mg/L	-0.1164 mg/L	23:25:50
2	V 292.402†	125523.1	123714.3	0.4714 mg/L	0.4714 mg/L	23:25:40
2	Zn 213.857†	505127.6	493350.1	3.011 mg/L	3.011 mg/L	23:25:40

Mean Data: 1306363-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3455355.2	1.02 mg/L		0.000			0.02%
Ag 328.068†	-540.8	0.0046 mg/L		0.00048	0.0046 mg/L	0.00048	10.39%
Al 237.313†	1485646.9	136.2 mg/L		0.05	136.2 mg/L	0.05	0.04%
As 188.979†	192.5	0.1196 mg/L		0.00197	0.1196 mg/L	0.00197	1.65%
B 249.677†	-5.2	0.0004 mg/L		0.00087	0.0004 mg/L	0.00087	199.09%
B 182.528†	64.6	0.0570 mg/L		0.00114	0.0570 mg/L	0.00114	2.01%
Ba 233.527†	233012.5	1.767 mg/L		0.0002	1.767 mg/L	0.0002	0.01%

Be 313.107†	22901.8	0.0066 mg/L	0.00002	0.0066 mg/L	0.00002	0.28%
Ca 315.887†	9644097.2	86.33 mg/L	0.534	86.33 mg/L	0.534	0.62%
Cd 228.802†	330.0	0.0060 mg/L	0.00036	0.0060 mg/L	0.00036	6.08%
Co 228.616†	7740.1	0.1059 mg/L	0.00109	0.1059 mg/L	0.00109	1.03%
Cr 267.716†	37382.9	0.2849 mg/L	0.00004	0.2849 mg/L	0.00004	0.01%
Cu 324.752†	1191038.2	5.097 mg/L	0.0035	5.097 mg/L	0.0035	0.07%
Fe 234.349†	519151.2	256.9 mg/L	0.42	256.9 mg/L	0.42	0.17%
K 766.490†	48142.6	20.70 mg/L	0.282	20.70 mg/L	0.282	1.36%
Li 670.784†	9690.8	0.2295 mg/L	0.00252	0.2295 mg/L	0.00252	1.10%
Mg 279.077†	927894.0	60.26 mg/L	0.101	60.26 mg/L	0.101	0.17%
Mn 257.610†	3316267.1	3.509 mg/L	0.0002	3.509 mg/L	0.0002	0.01%
Mn 294.920†	1722601.3	3.674 mg/L	0.0005	3.674 mg/L	0.0005	0.01%
Mo 202.031†	600.4	-0.0418 mg/L	0.00029	-0.0418 mg/L	0.00029	0.70%
Na 589.592†	31765.4	4.343 mg/L	0.0594	4.343 mg/L	0.0594	1.37%
Ni 231.604†	13156.1	0.2443 mg/L	0.00180	0.2443 mg/L	0.00180	0.74%
P 214.914†	18323.1	9.604 mg/L	0.0461	9.604 mg/L	0.0461	0.48%
Pb 220.353†	51345.6	2.968 mg/L	0.0026	2.968 mg/L	0.0026	0.09%
Sb 206.836†	110.2	-0.0620 mg/L	0.00159	-0.0620 mg/L	0.00159	2.57%
Se 196.026†	-88.0	-0.0291 mg/L	0.00009	-0.0291 mg/L	0.00009	0.31%
Sn 189.927†	2878.1	0.4084 mg/L	0.00521	0.4084 mg/L	0.00521	1.28%
Sr 407.771†	509989.8	0.4320 mg/L	0.00124	0.4320 mg/L	0.00124	0.29%
Ti 337.279†	6990710.5	7.169 mg/L	0.0339	7.169 mg/L	0.0339	0.47%
Tl 190.801†	12.8	-0.1196 mg/L	0.00446	-0.1196 mg/L	0.00446	3.73%
V 292.402†	123663.0	0.4711 mg/L	0.00035	0.4711 mg/L	0.00035	0.07%
Zn 213.857†	493289.4	3.011 mg/L	0.0006	3.011 mg/L	0.0006	0.02%

Sequence No.: 121
Sample ID: CF32408-DUP2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 6/25/2013 11:29:00 PM
Data Type: Reprocessed on 6/26/2013 10:57:32 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32408-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3491287.9	3491287.9	1.03 mg/L			23:30:57
1	Ag 328.068†	180.3	-562.2	0.0030 mg/L		0.0030 mg/L	23:30:57
1	Al 237.313†	1036749.8	1004436.4	92.09 mg/L		92.09 mg/L	23:30:57
1	As 188.979†	184.9	178.0	0.1110 mg/L		0.1110 mg/L	23:31:07
1	B 249.677†	14.5	29.2	0.0145 mg/L		0.0145 mg/L	23:30:44
1	B 182.528†	41.9	47.6	0.0430 mg/L		0.0430 mg/L	23:31:07
1	Ba 233.527†	251410.2	243568.1	1.847 mg/L		1.847 mg/L	23:30:57
1	Be 313.107†	23617.9	24305.7	0.0073 mg/L		0.0073 mg/L	23:30:57
1	Ca 315.887†	9200903.1	8911408.6	79.77 mg/L		79.77 mg/L	23:30:53
1	Cd 228.802†	524.5	360.5	0.0077 mg/L		0.0077 mg/L	23:31:07
1	Co 228.616†	6254.5	6235.2	0.0842 mg/L		0.0842 mg/L	23:31:07
1	Cr 267.716†	31904.9	30187.7	0.2302 mg/L		0.2302 mg/L	23:30:57
1	Cu 324.752†	407788.4	390969.3	1.679 mg/L		1.679 mg/L	23:30:57
1	Fe 234.349†	417177.8	404021.0	199.9 mg/L		199.9 mg/L	23:30:41
1	K 766.490†	32109.4	30351.6	13.10 mg/L		13.10 mg/L	23:30:44
1	Li 670.784†	6982.5	7034.9	0.1671 mg/L		0.1671 mg/L	23:30:44
1	Mg 279.077†	598841.0	579664.7	37.64 mg/L		37.64 mg/L	23:30:57
1	Mn 257.610†	2734493.1	2632188.2	2.786 mg/L		2.786 mg/L	23:30:57
1	Mn 294.920†	1408447.5	1364663.2	2.911 mg/L		2.911 mg/L	23:30:57
1	Mo 202.031†	807.4	792.3	-0.0069 mg/L		-0.0069 mg/L	23:31:07
1	Na 589.592†	32604.2	27349.3	3.752 mg/L		3.752 mg/L	23:30:44
1	Ni 231.604†	10812.9	10294.7	0.1911 mg/L		0.1911 mg/L	23:31:07
1	P 214.914†	13813.2	13423.6	7.070 mg/L		7.070 mg/L	23:31:07
1	Pb 220.353†	55972.2	54023.7	3.137 mg/L		3.137 mg/L	23:30:57
1	Sb 206.836†	122.2	73.5	-0.0522 mg/L		-0.0522 mg/L	23:31:07
1	Se 196.026†	-45.2	-60.6	-0.0173 mg/L		-0.0173 mg/L	23:31:07
1	Sn 189.927†	2192.1	2085.5	0.3070 mg/L		0.3070 mg/L	23:31:07
1	Sr 407.771†	531723.8	514706.7	0.4360 mg/L		0.4360 mg/L	23:30:41
1	Ti 337.279†	6148709.5	5956066.4	6.108 mg/L		6.108 mg/L	23:30:53
1	Tl 190.801†	15.4	22.1	-0.0857 mg/L		-0.0857 mg/L	23:31:07
1	V 292.402†	87877.5	86007.6	0.3261 mg/L		0.3261 mg/L	23:30:57
1	Zn 213.857†	473616.8	457808.7	2.800 mg/L		2.800 mg/L	23:30:57
2	Y 371.029	3477307.9	3477307.9	1.03 mg/L			23:31:14
2	Ag 328.068†	162.4	-578.9	0.0030 mg/L		0.0030 mg/L	23:31:14
2	Al 237.313†	1031313.0	1003186.6	91.97 mg/L		91.97 mg/L	23:31:14

2	As 188.979†	200.7	194.1	0.1208 mg/L	0.1208 mg/L	23:31:24
2	B 249.677†	-2.8	12.4	0.0076 mg/L	0.0076 mg/L	23:30:48
2	B 182.528†	36.9	42.9	0.0391 mg/L	0.0391 mg/L	23:31:24
2	Ba 233.527†	250471.9	243634.6	1.848 mg/L	1.848 mg/L	23:31:14
2	Be 313.107†	23387.6	24173.7	0.0073 mg/L	0.0073 mg/L	23:31:14
2	Ca 315.887†	9254542.0	8999388.9	80.56 mg/L	80.56 mg/L	23:31:10
2	Cd 228.802†	516.6	354.9	0.0076 mg/L	0.0076 mg/L	23:31:24
2	Co 228.616†	6223.6	6229.5	0.0840 mg/L	0.0840 mg/L	23:31:24
2	Cr 267.716†	31757.7	30168.9	0.2300 mg/L	0.2300 mg/L	23:31:14
2	Cu 324.752†	405518.0	390349.5	1.676 mg/L	1.676 mg/L	23:31:14
2	Fe 234.349†	416544.7	405029.7	200.4 mg/L	200.4 mg/L	23:30:46
2	K 766.490†	31939.8	30311.7	13.09 mg/L	13.09 mg/L	23:30:48
2	Li 670.784†	7125.7	7201.3	0.1710 mg/L	0.1710 mg/L	23:30:48
2	Mg 279.077†	596471.1	579691.9	37.64 mg/L	37.64 mg/L	23:31:14
2	Mn 257.610†	2722111.1	2630795.5	2.785 mg/L	2.785 mg/L	23:31:14
2	Mn 294.920†	1400896.6	1362805.0	2.907 mg/L	2.907 mg/L	23:31:14
2	Mo 202.031†	813.9	801.8	-0.0066 mg/L	-0.0066 mg/L	23:31:24
2	Na 589.592†	32479.2	27354.7	3.752 mg/L	3.752 mg/L	23:30:48
2	Ni 231.604†	10772.1	10297.1	0.1911 mg/L	0.1911 mg/L	23:31:24
2	P 214.914†	13706.0	13373.1	7.044 mg/L	7.044 mg/L	23:31:24
2	Pb 220.353†	55644.3	53922.7	3.131 mg/L	3.131 mg/L	23:31:14
2	Sb 206.836†	129.1	80.7	-0.0495 mg/L	-0.0495 mg/L	23:31:24
2	Se 196.026†	-47.6	-63.2	-0.0187 mg/L	-0.0187 mg/L	23:31:24
2	Sn 189.927†	2250.6	2150.9	0.3155 mg/L	0.3155 mg/L	23:31:24
2	Sr 407.771†	531903.5	516951.7	0.4379 mg/L	0.4379 mg/L	23:30:46
2	Ti 337.279†	6170665.2	6001355.6	6.154 mg/L	6.154 mg/L	23:31:10
2	Tl 190.801†	6.9	13.8	-0.0923 mg/L	-0.0923 mg/L	23:31:24
2	V 292.402†	87307.8	85795.8	0.3251 mg/L	0.3251 mg/L	23:31:14
2	Zn 213.857†	470875.5	456987.2	2.795 mg/L	2.795 mg/L	23:31:14

Mean Data: CF32408-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3484297.9	1.03 mg/L	0.003			0.28%
Ag 328.068†	-570.5	0.0030 mg/L	0.00005	0.0030 mg/L	0.00005	1.61%
Al 237.313†	1003811.5	92.03 mg/L	0.081	92.03 mg/L	0.081	0.09%
As 188.979†	186.1	0.1159 mg/L	0.00697	0.1159 mg/L	0.00697	6.01%
B 249.677†	20.8	0.0111 mg/L	0.00485	0.0111 mg/L	0.00485	43.78%
B 182.528†	45.2	0.0410 mg/L	0.00273	0.0410 mg/L	0.00273	6.66%
Ba 233.527†	243601.3	1.847 mg/L	0.0004	1.847 mg/L	0.0004	0.02%
Be 313.107†	24239.7	0.0073 mg/L	0.00004	0.0073 mg/L	0.00004	0.56%
Ca 315.887†	8955398.8	80.16 mg/L	0.557	80.16 mg/L	0.557	0.69%
Cd 228.802†	357.7	0.0077 mg/L	0.00011	0.0077 mg/L	0.00011	1.47%
Co 228.616†	6232.3	0.0841 mg/L	0.00013	0.0841 mg/L	0.00013	0.16%
Cr 267.716†	30178.3	0.2301 mg/L	0.00010	0.2301 mg/L	0.00010	0.04%
Cu 324.752†	390659.4	1.677 mg/L	0.0018	1.677 mg/L	0.0018	0.11%
Fe 234.349†	404525.3	200.2 mg/L	0.35	200.2 mg/L	0.35	0.18%
K 766.490†	30331.6	13.10 mg/L	0.012	13.10 mg/L	0.012	0.09%
Li 670.784†	7118.1	0.1690 mg/L	0.00276	0.1690 mg/L	0.00276	1.64%
Mg 279.077†	579678.3	37.64 mg/L	0.001	37.64 mg/L	0.001	0.00%
Mn 257.610†	2631491.9	2.785 mg/L	0.0011	2.785 mg/L	0.0011	0.04%
Mn 294.920†	1363734.1	2.909 mg/L	0.0028	2.909 mg/L	0.0028	0.10%
Mo 202.031†	797.1	-0.0067 mg/L	0.00021	-0.0067 mg/L	0.00021	3.11%
Na 589.592†	27352.0	3.752 mg/L	0.0005	3.752 mg/L	0.0005	0.01%
Ni 231.604†	10295.9	0.1911 mg/L	0.00003	0.1911 mg/L	0.00003	0.02%
P 214.914†	13398.3	7.057 mg/L	0.0187	7.057 mg/L	0.0187	0.27%
Pb 220.353†	53973.2	3.134 mg/L	0.0042	3.134 mg/L	0.0042	0.13%
Sb 206.836†	77.1	-0.0509 mg/L	0.00192	-0.0509 mg/L	0.00192	3.78%
Se 196.026†	-61.9	-0.0180 mg/L	0.00097	-0.0180 mg/L	0.00097	5.38%
Sn 189.927†	2118.2	0.3113 mg/L	0.00602	0.3113 mg/L	0.00602	1.94%
Sr 407.771†	515829.2	0.4369 mg/L	0.00134	0.4369 mg/L	0.00134	0.31%
Ti 337.279†	5978711.0	6.131 mg/L	0.0328	6.131 mg/L	0.0328	0.54%
Tl 190.801†	17.9	-0.0890 mg/L	0.00465	-0.0890 mg/L	0.00465	5.22%
V 292.402†	85901.7	0.3256 mg/L	0.00065	0.3256 mg/L	0.00065	0.20%
Zn 213.857†	457398.0	2.798 mg/L	0.0036	2.798 mg/L	0.0036	0.13%

Sequence No.: 122

Sample ID: CF32408-MS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Autosampler Location: 85

Date Collected: 6/25/2013 11:34:33 PM

Data Type: Reprocessed on 6/26/2013 10:57:32 AM

Initial Sample Vol:

Replicate Data: CF32408-MS2

Repl#	Analyte	Net	Corrected	Calib.	Sample		Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time	
1	Y 371.029	3380790.8	3380790.8	1.000 mg/L			23:36:33
1	Ag 328.068†	43652.9	42921.0	0.2134 mg/L	0.2134 mg/L		23:36:33
1	Al 237.313†	1259256.7	1259784.1	115.5 mg/L	115.5 mg/L		23:36:33
1	As 188.979†	860.0	859.1	0.5268 mg/L	0.5268 mg/L		23:36:43
1	B 249.677†	972.1	987.4	0.4061 mg/L	0.4061 mg/L		23:36:19
1	B 182.528†	515.6	522.6	0.4333 mg/L	0.4333 mg/L		23:36:43
1	Ba 233.527†	284987.7	285107.1	2.162 mg/L	2.162 mg/L		23:36:33
1	Be 313.107†	139870.2	141318.5	0.0484 mg/L	0.0484 mg/L		23:36:33
1	Ca 315.887†	11099933.2	11101885.2	99.38 mg/L	99.38 mg/L		23:36:29
1	Cd 228.802†	8505.4	8358.9	0.2206 mg/L	0.2206 mg/L		23:36:43
1	Co 228.616†	33316.1	33497.7	0.5175 mg/L	0.5175 mg/L		23:36:43
1	Cr 267.716†	93860.4	93160.1	0.7095 mg/L	0.7095 mg/L		23:36:33
1	Cu 324.752†	499828.9	495927.8	2.128 mg/L	2.128 mg/L		23:36:33
1	Fe 234.349†	527297.3	527357.6	261.0 mg/L	261.0 mg/L		23:36:17
1	K 766.490†	87979.7	87244.4	37.40 mg/L	37.40 mg/L		23:36:19
1	Li 670.784†	27422.6	27698.2	0.6523 mg/L	0.6523 mg/L		23:36:19
1	Mg 279.077†	839327.9	839133.4	54.49 mg/L	54.49 mg/L		23:36:33
1	Mn 257.610†	3799522.9	3783891.1	4.011 mg/L	4.011 mg/L		23:36:33
1	Mn 294.920†	1958562.0	1959420.3	4.179 mg/L	4.179 mg/L		23:36:33
1	Mo 202.031†	11248.9	11260.6	0.3747 mg/L	0.3747 mg/L		23:36:33
1	Na 589.592†	196732.6	192528.0	25.88 mg/L	25.88 mg/L		23:36:17
1	Ni 231.604†	37413.2	37240.3	0.6931 mg/L	0.6931 mg/L		23:36:33
1	P 214.914†	23170.0	23218.6	12.20 mg/L	12.20 mg/L		23:36:33
1	Pb 220.353†	175470.4	175306.8	10.22 mg/L	10.22 mg/L		23:36:33
1	Sb 206.836†	482.0	437.3	0.0705 mg/L	0.0705 mg/L		23:36:43
1	Se 196.026†	1364.2	1347.5	0.7657 mg/L	0.7657 mg/L		23:36:43
1	Sn 189.927†	10723.8	10687.5	1.376 mg/L	1.376 mg/L		23:36:43
1	Sr 407.771†	612975.7	612798.2	0.5190 mg/L	0.5190 mg/L		23:36:17
1	Ti 337.279†	6663164.4	6665203.1	6.835 mg/L	6.835 mg/L		23:36:29
1	Tl 190.801†	519.8	526.9	0.2628 mg/L	0.2628 mg/L		23:36:43
1	V 292.402†	215749.6	216675.4	0.8422 mg/L	0.8422 mg/L		23:36:33
1	Zn 213.857†	675891.3	675097.1	4.128 mg/L	4.128 mg/L		23:36:33
2	Y 371.029	3388914.1	3388914.1	1.00 mg/L			23:36:50
2	Ag 328.068†	43351.7	42515.8	0.2116 mg/L	0.2116 mg/L		23:36:50
2	Al 237.313†	1256391.2	1253906.4	115.0 mg/L	115.0 mg/L		23:36:50
2	As 188.979†	860.2	857.2	0.5256 mg/L	0.5256 mg/L		23:37:00
2	B 249.677†	965.2	978.2	0.4024 mg/L	0.4024 mg/L		23:36:23
2	B 182.528†	524.0	529.8	0.4392 mg/L	0.4392 mg/L		23:37:00
2	Ba 233.527†	284392.0	283829.6	2.152 mg/L	2.152 mg/L		23:36:50
2	Be 313.107†	139117.5	140232.2	0.0481 mg/L	0.0481 mg/L		23:36:50
2	Ca 315.887†	10833200.0	10809152.0	96.76 mg/L	96.76 mg/L		23:36:46
2	Cd 228.802†	8520.3	8353.3	0.2204 mg/L	0.2204 mg/L		23:37:00
2	Co 228.616†	33449.0	33550.5	0.5187 mg/L	0.5187 mg/L		23:37:00
2	Cr 267.716†	93586.8	92662.0	0.7057 mg/L	0.7057 mg/L		23:36:50
2	Cu 324.752†	498854.2	493757.1	2.118 mg/L	2.118 mg/L		23:36:50
2	Fe 234.349†	542511.5	541272.9	267.9 mg/L	267.9 mg/L		23:36:21
2	K 766.490†	86885.1	85941.3	36.84 mg/L	36.84 mg/L		23:36:23
2	Li 670.784†	27135.9	27346.5	0.6440 mg/L	0.6440 mg/L		23:36:23
2	Mg 279.077†	837734.3	835531.3	54.26 mg/L	54.26 mg/L		23:36:50
2	Mn 257.610†	3791823.0	3767100.2	3.992 mg/L	3.992 mg/L		23:36:50
2	Mn 294.920†	1954549.2	1950721.4	4.161 mg/L	4.161 mg/L		23:36:50
2	Mo 202.031†	11316.2	11300.7	0.3753 mg/L	0.3753 mg/L		23:36:50
2	Na 589.592†	200916.5	196230.7	26.38 mg/L	26.38 mg/L		23:36:21
2	Ni 231.604†	37311.3	37048.9	0.6895 mg/L	0.6895 mg/L		23:36:50
2	P 214.914†	23123.9	23117.1	12.15 mg/L	12.15 mg/L		23:36:50
2	Pb 220.353†	175179.9	174596.3	10.18 mg/L	10.18 mg/L		23:36:50
2	Sb 206.836†	497.8	451.9	0.0736 mg/L	0.0736 mg/L		23:37:00
2	Se 196.026†	1355.3	1335.3	0.7594 mg/L	0.7594 mg/L		23:37:00
2	Sn 189.927†	10746.9	10684.8	1.374 mg/L	1.374 mg/L		23:37:00
2	Sr 407.771†	630270.6	628584.2	0.5324 mg/L	0.5324 mg/L		23:36:21
2	Ti 337.279†	6510248.5	6496663.3	6.662 mg/L	6.662 mg/L		23:36:46
2	Tl 190.801†	525.5	531.4	0.2636 mg/L	0.2636 mg/L		23:37:00
2	V 292.402†	214990.9	215401.3	0.8376 mg/L	0.8376 mg/L		23:36:50
2	Zn 213.857†	674815.4	672403.3	4.112 mg/L	4.112 mg/L		23:36:50

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3384852.5	1.00 mg/L		0.002				0.17%
Ag 328.068†	42718.4	0.2125 mg/L		0.00125	0.2125 mg/L		0.00125	0.59%
Al 237.313†	1256845.2	115.2 mg/L		0.38	115.2 mg/L		0.38	0.33%
As 188.979†	858.1	0.5262 mg/L		0.00082	0.5262 mg/L		0.00082	0.15%
B 249.677†	982.8	0.4043 mg/L		0.00266	0.4043 mg/L		0.00266	0.66%
B 182.528†	526.2	0.4362 mg/L		0.00417	0.4362 mg/L		0.00417	0.96%
Ba 233.527†	284468.4	2.157 mg/L		0.0068	2.157 mg/L		0.0068	0.32%
Be 313.107†	140775.4	0.0483 mg/L		0.00024	0.0483 mg/L		0.00024	0.50%
Ca 315.887†	10955518.6	98.07 mg/L		1.853	98.07 mg/L		1.853	1.89%
Cd 228.802†	8356.1	0.2205 mg/L		0.00019	0.2205 mg/L		0.00019	0.08%
Co 228.616†	33524.1	0.5181 mg/L		0.00086	0.5181 mg/L		0.00086	0.17%
Cr 267.716†	92911.0	0.7076 mg/L		0.00268	0.7076 mg/L		0.00268	0.38%
Cu 324.752†	494842.4	2.123 mg/L		0.0067	2.123 mg/L		0.0067	0.32%
Fe 234.349†	534315.3	264.4 mg/L		4.88	264.4 mg/L		4.88	1.84%
K 766.490†	86592.9	37.12 mg/L		0.393	37.12 mg/L		0.393	1.06%
Li 670.784†	27522.4	0.6482 mg/L		0.00584	0.6482 mg/L		0.00584	0.90%
Mg 279.077†	837332.3	54.38 mg/L		0.165	54.38 mg/L		0.165	0.30%
Mn 257.610†	3775495.7	4.002 mg/L		0.0139	4.002 mg/L		0.0139	0.35%
Mn 294.920†	1955070.9	4.170 mg/L		0.0131	4.170 mg/L		0.0131	0.31%
Mo 202.031†	11280.7	0.3750 mg/L		0.00037	0.3750 mg/L		0.00037	0.10%
Na 589.592†	194379.4	26.13 mg/L		0.351	26.13 mg/L		0.351	1.34%
Ni 231.604†	37144.6	0.6913 mg/L		0.00252	0.6913 mg/L		0.00252	0.36%
P 214.914†	23167.8	12.17 mg/L		0.038	12.17 mg/L		0.038	0.31%
Pb 220.353†	174951.6	10.20 mg/L		0.029	10.20 mg/L		0.029	0.29%
Sb 206.836†	444.6	0.0720 mg/L		0.00218	0.0720 mg/L		0.00218	3.03%
Se 196.026†	1341.4	0.7626 mg/L		0.00447	0.7626 mg/L		0.00447	0.59%
Sn 189.927†	10686.2	1.375 mg/L		0.0014	1.375 mg/L		0.0014	0.10%
Sr 407.771†	620691.2	0.5257 mg/L		0.00945	0.5257 mg/L		0.00945	1.80%
Ti 337.279†	6580933.2	6.748 mg/L		0.1222	6.748 mg/L		0.1222	1.81%
Tl 190.801†	529.2	0.2632 mg/L		0.00055	0.2632 mg/L		0.00055	0.21%
V 292.402†	216038.3	0.8399 mg/L		0.00327	0.8399 mg/L		0.00327	0.39%
Zn 213.857†	673750.2	4.120 mg/L		0.0119	4.120 mg/L		0.0119	0.29%

Sequence No.: 123
Sample ID: CCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/25/2013 11:40:09 PM
Data Type: Reprocessed on 6/26/2013 10:57:33 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib	Sample Conc. Units	Analysis Time
1	Y 371.029	3291226.5	3291226.5	0.973 mg/L			23:42:01
1	Ag 328.068†	50830.3	51482.6	0.2480 mg/L		0.2480 mg/L	23:42:01
1	Al 237.313†	25223.9	26300.6	2.420 mg/L		2.420 mg/L	23:42:11
1	As 188.979†	752.4	771.9	0.4741 mg/L		0.4741 mg/L	23:42:11
1	B 249.677†	1088.1	1133.1	0.4657 mg/L		0.4657 mg/L	23:41:51
1	B 182.528†	552.5	574.5	0.4759 mg/L		0.4759 mg/L	23:42:11
1	Ba 233.527†	63197.2	65011.9	0.4935 mg/L		0.4935 mg/L	23:42:01
1	Be 313.107†	134738.8	139853.6	0.0494 mg/L		0.0494 mg/L	23:42:01
1	Ca 315.887†	518770.2	533664.7	4.786 mg/L		4.786 mg/L	23:42:01
1	Cd 228.802†	9307.5	9414.4	0.2533 mg/L		0.2533 mg/L	23:42:11
1	Co 228.616†	30415.6	31424.7	0.4981 mg/L		0.4981 mg/L	23:42:11
1	Cr 267.716†	62624.0	63624.6	0.4848 mg/L		0.4848 mg/L	23:42:01
1	Cu 324.752†	114146.6	113309.2	0.4856 mg/L		0.4856 mg/L	23:42:01
1	Fe 234.349†	4602.1	4729.5	2.337 mg/L		2.337 mg/L	23:41:51
1	K 766.490†	54460.2	55203.3	23.72 mg/L		23.72 mg/L	23:41:49
1	Li 670.784†	19675.5	20485.7	0.4829 mg/L		0.4829 mg/L	23:41:51
1	Mg 279.077†	72574.1	74269.5	4.821 mg/L		4.821 mg/L	23:42:01
1	Mn 257.610†	463530.9	460143.7	0.4944 mg/L		0.4944 mg/L	23:42:01
1	Mn 294.920†	222703.5	229429.9	0.4892 mg/L		0.4892 mg/L	23:42:01
1	Mo 202.031†	12627.1	12982.6	0.4874 mg/L		0.4874 mg/L	23:42:11
1	Na 589.592†	175199.2	175760.5	23.64 mg/L		23.64 mg/L	23:41:49
1	Ni 231.604†	25856.6	26386.0	0.4912 mg/L		0.4912 mg/L	23:42:01
1	P 214.914†	8722.3	9006.7	4.763 mg/L		4.763 mg/L	23:42:11
1	Pb 220.353†	8349.8	8394.9	0.4939 mg/L		0.4939 mg/L	23:42:11
1	Sb 206.836†	1187.0	1174.6	0.4847 mg/L		0.4847 mg/L	23:42:11
1	Se 196.026†	1685.2	1714.4	0.9536 mg/L		0.9536 mg/L	23:42:11

1	Sn 189.927†	3928.1	3998.0	0.4955 mg/L	0.4955 mg/L	23:42:11
1	Sr 407.771†	52716.1	53911.1	0.0459 mg/L	0.0459 mg/L	23:41:49
1	Ti 337.279†	459570.7	473427.4	0.4881 mg/L	0.4881 mg/L	23:42:01
1	Tl 190.801†	609.4	633.2	0.4732 mg/L	0.4732 mg/L	23:42:11
1	V 292.402†	121248.6	125463.9	0.5004 mg/L	0.5004 mg/L	23:42:01
1	Zn 213.857†	79235.1	80530.9	0.4910 mg/L	0.4910 mg/L	23:42:01
2	Y 371.029	3302289.0	3302289.0	0.977 mg/L		23:42:15
2	Ag 328.068†	50802.3	51279.0	0.2470 mg/L	0.2470 mg/L	23:42:15
2	Al 237.313†	25117.7	26105.1	2.402 mg/L	2.402 mg/L	23:42:25
2	As 188.979†	759.8	776.9	0.4771 mg/L	0.4771 mg/L	23:42:25
2	B 249.677†	1081.2	1122.2	0.4613 mg/L	0.4613 mg/L	23:41:56
2	B 182.528†	561.6	582.0	0.4820 mg/L	0.4820 mg/L	23:42:25
2	Ba 233.527†	63451.7	65055.1	0.4938 mg/L	0.4938 mg/L	23:42:15
2	Be 313.107†	134836.1	139489.5	0.0493 mg/L	0.0493 mg/L	23:42:15
2	Ca 315.887†	519173.5	532292.3	4.774 mg/L	4.774 mg/L	23:42:15
2	Cd 228.802†	9316.4	9391.4	0.2526 mg/L	0.2526 mg/L	23:42:25
2	Co 228.616†	30370.4	31273.7	0.4957 mg/L	0.4957 mg/L	23:42:25
2	Cr 267.716†	62604.1	63388.6	0.4831 mg/L	0.4831 mg/L	23:42:15
2	Cu 324.752†	114200.5	112971.6	0.4842 mg/L	0.4842 mg/L	23:42:15
2	Fe 234.349†	4549.2	4659.6	2.303 mg/L	2.303 mg/L	23:41:56
2	K 766.490†	54827.8	55392.3	23.80 mg/L	23.80 mg/L	23:41:54
2	Li 670.784†	19560.7	20300.5	0.4786 mg/L	0.4786 mg/L	23:41:56
2	Mg 279.077†	72694.4	74142.9	4.813 mg/L	4.813 mg/L	23:42:15
2	Mn 257.610†	464426.8	459465.8	0.4937 mg/L	0.4937 mg/L	23:42:15
2	Mn 294.920†	222911.4	228876.4	0.4880 mg/L	0.4880 mg/L	23:42:15
2	Mo 202.031†	12594.7	12906.0	0.4846 mg/L	0.4846 mg/L	23:42:25
2	Na 589.592†	176458.8	176447.2	23.73 mg/L	23.73 mg/L	23:41:54
2	Ni 231.604†	25918.6	26360.5	0.4907 mg/L	0.4907 mg/L	23:42:15
2	P 214.914†	8718.5	8972.8	4.745 mg/L	4.745 mg/L	23:42:25
2	Pb 220.353†	8403.5	8421.1	0.4954 mg/L	0.4954 mg/L	23:42:25
2	Sb 206.836†	1186.4	1169.9	0.4828 mg/L	0.4828 mg/L	23:42:25
2	Se 196.026†	1687.5	1711.0	0.9517 mg/L	0.9517 mg/L	23:42:25
2	Sn 189.927†	3908.9	3964.8	0.4914 mg/L	0.4914 mg/L	23:42:25
2	Sr 407.771†	53225.5	54251.2	0.0462 mg/L	0.0462 mg/L	23:41:54
2	Ti 337.279†	459775.3	472055.3	0.4867 mg/L	0.4867 mg/L	23:42:15
2	Tl 190.801†	615.6	637.4	0.4764 mg/L	0.4764 mg/L	23:42:25
2	V 292.402†	121638.8	125446.1	0.5003 mg/L	0.5003 mg/L	23:42:15
2	Zn 213.857†	79320.8	80346.0	0.4899 mg/L	0.4899 mg/L	23:42:15

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3296757.8	0.975 mg/L	0.0023			0.24%
Ag 328.068†	51380.8	0.2475 mg/L	0.00069	0.2475 mg/L	0.00069	0.28%
QC value within limits for Ag 328.068		Recovery = 98.99%				
Al 237.313†	26202.9	2.411 mg/L	0.0127	2.411 mg/L	0.0127	0.53%
QC value within limits for Al 237.313		Recovery = 96.44%				
As 188.979†	774.4	0.4756 mg/L	0.00215	0.4756 mg/L	0.00215	0.45%
QC value within limits for As 188.979		Recovery = 95.12%				
B 249.677†	1127.7	0.4635 mg/L	0.00314	0.4635 mg/L	0.00314	0.68%
QC value within limits for B 249.677		Recovery = 92.69%				
B 182.528†	578.2	0.4790 mg/L	0.00433	0.4790 mg/L	0.00433	0.90%
QC value within limits for B 182.528		Recovery = 95.79%				
Ba 233.527†	65033.5	0.4936 mg/L	0.00023	0.4936 mg/L	0.00023	0.05%
QC value within limits for Ba 233.527		Recovery = 98.72%				
Be 313.107†	139671.6	0.0493 mg/L	0.00009	0.0493 mg/L	0.00009	0.18%
QC value within limits for Be 313.107		Recovery = 98.70%				
Ca 315.887†	532978.5	4.780 mg/L	0.0087	4.780 mg/L	0.0087	0.18%
QC value within limits for Ca 315.887		Recovery = 95.60%				
Cd 228.802†	9402.9	0.2530 mg/L	0.00043	0.2530 mg/L	0.00043	0.17%
QC value within limits for Cd 228.802		Recovery = 101.18%				
Co 228.616†	31349.2	0.4969 mg/L	0.00170	0.4969 mg/L	0.00170	0.34%
QC value within limits for Co 228.616		Recovery = 99.37%				
Cr 267.716†	63506.6	0.4840 mg/L	0.00127	0.4840 mg/L	0.00127	0.26%
QC value within limits for Cr 267.716		Recovery = 96.79%				
Cu 324.752†	113140.4	0.4849 mg/L	0.00102	0.4849 mg/L	0.00102	0.21%
QC value within limits for Cu 324.752		Recovery = 96.98%				
Fe 234.349†	4694.5	2.320 mg/L	0.0245	2.320 mg/L	0.0245	1.05%
QC value within limits for Fe 234.349		Recovery = 92.80%				
K 766.490†	55297.8	23.76 mg/L	0.057	23.76 mg/L	0.057	0.24%
QC value within limits for K 766.490		Recovery = 95.03%				
Li 670.784†	20393.1	0.4808 mg/L	0.00308	0.4808 mg/L	0.00308	0.64%

QC value within limits for Li 670.784	Recovery = 96.15%				
Mg 279.077†	74206.2	4.817 mg/L	0.0058	4.817 mg/L	0.0058 0.12%
QC value within limits for Mg 279.077	Recovery = 96.35%				
Mn 257.610†	459804.7	0.4940 mg/L	0.00051	0.4940 mg/L	0.00051 0.10%
QC value within limits for Mn 257.610	Recovery = 98.81%				
Mn 294.920†	229153.2	0.4886 mg/L	0.00083	0.4886 mg/L	0.00083 0.17%
QC value within limits for Mn 294.920	Recovery = 97.72%				
Mo 202.031†	12944.3	0.4860 mg/L	0.00203	0.4860 mg/L	0.00203 0.42%
QC value within limits for Mo 202.031	Recovery = 97.20%				
Na 589.592†	176103.8	23.68 mg/L	0.065	23.68 mg/L	0.065 0.27%
QC value within limits for Na 589.592	Recovery = 94.73%				
Ni 231.604†	26373.3	0.4910 mg/L	0.00034	0.4910 mg/L	0.00034 0.07%
QC value within limits for Ni 231.604	Recovery = 98.19%				
P 214.914†	8989.8	4.754 mg/L	0.0126	4.754 mg/L	0.0126 0.26%
QC value within limits for P 214.914	Recovery = 95.08%				
Pb 220.353†	8408.0	0.4947 mg/L	0.00108	0.4947 mg/L	0.00108 0.22%
QC value within limits for Pb 220.353	Recovery = 98.94%				
Sb 206.836†	1172.2	0.4837 mg/L	0.00137	0.4837 mg/L	0.00137 0.28%
QC value within limits for Sb 206.836	Recovery = 96.75%				
Se 196.026†	1712.7	0.9526 mg/L	0.00134	0.9526 mg/L	0.00134 0.14%
QC value within limits for Se 196.026	Recovery = 95.26%				
Sn 189.927†	3981.4	0.4935 mg/L	0.00289	0.4935 mg/L	0.00289 0.59%
QC value within limits for Sn 189.927	Recovery = 98.70%				
Sr 407.771†	54081.2	0.0461 mg/L	0.00020	0.0461 mg/L	0.00020 0.44%
QC value within limits for Sr 407.771	Recovery = 92.15%				
Ti 337.279†	472741.3	0.4874 mg/L	0.00099	0.4874 mg/L	0.00099 0.20%
QC value within limits for Ti 337.279	Recovery = 97.47%				
Tl 190.801†	635.3	0.4748 mg/L	0.00227	0.4748 mg/L	0.00227 0.48%
QC value within limits for Tl 190.801	Recovery = 94.97%				
V 292.402†	125455.0	0.5004 mg/L	0.00008	0.5004 mg/L	0.00008 0.02%
QC value within limits for V 292.402	Recovery = 100.08%				
Zn 213.857†	80438.5	0.4905 mg/L	0.00080	0.4905 mg/L	0.00080 0.16%
QC value within limits for Zn 213.857	Recovery = 98.09%				

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: CCB1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/25/2013 11:44:03 PM
Data Type: Reprocessed on 6/26/2013 10:57:34 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3292135.6	3292135.6	0.974	mg/L			23:46:10
1	Ag 328.068†	674.7	-43.8	0.0004	mg/L	0.0004	mg/L	23:46:13
1	Al 237.313†	-515.4	-141.9	-0.0059	mg/L	-0.0059	mg/L	23:46:13
1	As 188.979†	-6.1	-7.3	-0.0019	mg/L	-0.0019	mg/L	23:46:23
1	B 249.677†	-13.3	1.5	0.0032	mg/L	0.0032	mg/L	23:45:54
1	B 182.528†	-2.1	4.8	0.0079	mg/L	0.0079	mg/L	23:46:23
1	Ba 233.527†	-75.6	10.1	0.0007	mg/L	0.0007	mg/L	23:46:23
1	Be 313.107†	-1263.7	134.9	0.0003	mg/L	0.0003	mg/L	23:46:13
1	Ca 315.887†	-1176.1	-490.0	0.0039	mg/L	0.0039	mg/L	23:46:13
1	Cd 228.802†	153.8	10.6	0.0018	mg/L	0.0018	mg/L	23:46:23
1	Co 228.616†	-156.3	17.4	-0.0018	mg/L	-0.0018	mg/L	23:46:23
1	Cr 267.716†	496.6	-200.8	-0.0010	mg/L	-0.0010	mg/L	23:46:13
1	Cu 324.752†	4114.7	269.3	0.0025	mg/L	0.0025	mg/L	23:46:13
1	Fe 234.349†	17.0	19.2	0.0201	mg/L	0.0201	mg/L	23:45:54
1	K 766.490†	569.0	-160.7	0.0748	mg/L	0.0748	mg/L	23:45:44
1	Li 670.784†	-221.9	44.7	0.0029	mg/L	0.0029	mg/L	23:45:44
1	Mg 279.077†	256.1	-24.8	-0.0036	mg/L	-0.0036	mg/L	23:46:13
1	Mn 257.610†	15708.9	79.5	0.0000	mg/L	0.0000	mg/L	23:46:13
1	Mn 294.920†	-636.1	-12.7	-0.0002	mg/L	-0.0002	mg/L	23:46:13
1	Mo 202.031†	-14.7	-4.7	0.0026	mg/L	0.0026	mg/L	23:46:23
1	Na 589.592†	2483.8	-1675.5	-0.1374	mg/L	-0.1374	mg/L	23:45:44
1	Ni 231.604†	172.9	0.4	-0.0005	mg/L	-0.0005	mg/L	23:46:13
1	P 214.914†	-40.1	4.9	0.0511	mg/L	0.0511	mg/L	23:46:23
1	Pb 220.353†	143.0	-36.2	-0.0002	mg/L	-0.0002	mg/L	23:46:23
1	Sb 206.836†	41.8	-1.8	0.0036	mg/L	0.0036	mg/L	23:46:23
1	Se 196.026†	15.7	-0.8	0.0040	mg/L	0.0040	mg/L	23:46:23

1	Sn 189.927†	44.4	8.1	0.0026 mg/L	0.0026 mg/L	23:46:23
1	Sr 407.771†	233.8	-5.5	0.0003 mg/L	0.0003 mg/L	23:45:44
1	Ti 337.279†	-1531.2	-274.7	0.0025 mg/L	0.0025 mg/L	23:46:13
1	Tl 190.801†	-4.0	3.0	0.0019 mg/L	0.0019 mg/L	23:46:23
1	V 292.402†	-818.3	61.5	0.0026 mg/L	0.0026 mg/L	23:46:13
1	Zn 213.857†	1015.2	173.2	0.0015 mg/L	0.0015 mg/L	23:46:23
2	Y 371.029	3352089.3	3352089.3	0.991 mg/L		23:46:25
2	Ag 328.068†	667.0	-64.0	0.0003 mg/L	0.0003 mg/L	23:46:27
2	Al 237.313†	-387.5	-3.4	0.0068 mg/L	0.0068 mg/L	23:46:27
2	As 188.979†	1.7	0.6	0.0030 mg/L	0.0030 mg/L	23:46:38
2	B 249.677†	-5.7	9.5	0.0064 mg/L	0.0064 mg/L	23:46:07
2	B 182.528†	-5.1	1.8	0.0053 mg/L	0.0053 mg/L	23:46:38
2	Ba 233.527†	-50.1	37.2	0.0009 mg/L	0.0009 mg/L	23:46:38
2	Be 313.107†	-1191.5	230.9	0.0003 mg/L	0.0003 mg/L	23:46:27
2	Ca 315.887†	-1134.5	-426.4	0.0045 mg/L	0.0045 mg/L	23:46:27
2	Cd 228.802†	144.3	-1.9	0.0014 mg/L	0.0014 mg/L	23:46:38
2	Co 228.616†	-159.2	17.3	-0.0018 mg/L	-0.0018 mg/L	23:46:38
2	Cr 267.716†	520.7	-185.6	-0.0009 mg/L	-0.0009 mg/L	23:46:27
2	Cu 324.752†	4143.5	222.7	0.0023 mg/L	0.0023 mg/L	23:46:27
2	Fe 234.349†	5.5	7.2	0.0142 mg/L	0.0142 mg/L	23:46:07
2	K 766.490†	577.0	-163.1	0.0738 mg/L	0.0738 mg/L	23:45:57
2	Li 670.784†	-340.8	-71.1	0.0002 mg/L	0.0002 mg/L	23:45:57
2	Mg 279.077†	226.6	-59.3	-0.0059 mg/L	-0.0059 mg/L	23:46:27
2	Mn 257.610†	15806.8	-110.3	-0.0002 mg/L	-0.0002 mg/L	23:46:27
2	Mn 294.920†	-664.7	-29.9	-0.0002 mg/L	-0.0002 mg/L	23:46:27
2	Mo 202.031†	-24.7	-14.4	0.0022 mg/L	0.0022 mg/L	23:46:38
2	Na 589.592†	2416.3	-1789.2	-0.1526 mg/L	-0.1526 mg/L	23:45:57
2	Ni 231.604†	225.5	50.3	0.0004 mg/L	0.0004 mg/L	23:46:27
2	P 214.914†	-43.3	2.4	0.0497 mg/L	0.0497 mg/L	23:46:38
2	Pb 220.353†	203.6	22.3	0.0032 mg/L	0.0032 mg/L	23:46:38
2	Sb 206.836†	39.9	-4.6	0.0025 mg/L	0.0025 mg/L	23:46:38
2	Se 196.026†	19.9	3.3	0.0062 mg/L	0.0062 mg/L	23:46:38
2	Sn 189.927†	44.5	7.4	0.0025 mg/L	0.0025 mg/L	23:46:38
2	Sr 407.771†	226.9	-16.7	0.0003 mg/L	0.0003 mg/L	23:45:57
2	Ti 337.279†	-1504.0	-219.2	0.0026 mg/L	0.0026 mg/L	23:46:27
2	Tl 190.801†	-8.8	-1.8	-0.0017 mg/L	-0.0017 mg/L	23:46:38
2	V 292.402†	-878.7	15.5	0.0024 mg/L	0.0024 mg/L	23:46:27
2	Zn 213.857†	984.7	123.8	0.0012 mg/L	0.0012 mg/L	23:46:38

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3322112.5	0.983 mg/L	0.0125			1.28%
Ag 328.068†	-53.9	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	17.48%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-72.7	0.0004 mg/L	0.00898	0.0004 mg/L	0.00898	>999.9%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-3.4	0.0006 mg/L	0.00345	0.0006 mg/L	0.00345	588.04%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.5	0.0048 mg/L	0.00228	0.0048 mg/L	0.00228	47.88%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	3.3	0.0066 mg/L	0.00177	0.0066 mg/L	0.00177	26.87%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	23.7	0.0008 mg/L	0.00014	0.0008 mg/L	0.00014	18.69%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	182.9	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	8.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-458.2	0.0042 mg/L	0.00040	0.0042 mg/L	0.00040	9.62%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	4.3	0.0016 mg/L	0.00024	0.0016 mg/L	0.00024	14.59%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	17.3	-0.0018 mg/L	0.00000	-0.0018 mg/L	0.00000	0.07%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-193.2	-0.0010 mg/L	0.00008	-0.0010 mg/L	0.00008	8.51%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	246.0	0.0024 mg/L	0.00014	0.0024 mg/L	0.00014	5.93%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	13.2	0.0171 mg/L	0.00419	0.0171 mg/L	0.00419	24.44%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	-161.9	0.0743 mg/L	0.00074	0.0743 mg/L	0.00074	0.99%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	-13.2	0.0016 mg/L	0.00192	0.0016 mg/L	0.00192	121.28%

QC value within limits for Li 670.784 Recovery = Not calculated
Mg 279.077† -42.1 -0.0047 mg/L 0.00159 -0.0047 mg/L 0.00159 33.50%
QC value within limits for Mg 279.077 Recovery = Not calculated
Mn 257.610† -15.4 -0.0001 mg/L 0.00014 -0.0001 mg/L 0.00014 170.62%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mn 294.920† -21.3 -0.0002 mg/L 0.00003 -0.0002 mg/L 0.00003 11.91%
QC value within limits for Mn 294.920 Recovery = Not calculated
Mo 202.031† -9.6 0.0024 mg/L 0.00026 0.0024 mg/L 0.00026 10.70%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated
Na 589.592† -1732.3 -0.1450 mg/L 0.01078 -0.1450 mg/L 0.01078 7.43%
QC value less than the lower limit for Na 589.592 Recovery = Not calculated
Ni 231.604† 25.4 -0.0001 mg/L 0.00066 -0.0001 mg/L 0.00066 >999.9%
QC value within limits for Ni 231.604 Recovery = Not calculated
P 214.914† 3.6 0.0504 mg/L 0.00094 0.0504 mg/L 0.00094 1.86%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated
Pb 220.353† -7.0 0.0015 mg/L 0.00242 0.0015 mg/L 0.00242 158.64%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -3.2 0.0031 mg/L 0.00080 0.0031 mg/L 0.00080 26.14%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 1.2 0.0051 mg/L 0.00158 0.0051 mg/L 0.00158 30.86%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 7.8 0.0025 mg/L 0.00006 0.0025 mg/L 0.00006 2.23%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 407.771† -11.1 0.0003 mg/L 0.00001 0.0003 mg/L 0.00001 2.33%
QC value within limits for Sr 407.771 Recovery = Not calculated
Ti 337.279† -246.9 0.0025 mg/L 0.00004 0.0025 mg/L 0.00004 1.59%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated
Tl 190.801† 0.6 0.0001 mg/L 0.00256 0.0001 mg/L 0.00256 >999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 38.5 0.0025 mg/L 0.00013 0.0025 mg/L 0.00013 5.25%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated
Zn 213.857† 148.5 0.0014 mg/L 0.00022 0.0014 mg/L 0.00022 15.75%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 125 Autosampler Location: 86
Sample ID: CF32408-SD2 @5 Date Collected: 6/25/2013 11:48:15 PM
Analyst: Data Type: Reprocessed on 6/26/2013 10:57:34 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CF32408-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3384016.3	3384016.3	1.00 mg/L		23:50:03
1	Ag 328.068†	631.2	-106.1	0.0015 mg/L	0.0015 mg/L	23:50:06
1	Al 237.313†	306333.9	306463.4	28.10 mg/L	28.10 mg/L	23:50:03
1	As 188.979†	35.4	34.3	0.0235 mg/L	0.0235 mg/L	23:50:16
1	B 249.677†	-29.9	-14.6	-0.0034 mg/L	-0.0034 mg/L	23:49:54
1	B 182.528†	9.9	16.8	0.0177 mg/L	0.0177 mg/L	23:50:16
1	Ba 233.527†	48505.3	48552.2	0.3687 mg/L	0.3687 mg/L	23:50:06
1	Be 313.107†	3506.8	4936.6	0.0016 mg/L	0.0016 mg/L	23:50:06
1	Ca 315.887†	2087282.1	2086242.4	18.68 mg/L	18.68 mg/L	23:50:03
1	Cd 228.802†	214.1	66.5	0.0023 mg/L	0.0023 mg/L	23:50:16
1	Co 228.616†	1503.9	1680.6	0.0214 mg/L	0.0214 mg/L	23:50:16
1	Cr 267.716†	8458.8	7740.9	0.0594 mg/L	0.0594 mg/L	23:50:06
1	Cu 324.752†	250942.1	246774.1	1.057 mg/L	1.057 mg/L	23:50:03
1	Fe 234.349†	112109.7	112017.0	55.44 mg/L	55.44 mg/L	23:49:52
1	K 766.490†	10522.8	9768.8	4.315 mg/L	4.315 mg/L	23:49:54
1	Li 670.784†	1776.7	2047.8	0.0500 mg/L	0.0500 mg/L	23:49:54
1	Mg 279.077†	196104.8	195651.8	12.70 mg/L	12.70 mg/L	23:50:06
1	Mn 257.610†	735962.6	719288.7	0.7612 mg/L	0.7612 mg/L	23:50:03
1	Mn 294.920†	363758.3	364092.5	0.7764 mg/L	0.7764 mg/L	23:50:06
1	Mo 202.031†	170.2	180.5	-0.0047 mg/L	-0.0047 mg/L	23:50:16
1	Na 589.592†	9317.7	5083.4	0.7683 mg/L	0.7683 mg/L	23:49:54
1	Ni 231.604†	3051.4	2871.7	0.0529 mg/L	0.0529 mg/L	23:50:16
1	P 214.914†	3843.4	3886.2	2.075 mg/L	2.075 mg/L	23:50:16
1	Pb 220.353†	11133.1	10940.6	0.6342 mg/L	0.6342 mg/L	23:50:06
1	Sb 206.836†	77.7	32.9	-0.0062 mg/L	-0.0062 mg/L	23:50:16
1	Se 196.026†	-2.5	-19.3	-0.0030 mg/L	-0.0030 mg/L	23:50:16

1	Sn 189.927†	507.4	469.5	0.0708	mg/L	0.0708	mg/L	23:50:16
1	Sr 407.771†	107574.4	107238.2	0.0911	mg/L	0.0911	mg/L	23:49:52
1	Ti 337.279†	1487600.4	1487645.6	1.528	mg/L	1.528	mg/L	23:50:03
1	Tl 190.801†	-8.1	-0.9	-0.0289	mg/L	-0.0289	mg/L	23:50:16
1	V 292.402†	24718.2	25599.3	0.0993	mg/L	0.0993	mg/L	23:50:06
1	Zn 213.857†	105071.4	104113.5	0.6358	mg/L	0.6358	mg/L	23:50:06
2	Y 371.029	3344534.1	3344534.1	0.989	mg/L			23:50:19
2	Ag 328.068†	501.6	-229.7	0.0009	mg/L	0.0009	mg/L	23:50:21
2	Al 237.313†	302393.6	306093.2	28.07	mg/L	28.07	mg/L	23:50:19
2	As 188.979†	39.6	39.0	0.0263	mg/L	0.0263	mg/L	23:50:31
2	B 249.677†	-17.0	-2.0	0.0017	mg/L	0.0017	mg/L	23:49:59
2	B 182.528†	12.9	20.0	0.0203	mg/L	0.0203	mg/L	23:50:31
2	Ba 233.527†	49840.3	50474.0	0.3832	mg/L	0.3832	mg/L	23:50:21
2	Be 313.107†	3560.0	5031.7	0.0016	mg/L	0.0016	mg/L	23:50:21
2	Ca 315.887†	2055063.2	2078290.2	18.61	mg/L	18.61	mg/L	23:50:19
2	Cd 228.802†	223.8	78.8	0.0027	mg/L	0.0027	mg/L	23:50:31
2	Co 228.616†	1524.0	1718.6	0.0221	mg/L	0.0221	mg/L	23:50:31
2	Cr 267.716†	8579.9	7963.1	0.0611	mg/L	0.0611	mg/L	23:50:21
2	Cu 324.752†	248264.7	247027.3	1.058	mg/L	1.058	mg/L	23:50:19
2	Fe 234.349†	110240.9	111450.0	55.16	mg/L	55.16	mg/L	23:49:56
2	K 766.490†	10569.4	9940.1	4.388	mg/L	4.388	mg/L	23:49:59
2	Li 670.784†	1811.9	2104.3	0.0513	mg/L	0.0513	mg/L	23:49:59
2	Mg 279.077†	201900.4	203823.9	13.23	mg/L	13.23	mg/L	23:50:21
2	Mn 257.610†	726991.8	718900.3	0.7608	mg/L	0.7608	mg/L	23:50:19
2	Mn 294.920†	374106.8	378845.0	0.8079	mg/L	0.8079	mg/L	23:50:21
2	Mo 202.031†	169.0	181.3	-0.0046	mg/L	-0.0046	mg/L	23:50:31
2	Na 589.592†	9254.4	5129.2	0.7744	mg/L	0.7744	mg/L	23:49:59
2	Ni 231.604†	3063.2	2919.6	0.0538	mg/L	0.0538	mg/L	23:50:31
2	P 214.914†	3812.5	3900.3	2.083	mg/L	2.083	mg/L	23:50:31
2	Pb 220.353†	11409.9	11351.7	0.6582	mg/L	0.6582	mg/L	23:50:21
2	Sb 206.836†	62.6	18.4	-0.0120	mg/L	-0.0120	mg/L	23:50:31
2	Se 196.026†	4.1	-12.7	0.0007	mg/L	0.0007	mg/L	23:50:31
2	Sn 189.927†	514.4	482.6	0.0724	mg/L	0.0724	mg/L	23:50:31
2	Sr 407.771†	105937.3	106852.0	0.0907	mg/L	0.0907	mg/L	23:49:56
2	Ti 337.279†	1470190.9	1487591.7	1.528	mg/L	1.528	mg/L	23:50:19
2	Tl 190.801†	4.1	11.2	-0.0196	mg/L	-0.0196	mg/L	23:50:31
2	V 292.402†	25370.4	26550.1	0.1030	mg/L	0.1030	mg/L	23:50:21
2	Zn 213.857†	107641.3	107950.9	0.6594	mg/L	0.6594	mg/L	23:50:21

Mean Data: CF32408-SD2 @5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3364275.2	0.995	mg/L	0.0083				0.83%
Ag 328.068†	-167.9	0.0012	mg/L	0.00042	0.0012	mg/L	0.00042	33.95%
Al 237.313†	306278.3	28.09	mg/L	0.024	28.09	mg/L	0.024	0.09%
As 188.979†	36.7	0.0249	mg/L	0.00199	0.0249	mg/L	0.00199	7.98%
B 249.677†	-8.3	-0.0009	mg/L	0.00364	-0.0009	mg/L	0.00364	418.23%
B 182.528†	18.4	0.0190	mg/L	0.00185	0.0190	mg/L	0.00185	9.72%
Ba 233.527†	49513.1	0.3760	mg/L	0.01030	0.3760	mg/L	0.01030	2.74%
Be 313.107†	4984.2	0.0016	mg/L	0.00002	0.0016	mg/L	0.00002	1.48%
Ca 315.887†	2082266.3	18.65	mg/L	0.050	18.65	mg/L	0.050	0.27%
Cd 228.802†	72.6	0.0025	mg/L	0.00024	0.0025	mg/L	0.00024	9.44%
Co 228.616†	1699.6	0.0217	mg/L	0.00043	0.0217	mg/L	0.00043	1.97%
Cr 267.716†	7852.0	0.0602	mg/L	0.00119	0.0602	mg/L	0.00119	1.98%
Cu 324.752†	246900.7	1.058	mg/L	0.0008	1.058	mg/L	0.0008	0.07%
Fe 234.349†	111733.5	55.30	mg/L	0.198	55.30	mg/L	0.198	0.36%
K 766.490†	9854.5	4.352	mg/L	0.0517	4.352	mg/L	0.0517	1.19%
Li 670.784†	2076.1	0.0506	mg/L	0.00094	0.0506	mg/L	0.00094	1.85%
Mg 279.077†	199737.9	12.97	mg/L	0.375	12.97	mg/L	0.375	2.89%
Mn 257.610†	719094.5	0.7610	mg/L	0.00025	0.7610	mg/L	0.00025	0.03%
Mn 294.920†	371468.8	0.7922	mg/L	0.02225	0.7922	mg/L	0.02225	2.81%
Mo 202.031†	180.9	-0.0047	mg/L	0.00005	-0.0047	mg/L	0.00005	0.98%
Na 589.592†	5106.3	0.7713	mg/L	0.00435	0.7713	mg/L	0.00435	0.56%
Ni 231.604†	2895.6	0.0534	mg/L	0.00063	0.0534	mg/L	0.00063	1.18%
P 214.914†	3893.3	2.079	mg/L	0.0053	2.079	mg/L	0.0053	0.25%
Pb 220.353†	11146.2	0.6462	mg/L	0.01701	0.6462	mg/L	0.01701	2.63%
Sb 206.836†	25.7	-0.0091	mg/L	0.00410	-0.0091	mg/L	0.00410	45.14%
Se 196.026†	-16.0	-0.0012	mg/L	0.00258	-0.0012	mg/L	0.00258	220.34%
Sn 189.927†	476.0	0.0716	mg/L	0.00111	0.0716	mg/L	0.00111	1.55%
Sr 407.771†	107045.1	0.0909	mg/L	0.00023	0.0909	mg/L	0.00023	0.25%
Ti 337.279†	1487618.7	1.528	mg/L	0.0000	1.528	mg/L	0.0000	0.00%
Tl 190.801†	5.2	-0.0242	mg/L	0.00657	-0.0242	mg/L	0.00657	27.15%

V 292.402†	26074.7	0.1012 mg/L	0.00262	0.1012 mg/L	0.00262	2.59%
Zn 213.857†	106032.2	0.6476 mg/L	0.01667	0.6476 mg/L	0.01667	2.57%

Sequence No.: 126	Autosampler Location: 87
Sample ID: CF32408-PDS2	Date Collected: 6/25/2013 11:52:06 PM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:57:35 AM
Logged In Analyst (Original) : ICP3	Initial Sample Vol:
Initial Sample Wt:	Sample Prep Vol:
Dilution:	

Replicate Data: CF32408-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3379182.5	3379182.5	0.999	mg/L			23:54:03
1	Ag 328.068†	46982.3	46273.1	0.2296	mg/L	0.2296	mg/L	23:54:03
1	Al 237.313†	1497447.1	1498713.8	137.4	mg/L	137.4	mg/L	23:54:03
1	As 188.979†	901.6	901.1	0.5523	mg/L	0.5523	mg/L	23:54:13
1	B 249.677†	1065.8	1081.6	0.4447	mg/L	0.4447	mg/L	23:53:49
1	B 182.528†	568.1	575.4	0.4766	mg/L	0.4766	mg/L	23:54:13
1	Ba 233.527†	288924.4	289181.7	2.193	mg/L	2.193	mg/L	23:54:03
1	Be 313.107†	148919.8	150440.0	0.0515	mg/L	0.0515	mg/L	23:54:03
1	Ca 315.887†	10169192.3	10175881.4	91.09	mg/L	91.09	mg/L	23:53:59
1	Cd 228.802†	8907.0	8764.8	0.2315	mg/L	0.2315	mg/L	23:54:13
1	Co 228.616†	34674.7	34873.0	0.5378	mg/L	0.5378	mg/L	23:54:03
1	Cr 267.716†	96460.3	95806.1	0.7296	mg/L	0.7296	mg/L	23:54:03
1	Cu 324.752†	1294786.9	1291590.5	5.527	mg/L	5.527	mg/L	23:54:03
1	Fe 234.349†	530738.7	531052.0	262.8	mg/L	262.8	mg/L	23:53:47
1	K 766.490†	102351.9	101666.9	43.56	mg/L	43.56	mg/L	23:53:47
1	Li 670.784†	29510.8	29800.7	0.7017	mg/L	0.7017	mg/L	23:53:49
1	Mg 279.077†	987990.3	988282.5	64.18	mg/L	64.18	mg/L	23:54:03
1	Mn 257.610†	3711558.7	3697683.8	3.918	mg/L	3.918	mg/L	23:54:03
1	Mn 294.920†	1911512.1	1913275.1	4.081	mg/L	4.081	mg/L	23:54:03
1	Mo 202.031†	12250.6	12268.2	0.3932	mg/L	0.3932	mg/L	23:54:03
1	Na 589.592†	207438.4	203333.7	27.33	mg/L	27.33	mg/L	23:53:47
1	Ni 231.604†	36601.0	36445.3	0.6783	mg/L	0.6783	mg/L	23:54:03
1	P 214.914†	26474.2	26535.8	13.90	mg/L	13.90	mg/L	23:54:03
1	Pb 220.353†	58337.6	58188.7	3.369	mg/L	3.369	mg/L	23:54:03
1	Sb 206.836†	1258.3	1214.2	0.3878	mg/L	0.3878	mg/L	23:54:13
1	Se 196.026†	1491.0	1475.1	0.8365	mg/L	0.8365	mg/L	23:54:13
1	Sn 189.927†	6563.2	6529.6	0.8598	mg/L	0.8598	mg/L	23:54:13
1	Sr 407.771†	566355.2	566442.1	0.4798	mg/L	0.4798	mg/L	23:53:47
1	Ti 337.279†	7401194.4	7406838.1	7.595	mg/L	7.595	mg/L	23:53:59
1	Tl 190.801†	577.0	584.4	0.3062	mg/L	0.3062	mg/L	23:54:13
1	V 292.402†	237786.9	238828.4	0.9283	mg/L	0.9283	mg/L	23:54:03
1	Zn 213.857†	562031.8	561492.4	3.426	mg/L	3.426	mg/L	23:54:03
2	Y 371.029	3400838.6	3400838.6	1.01	mg/L			23:54:20
2	Ag 328.068†	47278.2	46267.9	0.2295	mg/L	0.2295	mg/L	23:54:20
2	Al 237.313†	1506624.9	1498297.4	137.4	mg/L	137.4	mg/L	23:54:20
2	As 188.979†	893.7	887.5	0.5440	mg/L	0.5440	mg/L	23:54:30
2	B 249.677†	1057.4	1066.5	0.4385	mg/L	0.4385	mg/L	23:53:53
2	B 182.528†	581.9	585.5	0.4849	mg/L	0.4849	mg/L	23:54:30
2	Ba 233.527†	290687.1	289093.4	2.192	mg/L	2.192	mg/L	23:54:20
2	Be 313.107†	149772.8	150339.2	0.0514	mg/L	0.0514	mg/L	23:54:20
2	Ca 315.887†	10212636.9	10154280.6	90.90	mg/L	90.90	mg/L	23:54:16
2	Cd 228.802†	8941.5	8742.3	0.2309	mg/L	0.2309	mg/L	23:54:30
2	Co 228.616†	34901.3	34877.4	0.5379	mg/L	0.5379	mg/L	23:54:20
2	Cr 267.716†	97012.7	95740.7	0.7291	mg/L	0.7291	mg/L	23:54:20
2	Cu 324.752†	1301774.0	1290287.3	5.522	mg/L	5.522	mg/L	23:54:20
2	Fe 234.349†	530917.7	527848.3	261.2	mg/L	261.2	mg/L	23:53:51
2	K 766.490†	102561.3	101223.0	43.37	mg/L	43.37	mg/L	23:53:51
2	Li 670.784†	29668.9	29769.9	0.7010	mg/L	0.7010	mg/L	23:53:53
2	Mg 279.077†	994599.4	988558.4	64.20	mg/L	64.20	mg/L	23:54:20
2	Mn 257.610†	3733976.1	3696322.9	3.917	mg/L	3.917	mg/L	23:54:20
2	Mn 294.920†	1923013.5	1912530.5	4.079	mg/L	4.079	mg/L	23:54:20
2	Mo 202.031†	12272.5	12211.9	0.3914	mg/L	0.3914	mg/L	23:54:20
2	Na 589.592†	207543.0	202116.0	27.17	mg/L	27.17	mg/L	23:53:51
2	Ni 231.604†	36826.2	36436.0	0.6782	mg/L	0.6782	mg/L	23:54:20
2	P 214.914†	26533.8	26426.4	13.85	mg/L	13.85	mg/L	23:54:20
2	Pb 220.353†	58557.5	58035.7	3.360	mg/L	3.360	mg/L	23:54:20
2	Sb 206.836†	1254.2	1202.2	0.3836	mg/L	0.3836	mg/L	23:54:30
2	Se 196.026†	1507.8	1482.3	0.8403	mg/L	0.8403	mg/L	23:54:30

2	Sn 189.927†	6555.8	6480.4	0.8536 mg/L	0.8536 mg/L	23:54:30
2	Sr 407.771†	567235.0	563708.3	0.4775 mg/L	0.4775 mg/L	23:53:51
2	Ti 337.279†	7423929.0	7382283.7	7.570 mg/L	7.570 mg/L	23:54:16
2	Tl 190.801†	559.3	563.2	0.2909 mg/L	0.2909 mg/L	23:54:30
2	V 292.402†	239090.0	238608.8	0.9274 mg/L	0.9274 mg/L	23:54:20
2	Zn 213.857†	565662.2	561520.7	3.426 mg/L	3.426 mg/L	23:54:20

Mean Data: CF32408-PDS2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3390010.6	1.00 mg/L	0.005			0.45%
Ag 328.068†	46270.5	0.2295 mg/L	0.00005	0.2295 mg/L	0.00005	0.02%
Al 237.313†	1498505.6	137.4 mg/L	0.03	137.4 mg/L	0.03	0.02%
As 188.979†	894.3	0.5482 mg/L	0.00590	0.5482 mg/L	0.00590	1.08%
B 249.677†	1074.1	0.4416 mg/L	0.00436	0.4416 mg/L	0.00436	0.99%
B 182.528†	580.5	0.4808 mg/L	0.00586	0.4808 mg/L	0.00586	1.22%
Ba 233.527†	289137.6	2.193 mg/L	0.0005	2.193 mg/L	0.0005	0.02%
Be 313.107†	150389.6	0.0514 mg/L	0.00002	0.0514 mg/L	0.00002	0.04%
Ca 315.887†	10165081.0	90.99 mg/L	0.137	90.99 mg/L	0.137	0.15%
Cd 228.802†	8753.6	0.2312 mg/L	0.00041	0.2312 mg/L	0.00041	0.18%
Co 228.616†	34875.2	0.5378 mg/L	0.00009	0.5378 mg/L	0.00009	0.02%
Cr 267.716†	95773.4	0.7294 mg/L	0.00035	0.7294 mg/L	0.00035	0.05%
Cu 324.752†	1290938.9	5.524 mg/L	0.0040	5.524 mg/L	0.0040	0.07%
Fe 234.349†	529450.1	262.0 mg/L	1.12	262.0 mg/L	1.12	0.43%
K 766.490†	101444.9	43.46 mg/L	0.134	43.46 mg/L	0.134	0.31%
Li 670.784†	29785.3	0.7013 mg/L	0.00051	0.7013 mg/L	0.00051	0.07%
Mg 279.077†	988420.5	64.19 mg/L	0.013	64.19 mg/L	0.013	0.02%
Mn 257.610†	3697003.4	3.918 mg/L	0.0008	3.918 mg/L	0.0008	0.02%
Mn 294.920†	1912902.8	4.080 mg/L	0.0011	4.080 mg/L	0.0011	0.03%
Mo 202.031†	12240.1	0.3923 mg/L	0.00130	0.3923 mg/L	0.00130	0.33%
Na 589.592†	202724.8	27.25 mg/L	0.115	27.25 mg/L	0.115	0.42%
Ni 231.604†	36440.7	0.6782 mg/L	0.00013	0.6782 mg/L	0.00013	0.02%
P 214.914†	26481.1	13.87 mg/L	0.041	13.87 mg/L	0.041	0.29%
Pb 220.353†	58112.2	3.365 mg/L	0.0063	3.365 mg/L	0.0063	0.19%
Sb 206.836†	1208.2	0.3857 mg/L	0.00302	0.3857 mg/L	0.00302	0.78%
Se 196.026†	1478.7	0.8384 mg/L	0.00275	0.8384 mg/L	0.00275	0.33%
Sn 189.927†	6505.0	0.8567 mg/L	0.00435	0.8567 mg/L	0.00435	0.51%
Sr 407.771†	565075.2	0.4786 mg/L	0.00164	0.4786 mg/L	0.00164	0.34%
Ti 337.279†	7394560.9	7.582 mg/L	0.0178	7.582 mg/L	0.0178	0.23%
Tl 190.801†	573.8	0.2985 mg/L	0.01083	0.2985 mg/L	0.01083	3.63%
V 292.402†	238718.6	0.9279 mg/L	0.00059	0.9279 mg/L	0.00059	0.06%
Zn 213.857†	561506.6	3.426 mg/L	0.0002	3.426 mg/L	0.0002	0.01%

Sequence No.: 127

Sample ID: CF32515-BLK1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 6/25/2013 11:57:40 PM

Data Type: Reprocessed on 6/26/2013 10:57:35 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32515-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3375276.4	3375276.4	0.998 mg/L		23:59:46
1	Ag 328.068†	777.5	42.0	0.0009 mg/L	0.0009 mg/L	23:59:49
1	Al 237.313†	-383.2	3.6	0.0074 mg/L	0.0074 mg/L	23:59:49
1	As 188.979†	4.4	3.4	0.0047 mg/L	0.0047 mg/L	23:59:59
1	B 249.677†	-1.6	13.6	0.0081 mg/L	0.0081 mg/L	23:59:30
1	B 182.528†	1.4	8.3	0.0107 mg/L	0.0107 mg/L	23:59:59
1	Ba 233.527†	1.8	89.6	0.0013 mg/L	0.0013 mg/L	23:59:59
1	Be 313.107†	-1223.7	207.0	0.0003 mg/L	0.0003 mg/L	23:59:49
1	Ca 315.887†	3602.8	4327.0	0.0470 mg/L	0.0470 mg/L	23:59:49
1	Cd 228.802†	137.7	-9.5	0.0012 mg/L	0.0012 mg/L	23:59:59
1	Co 228.616†	-156.9	20.8	-0.0017 mg/L	-0.0017 mg/L	23:59:59
1	Cr 267.716†	499.5	-210.4	-0.0011 mg/L	-0.0011 mg/L	23:59:49
1	Cu 324.752†	4699.6	751.1	0.0045 mg/L	0.0045 mg/L	23:59:49
1	Fe 234.349†	45.0	46.8	0.0337 mg/L	0.0337 mg/L	23:59:30
1	K 766.490†	573.7	-170.3	0.0707 mg/L	0.0707 mg/L	23:59:20
1	Li 670.784†	-248.4	23.8	0.0025 mg/L	0.0025 mg/L	23:59:20
1	Mg 279.077†	377.5	90.3	0.0039 mg/L	0.0039 mg/L	23:59:49

1	Mn 257.610†	17539.6	1516.0	0.0016	mg/L	0.0016	mg/L	23:59:49
1	Mn 294.920†	298.7	939.8	0.0018	mg/L	0.0018	mg/L	23:59:49
1	Mo 202.031†	-14.6	-4.2	0.0026	mg/L	0.0026	mg/L	23:59:59
1	Na 589.592†	2333.0	-1889.4	-0.1660	mg/L	-0.1660	mg/L	23:59:20
1	Ni 231.604†	166.5	-10.3	-0.0007	mg/L	-0.0007	mg/L	23:59:49
1	P 214.914†	548.2	595.2	0.3605	mg/L	0.3605	mg/L	23:59:59
1	Pb 220.353†	163.4	-19.4	0.0008	mg/L	0.0008	mg/L	23:59:59
1	Sb 206.836†	28.1	-16.7	-0.0024	mg/L	-0.0024	mg/L	23:59:59
1	Se 196.026†	17.4	0.6	0.0047	mg/L	0.0047	mg/L	23:59:59
1	Sn 189.927†	46.4	9.0	0.0027	mg/L	0.0027	mg/L	23:59:59
1	Sr 407.771†	257.7	12.5	0.0003	mg/L	0.0003	mg/L	23:59:20
1	Ti 337.279†	-1110.0	186.0	0.0030	mg/L	0.0030	mg/L	23:59:49
1	Tl 190.801†	-2.7	4.4	0.0029	mg/L	0.0029	mg/L	23:59:59
1	V 292.402†	-844.9	55.5	0.0025	mg/L	0.0025	mg/L	23:59:49
1	Zn 213.857†	1322.2	455.1	0.0033	mg/L	0.0033	mg/L	23:59:59
2	Y 371.029	3383248.4	3383248.4	1.00	mg/L			00:00:01
2	Ag 328.068†	691.9	-45.3	0.0004	mg/L	0.0004	mg/L	00:00:03
2	Al 237.313†	-371.8	15.9	0.0085	mg/L	0.0085	mg/L	00:00:03
2	As 188.979†	1.6	0.6	0.0030	mg/L	0.0030	mg/L	00:00:14
2	B 249.677†	-8.5	6.7	0.0052	mg/L	0.0052	mg/L	23:59:43
2	B 182.528†	-2.4	4.5	0.0076	mg/L	0.0076	mg/L	00:00:14
2	Ba 233.527†	-16.0	71.8	0.0011	mg/L	0.0011	mg/L	00:00:14
2	Be 313.107†	-1254.5	179.1	0.0003	mg/L	0.0003	mg/L	00:00:03
2	Ca 315.887†	3636.8	4352.5	0.0472	mg/L	0.0472	mg/L	00:00:03
2	Cd 228.802†	156.8	9.3	0.0017	mg/L	0.0017	mg/L	00:00:14
2	Co 228.616†	-177.9	0.2	-0.0021	mg/L	-0.0021	mg/L	00:00:14
2	Cr 267.716†	568.2	-142.9	-0.0006	mg/L	-0.0006	mg/L	00:00:03
2	Cu 324.752†	4653.7	694.1	0.0043	mg/L	0.0043	mg/L	00:00:03
2	Fe 234.349†	43.9	45.6	0.0331	mg/L	0.0331	mg/L	23:59:43
2	K 766.490†	560.7	-184.7	0.0645	mg/L	0.0645	mg/L	23:59:33
2	Li 670.784†	-242.8	29.9	0.0026	mg/L	0.0026	mg/L	23:59:33
2	Mg 279.077†	404.9	116.8	0.0056	mg/L	0.0056	mg/L	00:00:03
2	Mn 257.610†	17586.4	1521.3	0.0016	mg/L	0.0016	mg/L	00:00:03
2	Mn 294.920†	116.7	757.2	0.0014	mg/L	0.0014	mg/L	00:00:03
2	Mo 202.031†	-17.3	-6.9	0.0025	mg/L	0.0025	mg/L	00:00:14
2	Na 589.592†	2271.6	-1956.3	-0.1750	mg/L	-0.1750	mg/L	23:59:33
2	Ni 231.604†	184.4	7.1	-0.0004	mg/L	-0.0004	mg/L	00:00:03
2	P 214.914†	549.2	594.9	0.3604	mg/L	0.3604	mg/L	00:00:14
2	Pb 220.353†	176.9	-6.4	0.0016	mg/L	0.0016	mg/L	00:00:14
2	Sb 206.836†	33.2	-11.7	-0.0004	mg/L	-0.0004	mg/L	00:00:14
2	Se 196.026†	10.6	-6.3	0.0009	mg/L	0.0009	mg/L	00:00:14
2	Sn 189.927†	34.6	-2.9	0.0012	mg/L	0.0012	mg/L	00:00:14
2	Sr 407.771†	245.2	-0.5	0.0003	mg/L	0.0003	mg/L	23:59:33
2	Ti 337.279†	-1452.4	-153.6	0.0026	mg/L	0.0026	mg/L	00:00:03
2	Tl 190.801†	-0.7	6.4	0.0045	mg/L	0.0045	mg/L	00:00:14
2	V 292.402†	-945.3	-42.9	0.0022	mg/L	0.0022	mg/L	00:00:03
2	Zn 213.857†	1308.6	438.4	0.0032	mg/L	0.0032	mg/L	00:00:14

Mean Data: CF32515-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3379262.4	0.999	mg/L	0.0017				0.17%
Ag 328.068†	-1.7	0.0006	mg/L	0.00030	0.0006	mg/L	0.00030	46.09%
Al 237.313†	9.7	0.0080	mg/L	0.00080	0.0080	mg/L	0.00080	9.98%
As 188.979†	2.0	0.0038	mg/L	0.00120	0.0038	mg/L	0.00120	31.16%
B 249.677†	10.1	0.0066	mg/L	0.00199	0.0066	mg/L	0.00199	29.86%
B 182.528†	6.4	0.0092	mg/L	0.00221	0.0092	mg/L	0.00221	24.17%
Ba 233.527†	80.7	0.0012	mg/L	0.00010	0.0012	mg/L	0.00010	7.90%
Be 313.107†	193.0	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.43%
Ca 315.887†	4339.7	0.0471	mg/L	0.00016	0.0471	mg/L	0.00016	0.34%
Cd 228.802†	-0.1	0.0015	mg/L	0.00035	0.0015	mg/L	0.00035	23.69%
Co 228.616†	10.5	-0.0019	mg/L	0.00023	-0.0019	mg/L	0.00023	12.12%
Cr 267.716†	-176.7	-0.0008	mg/L	0.00036	-0.0008	mg/L	0.00036	43.40%
Cu 324.752†	722.6	0.0044	mg/L	0.00017	0.0044	mg/L	0.00017	3.91%
Fe 234.349†	46.2	0.0334	mg/L	0.00041	0.0334	mg/L	0.00041	1.24%
K 766.490†	-177.5	0.0676	mg/L	0.00435	0.0676	mg/L	0.00435	6.43%
Li 670.784†	26.9	0.0025	mg/L	0.00010	0.0025	mg/L	0.00010	4.03%
Mg 279.077†	103.6	0.0047	mg/L	0.00121	0.0047	mg/L	0.00121	25.69%
Mn 257.610†	1518.7	0.0016	mg/L	0.00000	0.0016	mg/L	0.00000	0.26%
Mn 294.920†	848.5	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028	16.82%
Mo 202.031†	-5.6	0.0025	mg/L	0.00007	0.0025	mg/L	0.00007	2.77%
Na 589.592†	-1922.9	-0.1705	mg/L	0.00634	-0.1705	mg/L	0.00634	3.72%

Ni 231.604†	-1.6	-0.0006 mg/L	0.00023	-0.0006 mg/L	0.00023	41.41%
P 214.914†	595.1	0.3605 mg/L	0.00010	0.3605 mg/L	0.00010	0.03%
Pb 220.353†	-12.9	0.0012 mg/L	0.00054	0.0012 mg/L	0.00054	46.03%
Sb 206.836†	-14.2	-0.0014 mg/L	0.00144	-0.0014 mg/L	0.00144	100.56%
Se 196.026†	-2.9	0.0028 mg/L	0.00269	0.0028 mg/L	0.00269	94.41%
Sn 189.927†	3.1	0.0020 mg/L	0.00103	0.0020 mg/L	0.00103	52.26%
Sr 407.771†	6.0	0.0003 mg/L	0.00001	0.0003 mg/L	0.00001	2.57%
Ti 337.279†	16.2	0.0028 mg/L	0.00025	0.0028 mg/L	0.00025	8.79%
Tl 190.801†	5.4	0.0037 mg/L	0.00108	0.0037 mg/L	0.00108	29.15%
V 292.402†	6.3	0.0024 mg/L	0.00027	0.0024 mg/L	0.00027	11.50%
Zn 213.857†	446.8	0.0032 mg/L	0.00007	0.0032 mg/L	0.00007	2.29%

Sequence No.: 128
Sample ID: CF32515-BS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 89
Date Collected: 6/26/2013 12:01:50 AM
Data Type: Reprocessed on 6/26/2013 10:57:36 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3279922.6	3279922.6	0.970 mg/L		00:03:40
1	Ag 328.068†	50869.5	51703.0	0.2490 mg/L	0.2490 mg/L	00:03:40
1	Al 237.313†	25824.7	27009.3	2.485 mg/L	2.485 mg/L	00:03:50
1	As 188.979†	766.3	788.9	0.4844 mg/L	0.4844 mg/L	00:03:50
1	B 249.677†	1124.5	1174.4	0.4826 mg/L	0.4826 mg/L	00:03:31
1	B 182.528†	589.2	614.4	0.5087 mg/L	0.5087 mg/L	00:03:50
1	Ba 233.527†	64901.5	66992.6	0.5085 mg/L	0.5085 mg/L	00:03:40
1	Be 313.107†	141811.7	147621.9	0.0521 mg/L	0.0521 mg/L	00:03:40
1	Ca 315.887†	546137.0	563713.1	5.055 mg/L	5.055 mg/L	00:03:40
1	Cd 228.802†	9492.9	9638.5	0.2593 mg/L	0.2593 mg/L	00:03:50
1	Co 228.616†	31048.3	32184.7	0.5101 mg/L	0.5101 mg/L	00:03:50
1	Cr 267.716†	65456.6	66766.3	0.5088 mg/L	0.5088 mg/L	00:03:40
1	Cu 324.752†	119349.8	119077.2	0.5103 mg/L	0.5103 mg/L	00:03:40
1	Fe 234.349†	4732.0	4879.7	2.411 mg/L	2.411 mg/L	00:03:31
1	K 766.490†	56220.1	57210.4	24.57 mg/L	24.57 mg/L	00:03:28
1	Li 670.784†	20261.5	21159.5	0.4988 mg/L	0.4988 mg/L	00:03:31
1	Mg 279.077†	74738.3	76757.4	4.983 mg/L	4.983 mg/L	00:03:40
1	Mn 257.610†	480806.0	479593.2	0.5153 mg/L	0.5153 mg/L	00:03:40
1	Mn 294.920†	231222.9	239000.8	0.5096 mg/L	0.5096 mg/L	00:03:40
1	Mo 202.031†	12814.6	13220.6	0.4962 mg/L	0.4962 mg/L	00:03:50
1	Na 589.592†	179706.7	181027.4	24.34 mg/L	24.34 mg/L	00:03:28
1	Ni 231.604†	26996.8	27653.0	0.5148 mg/L	0.5148 mg/L	00:03:40
1	P 214.914†	10706.1	11082.6	5.851 mg/L	5.851 mg/L	00:03:50
1	Pb 220.353†	8675.4	8760.1	0.5153 mg/L	0.5153 mg/L	00:03:50
1	Sb 206.836†	1229.8	1222.9	0.5043 mg/L	0.5043 mg/L	00:03:50
1	Se 196.026†	1749.8	1786.9	0.9937 mg/L	0.9937 mg/L	00:03:50
1	Sn 189.927†	4060.4	4148.2	0.5141 mg/L	0.5141 mg/L	00:03:50
1	Sr 407.771†	53437.4	54841.3	0.0467 mg/L	0.0467 mg/L	00:03:28
1	Ti 337.279†	481024.0	497170.0	0.5124 mg/L	0.5124 mg/L	00:03:40
1	Tl 190.801†	645.6	672.6	0.5028 mg/L	0.5028 mg/L	00:03:50
1	V 292.402†	125073.4	129836.0	0.5177 mg/L	0.5177 mg/L	00:03:40
1	Zn 213.857†	83611.7	85323.2	0.5203 mg/L	0.5203 mg/L	00:03:40
2	Y 371.029	3347808.2	3347808.2	0.990 mg/L		00:03:54
2	Ag 328.068†	49927.4	49688.1	0.2393 mg/L	0.2393 mg/L	00:03:54
2	Al 237.313†	25740.2	26384.1	2.428 mg/L	2.428 mg/L	00:04:04
2	As 188.979†	764.7	771.3	0.4737 mg/L	0.4737 mg/L	00:04:04
2	B 249.677†	1138.0	1164.5	0.4785 mg/L	0.4785 mg/L	00:03:35
2	B 182.528†	589.1	602.0	0.4985 mg/L	0.4985 mg/L	00:04:04
2	Ba 233.527†	63582.5	64303.8	0.4881 mg/L	0.4881 mg/L	00:03:54
2	Be 313.107†	139061.6	141880.0	0.0501 mg/L	0.0501 mg/L	00:03:54
2	Ca 315.887†	535170.0	541220.6	4.854 mg/L	4.854 mg/L	00:03:54
2	Cd 228.802†	9487.5	9434.6	0.2538 mg/L	0.2538 mg/L	00:04:04
2	Co 228.616†	30957.4	31443.8	0.4984 mg/L	0.4984 mg/L	00:04:04
2	Cr 267.716†	64264.0	64193.5	0.4892 mg/L	0.4892 mg/L	00:03:54
2	Cu 324.752†	117258.3	114470.0	0.4906 mg/L	0.4906 mg/L	00:03:54
2	Fe 234.349†	4745.2	4794.2	2.369 mg/L	2.369 mg/L	00:03:35
2	K 766.490†	56076.7	55890.4	24.01 mg/L	24.01 mg/L	00:03:33
2	Li 670.784†	20126.9	20600.1	0.4856 mg/L	0.4856 mg/L	00:03:35
2	Mg 279.077†	73260.0	73702.2	4.785 mg/L	4.785 mg/L	00:03:54

2	Mn 257.610†	471475.5	460119.2	0.4944 mg/L	0.4944 mg/L	00:03:54
2	Mn 294.920†	226455.9	229353.0	0.4890 mg/L	0.4890 mg/L	00:03:54
2	Mo 202.031†	12771.7	12909.4	0.4846 mg/L	0.4846 mg/L	00:04:04
2	Na 589.592†	178928.9	176485.4	23.73 mg/L	23.73 mg/L	00:03:33
2	Ni 231.604†	26391.0	26476.8	0.4929 mg/L	0.4929 mg/L	00:03:54
2	P 214.914†	10665.5	10817.8	5.713 mg/L	5.713 mg/L	00:04:04
2	Pb 220.353†	8623.9	8526.7	0.5016 mg/L	0.5016 mg/L	00:04:04
2	Sb 206.836†	1231.0	1198.5	0.4944 mg/L	0.4944 mg/L	00:04:04
2	Se 196.026†	1749.7	1750.3	0.9734 mg/L	0.9734 mg/L	00:04:04
2	Sn 189.927†	4018.6	4021.1	0.4984 mg/L	0.4984 mg/L	00:04:04
2	Sr 407.771†	53427.2	53713.9	0.0458 mg/L	0.0458 mg/L	00:03:33
2	Ti 337.279†	471318.7	477312.9	0.4920 mg/L	0.4920 mg/L	00:03:54
2	Tl 190.801†	632.3	645.7	0.4827 mg/L	0.4827 mg/L	00:04:04
2	V 292.402†	122376.8	124498.1	0.4966 mg/L	0.4966 mg/L	00:03:54
2	Zn 213.857†	82023.0	81970.8	0.4999 mg/L	0.4999 mg/L	00:03:54

Mean Data: CF32515-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3313865.4	0.980	mg/L	0.0142			1.45%
Ag 328.068†	50695.5	0.2442	mg/L	0.00684	0.2442 mg/L	0.00684	2.80%
Al 237.313†	26696.7	2.456	mg/L	0.0406	2.456 mg/L	0.0406	1.65%
As 188.979†	780.1	0.4790	mg/L	0.00762	0.4790 mg/L	0.00762	1.59%
B 249.677†	1169.5	0.4805	mg/L	0.00287	0.4805 mg/L	0.00287	0.60%
B 182.528†	608.2	0.5036	mg/L	0.00721	0.5036 mg/L	0.00721	1.43%
Ba 233.527†	65648.2	0.4983	mg/L	0.01441	0.4983 mg/L	0.01441	2.89%
Be 313.107†	144751.0	0.0511	mg/L	0.00143	0.0511 mg/L	0.00143	2.79%
Ca 315.887†	552466.8	4.955	mg/L	0.1424	4.955 mg/L	0.1424	2.87%
Cd 228.802†	9536.5	0.2565	mg/L	0.00385	0.2565 mg/L	0.00385	1.50%
Co 228.616†	31814.2	0.5042	mg/L	0.00832	0.5042 mg/L	0.00832	1.65%
Cr 267.716†	65479.9	0.4990	mg/L	0.01384	0.4990 mg/L	0.01384	2.77%
Cu 324.752†	116773.6	0.5004	mg/L	0.01393	0.5004 mg/L	0.01393	2.78%
Fe 234.349†	4836.9	2.390	mg/L	0.0295	2.390 mg/L	0.0295	1.23%
K 766.490†	56550.4	24.29	mg/L	0.399	24.29 mg/L	0.399	1.64%
Li 670.784†	20879.8	0.4922	mg/L	0.00929	0.4922 mg/L	0.00929	1.89%
Mg 279.077†	75229.8	4.884	mg/L	0.1403	4.884 mg/L	0.1403	2.87%
Mn 257.610†	469856.2	0.5048	mg/L	0.01481	0.5048 mg/L	0.01481	2.93%
Mn 294.920†	234176.9	0.4993	mg/L	0.01455	0.4993 mg/L	0.01455	2.91%
Mo 202.031†	13065.0	0.4904	mg/L	0.00818	0.4904 mg/L	0.00818	1.67%
Na 589.592†	178756.4	24.04	mg/L	0.430	24.04 mg/L	0.430	1.79%
Ni 231.604†	27064.9	0.5038	mg/L	0.01549	0.5038 mg/L	0.01549	3.07%
P 214.914†	10950.2	5.782	mg/L	0.0980	5.782 mg/L	0.0980	1.70%
Pb 220.353†	8643.4	0.5085	mg/L	0.00967	0.5085 mg/L	0.00967	1.90%
Sb 206.836†	1210.7	0.4994	mg/L	0.00702	0.4994 mg/L	0.00702	1.41%
Se 196.026†	1768.6	0.9836	mg/L	0.01434	0.9836 mg/L	0.01434	1.46%
Sn 189.927†	4084.7	0.5063	mg/L	0.01113	0.5063 mg/L	0.01113	2.20%
Sr 407.771†	54277.6	0.0462	mg/L	0.00067	0.0462 mg/L	0.00067	1.46%
Ti 337.279†	487241.5	0.5022	mg/L	0.01439	0.5022 mg/L	0.01439	2.87%
Tl 190.801†	659.2	0.4927	mg/L	0.01426	0.4927 mg/L	0.01426	2.89%
V 292.402†	127167.1	0.5072	mg/L	0.01489	0.5072 mg/L	0.01489	2.94%
Zn 213.857†	83647.0	0.5101	mg/L	0.01443	0.5101 mg/L	0.01443	2.83%

Sequence No.: 129

Sample ID: CF32515-BSD1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 90

Date Collected: 6/26/2013 12:05:41 AM

Data Type: Reprocessed on 6/26/2013 10:57:37 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32515-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3224916.0	3224916.0	0.954 mg/L		00:07:31
1	Ag 328.068†	49678.8	51349.0	0.2473 mg/L	0.2473 mg/L	00:07:31
1	Al 237.313†	25502.7	27125.8	2.496 mg/L	2.496 mg/L	00:07:41
1	As 188.979†	757.3	793.0	0.4869 mg/L	0.4869 mg/L	00:07:41
1	B 249.677†	1148.6	1219.4	0.5009 mg/L	0.5009 mg/L	00:07:21
1	B 182.528†	593.7	629.4	0.5210 mg/L	0.5210 mg/L	00:07:41
1	Ba 233.527†	63013.3	66154.1	0.5021 mg/L	0.5021 mg/L	00:07:31
1	Be 313.107†	138086.6	146209.8	0.0517 mg/L	0.0517 mg/L	00:07:31

1	Ca	315.887†	529869.5	556260.2	4.989	mg/L	4.989	mg/L	00:07:31
1	Cd	228.802†	9457.7	9768.5	0.2627	mg/L	0.2627	mg/L	00:07:41
1	Co	228.616†	30764.5	32433.0	0.5141	mg/L	0.5141	mg/L	00:07:41
1	Cr	267.716†	63670.9	66045.0	0.5033	mg/L	0.5033	mg/L	00:07:31
1	Cu	324.752†	116256.2	117932.2	0.5054	mg/L	0.5054	mg/L	00:07:31
1	Fe	234.349†	4718.9	4949.2	2.445	mg/L	2.445	mg/L	00:07:21
1	K	766.490†	55561.0	57507.9	24.70	mg/L	24.70	mg/L	00:07:19
1	Li	670.784†	20160.3	21409.7	0.5046	mg/L	0.5046	mg/L	00:07:21
1	Mg	279.077†	72622.6	75853.4	4.924	mg/L	4.924	mg/L	00:07:31
1	Mn	257.610†	468059.9	474683.7	0.5100	mg/L	0.5100	mg/L	00:07:31
1	Mn	294.920†	224648.4	236173.5	0.5036	mg/L	0.5036	mg/L	00:07:31
1	Mo	202.031†	12683.1	13308.0	0.4995	mg/L	0.4995	mg/L	00:07:41
1	Na	589.592†	178172.8	182579.0	24.55	mg/L	24.55	mg/L	00:07:19
1	Ni	231.604†	26225.9	27319.5	0.5086	mg/L	0.5086	mg/L	00:07:31
1	P	214.914†	10149.8	10687.7	5.644	mg/L	5.644	mg/L	00:07:41
1	Pb	220.353†	8549.6	8780.8	0.5165	mg/L	0.5165	mg/L	00:07:41
1	Sb	206.836†	1219.3	1233.6	0.5088	mg/L	0.5088	mg/L	00:07:41
1	Se	196.026†	1756.9	1825.1	1.015	mg/L	1.015	mg/L	00:07:41
1	Sn	189.927†	4024.8	4182.3	0.5183	mg/L	0.5183	mg/L	00:07:41
1	Sr	407.771†	53195.7	55527.4	0.0473	mg/L	0.0473	mg/L	00:07:19
1	Ti	337.279†	457019.5	480460.5	0.4953	mg/L	0.4953	mg/L	00:07:31
1	Tl	190.801†	629.3	666.9	0.4985	mg/L	0.4985	mg/L	00:07:41
1	V	292.402†	121317.0	128096.8	0.5110	mg/L	0.5110	mg/L	00:07:31
1	Zn	213.857†	81172.5	84236.0	0.5136	mg/L	0.5136	mg/L	00:07:31
2	Y	371.029	3227903.4	3227903.4	0.955	mg/L	0.955	mg/L	00:07:45
2	Ag	328.068†	49962.3	51597.7	0.2485	mg/L	0.2485	mg/L	00:07:45
2	Al	237.313†	25578.9	27180.8	2.501	mg/L	2.501	mg/L	00:07:55
2	As	188.979†	762.3	797.5	0.4897	mg/L	0.4897	mg/L	00:07:55
2	B	249.677†	1145.6	1215.2	0.4992	mg/L	0.4992	mg/L	00:07:26
2	B	182.528†	599.9	635.3	0.5259	mg/L	0.5259	mg/L	00:07:55
2	Ba	233.527†	63646.4	66756.1	0.5067	mg/L	0.5067	mg/L	00:07:45
2	Be	313.107†	139524.9	147582.4	0.0521	mg/L	0.0521	mg/L	00:07:45
2	Ca	315.887†	534646.8	560750.2	5.029	mg/L	5.029	mg/L	00:07:45
2	Cd	228.802†	9442.7	9743.6	0.2621	mg/L	0.2621	mg/L	00:07:55
2	Co	228.616†	30808.7	32449.4	0.5144	mg/L	0.5144	mg/L	00:07:55
2	Cr	267.716†	64175.3	66511.6	0.5068	mg/L	0.5068	mg/L	00:07:45
2	Cu	324.752†	117041.1	118641.6	0.5084	mg/L	0.5084	mg/L	00:07:45
2	Fe	234.349†	4805.7	5035.5	2.488	mg/L	2.488	mg/L	00:07:26
2	K	766.490†	55522.9	57414.1	24.66	mg/L	24.66	mg/L	00:07:24
2	Li	670.784†	20425.4	21667.8	0.5107	mg/L	0.5107	mg/L	00:07:26
2	Mg	279.077†	73424.2	76622.6	4.974	mg/L	4.974	mg/L	00:07:45
2	Mn	257.610†	472043.1	478401.8	0.5140	mg/L	0.5140	mg/L	00:07:45
2	Mn	294.920†	226454.4	237847.2	0.5072	mg/L	0.5072	mg/L	00:07:45
2	Mo	202.031†	12718.1	13332.4	0.5004	mg/L	0.5004	mg/L	00:07:55
2	Na	589.592†	177877.3	182096.6	24.49	mg/L	24.49	mg/L	00:07:24
2	Ni	231.604†	26430.8	27508.6	0.5121	mg/L	0.5121	mg/L	00:07:45
2	P	214.914†	10204.2	10734.8	5.669	mg/L	5.669	mg/L	00:07:55
2	Pb	220.353†	8607.5	8833.1	0.5196	mg/L	0.5196	mg/L	00:07:55
2	Sb	206.836†	1227.2	1240.6	0.5116	mg/L	0.5116	mg/L	00:07:55
2	Se	196.026†	1746.8	1812.9	1.008	mg/L	1.008	mg/L	00:07:55
2	Sn	189.927†	4015.8	4169.0	0.5167	mg/L	0.5167	mg/L	00:07:55
2	Sr	407.771†	53007.3	55278.5	0.0471	mg/L	0.0471	mg/L	00:07:24
2	Ti	337.279†	461072.2	484262.2	0.4992	mg/L	0.4992	mg/L	00:07:45
2	Tl	190.801†	630.4	667.4	0.4989	mg/L	0.4989	mg/L	00:07:55
2	V	292.402†	122346.6	129057.6	0.5147	mg/L	0.5147	mg/L	00:07:45
2	Zn	213.857†	81941.2	84962.4	0.5181	mg/L	0.5181	mg/L	00:07:45

Mean Data: CF32515-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3226409.7	0.954	mg/L	0.0006				0.07%
Ag 328.068†	51473.4	0.2479	mg/L	0.00085	0.2479	mg/L	0.00085	0.34%
Al 237.313†	27153.3	2.498	mg/L	0.0036	2.498	mg/L	0.0036	0.14%
As 188.979†	795.2	0.4883	mg/L	0.00195	0.4883	mg/L	0.00195	0.40%
B 249.677†	1217.3	0.5001	mg/L	0.00121	0.5001	mg/L	0.00121	0.24%
B 182.528†	632.4	0.5235	mg/L	0.00341	0.5235	mg/L	0.00341	0.65%
Ba 233.527†	66455.1	0.5044	mg/L	0.00323	0.5044	mg/L	0.00323	0.64%
Be 313.107†	146896.1	0.0519	mg/L	0.00034	0.0519	mg/L	0.00034	0.66%
Ca 315.887†	558505.2	5.009	mg/L	0.0284	5.009	mg/L	0.0284	0.57%
Cd 228.802†	9756.0	0.2624	mg/L	0.00047	0.2624	mg/L	0.00047	0.18%
Co 228.616†	32441.2	0.5142	mg/L	0.00018	0.5142	mg/L	0.00018	0.03%
Cr 267.716†	66278.3	0.5050	mg/L	0.00251	0.5050	mg/L	0.00251	0.50%

Cu 324.752†	118286.9	0.5069 mg/L	0.00215	0.5069 mg/L	0.00215	0.42%
Fe 234.349†	4992.4	2.467 mg/L	0.0301	2.467 mg/L	0.0301	1.22%
K 766.490†	57461.0	24.68 mg/L	0.028	24.68 mg/L	0.028	0.11%
Li 670.784†	21538.7	0.5077 mg/L	0.00428	0.5077 mg/L	0.00428	0.84%
Mg 279.077†	76238.0	4.949 mg/L	0.0353	4.949 mg/L	0.0353	0.71%
Mn 257.610†	476542.8	0.5120 mg/L	0.00282	0.5120 mg/L	0.00282	0.55%
Mn 294.920†	237010.3	0.5054 mg/L	0.00252	0.5054 mg/L	0.00252	0.50%
Mo 202.031†	13320.2	0.5000 mg/L	0.00063	0.5000 mg/L	0.00063	0.13%
Na 589.592†	182337.8	24.52 mg/L	0.046	24.52 mg/L	0.046	0.19%
Ni 231.604†	27414.1	0.5103 mg/L	0.00249	0.5103 mg/L	0.00249	0.49%
P 214.914†	10711.2	5.656 mg/L	0.0174	5.656 mg/L	0.0174	0.31%
Pb 220.353†	8806.9	0.5180 mg/L	0.00216	0.5180 mg/L	0.00216	0.42%
Sb 206.836†	1237.1	0.5102 mg/L	0.00201	0.5102 mg/L	0.00201	0.39%
Se 196.026†	1819.0	1.011 mg/L	0.0048	1.011 mg/L	0.0048	0.47%
Sn 189.927†	4175.7	0.5175 mg/L	0.00114	0.5175 mg/L	0.00114	0.22%
Sr 407.771†	55403.0	0.0472 mg/L	0.00015	0.0472 mg/L	0.00015	0.32%
Ti 337.279†	482361.3	0.4972 mg/L	0.00276	0.4972 mg/L	0.00276	0.55%
Tl 190.801†	667.1	0.4987 mg/L	0.00025	0.4987 mg/L	0.00025	0.05%
V 292.402†	128577.2	0.5128 mg/L	0.00267	0.5128 mg/L	0.00267	0.52%
Zn 213.857†	84599.2	0.5159 mg/L	0.00313	0.5159 mg/L	0.00313	0.61%

Sequence No.: 130
Sample ID: 1306367-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 6/26/2013 12:09:32 AM
Data Type: Reprocessed on 6/26/2013 10:57:37 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306367-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	2735340.0	2735340.0	0.809	mg/L			00:11:43
1	Ag 328.068†	418.0	-220.1	-0.0003	mg/L	-0.0003	mg/L	00:11:45
1	Al 237.313†	-170.4	176.8	0.0233	mg/L	0.0233	mg/L	00:11:45
1	As 188.979†	14.8	17.3	0.0132	mg/L	0.0132	mg/L	00:11:55
1	B 249.677†	281.9	363.7	0.1510	mg/L	0.1510	mg/L	00:11:23
1	B 182.528†	-1247.3	-1534.8	-1.257	mg/L	-1.257	mg/L	00:11:43
1	Ba 233.527†	9058.9	11285.5	0.0862	mg/L	0.0862	mg/L	00:11:55
1	Be 313.107†	-1828.6	-827.6	-0.0001	mg/L	-0.0001	mg/L	00:11:45
1	Ca 315.887†	17009423.4	21026146.5	188.2	mg/L	188.2	mg/L	00:11:40
1	Cd 228.802†	146.1	33.2	0.0023	mg/L	0.0023	mg/L	00:11:55
1	Co 228.616†	-117.3	33.0	-0.0015	mg/L	-0.0015	mg/L	00:11:55
1	Cr 267.716†	867.4	361.4	0.0033	mg/L	0.0033	mg/L	00:11:45
1	Cu 324.752†	4530.0	1642.8	0.0083	mg/L	0.0083	mg/L	00:11:45
1	Fe 234.349†	3653.5	4517.8	1.938	mg/L	1.938	mg/L	00:11:23
1	K 766.490†	53651.8	65574.1	28.15	mg/L	28.15	mg/L	00:11:13
1	Li 670.784†	1627.0	2283.7	0.0555	mg/L	0.0555	mg/L	00:11:13
1	Mg 279.077†	89439.5	110268.8	7.158	mg/L	7.158	mg/L	00:11:45
1	Mn 257.610†	47766.3	42989.9	0.0457	mg/L	0.0457	mg/L	00:11:45
1	Mn 294.920†	15009.0	19193.2	0.0408	mg/L	0.0408	mg/L	00:11:45
1	Mo 202.031†	343.7	435.3	0.0188	mg/L	0.0188	mg/L	00:11:55
1	Na 589.592†	Saturated2	Saturated2					00:11:23
Saturated in preshot (code 2)								
1	Ni 231.604†	348.6	253.8	0.0042	mg/L	0.0042	mg/L	00:11:55
1	P 214.914†	570.9	751.8	0.4425	mg/L	0.4425	mg/L	00:11:55
1	Pb 220.353†	34.2	-140.9	-0.0063	mg/L	-0.0063	mg/L	00:11:55
1	Sb 206.836†	58.0	26.8	0.0145	mg/L	0.0145	mg/L	00:11:55
1	Se 196.026†	-2.8	-20.4	-0.0067	mg/L	-0.0067	mg/L	00:11:55
1	Sn 189.927†	-644.5	-834.1	0.0155	mg/L	0.0155	mg/L	00:11:55
1	Sr 407.771†	339253.1	419106.7	0.3551	mg/L	0.3551	mg/L	00:11:13
1	Ti 337.279†	-1396.1	-427.8	0.0023	mg/L	0.0023	mg/L	00:11:45
1	Tl 190.801†	23.5	36.2	-0.0030	mg/L	-0.0030	mg/L	00:11:55
1	V 292.402†	293.1	1264.2	0.0075	mg/L	0.0075	mg/L	00:11:45
1	Zn 213.857†	4685.4	4922.2	0.0306	mg/L	0.0306	mg/L	00:11:55
2	Y 371.029	2744075.0	2744075.0	0.812	mg/L			00:12:02
2	Ag 328.068†	615.1	21.1	0.0008	mg/L	0.0008	mg/L	00:12:04
2	Al 237.313†	-167.5	181.1	0.0237	mg/L	0.0237	mg/L	00:12:04
2	As 188.979†	19.9	23.5	0.0170	mg/L	0.0170	mg/L	00:12:14
2	B 249.677†	269.5	347.3	0.1443	mg/L	0.1443	mg/L	00:11:35
2	B 182.528†	-1283.0	-1573.9	-1.289	mg/L	-1.289	mg/L	00:12:02
2	Ba 233.527†	9069.8	11263.3	0.0860	mg/L	0.0860	mg/L	00:12:14

2	Be 313.107†	-1767.3	-744.9	0.0000 mg/L	0.0000 mg/L	00:12:04
2	Ca 315.887†	16740829.4	20628264.2	184.6 mg/L	184.6 mg/L	00:11:59
2	Cd 228.802†	130.0	12.8	0.0018 mg/L	0.0018 mg/L	00:12:14
2	Co 228.616†	-118.2	32.3	-0.0016 mg/L	-0.0016 mg/L	00:12:14
2	Cr 267.716†	965.2	478.4	0.0042 mg/L	0.0042 mg/L	00:12:04
2	Cu 324.752†	4400.5	1465.5	0.0076 mg/L	0.0076 mg/L	00:12:04
2	Fe 234.349†	3623.2	4466.1	1.918 mg/L	1.918 mg/L	00:11:35
2	K 766.490†	53007.3	64568.9	27.72 mg/L	27.72 mg/L	00:11:25
2	Li 670.784†	1669.0	2329.1	0.0566 mg/L	0.0566 mg/L	00:11:25
2	Mg 279.077†	89203.4	109625.9	7.116 mg/L	7.116 mg/L	00:12:04
2	Mn 257.610†	47629.1	42633.0	0.0453 mg/L	0.0453 mg/L	00:12:04
2	Mn 294.920†	14942.0	19051.7	0.0405 mg/L	0.0405 mg/L	00:12:04
2	Mo 202.031†	323.7	409.2	0.0178 mg/L	0.0178 mg/L	00:12:14
2	Na 589.592†	Saturated2	Saturated2			00:11:35
Saturated in preshot (code 2)						
2	Ni 231.604†	347.6	251.1	0.0042 mg/L	0.0042 mg/L	00:12:14
2	P 214.914†	579.1	759.5	0.4465 mg/L	0.4465 mg/L	00:12:14
2	Pb 220.353†	76.9	-88.3	-0.0032 mg/L	-0.0032 mg/L	00:12:14
2	Sb 206.836†	68.9	40.1	0.0200 mg/L	0.0200 mg/L	00:12:14
2	Se 196.026†	-19.3	-40.6	-0.0179 mg/L	-0.0179 mg/L	00:12:14
2	Sn 189.927†	-657.3	-847.4	0.0117 mg/L	0.0117 mg/L	00:12:14
2	Sr 407.771†	342277.0	421497.7	0.3571 mg/L	0.3571 mg/L	00:11:25
2	Ti 337.279†	-1115.3	-76.4	0.0027 mg/L	0.0027 mg/L	00:12:04
2	Tl 190.801†	26.7	40.0	0.0004 mg/L	0.0004 mg/L	00:12:14
2	V 292.402†	133.1	1065.9	0.0067 mg/L	0.0067 mg/L	00:12:04
2	Zn 213.857†	4708.6	4932.4	0.0306 mg/L	0.0306 mg/L	00:12:14

Mean Data: 1306367-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2739707.5	0.810	mg/L	0.0018				0.23%
Ag 328.068†	-99.5	0.0002	mg/L	0.00082	0.0002	mg/L	0.00082	356.03%
Al 237.313†	178.9	0.0235	mg/L	0.00028	0.0235	mg/L	0.00028	1.20%
As 188.979†	20.4	0.0151	mg/L	0.00271	0.0151	mg/L	0.00271	17.95%
B 249.677†	355.5	0.1476	mg/L	0.00473	0.1476	mg/L	0.00473	3.21%
B 182.528†	-1554.3	-1.273	mg/L	0.0227	-1.273	mg/L	0.0227	1.78%
Ba 233.527†	11274.4	0.0861	mg/L	0.00012	0.0861	mg/L	0.00012	0.14%
Be 313.107†	-786.2	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	32.56%
Ca 315.887†	20827205.4	186.4	mg/L	2.52	186.4	mg/L	2.52	1.35%
Cd 228.802†	23.0	0.0021	mg/L	0.00039	0.0021	mg/L	0.00039	18.57%
Co 228.616†	32.6	-0.0015	mg/L	0.00001	-0.0015	mg/L	0.00001	0.56%
Cr 267.716†	419.9	0.0037	mg/L	0.00063	0.0037	mg/L	0.00063	16.94%
Cu 324.752†	1554.1	0.0079	mg/L	0.00054	0.0079	mg/L	0.00054	6.73%
Fe 234.349†	4492.0	1.928	mg/L	0.0140	1.928	mg/L	0.0140	0.72%
K 766.490†	65071.5	27.93	mg/L	0.304	27.93	mg/L	0.304	1.09%
Li 670.784†	2306.4	0.0561	mg/L	0.00075	0.0561	mg/L	0.00075	1.34%
Mg 279.077†	109947.3	7.137	mg/L	0.0295	7.137	mg/L	0.0295	0.41%
Mn 257.610†	42811.4	0.0455	mg/L	0.00027	0.0455	mg/L	0.00027	0.59%
Mn 294.920†	19122.5	0.0406	mg/L	0.00021	0.0406	mg/L	0.00021	0.53%
Mo 202.031†	422.3	0.0183	mg/L	0.00069	0.0183	mg/L	0.00069	3.75%
Na 589.592†	Saturated2							
Ni 231.604†	252.4	0.0042	mg/L	0.00004	0.0042	mg/L	0.00004	0.86%
P 214.914†	755.7	0.4445	mg/L	0.00289	0.4445	mg/L	0.00289	0.65%
Pb 220.353†	-114.6	-0.0047	mg/L	0.00217	-0.0047	mg/L	0.00217	45.88%
Sb 206.836†	33.5	0.0173	mg/L	0.00385	0.0173	mg/L	0.00385	22.30%
Se 196.026†	-30.5	-0.0123	mg/L	0.00793	-0.0123	mg/L	0.00793	64.41%
Sn 189.927†	-840.8	0.0136	mg/L	0.00271	0.0136	mg/L	0.00271	19.95%
Sr 407.771†	420302.2	0.3561	mg/L	0.00143	0.3561	mg/L	0.00143	0.40%
Ti 337.279†	-252.1	0.0025	mg/L	0.00025	0.0025	mg/L	0.00025	10.08%
Tl 190.801†	38.1	-0.0013	mg/L	0.00242	-0.0013	mg/L	0.00242	191.32%
V 292.402†	1165.0	0.0071	mg/L	0.00056	0.0071	mg/L	0.00056	7.81%
Zn 213.857†	4927.3	0.0306	mg/L	0.00005	0.0306	mg/L	0.00005	0.15%

Sequence No.: 131

Sample ID: 1306394-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 92

Date Collected: 6/26/2013 12:15:21 AM

Data Type: Reprocessed on 6/26/2013 10:57:38 AM

Initial Sample Vol:

Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3197168.4	3197168.4	0.946	mg/L			00:17:30
1	Ag 328.068†	667.3	-31.1	0.0005	mg/L	0.0005	mg/L	00:17:33
1	Al 237.313†	-300.7	69.4	0.0135	mg/L	0.0135	mg/L	00:17:43
1	As 188.979†	5.2	4.4	0.0054	mg/L	0.0054	mg/L	00:17:43
1	B 249.677†	425.7	465.4	0.1925	mg/L	0.1925	mg/L	00:17:12
1	B 182.528†	208.7	227.6	0.1909	mg/L	0.1909	mg/L	00:17:43
1	Ba 233.527†	2500.8	2732.5	0.0213	mg/L	0.0213	mg/L	00:17:43
1	Be 313.107†	-1399.2	-47.0	0.0002	mg/L	0.0002	mg/L	00:17:33
1	Ca 315.887†	3874938.7	4098660.8	36.69	mg/L	36.69	mg/L	00:17:30
1	Cd 228.802†	146.9	7.9	0.0017	mg/L	0.0017	mg/L	00:17:43
1	Co 228.616†	-158.7	10.0	-0.0019	mg/L	-0.0019	mg/L	00:17:43
1	Cr 267.716†	636.3	-37.9	0.0002	mg/L	0.0002	mg/L	00:17:33
1	Cu 324.752†	9181.1	5752.8	0.0259	mg/L	0.0259	mg/L	00:17:33
1	Fe 234.349†	184.9	197.2	0.0479	mg/L	0.0479	mg/L	00:17:12
1	K 766.490†	36152.4	37487.9	16.15	mg/L	16.15	mg/L	00:17:02
1	Li 670.784†	-71.9	196.6	0.0065	mg/L	0.0065	mg/L	00:17:02
1	Mg 279.077†	83217.2	87718.5	5.694	mg/L	5.694	mg/L	00:17:33
1	Mn 257.610†	38513.3	24675.5	0.0265	mg/L	0.0265	mg/L	00:17:33
1	Mn 294.920†	10146.0	11370.5	0.0241	mg/L	0.0241	mg/L	00:17:33
1	Mo 202.031†	109.5	126.3	0.0074	mg/L	0.0074	mg/L	00:17:43
1	Na 589.592†	750425.5	789386.3	105.9	mg/L	105.9	mg/L	00:16:59
1	Ni 231.604†	268.5	106.8	0.0015	mg/L	0.0015	mg/L	00:17:43
1	P 214.914†	862.3	958.0	0.5505	mg/L	0.5505	mg/L	00:17:43
1	Pb 220.353†	123.6	-52.4	-0.0011	mg/L	-0.0011	mg/L	00:17:43
1	Sb 206.836†	46.5	4.4	0.0062	mg/L	0.0062	mg/L	00:17:43
1	Se 196.026†	18.0	2.2	0.0056	mg/L	0.0056	mg/L	00:17:43
1	Sn 189.927†	-358.1	-416.2	-0.0268	mg/L	-0.0268	mg/L	00:17:43
1	Sr 407.771†	105839.9	111685.4	0.0948	mg/L	0.0948	mg/L	00:17:02
1	Ti 337.279†	-1186.5	43.1	0.0028	mg/L	0.0028	mg/L	00:17:33
1	Tl 190.801†	2.7	9.9	0.0015	mg/L	0.0015	mg/L	00:17:43
1	V 292.402†	-821.7	32.9	0.0025	mg/L	0.0025	mg/L	00:17:33
1	Zn 213.857†	9783.5	9477.2	0.0587	mg/L	0.0587	mg/L	00:17:43
2	Y 371.029	3176508.8	3176508.8	0.939	mg/L			00:17:46
2	Ag 328.068†	642.4	-53.0	0.0004	mg/L	0.0004	mg/L	00:17:48
2	Al 237.313†	-293.4	75.1	0.0140	mg/L	0.0140	mg/L	00:17:58
2	As 188.979†	4.3	3.6	0.0048	mg/L	0.0048	mg/L	00:17:58
2	B 249.677†	408.9	450.5	0.1864	mg/L	0.1864	mg/L	00:17:26
2	B 182.528†	208.6	229.0	0.1920	mg/L	0.1920	mg/L	00:17:58
2	Ba 233.527†	2502.8	2751.7	0.0215	mg/L	0.0215	mg/L	00:17:58
2	Be 313.107†	-1352.0	-6.3	0.0002	mg/L	0.0002	mg/L	00:17:48
2	Ca 315.887†	3853574.1	4102572.3	36.73	mg/L	36.73	mg/L	00:17:46
2	Cd 228.802†	144.5	6.4	0.0017	mg/L	0.0017	mg/L	00:17:58
2	Co 228.616†	-175.4	-8.8	-0.0022	mg/L	-0.0022	mg/L	00:17:58
2	Cr 267.716†	561.7	-113.0	-0.0003	mg/L	-0.0003	mg/L	00:17:48
2	Cu 324.752†	9042.4	5668.3	0.0255	mg/L	0.0255	mg/L	00:17:48
2	Fe 234.349†	178.3	191.4	0.0450	mg/L	0.0450	mg/L	00:17:26
2	K 766.490†	36480.4	38085.7	16.41	mg/L	16.41	mg/L	00:17:16
2	Li 670.784†	-164.5	97.5	0.0042	mg/L	0.0042	mg/L	00:17:16
2	Mg 279.077†	82762.0	87806.4	5.700	mg/L	5.700	mg/L	00:17:48
2	Mn 257.610†	38253.8	24664.2	0.0264	mg/L	0.0264	mg/L	00:17:48
2	Mn 294.920†	10096.7	11387.8	0.0241	mg/L	0.0241	mg/L	00:17:48
2	Mo 202.031†	144.4	164.2	0.0088	mg/L	0.0088	mg/L	00:17:58
2	Na 589.592†	751499.1	795690.7	106.7	mg/L	106.7	mg/L	00:17:14
2	Ni 231.604†	270.3	110.6	0.0015	mg/L	0.0015	mg/L	00:17:58
2	P 214.914†	871.8	974.0	0.5589	mg/L	0.5589	mg/L	00:17:58
2	Pb 220.353†	124.2	-50.9	-0.0010	mg/L	-0.0010	mg/L	00:17:58
2	Sb 206.836†	40.7	-1.5	0.0038	mg/L	0.0038	mg/L	00:17:58
2	Se 196.026†	4.3	-12.3	-0.0024	mg/L	-0.0024	mg/L	00:17:58
2	Sn 189.927†	-379.7	-441.6	-0.0299	mg/L	-0.0299	mg/L	00:17:58
2	Sr 407.771†	105782.0	112351.7	0.0954	mg/L	0.0954	mg/L	00:17:16
2	Ti 337.279†	-1147.2	76.8	0.0029	mg/L	0.0029	mg/L	00:17:48
2	Tl 190.801†	9.3	17.0	0.0068	mg/L	0.0068	mg/L	00:17:58
2	V 292.402†	-625.3	236.3	0.0033	mg/L	0.0033	mg/L	00:17:48
2	Zn 213.857†	9738.4	9496.4	0.0588	mg/L	0.0588	mg/L	00:17:58

Mean Data: 1306394-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3186838.6	0.943	mg/L	0.0043				0.46%

Ag 328.068†	-42.0	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	16.45%
Al 237.313†	72.3	0.0137 mg/L	0.00037	0.0137 mg/L	0.00037	2.68%
As 188.979†	4.0	0.0051 mg/L	0.00039	0.0051 mg/L	0.00039	7.61%
B 249.677†	457.9	0.1894 mg/L	0.00431	0.1894 mg/L	0.00431	2.27%
B 182.528†	228.3	0.1915 mg/L	0.00077	0.1915 mg/L	0.00077	0.40%
Ba 233.527†	2742.1	0.0214 mg/L	0.00010	0.0214 mg/L	0.00010	0.48%
Be 313.107†	-26.7	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	4.93%
Ca 315.887†	4100616.6	36.71 mg/L	0.025	36.71 mg/L	0.025	0.07%
Cd 228.802†	7.1	0.0017 mg/L	0.00003	0.0017 mg/L	0.00003	1.75%
Co 228.616†	0.6	-0.0021 mg/L	0.00021	-0.0021 mg/L	0.00021	10.27%
Cr 267.716†	-75.4	-0.0001 mg/L	0.00040	-0.0001 mg/L	0.00040	649.59%
Cu 324.752†	5710.6	0.0257 mg/L	0.00026	0.0257 mg/L	0.00026	0.99%
Fe 234.349†	194.3	0.0464 mg/L	0.00207	0.0464 mg/L	0.00207	4.46%
K 766.490†	37786.8	16.28 mg/L	0.181	16.28 mg/L	0.181	1.11%
Li 670.784†	147.1	0.0053 mg/L	0.00165	0.0053 mg/L	0.00165	30.76%
Mg 279.077†	87762.4	5.697 mg/L	0.0040	5.697 mg/L	0.0040	0.07%
Mn 257.610†	24669.8	0.0265 mg/L	0.00001	0.0265 mg/L	0.00001	0.03%
Mn 294.920†	11379.2	0.0241 mg/L	0.00003	0.0241 mg/L	0.00003	0.11%
Mo 202.031†	145.2	0.0081 mg/L	0.00101	0.0081 mg/L	0.00101	12.48%
Na 589.592†	792538.5	106.3 mg/L	0.60	106.3 mg/L	0.60	0.56%
Ni 231.604†	108.7	0.0015 mg/L	0.00005	0.0015 mg/L	0.00005	3.45%
P 214.914†	966.0	0.5547 mg/L	0.00593	0.5547 mg/L	0.00593	1.07%
Pb 220.353†	-51.7	-0.0011 mg/L	0.00007	-0.0011 mg/L	0.00007	6.01%
Sb 206.836†	1.5	0.0050 mg/L	0.00170	0.0050 mg/L	0.00170	34.07%
Se 196.026†	-5.1	0.0016 mg/L	0.00566	0.0016 mg/L	0.00566	344.79%
Sn 189.927†	-428.9	-0.0284 mg/L	0.00219	-0.0284 mg/L	0.00219	7.72%
Sr 407.771†	112018.6	0.0951 mg/L	0.00040	0.0951 mg/L	0.00040	0.42%
Ti 337.279†	60.0	0.0028 mg/L	0.00002	0.0028 mg/L	0.00002	0.86%
Tl 190.801†	13.5	0.0041 mg/L	0.00376	0.0041 mg/L	0.00376	91.43%
V 292.402†	134.6	0.0029 mg/L	0.00057	0.0029 mg/L	0.00057	19.76%
Zn 213.857†	9486.8	0.0587 mg/L	0.00008	0.0587 mg/L	0.00008	0.14%

Sequence No.: 132
Sample ID: 1306394-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 6/26/2013 12:19:35 AM
Data Type: Reprocessed on 6/26/2013 10:57:38 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306394-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3264172.9	3264172.9	0.965	mg/L			00:21:43
1	Ag 328.068†	745.3	35.2	0.0009	mg/L	0.0009	mg/L	00:21:45
1	Al 237.313†	2209.6	2676.2	0.2524	mg/L	0.2524	mg/L	00:21:45
1	As 188.979†	3.3	2.4	0.0041	mg/L	0.0041	mg/L	00:21:56
1	B 249.677†	371.5	400.0	0.1658	mg/L	0.1658	mg/L	00:21:27
1	B 182.528†	195.1	209.1	0.1756	mg/L	0.1756	mg/L	00:21:56
1	Ba 233.527†	4997.5	5264.3	0.0405	mg/L	0.0405	mg/L	00:21:56
1	Be 313.107†	-1480.8	-101.1	0.0002	mg/L	0.0002	mg/L	00:21:45
1	Ca 315.887†	1633041.4	1692290.5	15.15	mg/L	15.15	mg/L	00:21:43
1	Cd 228.802†	158.1	16.3	0.0019	mg/L	0.0019	mg/L	00:21:56
1	Co 228.616†	-152.0	20.4	-0.0019	mg/L	-0.0019	mg/L	00:21:56
1	Cr 267.716†	693.7	7.7	0.0006	mg/L	0.0006	mg/L	00:21:45
1	Cu 324.752†	39171.4	36618.7	0.1578	mg/L	0.1578	mg/L	00:21:45
1	Fe 234.349†	2648.0	2744.6	1.345	mg/L	1.345	mg/L	00:21:27
1	K 766.490†	49206.4	50225.0	21.59	mg/L	21.59	mg/L	00:21:17
1	Li 670.784†	38.9	312.9	0.0092	mg/L	0.0092	mg/L	00:21:17
1	Mg 279.077†	116260.6	120139.7	7.799	mg/L	7.799	mg/L	00:21:45
1	Mn 257.610†	104759.7	92460.2	0.0991	mg/L	0.0991	mg/L	00:21:45
1	Mn 294.920†	43247.5	45438.2	0.0967	mg/L	0.0967	mg/L	00:21:45
1	Mo 202.031†	94.4	108.2	0.0058	mg/L	0.0058	mg/L	00:21:56
1	Na 589.592†	709241.6	730435.6	97.96	mg/L	97.96	mg/L	00:21:17
1	Ni 231.604†	371.0	207.1	0.0033	mg/L	0.0033	mg/L	00:21:56
1	P 214.914†	15954.0	16571.9	8.735	mg/L	8.735	mg/L	00:21:45
1	Pb 220.353†	127.1	-51.4	-0.0012	mg/L	-0.0012	mg/L	00:21:56
1	Sb 206.836†	38.5	-5.0	0.0018	mg/L	0.0018	mg/L	00:21:56
1	Se 196.026†	14.9	-1.4	0.0037	mg/L	0.0037	mg/L	00:21:56
1	Sn 189.927†	-189.4	-233.7	-0.0177	mg/L	-0.0177	mg/L	00:21:56
1	Sr 407.771†	98175.0	101448.2	0.0862	mg/L	0.0862	mg/L	00:21:17
1	Ti 337.279†	49222.0	52284.1	0.0564	mg/L	0.0564	mg/L	00:21:45

1	Tl 190.801†	2.8	10.0	0.0043	mg/L	0.0043	mg/L	00:21:56
1	V 292.402†	-911.2	-42.0	0.0020	mg/L	0.0020	mg/L	00:21:45
1	Zn 213.857†	23349.7	23317.2	0.1434	mg/L	0.1434	mg/L	00:21:45
2	Y 371.029	3249791.7	3249791.7	0.961	mg/L			00:21:58
2	Ag 328.068†	614.8	-97.1	0.0002	mg/L	0.0002	mg/L	00:22:00
2	Al 237.313†	2222.2	2699.5	0.2546	mg/L	0.2546	mg/L	00:22:00
2	As 188.979†	3.7	2.8	0.0043	mg/L	0.0043	mg/L	00:22:11
2	B 249.677†	370.3	400.5	0.1660	mg/L	0.1660	mg/L	00:21:39
2	B 182.528†	194.4	209.2	0.1758	mg/L	0.1758	mg/L	00:22:11
2	Ba 233.527†	4929.3	5216.3	0.0401	mg/L	0.0401	mg/L	00:22:11
2	Be 313.107†	-1239.5	143.1	0.0003	mg/L	0.0003	mg/L	00:22:00
2	Ca 315.887†	1626364.8	1692829.6	15.16	mg/L	15.16	mg/L	00:21:58
2	Cd 228.802†	154.0	12.7	0.0018	mg/L	0.0018	mg/L	00:22:11
2	Co 228.616†	-153.4	18.4	-0.0019	mg/L	-0.0019	mg/L	00:22:11
2	Cr 267.716†	683.2	-0.0	0.0005	mg/L	0.0005	mg/L	00:22:00
2	Cu 324.752†	39045.6	36667.4	0.1580	mg/L	0.1580	mg/L	00:22:00
2	Fe 234.349†	2638.3	2746.6	1.346	mg/L	1.346	mg/L	00:21:39
2	K 766.490†	48485.8	49700.8	21.37	mg/L	21.37	mg/L	00:21:29
2	Li 670.784†	60.6	335.6	0.0098	mg/L	0.0098	mg/L	00:21:29
2	Mg 279.077†	115326.7	119701.0	7.771	mg/L	7.771	mg/L	00:22:00
2	Mn 257.610†	104021.0	92171.9	0.0988	mg/L	0.0988	mg/L	00:22:00
2	Mn 294.920†	42896.4	45271.1	0.0964	mg/L	0.0964	mg/L	00:22:00
2	Mo 202.031†	74.3	87.7	0.0050	mg/L	0.0050	mg/L	00:22:11
2	Na 589.592†	699821.9	723886.1	97.08	mg/L	97.08	mg/L	00:21:29
2	Ni 231.604†	361.2	198.7	0.0032	mg/L	0.0032	mg/L	00:22:11
2	P 214.914†	15854.3	16541.2	8.719	mg/L	8.719	mg/L	00:22:00
2	Pb 220.353†	205.2	30.4	0.0036	mg/L	0.0036	mg/L	00:22:11
2	Sb 206.836†	34.0	-9.5	-0.0001	mg/L	-0.0001	mg/L	00:22:11
2	Se 196.026†	22.3	6.3	0.0080	mg/L	0.0080	mg/L	00:22:11
2	Sn 189.927†	-157.5	-201.3	-0.0138	mg/L	-0.0138	mg/L	00:22:11
2	Sr 407.771†	96774.1	100440.6	0.0853	mg/L	0.0853	mg/L	00:21:29
2	Ti 337.279†	42105.0	45105.0	0.0490	mg/L	0.0490	mg/L	00:22:00
2	Tl 190.801†	-4.4	2.5	-0.0014	mg/L	-0.0014	mg/L	00:22:11
2	V 292.402†	-906.3	-41.1	0.0021	mg/L	0.0021	mg/L	00:22:00
2	Zn 213.857†	23183.1	23250.9	0.1430	mg/L	0.1430	mg/L	00:22:00

Mean Data: 1306394-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3256982.3	0.963	mg/L	0.0030				0.31%
Ag 328.068†	-30.9	0.0005	mg/L	0.00045	0.0005	mg/L	0.00045	83.80%
Al 237.313†	2687.9	0.2535	mg/L	0.00151	0.2535	mg/L	0.00151	0.59%
As 188.979†	2.6	0.0042	mg/L	0.00017	0.0042	mg/L	0.00017	4.14%
B 249.677†	400.3	0.1659	mg/L	0.00014	0.1659	mg/L	0.00014	0.08%
B 182.528†	209.1	0.1757	mg/L	0.00009	0.1757	mg/L	0.00009	0.05%
Ba 233.527†	5240.3	0.0403	mg/L	0.00026	0.0403	mg/L	0.00026	0.64%
Be 313.107†	21.0	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	29.75%
Ca 315.887†	1692560.0	15.16	mg/L	0.003	15.16	mg/L	0.003	0.02%
Cd 228.802†	14.5	0.0019	mg/L	0.00007	0.0019	mg/L	0.00007	3.60%
Co 228.616†	19.4	-0.0019	mg/L	0.00001	-0.0019	mg/L	0.00001	0.66%
Cr 267.716†	3.8	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.80%
Cu 324.752†	36643.0	0.1579	mg/L	0.00014	0.1579	mg/L	0.00014	0.09%
Fe 234.349†	2745.6	1.345	mg/L	0.0007	1.345	mg/L	0.0007	0.05%
K 766.490†	49962.9	21.48	mg/L	0.158	21.48	mg/L	0.158	0.74%
Li 670.784†	324.2	0.0095	mg/L	0.00038	0.0095	mg/L	0.00038	3.97%
Mg 279.077†	119920.4	7.785	mg/L	0.0201	7.785	mg/L	0.0201	0.26%
Mn 257.610†	92316.1	0.0989	mg/L	0.00022	0.0989	mg/L	0.00022	0.22%
Mn 294.920†	45354.6	0.0966	mg/L	0.00025	0.0966	mg/L	0.00025	0.26%
Mo 202.031†	97.9	0.0054	mg/L	0.00054	0.0054	mg/L	0.00054	10.14%
Na 589.592†	727160.9	97.52	mg/L	0.621	97.52	mg/L	0.621	0.64%
Ni 231.604†	202.9	0.0033	mg/L	0.00011	0.0033	mg/L	0.00011	3.43%
P 214.914†	16556.5	8.727	mg/L	0.0114	8.727	mg/L	0.0114	0.13%
Pb 220.353†	-10.5	0.0012	mg/L	0.00338	0.0012	mg/L	0.00338	285.84%
Sb 206.836†	-7.2	0.0009	mg/L	0.00131	0.0009	mg/L	0.00131	150.95%
Se 196.026†	2.5	0.0059	mg/L	0.00303	0.0059	mg/L	0.00303	51.54%
Sn 189.927†	-217.5	-0.0158	mg/L	0.00281	-0.0158	mg/L	0.00281	17.85%
Sr 407.771†	100944.4	0.0857	mg/L	0.00060	0.0857	mg/L	0.00060	0.70%
Ti 337.279†	48694.5	0.0527	mg/L	0.00520	0.0527	mg/L	0.00520	9.87%
Tl 190.801†	6.3	0.0015	mg/L	0.00399	0.0015	mg/L	0.00399	275.17%
V 292.402†	-41.6	0.0020	mg/L	0.00001	0.0020	mg/L	0.00001	0.27%
Zn 213.857†	23284.0	0.1432	mg/L	0.00029	0.1432	mg/L	0.00029	0.20%

Sequence No.: 133
Sample ID: CF32515-BLK2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 94
Date Collected: 6/26/2013 12:23:48 AM
Data Type: Reprocessed on 6/26/2013 10:57:39 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-BLK2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3287248.3	3287248.3	0.972 mg/L		00:25:56
1	Ag 328.068†	661.7	-56.2	0.0004 mg/L	0.0004 mg/L	00:25:59
1	Al 237.313†	-258.4	121.6	0.0182 mg/L	0.0182 mg/L	00:25:59
1	As 188.979†	3.1	2.1	0.0039 mg/L	0.0039 mg/L	00:26:09
1	B 249.677†	0.1	15.3	0.0088 mg/L	0.0088 mg/L	00:25:40
1	B 182.528†	1.1	8.1	0.0105 mg/L	0.0105 mg/L	00:26:09
1	Ba 233.527†	-51.8	34.4	0.0009 mg/L	0.0009 mg/L	00:26:09
1	Be 313.107†	-1327.9	67.0	0.0002 mg/L	0.0002 mg/L	00:25:59
1	Ca 315.887†	536.9	1270.2	0.0196 mg/L	0.0196 mg/L	00:25:59
1	Cd 228.802†	147.7	4.4	0.0016 mg/L	0.0016 mg/L	00:26:09
1	Co 228.616†	-161.4	11.9	-0.0019 mg/L	-0.0019 mg/L	00:26:09
1	Cr 267.716†	508.3	-188.0	-0.0009 mg/L	-0.0009 mg/L	00:25:59
1	Cu 324.752†	3999.0	156.6	0.0020 mg/L	0.0020 mg/L	00:25:59
1	Fe 234.349†	23.0	25.3	0.0231 mg/L	0.0231 mg/L	00:25:40
1	K 766.490†	774.0	51.0	0.1652 mg/L	0.1652 mg/L	00:25:30
1	Li 670.784†	-252.9	12.4	0.0022 mg/L	0.0022 mg/L	00:25:30
1	Mg 279.077†	294.9	15.5	-0.0010 mg/L	-0.0010 mg/L	00:25:59
1	Mn 257.610†	17836.0	2291.3	0.0024 mg/L	0.0024 mg/L	00:25:59
1	Mn 294.920†	426.2	1078.9	0.0021 mg/L	0.0021 mg/L	00:25:59
1	Mo 202.031†	13.9	24.7	0.0037 mg/L	0.0037 mg/L	00:26:09
1	Na 589.592†	9856.0	5911.1	0.8792 mg/L	0.8792 mg/L	00:25:30
1	Ni 231.604†	151.5	-21.4	-0.0009 mg/L	-0.0009 mg/L	00:25:59
1	P 214.914†	966.0	1039.6	0.5936 mg/L	0.5936 mg/L	00:26:09
1	Pb 220.353†	131.7	-47.6	-0.0009 mg/L	-0.0009 mg/L	00:26:09
1	Sb 206.836†	35.6	-8.2	0.0010 mg/L	0.0010 mg/L	00:26:09
1	Se 196.026†	13.2	-3.3	0.0026 mg/L	0.0026 mg/L	00:26:09
1	Sn 189.927†	51.4	15.4	0.0035 mg/L	0.0035 mg/L	00:26:09
1	Sr 407.771†	342.3	106.5	0.0004 mg/L	0.0004 mg/L	00:25:30
1	Ti 337.279†	-1486.0	-230.5	0.0025 mg/L	0.0025 mg/L	00:25:59
1	Tl 190.801†	-4.9	2.0	0.0012 mg/L	0.0012 mg/L	00:26:09
1	V 292.402†	-870.0	7.0	0.0024 mg/L	0.0024 mg/L	00:25:59
1	Zn 213.857†	1238.5	404.5	0.0030 mg/L	0.0030 mg/L	00:26:09
2	Y 371.029	3247477.8	3247477.8	0.960 mg/L		00:26:11
2	Ag 328.068†	660.9	-48.7	0.0004 mg/L	0.0004 mg/L	00:26:13
2	Al 237.313†	-253.8	123.2	0.0184 mg/L	0.0184 mg/L	00:26:13
2	As 188.979†	1.8	0.8	0.0031 mg/L	0.0031 mg/L	00:26:24
2	B 249.677†	4.8	20.2	0.0108 mg/L	0.0108 mg/L	00:25:53
2	B 182.528†	6.6	13.8	0.0152 mg/L	0.0152 mg/L	00:26:24
2	Ba 233.527†	-57.7	27.7	0.0008 mg/L	0.0008 mg/L	00:26:24
2	Be 313.107†	-1300.6	78.6	0.0002 mg/L	0.0002 mg/L	00:26:13
2	Ca 315.887†	594.9	1337.3	0.0203 mg/L	0.0203 mg/L	00:26:13
2	Cd 228.802†	154.6	13.6	0.0019 mg/L	0.0019 mg/L	00:26:24
2	Co 228.616†	-157.3	14.1	-0.0019 mg/L	-0.0019 mg/L	00:26:24
2	Cr 267.716†	424.1	-269.2	-0.0015 mg/L	-0.0015 mg/L	00:26:13
2	Cu 324.752†	3963.6	170.1	0.0020 mg/L	0.0020 mg/L	00:26:13
2	Fe 234.349†	26.8	29.6	0.0252 mg/L	0.0252 mg/L	00:25:53
2	K 766.490†	668.8	-48.7	0.1226 mg/L	0.1226 mg/L	00:25:43
2	Li 670.784†	-135.9	131.1	0.0050 mg/L	0.0050 mg/L	00:25:43
2	Mg 279.077†	396.5	124.9	0.0061 mg/L	0.0061 mg/L	00:26:13
2	Mn 257.610†	17905.8	2588.7	0.0027 mg/L	0.0027 mg/L	00:26:13
2	Mn 294.920†	323.8	977.7	0.0019 mg/L	0.0019 mg/L	00:26:13
2	Mo 202.031†	-17.1	-7.4	0.0025 mg/L	0.0025 mg/L	00:26:24
2	Na 589.592†	9736.0	5910.3	0.8791 mg/L	0.8791 mg/L	00:25:43
2	Ni 231.604†	148.1	-22.9	-0.0009 mg/L	-0.0009 mg/L	00:26:13
2	P 214.914†	982.4	1068.9	0.6089 mg/L	0.6089 mg/L	00:26:24
2	Pb 220.353†	153.3	-23.5	0.0006 mg/L	0.0006 mg/L	00:26:24
2	Sb 206.836†	34.6	-8.8	0.0008 mg/L	0.0008 mg/L	00:26:24
2	Se 196.026†	18.6	2.5	0.0058 mg/L	0.0058 mg/L	00:26:24
2	Sn 189.927†	46.8	11.3	0.0030 mg/L	0.0030 mg/L	00:26:24
2	Sr 407.771†	277.6	43.4	0.0003 mg/L	0.0003 mg/L	00:25:43
2	Ti 337.279†	-1545.3	-311.0	0.0025 mg/L	0.0025 mg/L	00:26:13

2	Tl 190.801†	-4.8	2.2	0.0013 mg/L	0.0013 mg/L	00:26:24
2	V 292.402†	-924.7	-60.9	0.0021 mg/L	0.0021 mg/L	00:26:13
2	Zn 213.857†	1229.6	410.8	0.0030 mg/L	0.0030 mg/L	00:26:24

Mean Data: CF32515-BLK2

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3267363.0	0.966 mg/L		0.0083			0.86%
Ag 328.068†	-52.4	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	6.35%
Al 237.313†	122.4	0.0183 mg/L		0.00010	0.0183 mg/L	0.00010	0.57%
As 188.979†	1.5	0.0035 mg/L		0.00055	0.0035 mg/L	0.00055	15.64%
B 249.677†	17.8	0.0098 mg/L		0.00141	0.0098 mg/L	0.00141	14.46%
B 182.528†	10.9	0.0129 mg/L		0.00332	0.0129 mg/L	0.00332	25.77%
Ba 233.527†	31.1	0.0008 mg/L		0.00004	0.0008 mg/L	0.00004	4.35%
Be 313.107†	72.8	0.0002 mg/L		0.00000	0.0002 mg/L	0.00000	1.20%
Ca 315.887†	1303.8	0.0200 mg/L		0.00043	0.0200 mg/L	0.00043	2.14%
Cd 228.802†	9.0	0.0017 mg/L		0.00017	0.0017 mg/L	0.00017	9.92%
Co 228.616†	13.0	-0.0019 mg/L		0.00002	-0.0019 mg/L	0.00002	1.30%
Cr 267.716†	-228.6	-0.0012 mg/L		0.00044	-0.0012 mg/L	0.00044	35.55%
Cu 324.752†	163.3	0.0020 mg/L		0.00004	0.0020 mg/L	0.00004	2.04%
Fe 234.349†	27.4	0.0242 mg/L		0.00151	0.0242 mg/L	0.00151	6.24%
K 766.490†	1.1	0.1439 mg/L		0.03013	0.1439 mg/L	0.03013	20.94%
Li 670.784†	71.8	0.0036 mg/L		0.00197	0.0036 mg/L	0.00197	55.01%
Mg 279.077†	70.2	0.0026 mg/L		0.00502	0.0026 mg/L	0.00502	196.04%
Mn 257.610†	2440.0	0.0026 mg/L		0.00023	0.0026 mg/L	0.00023	8.84%
Mn 294.920†	1028.3	0.0020 mg/L		0.00015	0.0020 mg/L	0.00015	7.56%
Mo 202.031†	8.6	0.0031 mg/L		0.00085	0.0031 mg/L	0.00085	27.57%
Na 589.592†	5910.7	0.8791 mg/L		0.00007	0.8791 mg/L	0.00007	0.01%
Ni 231.604†	-22.1	-0.0009 mg/L		0.00002	-0.0009 mg/L	0.00002	2.31%
P 214.914†	1054.3	0.6012 mg/L		0.01087	0.6012 mg/L	0.01087	1.81%
Pb 220.353†	-35.6	-0.0002 mg/L		0.00099	-0.0002 mg/L	0.00099	652.43%
Sb 206.836†	-8.5	0.0009 mg/L		0.00016	0.0009 mg/L	0.00016	17.78%
Se 196.026†	-0.4	0.0042 mg/L		0.00228	0.0042 mg/L	0.00228	54.07%
Sn 189.927†	13.4	0.0032 mg/L		0.00036	0.0032 mg/L	0.00036	11.15%
Sr 407.771†	74.9	0.0004 mg/L		0.00004	0.0004 mg/L	0.00004	10.43%
Ti 337.279†	-270.8	0.0025 mg/L		0.00006	0.0025 mg/L	0.00006	2.33%
Tl 190.801†	2.1	0.0012 mg/L		0.00007	0.0012 mg/L	0.00007	5.88%
V 292.402†	-27.0	0.0022 mg/L		0.00020	0.0022 mg/L	0.00020	9.03%
Zn 213.857†	407.7	0.0030 mg/L		0.00003	0.0030 mg/L	0.00003	0.92%

Sequence No.: 134
Sample ID: CF32515-BLK3 @DIS
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 6/26/2013 12:28:01 AM
Data Type: Reprocessed on 6/26/2013 10:57:39 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-BLK3 @DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3265872.3	3265872.3	0.966 mg/L		00:30:07
1	Ag 328.068†	685.9	-26.7	0.0005 mg/L	0.0005 mg/L	00:30:09
1	Al 237.313†	-358.1	16.7	0.0086 mg/L	0.0086 mg/L	00:30:09
1	As 188.979†	-3.7	-4.9	-0.0003 mg/L	-0.0003 mg/L	00:30:19
1	B 249.677†	3.1	18.4	0.0100 mg/L	0.0100 mg/L	00:29:51
1	B 182.528†	1.6	8.6	0.0109 mg/L	0.0109 mg/L	00:30:19
1	Ba 233.527†	-55.2	30.6	0.0008 mg/L	0.0008 mg/L	00:30:19
1	Be 313.107†	-1153.8	238.2	0.0003 mg/L	0.0003 mg/L	00:30:09
1	Ca 315.887†	3326.4	4161.8	0.0455 mg/L	0.0455 mg/L	00:30:09
1	Cd 228.802†	143.4	1.0	0.0015 mg/L	0.0015 mg/L	00:30:19
1	Co 228.616†	-181.5	-10.0	-0.0022 mg/L	-0.0022 mg/L	00:30:19
1	Cr 267.716†	524.3	-168.0	-0.0008 mg/L	-0.0008 mg/L	00:30:09
1	Cu 324.752†	4059.9	246.5	0.0024 mg/L	0.0024 mg/L	00:30:09
1	Fe 234.349†	18.0	20.3	0.0206 mg/L	0.0206 mg/L	00:29:51
1	K 766.490†	617.8	-105.5	0.0984 mg/L	0.0984 mg/L	00:29:41
1	Li 670.784†	-99.0	170.1	0.0059 mg/L	0.0059 mg/L	00:29:41
1	Mg 279.077†	349.7	74.2	0.0028 mg/L	0.0028 mg/L	00:30:09
1	Mn 257.610†	17669.7	2239.3	0.0023 mg/L	0.0023 mg/L	00:30:09
1	Mn 294.920†	152.5	798.5	0.0015 mg/L	0.0015 mg/L	00:30:09
1	Mo 202.031†	-10.3	-0.3	0.0028 mg/L	0.0028 mg/L	00:30:19

1	Na 589.592†	7588.2	3629.6	0.5735	mg/L	0.5735	mg/L	00:29:41
1	Ni 231.604†	150.7	-21.2	-0.0009	mg/L	-0.0009	mg/L	00:30:09
1	P 214.914†	867.9	944.6	0.5437	mg/L	0.5437	mg/L	00:30:19
1	Pb 220.353†	172.7	-4.3	0.0017	mg/L	0.0017	mg/L	00:30:19
1	Sb 206.836†	39.8	-3.6	0.0029	mg/L	0.0029	mg/L	00:30:19
1	Se 196.026†	9.8	-6.8	0.0007	mg/L	0.0007	mg/L	00:30:19
1	Sn 189.927†	55.2	19.7	0.0040	mg/L	0.0040	mg/L	00:30:19
1	Sr 407.771†	192.4	-46.4	0.0003	mg/L	0.0003	mg/L	00:29:41
1	Ti 337.279†	-1299.3	-47.2	0.0027	mg/L	0.0027	mg/L	00:30:09
1	Tl 190.801†	-6.9	-0.0	-0.0004	mg/L	-0.0004	mg/L	00:30:19
1	V 292.402†	-865.4	5.9	0.0024	mg/L	0.0024	mg/L	00:30:09
1	Zn 213.857†	1634.5	822.8	0.0055	mg/L	0.0055	mg/L	00:30:19
2	Y 371.029	3284255.8	3284255.8	0.971	mg/L			00:30:21
2	Ag 328.068†	572.8	-147.1	-0.0001	mg/L	-0.0001	mg/L	00:30:24
2	Al 237.313†	-409.8	-34.4	0.0039	mg/L	0.0039	mg/L	00:30:24
2	As 188.979†	1.5	0.5	0.0029	mg/L	0.0029	mg/L	00:30:34
2	B 249.677†	-3.1	12.0	0.0074	mg/L	0.0074	mg/L	00:30:03
2	B 182.528†	0.4	7.3	0.0099	mg/L	0.0099	mg/L	00:30:34
2	Ba 233.527†	-50.6	35.7	0.0009	mg/L	0.0009	mg/L	00:30:34
2	Be 313.107†	-1192.5	205.1	0.0003	mg/L	0.0003	mg/L	00:30:24
2	Ca 315.887†	3437.6	4257.0	0.0464	mg/L	0.0464	mg/L	00:30:24
2	Cd 228.802†	140.3	-3.0	0.0014	mg/L	0.0014	mg/L	00:30:34
2	Co 228.616†	-176.4	-3.7	-0.0021	mg/L	-0.0021	mg/L	00:30:34
2	Cr 267.716†	502.4	-193.6	-0.0010	mg/L	-0.0010	mg/L	00:30:24
2	Cu 324.752†	4114.4	279.1	0.0025	mg/L	0.0025	mg/L	00:30:24
2	Fe 234.349†	5.4	7.2	0.0141	mg/L	0.0141	mg/L	00:30:03
2	K 766.490†	712.8	-11.2	0.1386	mg/L	0.1386	mg/L	00:29:53
2	Li 670.784†	-203.2	63.4	0.0034	mg/L	0.0034	mg/L	00:29:53
2	Mg 279.077†	311.2	32.6	0.0001	mg/L	0.0001	mg/L	00:30:24
2	Mn 257.610†	17745.6	2215.0	0.0023	mg/L	0.0023	mg/L	00:30:24
2	Mn 294.920†	208.5	855.3	0.0017	mg/L	0.0017	mg/L	00:30:24
2	Mo 202.031†	0.7	11.1	0.0032	mg/L	0.0032	mg/L	00:30:34
2	Na 589.592†	7520.4	3515.8	0.5582	mg/L	0.5582	mg/L	00:29:53
2	Ni 231.604†	144.0	-28.9	-0.0011	mg/L	-0.0011	mg/L	00:30:24
2	P 214.914†	865.6	937.2	0.5398	mg/L	0.5398	mg/L	00:30:34
2	Pb 220.353†	209.5	32.6	0.0038	mg/L	0.0038	mg/L	00:30:34
2	Sb 206.836†	32.4	-11.4	-0.0003	mg/L	-0.0003	mg/L	00:30:34
2	Se 196.026†	20.7	4.4	0.0069	mg/L	0.0069	mg/L	00:30:34
2	Sn 189.927†	51.4	15.5	0.0035	mg/L	0.0035	mg/L	00:30:34
2	Sr 407.771†	360.3	125.3	0.0004	mg/L	0.0004	mg/L	00:29:53
2	Ti 337.279†	-1331.9	-73.3	0.0027	mg/L	0.0027	mg/L	00:30:24
2	Tl 190.801†	-5.6	1.3	0.0006	mg/L	0.0006	mg/L	00:30:34
2	V 292.402†	-918.5	-43.7	0.0022	mg/L	0.0022	mg/L	00:30:24
2	Zn 213.857†	1607.6	785.6	0.0053	mg/L	0.0053	mg/L	00:30:34

Mean Data: CF32515-BLK3 @DIS

Analyte	Mean Corrected		Calib	Std.Dev.	Sample			RSD
	Intensity	Conc.			Units	Conc.	Units	
Y 371.029	3275064.0	0.969	mg/L	0.0038				0.40%
Ag 328.068†	-86.9	0.0002	mg/L	0.00041	0.0002	mg/L	0.00041	174.95%
Al 237.313†	-8.8	0.0063	mg/L	0.00332	0.0063	mg/L	0.00332	52.80%
As 188.979†	-2.2	0.0013	mg/L	0.00231	0.0013	mg/L	0.00231	179.40%
B 249.677†	15.2	0.0087	mg/L	0.00185	0.0087	mg/L	0.00185	21.25%
B 182.528†	8.0	0.0104	mg/L	0.00072	0.0104	mg/L	0.00072	6.94%
Ba 233.527†	33.2	0.0008	mg/L	0.00003	0.0008	mg/L	0.00003	3.19%
Be 313.107†	221.6	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.84%
Ca 315.887†	4209.4	0.0460	mg/L	0.00060	0.0460	mg/L	0.00060	1.31%
Cd 228.802†	-1.0	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.22%
Co 228.616†	-6.9	-0.0022	mg/L	0.00007	-0.0022	mg/L	0.00007	3.26%
Cr 267.716†	-180.8	-0.0009	mg/L	0.00014	-0.0009	mg/L	0.00014	15.83%
Cu 324.752†	262.8	0.0024	mg/L	0.00010	0.0024	mg/L	0.00010	4.03%
Fe 234.349†	13.8	0.0173	mg/L	0.00455	0.0173	mg/L	0.00455	26.26%
K 766.490†	-58.4	0.1185	mg/L	0.02846	0.1185	mg/L	0.02846	24.02%
Li 670.784†	116.8	0.0046	mg/L	0.00177	0.0046	mg/L	0.00177	38.18%
Mg 279.077†	53.4	0.0015	mg/L	0.00191	0.0015	mg/L	0.00191	130.17%
Mn 257.610†	2227.2	0.0023	mg/L	0.00002	0.0023	mg/L	0.00002	0.75%
Mn 294.920†	826.9	0.0016	mg/L	0.00009	0.0016	mg/L	0.00009	5.38%
Mo 202.031†	5.4	0.0030	mg/L	0.00030	0.0030	mg/L	0.00030	10.17%
Na 589.592†	3572.7	0.5658	mg/L	0.01078	0.5658	mg/L	0.01078	1.91%
Ni 231.604†	-25.0	-0.0010	mg/L	0.00010	-0.0010	mg/L	0.00010	10.23%
P 214.914†	940.9	0.5418	mg/L	0.00275	0.5418	mg/L	0.00275	0.51%
Pb 220.353†	14.1	0.0028	mg/L	0.00153	0.0028	mg/L	0.00153	55.45%

2	Na 589.592†	177947.2	182543.4	24.55 mg/L	24.55 mg/L	00:33:57
2	Ni 231.604†	25535.2	26624.1	0.4956 mg/L	0.4956 mg/L	00:34:18
2	P 214.914†	8510.0	8978.0	4.748 mg/L	4.748 mg/L	00:34:28
2	Pb 220.353†	8176.6	8398.8	0.4941 mg/L	0.4941 mg/L	00:34:28
2	Sb 206.836†	1169.0	1182.2	0.4877 mg/L	0.4877 mg/L	00:34:28
2	Se 196.026†	1678.8	1745.1	0.9706 mg/L	0.9706 mg/L	00:34:28
2	Sn 189.927†	3862.5	4016.6	0.4978 mg/L	0.4978 mg/L	00:34:28
2	Sr 407.771†	52859.4	55234.6	0.0471 mg/L	0.0471 mg/L	00:33:57
2	Ti 337.279†	451990.4	475698.0	0.4904 mg/L	0.4904 mg/L	00:34:18
2	Tl 190.801†	612.9	650.4	0.4862 mg/L	0.4862 mg/L	00:34:28
2	V 292.402†	119390.2	126211.4	0.5034 mg/L	0.5034 mg/L	00:34:18
2	Zn 213.857†	77858.4	80849.2	0.4930 mg/L	0.4930 mg/L	00:34:18

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3223825.9	0.953 mg/L		0.0010			0.10%
Ag 328.068†	51853.1	0.2497 mg/L		0.00010	0.2497 mg/L	0.00010	0.04%
	QC value within limits for Ag 328.068	Recovery = 99.89%					
Al 237.313†	26411.1	2.430 mg/L		0.0009	2.430 mg/L	0.0009	0.04%
	QC value within limits for Al 237.313	Recovery = 97.21%					
As 188.979†	776.7	0.4769 mg/L		0.00442	0.4769 mg/L	0.00442	0.93%
	QC value within limits for As 188.979	Recovery = 95.39%					
B 249.677†	1166.9	0.4795 mg/L		0.00655	0.4795 mg/L	0.00655	1.37%
	QC value within limits for B 249.677	Recovery = 95.89%					
B 182.528†	589.8	0.4885 mg/L		0.00116	0.4885 mg/L	0.00116	0.24%
	QC value within limits for B 182.528	Recovery = 97.70%					
Ba 233.527†	65216.4	0.4950 mg/L		0.00020	0.4950 mg/L	0.00020	0.04%
	QC value within limits for Ba 233.527	Recovery = 99.00%					
Be 313.107†	139759.9	0.0494 mg/L		0.00013	0.0494 mg/L	0.00013	0.27%
	QC value within limits for Be 313.107	Recovery = 98.76%					
Ca 315.887†	541412.4	4.856 mg/L		0.0080	4.856 mg/L	0.0080	0.16%
	QC value within limits for Ca 315.887	Recovery = 97.11%					
Cd 228.802†	9380.1	0.2523 mg/L		0.00059	0.2523 mg/L	0.00059	0.23%
	QC value within limits for Cd 228.802	Recovery = 100.94%					
Co 228.616†	31471.9	0.4988 mg/L		0.00152	0.4988 mg/L	0.00152	0.30%
	QC value within limits for Co 228.616	Recovery = 99.76%					
Cr 267.716†	64131.8	0.4887 mg/L		0.00010	0.4887 mg/L	0.00010	0.02%
	QC value within limits for Cr 267.716	Recovery = 97.74%					
Cu 324.752†	114727.5	0.4917 mg/L		0.00065	0.4917 mg/L	0.00065	0.13%
	QC value within limits for Cu 324.752	Recovery = 98.34%					
Fe 234.349†	4823.8	2.384 mg/L		0.0068	2.384 mg/L	0.0068	0.29%
	QC value within limits for Fe 234.349	Recovery = 95.35%					
K 766.490†	55894.1	24.01 mg/L		0.044	24.01 mg/L	0.044	0.18%
	QC value within limits for K 766.490	Recovery = 96.05%					
Li 670.784†	20896.2	0.4926 mg/L		0.00206	0.4926 mg/L	0.00206	0.42%
	QC value within limits for Li 670.784	Recovery = 98.52%					
Mg 279.077†	75282.6	4.887 mg/L		0.0093	4.887 mg/L	0.0093	0.19%
	QC value within limits for Mg 279.077	Recovery = 97.74%					
Mn 257.610†	463502.3	0.4980 mg/L		0.00013	0.4980 mg/L	0.00013	0.03%
	QC value within limits for Mn 257.610	Recovery = 99.60%					
Mn 294.920†	230738.7	0.4920 mg/L		0.00027	0.4920 mg/L	0.00027	0.05%
	QC value within limits for Mn 294.920	Recovery = 98.40%					
Mo 202.031†	13009.6	0.4884 mg/L		0.00197	0.4884 mg/L	0.00197	0.40%
	QC value within limits for Mo 202.031	Recovery = 97.68%					
Na 589.592†	182518.0	24.54 mg/L		0.005	24.54 mg/L	0.005	0.02%
	QC value within limits for Na 589.592	Recovery = 98.17%					
Ni 231.604†	26645.7	0.4960 mg/L		0.00057	0.4960 mg/L	0.00057	0.12%
	QC value within limits for Ni 231.604	Recovery = 99.21%					
P 214.914†	9014.6	4.767 mg/L		0.0272	4.767 mg/L	0.0272	0.57%
	QC value within limits for P 214.914	Recovery = 95.34%					
Pb 220.353†	8415.1	0.4951 mg/L		0.00135	0.4951 mg/L	0.00135	0.27%
	QC value within limits for Pb 220.353	Recovery = 99.02%					
Sb 206.836†	1184.2	0.4886 mg/L		0.00121	0.4886 mg/L	0.00121	0.25%
	QC value within limits for Sb 206.836	Recovery = 97.72%					
Se 196.026†	1733.4	0.9641 mg/L		0.00919	0.9641 mg/L	0.00919	0.95%
	QC value within limits for Se 196.026	Recovery = 96.41%					
Sn 189.927†	4027.9	0.4992 mg/L		0.00197	0.4992 mg/L	0.00197	0.39%
	QC value within limits for Sn 189.927	Recovery = 99.85%					
Sr 407.771†	55224.2	0.0470 mg/L		0.00001	0.0470 mg/L	0.00001	0.03%
	QC value within limits for Sr 407.771	Recovery = 94.09%					
Ti 337.279†	475696.7	0.4904 mg/L		0.00000	0.4904 mg/L	0.00000	0.00%

QC value within limits for Ti 337.279 Recovery = 98.08%
 Tl 190.801† 650.3 0.4861 mg/L 0.00017 0.4861 mg/L 0.00017 0.03%
 QC value within limits for Tl 190.801 Recovery = 97.22%
 V 292.402† 125987.6 0.5025 mg/L 0.00121 0.5025 mg/L 0.00121 0.24%
 QC value within limits for V 292.402 Recovery = 100.50%
 Zn 213.857† 80838.8 0.4929 mg/L 0.00009 0.4929 mg/L 0.00009 0.02%
 QC value within limits for Zn 213.857 Recovery = 98.58%
 All analyte(s) passed QC.

Sequence No.: 136 Autosampler Location: 1
 Sample ID: CCB1 Date Collected: 6/26/2013 12:36:06 AM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:57:41 AM
 Logged In Analyst (Original) : ICP3
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3280373.5	3280373.5	0.970	mg/L			00:38:12
1	Ag 328.068†	669.3	-46.9	0.0004	mg/L	0.0004	mg/L	00:38:15
1	Al 237.313†	-400.2	-25.1	0.0048	mg/L	0.0048	mg/L	00:38:15
1	As 188.979†	-1.0	-2.0	0.0014	mg/L	0.0014	mg/L	00:38:25
1	B 249.677†	-2.8	12.3	0.0075	mg/L	0.0075	mg/L	00:37:56
1	B 182.528†	-1.4	5.5	0.0084	mg/L	0.0084	mg/L	00:38:25
1	Ba 233.527†	-57.5	28.5	0.0008	mg/L	0.0008	mg/L	00:38:25
1	Be 313.107†	-1291.8	101.3	0.0002	mg/L	0.0002	mg/L	00:38:15
1	Ca 315.887†	-1050.9	-365.3	0.0050	mg/L	0.0050	mg/L	00:38:15
1	Cd 228.802†	143.5	0.5	0.0015	mg/L	0.0015	mg/L	00:38:25
1	Co 228.616†	-145.1	28.4	-0.0016	mg/L	-0.0016	mg/L	00:38:25
1	Cr 267.716†	503.8	-191.5	-0.0009	mg/L	-0.0009	mg/L	00:38:15
1	Cu 324.752†	3866.7	28.9	0.0014	mg/L	0.0014	mg/L	00:38:15
1	Fe 234.349†	-6.5	-5.0	0.0081	mg/L	0.0081	mg/L	00:37:56
1	K 766.490†	606.9	-119.5	0.0924	mg/L	0.0924	mg/L	00:37:46
1	Li 670.784†	-190.1	76.7	0.0037	mg/L	0.0037	mg/L	00:37:46
1	Mg 279.077†	242.9	-37.5	-0.0044	mg/L	-0.0044	mg/L	00:38:15
1	Mn 257.610†	15929.3	364.5	0.0003	mg/L	0.0003	mg/L	00:38:15
1	Mn 294.920†	-567.7	55.4	-0.0001	mg/L	-0.0001	mg/L	00:38:15
1	Mo 202.031†	-14.7	-4.7	0.0026	mg/L	0.0026	mg/L	00:38:25
1	Na 589.592†	4949.9	875.5	0.2044	mg/L	0.2044	mg/L	00:37:46
1	Ni 231.604†	166.6	-5.5	-0.0006	mg/L	-0.0006	mg/L	00:38:15
1	P 214.914†	-50.5	-6.1	0.0453	mg/L	0.0453	mg/L	00:38:25
1	Pb 220.353†	142.8	-36.0	-0.0002	mg/L	-0.0002	mg/L	00:38:25
1	Sb 206.836†	41.3	-2.2	0.0035	mg/L	0.0035	mg/L	00:38:25
1	Se 196.026†	15.9	-0.5	0.0042	mg/L	0.0042	mg/L	00:38:25
1	Sn 189.927†	54.1	18.3	0.0038	mg/L	0.0038	mg/L	00:38:25
1	Sr 407.771†	259.1	21.5	0.0003	mg/L	0.0003	mg/L	00:37:46
1	Ti 337.279†	-1876.6	-636.4	0.0021	mg/L	0.0021	mg/L	00:38:15
1	Tl 190.801†	-7.3	-0.4	-0.0007	mg/L	-0.0007	mg/L	00:38:25
1	V 292.402†	-921.8	-48.2	0.0021	mg/L	0.0021	mg/L	00:38:15
1	Zn 213.857†	948.9	108.7	0.0012	mg/L	0.0012	mg/L	00:38:25
2	Y 371.029	3204030.2	3204030.2	0.948	mg/L			00:38:27
2	Ag 328.068†	795.2	102.4	0.0011	mg/L	0.0011	mg/L	00:38:29
2	Al 237.313†	-325.7	43.7	0.0111	mg/L	0.0111	mg/L	00:38:29
2	As 188.979†	-1.3	-2.4	0.0012	mg/L	0.0012	mg/L	00:38:40
2	B 249.677†	-13.1	1.4	0.0031	mg/L	0.0031	mg/L	00:38:09
2	B 182.528†	-4.5	2.2	0.0057	mg/L	0.0057	mg/L	00:38:40
2	Ba 233.527†	-44.8	40.4	0.0009	mg/L	0.0009	mg/L	00:38:40
2	Be 313.107†	-1208.0	157.9	0.0003	mg/L	0.0003	mg/L	00:38:29
2	Ca 315.887†	-1081.4	-423.3	0.0045	mg/L	0.0045	mg/L	00:38:29
2	Cd 228.802†	148.9	9.6	0.0018	mg/L	0.0018	mg/L	00:38:40
2	Co 228.616†	-172.5	-4.1	-0.0021	mg/L	-0.0021	mg/L	00:38:40
2	Cr 267.716†	522.9	-159.0	-0.0007	mg/L	-0.0007	mg/L	00:38:29
2	Cu 324.752†	3816.2	70.5	0.0016	mg/L	0.0016	mg/L	00:38:29
2	Fe 234.349†	-1.0	0.7	0.0109	mg/L	0.0109	mg/L	00:38:09
2	K 766.490†	568.0	-145.7	0.0812	mg/L	0.0812	mg/L	00:37:59
2	Li 670.784†	-209.3	51.7	0.0031	mg/L	0.0031	mg/L	00:37:59
2	Mg 279.077†	222.0	-53.6	-0.0055	mg/L	-0.0055	mg/L	00:38:29
2	Mn 257.610†	15674.8	487.2	0.0005	mg/L	0.0005	mg/L	00:38:29
2	Mn 294.920†	-801.1	-204.8	-0.0006	mg/L	-0.0006	mg/L	00:38:29
2	Mo 202.031†	-14.2	-4.6	0.0026	mg/L	0.0026	mg/L	00:38:40

2	Na 589.592†	4837.1	878.1	0.2048 mg/L	0.2048 mg/L	00:37:59
2	Ni 231.604†	156.6	-11.9	-0.0007 mg/L	-0.0007 mg/L	00:38:29
2	P 214.914†	-42.1	1.6	0.0494 mg/L	0.0494 mg/L	00:38:40
2	Pb 220.353†	158.0	-16.3	0.0010 mg/L	0.0010 mg/L	00:38:40
2	Sb 206.836†	37.5	-5.3	0.0022 mg/L	0.0022 mg/L	00:38:40
2	Se 196.026†	16.2	0.3	0.0046 mg/L	0.0046 mg/L	00:38:40
2	Sn 189.927†	38.8	3.5	0.0020 mg/L	0.0020 mg/L	00:38:40
2	Sr 407.771†	202.7	-31.7	0.0003 mg/L	0.0003 mg/L	00:37:59
2	Ti 337.279†	-1385.5	-164.2	0.0026 mg/L	0.0026 mg/L	00:38:29
2	Tl 190.801†	-13.7	-7.3	-0.0059 mg/L	-0.0059 mg/L	00:38:40
2	V 292.402†	-997.8	-151.1	0.0017 mg/L	0.0017 mg/L	00:38:29
2	Zn 213.857†	959.3	142.9	0.0014 mg/L	0.0014 mg/L	00:38:40

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3242201.9	0.959 mg/L		0.0160				1.67%
Ag 328.068†	27.7	0.0008 mg/L		0.00051	0.0008 mg/L		0.00051	64.66%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	9.3	0.0079 mg/L		0.00446	0.0079 mg/L		0.00446	56.15%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-2.2	0.0013 mg/L		0.00016	0.0013 mg/L		0.00016	12.31%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	6.8	0.0053 mg/L		0.00314	0.0053 mg/L		0.00314	59.12%
QC value within limits for B 249.677 Recovery = Not calculated								
B 182.528†	3.8	0.0070 mg/L		0.00191	0.0070 mg/L		0.00191	27.13%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	34.5	0.0009 mg/L		0.00006	0.0009 mg/L		0.00006	7.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	129.6	0.0003 mg/L		0.00001	0.0003 mg/L		0.00001	5.43%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-394.3	0.0048 mg/L		0.00037	0.0048 mg/L		0.00037	7.77%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	5.1	0.0016 mg/L		0.00017	0.0016 mg/L		0.00017	10.60%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated								
Co 228.616†	12.1	-0.0019 mg/L		0.00037	-0.0019 mg/L		0.00037	19.50%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-175.3	-0.0008 mg/L		0.00017	-0.0008 mg/L		0.00017	21.16%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	49.7	0.0015 mg/L		0.00013	0.0015 mg/L		0.00013	8.26%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	-2.2	0.0095 mg/L		0.00198	0.0095 mg/L		0.00198	20.85%
QC value within limits for Fe 234.349 Recovery = Not calculated								
K 766.490†	-132.6	0.0868 mg/L		0.00790	0.0868 mg/L		0.00790	9.10%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	64.2	0.0034 mg/L		0.00041	0.0034 mg/L		0.00041	12.19%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-45.6	-0.0050 mg/L		0.00074	-0.0050 mg/L		0.00074	14.86%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	425.8	0.0004 mg/L		0.00009	0.0004 mg/L		0.00009	23.67%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 294.920†	-74.7	-0.0003 mg/L		0.00039	-0.0003 mg/L		0.00039	118.42%
QC value within limits for Mn 294.920 Recovery = Not calculated								
Mo 202.031†	-4.6	0.0026 mg/L		0.00000	0.0026 mg/L		0.00000	0.13%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated								
Na 589.592†	876.8	0.2046 mg/L		0.00025	0.2046 mg/L		0.00025	0.12%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-8.7	-0.0007 mg/L		0.00008	-0.0007 mg/L		0.00008	12.30%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-2.2	0.0473 mg/L		0.00285	0.0473 mg/L		0.00285	6.02%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated								
Pb 220.353†	-26.1	0.0004 mg/L		0.00081	0.0004 mg/L		0.00081	202.16%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.7	0.0028 mg/L		0.00088	0.0028 mg/L		0.00088	31.00%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.1	0.0044 mg/L		0.00031	0.0044 mg/L		0.00031	7.09%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	10.9	0.0029 mg/L		0.00129	0.0029 mg/L		0.00129	44.05%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	-5.1	0.0003 mg/L		0.00003	0.0003 mg/L		0.00003	10.82%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	-400.3	0.0024 mg/L		0.00034	0.0024 mg/L		0.00034	14.42%

QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated
 Tl 190.801† -3.9 -0.0033 mg/L 0.00369 -0.0033 mg/L 0.00369 112.80%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† -99.7 0.0019 mg/L 0.00028 0.0019 mg/L 0.00028 14.63%
 QC value greater than the upper limit for V 292.402 Recovery = Not calculated
 Zn 213.857† 125.8 0.0013 mg/L 0.00015 0.0013 mg/L 0.00015 11.87%
 QC value within limits for Zn 213.857 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 137 Autosampler Location: 96
 Sample ID: 1306375-01 @DIS Date Collected: 6/26/2013 12:40:17 AM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:57:41 AM
 Logged In Analyst (Original) : ICP3
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: 1306375-01 @DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2902465.5	2902465.5	0.858 mg/L			00:42:34
1	Ag 328.068†	583.7	-56.9	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	00:42:36
1	Al 237.313†	5722.5	7053.8	0.6538 mg/L	0.6538 mg/L	0.6538 mg/L	00:42:36
1	As 188.979†	10.9	11.7	0.0098 mg/L	0.0098 mg/L	0.0098 mg/L	00:42:46
1	B 249.677†	605.9	721.0	0.2968 mg/L	0.2968 mg/L	0.2968 mg/L	00:42:10
1	B 182.528†	256.1	305.3	0.2548 mg/L	0.2548 mg/L	0.2548 mg/L	00:42:36
1	Ba 233.527†	12332.2	14453.9	0.1102 mg/L	0.1102 mg/L	0.1102 mg/L	00:42:36
1	Be 313.107†	-1621.8	-456.6	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	00:42:36
1	Ca 315.887†	20166703.9	23493499.3	210.3 mg/L	210.3 mg/L	210.3 mg/L	00:42:31
1	Cd 228.802†	148.8	25.9	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	00:42:46
1	Co 228.616†	144.3	346.0	0.0034 mg/L	0.0034 mg/L	0.0034 mg/L	00:42:46
1	Cr 267.716†	833.6	260.3	0.0025 mg/L	0.0025 mg/L	0.0025 mg/L	00:42:36
1	Cu 324.752†	5698.5	2681.7	0.0128 mg/L	0.0128 mg/L	0.0128 mg/L	00:42:36
1	Fe 234.349†	4744.2	5528.3	2.402 mg/L	2.402 mg/L	2.402 mg/L	00:42:10
1	K 766.490†	54541.8	62792.3	26.96 mg/L	26.96 mg/L	26.96 mg/L	00:42:00
1	Li 670.784†	702.5	1091.0	0.0275 mg/L	0.0275 mg/L	0.0275 mg/L	00:42:00
1	Mg 279.077†	473492.0	551296.7	35.80 mg/L	35.80 mg/L	35.80 mg/L	00:42:34
1	Mn 257.610†	1843080.4	2131003.8	2.292 mg/L	2.292 mg/L	2.292 mg/L	00:42:34
1	Mn 294.920†	906910.1	1057126.6	2.255 mg/L	2.255 mg/L	2.255 mg/L	00:42:34
1	Mo 202.031†	679.3	801.8	0.0324 mg/L	0.0324 mg/L	0.0324 mg/L	00:42:46
1	Na 589.592†	5524006.5	6430849.8	861.8 mg/L	861.8 mg/L	861.8 mg/L	00:41:57
1	Ni 231.604†	468.3	368.4	0.0064 mg/L	0.0064 mg/L	0.0064 mg/L	00:42:46
1	P 214.914†	1086.6	1311.9	0.7359 mg/L	0.7359 mg/L	0.7359 mg/L	00:42:46
1	Pb 220.353†	476.2	371.6	0.0236 mg/L	0.0236 mg/L	0.0236 mg/L	00:42:46
1	Sb 206.836†	66.8	33.0	0.0170 mg/L	0.0170 mg/L	0.0170 mg/L	00:42:46
1	Se 196.026†	11.5	-3.5	0.0027 mg/L	0.0027 mg/L	0.0027 mg/L	00:42:46
1	Sn 189.927†	-805.3	-975.6	0.0118 mg/L	0.0118 mg/L	0.0118 mg/L	00:42:46
1	Sr 407.771†	1092417.7	1272343.6	1.077 mg/L	1.077 mg/L	1.077 mg/L	00:42:00
1	Ti 337.279†	25043.4	30471.7	0.0340 mg/L	0.0340 mg/L	0.0340 mg/L	00:42:36
1	Tl 190.801†	26.3	37.7	-0.0055 mg/L	-0.0055 mg/L	-0.0055 mg/L	00:42:46
1	V 292.402†	483.7	1465.4	0.0084 mg/L	0.0084 mg/L	0.0084 mg/L	00:42:36
1	Zn 213.857†	15221.0	16862.0	0.1039 mg/L	0.1039 mg/L	0.1039 mg/L	00:42:36
2	Y 371.029	2920060.9	2920060.9	0.864 mg/L			00:42:53
2	Ag 328.068†	519.0	-135.8	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	00:42:55
2	Al 237.313†	5757.7	7054.3	0.6538 mg/L	0.6538 mg/L	0.6538 mg/L	00:42:55
2	As 188.979†	8.7	9.0	0.0082 mg/L	0.0082 mg/L	0.0082 mg/L	00:43:05
2	B 249.677†	615.6	728.0	0.2997 mg/L	0.2997 mg/L	0.2997 mg/L	00:42:26
2	B 182.528†	250.5	297.0	0.2479 mg/L	0.2479 mg/L	0.2479 mg/L	00:42:55
2	Ba 233.527†	12405.7	14452.5	0.1102 mg/L	0.1102 mg/L	0.1102 mg/L	00:42:55
2	Be 313.107†	-1676.1	-508.0	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	00:42:55
2	Ca 315.887†	20401857.2	23624225.6	211.4 mg/L	211.4 mg/L	211.4 mg/L	00:42:50
2	Cd 228.802†	149.0	25.1	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	00:43:05
2	Co 228.616†	153.7	355.8	0.0035 mg/L	0.0035 mg/L	0.0035 mg/L	00:43:05
2	Cr 267.716†	836.5	257.8	0.0025 mg/L	0.0025 mg/L	0.0025 mg/L	00:42:55
2	Cu 324.752†	5659.6	2596.6	0.0124 mg/L	0.0124 mg/L	0.0124 mg/L	00:42:55
2	Fe 234.349†	4764.3	5518.2	2.395 mg/L	2.395 mg/L	2.395 mg/L	00:42:26
2	K 766.490†	54145.0	61949.9	26.60 mg/L	26.60 mg/L	26.60 mg/L	00:42:15
2	Li 670.784†	609.0	977.7	0.0249 mg/L	0.0249 mg/L	0.0249 mg/L	00:42:15
2	Mg 279.077†	476837.1	551846.4	35.84 mg/L	35.84 mg/L	35.84 mg/L	00:42:53
2	Mn 257.610†	1855813.7	2132810.4	2.294 mg/L	2.294 mg/L	2.294 mg/L	00:42:53
2	Mn 294.920†	913255.8	1058108.3	2.257 mg/L	2.257 mg/L	2.257 mg/L	00:42:53
2	Mo 202.031†	667.1	782.8	0.0317 mg/L	0.0317 mg/L	0.0317 mg/L	00:43:05

2	Na 589.592†	5533944.5	6403581.3	858.1 mg/L	858.1 mg/L	00:42:13
2	Ni 231.604†	463.7	359.8	0.0062 mg/L	0.0062 mg/L	00:43:05
2	P 214.914†	1081.5	1298.4	0.7289 mg/L	0.7289 mg/L	00:43:05
2	Pb 220.353†	431.6	316.6	0.0204 mg/L	0.0204 mg/L	00:43:05
2	Sb 206.836†	51.8	15.2	0.0097 mg/L	0.0097 mg/L	00:43:05
2	Se 196.026†	1.9	-14.7	-0.0035 mg/L	-0.0035 mg/L	00:43:05
2	Sn 189.927†	-829.7	-998.2	0.0097 mg/L	0.0097 mg/L	00:43:05
2	Sr 407.771†	1079844.2	1250116.4	1.058 mg/L	1.058 mg/L	00:42:15
2	Ti 337.279†	24950.2	30188.0	0.0337 mg/L	0.0337 mg/L	00:42:55
2	Tl 190.801†	25.1	36.2	-0.0068 mg/L	-0.0068 mg/L	00:43:05
2	V 292.402†	381.3	1343.4	0.0079 mg/L	0.0079 mg/L	00:42:55
2	Zn 213.857†	15306.5	16854.2	0.1038 mg/L	0.1038 mg/L	00:42:55

Mean Data: 1306375-01 @DIS

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2911263.2	0.861 mg/L		0.0037			0.43%
Ag 328.068†	-96.4	0.0003 mg/L		0.00027	0.0003 mg/L	0.00027	104.11%
Al 237.313†	7054.1	0.6538 mg/L		0.00004	0.6538 mg/L	0.00004	0.01%
As 188.979†	10.4	0.0090 mg/L		0.00115	0.0090 mg/L	0.00115	12.81%
B 249.677†	724.5	0.2982 mg/L		0.00202	0.2982 mg/L	0.00202	0.68%
B 182.528†	301.2	0.2513 mg/L		0.00486	0.2513 mg/L	0.00486	1.93%
Ba 233.527†	14453.2	0.1102 mg/L		0.00001	0.1102 mg/L	0.00001	0.01%
Be 313.107†	-482.3	0.0000 mg/L		0.00001	0.0000 mg/L	0.00001	35.45%
Ca 315.887†	23558862.4	210.9 mg/L		0.83	210.9 mg/L	0.83	0.39%
Cd 228.802†	25.5	0.0021 mg/L		0.00001	0.0021 mg/L	0.00001	0.70%
Co 228.616†	350.9	0.0035 mg/L		0.00011	0.0035 mg/L	0.00011	3.21%
Cr 267.716†	259.0	0.0025 mg/L		0.00001	0.0025 mg/L	0.00001	0.56%
Cu 324.752†	2639.1	0.0126 mg/L		0.00026	0.0126 mg/L	0.00026	2.04%
Fe 234.349†	5523.3	2.399 mg/L		0.0049	2.399 mg/L	0.0049	0.20%
K 766.490†	62371.1	26.78 mg/L		0.254	26.78 mg/L	0.254	0.95%
Li 670.784†	1034.4	0.0262 mg/L		0.00188	0.0262 mg/L	0.00188	7.18%
Mg 279.077†	551571.6	35.82 mg/L		0.025	35.82 mg/L	0.025	0.07%
Mn 257.610†	2131907.1	2.293 mg/L		0.0014	2.293 mg/L	0.0014	0.06%
Mn 294.920†	1057617.5	2.256 mg/L		0.0015	2.256 mg/L	0.0015	0.07%
Mo 202.031†	792.3	0.0321 mg/L		0.00050	0.0321 mg/L	0.00050	1.56%
Na 589.592†	6417215.6	859.9 mg/L		2.58	859.9 mg/L	2.58	0.30%
Ni 231.604†	364.1	0.0063 mg/L		0.00011	0.0063 mg/L	0.00011	1.81%
P 214.914†	1305.1	0.7324 mg/L		0.00501	0.7324 mg/L	0.00501	0.68%
Pb 220.353†	344.1	0.0220 mg/L		0.00227	0.0220 mg/L	0.00227	10.34%
Sb 206.836†	24.1	0.0133 mg/L		0.00516	0.0133 mg/L	0.00516	38.72%
Se 196.026†	-9.1	-0.0004 mg/L		0.00440	-0.0004 mg/L	0.00440	>999.9%
Sn 189.927†	-986.9	0.0108 mg/L		0.00145	0.0108 mg/L	0.00145	13.48%
Sr 407.771†	1261230.0	1.068 mg/L		0.0133	1.068 mg/L	0.0133	1.25%
Ti 337.279†	30329.9	0.0339 mg/L		0.00021	0.0339 mg/L	0.00021	0.61%
Tl 190.801†	36.9	-0.0061 mg/L		0.00094	-0.0061 mg/L	0.00094	15.42%
V 292.402†	1404.4	0.0081 mg/L		0.00034	0.0081 mg/L	0.00034	4.23%
Zn 213.857†	16858.1	0.1039 mg/L		0.00003	0.1039 mg/L	0.00003	0.03%

Sequence No.: 138

Sample ID: 1306381-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 97

Date Collected: 6/26/2013 12:44:43 AM

Data Type: Reprocessed on 6/26/2013 10:57:42 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306381-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Y 371.029	3219524.0	3219524.0	0.952 mg/L			00:46:50
1	Ag 328.068†	616.3	-89.5	0.0003 mg/L		0.0003 mg/L	00:46:52
1	Al 237.313†	1826.4	2305.6	0.2185 mg/L		0.2185 mg/L	00:46:52
1	As 188.979†	2.4	1.5	0.0036 mg/L		0.0036 mg/L	00:47:02
1	B 249.677†	568.8	612.6	0.2526 mg/L		0.2526 mg/L	00:46:33
1	B 182.528†	294.8	316.6	0.2640 mg/L		0.2640 mg/L	00:47:02
1	Ba 233.527†	11243.3	11895.5	0.0908 mg/L		0.0908 mg/L	00:46:52
1	Be 313.107†	-1408.7	-46.7	0.0002 mg/L		0.0002 mg/L	00:46:52
1	Ca 315.887†	4629935.4	4863108.5	43.53 mg/L		43.53 mg/L	00:46:50
1	Cd 228.802†	180.8	42.4	0.0026 mg/L		0.0026 mg/L	00:47:02
1	Co 228.616†	128.3	312.7	0.0029 mg/L		0.0029 mg/L	00:47:02

1	Cr 267.716†	908.5	243.3	0.0024 mg/L	0.0024 mg/L	00:46:52
1	Cu 324.752†	12905.8	9597.0	0.0423 mg/L	0.0423 mg/L	00:46:52
1	Fe 234.349†	4565.5	4796.4	2.313 mg/L	2.313 mg/L	00:46:33
1	K 766.490†	26200.6	26771.0	11.58 mg/L	11.58 mg/L	00:46:23
1	Li 670.784†	507.4	805.5	0.0208 mg/L	0.0208 mg/L	00:46:23
1	Mg 279.077†	42195.1	44025.7	2.858 mg/L	2.858 mg/L	00:46:52
1	Mn 257.610†	857686.6	884694.2	0.9511 mg/L	0.9511 mg/L	00:46:50
1	Mn 294.920†	426996.1	449074.9	0.9577 mg/L	0.9577 mg/L	00:46:52
1	Mo 202.031†	910.8	967.0	0.0385 mg/L	0.0385 mg/L	00:47:02
1	Na 589.592†	342309.0	355268.8	47.69 mg/L	47.69 mg/L	00:46:23
1	Ni 231.604†	1832.0	1746.8	0.0320 mg/L	0.0320 mg/L	00:47:02
1	P 214.914†	1232.9	1340.8	0.7507 mg/L	0.7507 mg/L	00:47:02
1	Pb 220.353†	428.8	267.2	0.0176 mg/L	0.0176 mg/L	00:47:02
1	Sb 206.836†	49.9	7.6	0.0068 mg/L	0.0068 mg/L	00:47:02
1	Se 196.026†	3.2	-13.5	-0.0029 mg/L	-0.0029 mg/L	00:47:02
1	Sn 189.927†	-383.7	-440.5	-0.0256 mg/L	-0.0256 mg/L	00:47:02
1	Sr 407.771†	209175.7	219432.1	0.1860 mg/L	0.1860 mg/L	00:46:23
1	Ti 337.279†	2790.7	4228.7	0.0071 mg/L	0.0071 mg/L	00:46:52
1	Tl 190.801†	5.9	13.3	0.0020 mg/L	0.0020 mg/L	00:47:02
1	V 292.402†	-757.5	106.3	0.0031 mg/L	0.0031 mg/L	00:46:52
1	Zn 213.857†	45722.6	47148.8	0.2897 mg/L	0.2897 mg/L	00:46:52
2	Y 371.029	3203238.1	3203238.1	0.947 mg/L		00:47:05
2	Ag 328.068†	557.4	-148.5	0.0000 mg/L	0.0000 mg/L	00:47:08
2	Al 237.313†	1779.7	2266.0	0.2148 mg/L	0.2148 mg/L	00:47:08
2	As 188.979†	8.5	8.0	0.0075 mg/L	0.0075 mg/L	00:47:18
2	B 249.677†	577.7	625.0	0.2576 mg/L	0.2576 mg/L	00:46:45
2	B 182.528†	293.8	317.0	0.2644 mg/L	0.2644 mg/L	00:47:18
2	Ba 233.527†	11258.7	11971.9	0.0914 mg/L	0.0914 mg/L	00:47:08
2	Be 313.107†	-1354.1	3.4	0.0002 mg/L	0.0002 mg/L	00:47:08
2	Ca 315.887†	4607967.8	4864642.2	43.55 mg/L	43.55 mg/L	00:47:05
2	Cd 228.802†	180.1	42.6	0.0026 mg/L	0.0026 mg/L	00:47:18
2	Co 228.616†	139.3	325.0	0.0031 mg/L	0.0031 mg/L	00:47:18
2	Cr 267.716†	824.7	159.7	0.0018 mg/L	0.0018 mg/L	00:47:08
2	Cu 324.752†	12910.4	9670.8	0.0426 mg/L	0.0426 mg/L	00:47:08
2	Fe 234.349†	4581.2	4837.4	2.334 mg/L	2.334 mg/L	00:46:45
2	K 766.490†	26080.3	26783.9	11.58 mg/L	11.58 mg/L	00:46:35
2	Li 670.784†	598.3	904.2	0.0231 mg/L	0.0231 mg/L	00:46:35
2	Mg 279.077†	41707.7	43736.5	2.840 mg/L	2.840 mg/L	00:47:08
2	Mn 257.610†	854837.3	886266.3	0.9528 mg/L	0.9528 mg/L	00:47:05
2	Mn 294.920†	424923.1	449166.6	0.9579 mg/L	0.9579 mg/L	00:47:08
2	Mo 202.031†	927.9	989.9	0.0394 mg/L	0.0394 mg/L	00:47:18
2	Na 589.592†	339317.8	353939.2	47.51 mg/L	47.51 mg/L	00:46:35
2	Ni 231.604†	1819.8	1743.7	0.0320 mg/L	0.0320 mg/L	00:47:18
2	P 214.914†	1232.7	1347.2	0.7540 mg/L	0.7540 mg/L	00:47:18
2	Pb 220.353†	465.1	307.8	0.0200 mg/L	0.0200 mg/L	00:47:18
2	Sb 206.836†	55.4	13.6	0.0093 mg/L	0.0093 mg/L	00:47:18
2	Se 196.026†	4.1	-12.5	-0.0023 mg/L	-0.0023 mg/L	00:47:18
2	Sn 189.927†	-410.7	-471.0	-0.0293 mg/L	-0.0293 mg/L	00:47:18
2	Sr 407.771†	206673.8	217908.1	0.1848 mg/L	0.1848 mg/L	00:46:35
2	Ti 337.279†	2543.3	3982.5	0.0069 mg/L	0.0069 mg/L	00:47:08
2	Tl 190.801†	4.1	11.4	0.0005 mg/L	0.0005 mg/L	00:47:18
2	V 292.402†	-890.9	-38.5	0.0025 mg/L	0.0025 mg/L	00:47:08
2	Zn 213.857†	45548.4	47209.0	0.2901 mg/L	0.2901 mg/L	00:47:08

Mean Data: 1306381-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3211381.1	0.950 mg/L		0.0034			0.36%
Ag 328.068†	-119.0	0.0001 mg/L		0.00020	0.0001 mg/L	0.00020	143.64%
Al 237.313†	2285.8	0.2167 mg/L		0.00257	0.2167 mg/L	0.00257	1.18%
As 188.979†	4.7	0.0055 mg/L		0.00279	0.0055 mg/L	0.00279	50.50%
B 249.677†	618.8	0.2551 mg/L		0.00358	0.2551 mg/L	0.00358	1.40%
B 182.528†	316.8	0.2642 mg/L		0.00025	0.2642 mg/L	0.00025	0.09%
Ba 233.527†	11933.7	0.0911 mg/L		0.00041	0.0911 mg/L	0.00041	0.45%
Be 313.107†	-21.6	0.0002 mg/L		0.00001	0.0002 mg/L	0.00001	6.10%
Ca 315.887†	4863875.4	43.54 mg/L		0.010	43.54 mg/L	0.010	0.02%
Cd 228.802†	42.5	0.0026 mg/L		0.00000	0.0026 mg/L	0.00000	0.15%
Co 228.616†	318.8	0.0030 mg/L		0.00014	0.0030 mg/L	0.00014	4.62%
Cr 267.716†	201.5	0.0021 mg/L		0.00045	0.0021 mg/L	0.00045	21.70%
Cu 324.752†	9633.9	0.0425 mg/L		0.00022	0.0425 mg/L	0.00022	0.52%
Fe 234.349†	4816.9	2.324 mg/L		0.0143	2.324 mg/L	0.0143	0.62%
K 766.490†	26777.5	11.58 mg/L		0.004	11.58 mg/L	0.004	0.03%

Li 670.784†	854.8	0.0220 mg/L	0.00164	0.0220 mg/L	0.00164	7.46%
Mg 279.077†	43881.1	2.849 mg/L	0.0133	2.849 mg/L	0.0133	0.47%
Mn 257.610†	885480.2	0.9520 mg/L	0.00119	0.9520 mg/L	0.00119	0.13%
Mn 294.920†	449120.8	0.9578 mg/L	0.00014	0.9578 mg/L	0.00014	0.01%
Mo 202.031†	978.4	0.0389 mg/L	0.00060	0.0389 mg/L	0.00060	1.55%
Na 589.592†	354604.0	47.60 mg/L	0.126	47.60 mg/L	0.126	0.26%
Ni 231.604†	1745.3	0.0320 mg/L	0.00004	0.0320 mg/L	0.00004	0.13%
P 214.914†	1344.0	0.7524 mg/L	0.00233	0.7524 mg/L	0.00233	0.31%
Pb 220.353†	287.5	0.0188 mg/L	0.00168	0.0188 mg/L	0.00168	8.95%
Sb 206.836†	10.6	0.0080 mg/L	0.00174	0.0080 mg/L	0.00174	21.67%
Se 196.026†	-13.0	-0.0026 mg/L	0.00040	-0.0026 mg/L	0.00040	15.07%
Sn 189.927†	-455.7	-0.0275 mg/L	0.00265	-0.0275 mg/L	0.00265	9.63%
Sr 407.771†	218670.1	0.1854 mg/L	0.00091	0.1854 mg/L	0.00091	0.49%
Ti 337.279†	4105.6	0.0070 mg/L	0.00018	0.0070 mg/L	0.00018	2.55%
Tl 190.801†	12.4	0.0012 mg/L	0.00100	0.0012 mg/L	0.00100	80.42%
V 292.402†	33.9	0.0028 mg/L	0.00039	0.0028 mg/L	0.00039	13.96%
Zn 213.857†	47178.9	0.2899 mg/L	0.00026	0.2899 mg/L	0.00026	0.09%

Sequence No.: 139
Sample ID: CF32515-DUP1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 6/26/2013 12:48:56 AM
Data Type: Reprocessed on 6/26/2013 10:57:42 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3038228.2	3038228.2	0.899 mg/L		00:51:06
1	Ag 328.068†	645.5	-18.4	0.0006 mg/L	0.0006 mg/L	00:51:08
1	Al 237.313†	1778.4	2366.6	0.2241 mg/L	0.2241 mg/L	00:51:08
1	As 188.979†	6.2	5.8	0.0062 mg/L	0.0062 mg/L	00:51:18
1	B 249.677†	580.5	661.2	0.2724 mg/L	0.2724 mg/L	00:50:49
1	B 182.528†	293.8	333.9	0.2782 mg/L	0.2782 mg/L	00:51:18
1	Ba 233.527†	10977.2	12303.9	0.0939 mg/L	0.0939 mg/L	00:51:08
1	Be 313.107†	-1430.4	-159.1	0.0002 mg/L	0.0002 mg/L	00:51:08
1	Ca 315.887†	4637195.2	5161334.2	46.20 mg/L	46.20 mg/L	00:51:06
1	Cd 228.802†	177.2	49.7	0.0028 mg/L	0.0028 mg/L	00:51:18
1	Co 228.616†	105.2	295.0	0.0026 mg/L	0.0026 mg/L	00:51:18
1	Cr 267.716†	813.7	194.7	0.0020 mg/L	0.0020 mg/L	00:51:08
1	Cu 324.752†	12750.3	10232.8	0.0450 mg/L	0.0450 mg/L	00:51:08
1	Fe 234.349†	4689.9	5220.9	2.519 mg/L	2.519 mg/L	00:50:49
1	K 766.490†	26080.6	28279.3	12.22 mg/L	12.22 mg/L	00:50:39
1	Li 670.784†	608.3	949.6	0.0242 mg/L	0.0242 mg/L	00:50:39
1	Mg 279.077†	40941.7	45275.1	2.940 mg/L	2.940 mg/L	00:51:08
1	Mn 257.610†	858752.5	939629.6	1.010 mg/L	1.010 mg/L	00:51:06
1	Mn 294.920†	415533.7	463077.5	0.9876 mg/L	0.9876 mg/L	00:51:08
1	Mo 202.031†	918.9	1033.0	0.0410 mg/L	0.0410 mg/L	00:51:18
1	Na 589.592†	338415.9	372387.9	49.98 mg/L	49.98 mg/L	00:50:39
1	Ni 231.604†	1820.0	1848.3	0.0339 mg/L	0.0339 mg/L	00:51:18
1	P 214.914†	1497.9	1713.0	0.9458 mg/L	0.9458 mg/L	00:51:18
1	Pb 220.353†	449.7	317.3	0.0205 mg/L	0.0205 mg/L	00:51:18
1	Sb 206.836†	46.7	7.2	0.0066 mg/L	0.0066 mg/L	00:51:18
1	Se 196.026†	14.9	-0.3	0.0044 mg/L	0.0044 mg/L	00:51:18
1	Sn 189.927†	-403.9	-487.0	-0.0297 mg/L	-0.0297 mg/L	00:51:18
1	Sr 407.771†	210221.3	233704.3	0.1981 mg/L	0.1981 mg/L	00:50:39
1	Ti 337.279†	2583.4	4172.9	0.0071 mg/L	0.0071 mg/L	00:51:08
1	Tl 190.801†	6.2	14.0	0.0020 mg/L	0.0020 mg/L	00:51:18
1	V 292.402†	-703.8	118.7	0.0032 mg/L	0.0032 mg/L	00:51:08
1	Zn 213.857†	42569.3	46504.8	0.2858 mg/L	0.2858 mg/L	00:51:08
2	Y 371.029	3118686.7	3118686.7	0.922 mg/L		00:51:21
2	Ag 328.068†	701.7	24.0	0.0008 mg/L	0.0008 mg/L	00:51:23
2	Al 237.313†	1936.2	2486.6	0.2351 mg/L	0.2351 mg/L	00:51:23
2	As 188.979†	0.2	-0.8	0.0021 mg/L	0.0021 mg/L	00:51:34
2	B 249.677†	585.0	649.4	0.2676 mg/L	0.2676 mg/L	00:51:01
2	B 182.528†	293.2	324.8	0.2707 mg/L	0.2707 mg/L	00:51:34
2	Ba 233.527†	11125.9	12150.0	0.0927 mg/L	0.0927 mg/L	00:51:23
2	Be 313.107†	-1472.9	-164.1	0.0002 mg/L	0.0002 mg/L	00:51:23
2	Ca 315.887†	4560498.8	4945044.9	44.27 mg/L	44.27 mg/L	00:51:21
2	Cd 228.802†	183.7	51.7	0.0028 mg/L	0.0028 mg/L	00:51:34
2	Co 228.616†	133.5	322.7	0.0031 mg/L	0.0031 mg/L	00:51:34

2	Cr 267.716†	893.8	258.2	0.0025 mg/L	0.0025 mg/L	00:51:23
2	Cu 324.752†	12883.4	10011.0	0.0441 mg/L	0.0441 mg/L	00:51:23
2	Fe 234.349†	4668.5	5063.1	2.444 mg/L	2.444 mg/L	00:51:01
2	K 766.490†	25958.6	27398.3	11.84 mg/L	11.84 mg/L	00:50:51
2	Li 670.784†	560.1	879.8	0.0226 mg/L	0.0226 mg/L	00:50:51
2	Mg 279.077†	41943.1	45185.3	2.934 mg/L	2.934 mg/L	00:51:23
2	Mn 257.610†	846332.1	901508.3	0.9692 mg/L	0.9692 mg/L	00:51:21
2	Mn 294.920†	425092.1	461510.0	0.9842 mg/L	0.9842 mg/L	00:51:23
2	Mo 202.031†	889.9	975.2	0.0388 mg/L	0.0388 mg/L	00:51:34
2	Na 589.592†	336127.8	360191.1	48.35 mg/L	48.35 mg/L	00:50:51
2	Ni 231.604†	1829.1	1805.9	0.0331 mg/L	0.0331 mg/L	00:51:34
2	P 214.914†	1481.2	1652.0	0.9138 mg/L	0.9138 mg/L	00:51:34
2	Pb 220.353†	446.3	300.7	0.0195 mg/L	0.0195 mg/L	00:51:34
2	Sb 206.836†	45.2	4.2	0.0053 mg/L	0.0053 mg/L	00:51:34
2	Se 196.026†	4.7	-11.8	-0.0019 mg/L	-0.0019 mg/L	00:51:34
2	Sn 189.927†	-394.1	-464.7	-0.0281 mg/L	-0.0281 mg/L	00:51:34
2	Sr 407.771†	208543.7	225849.9	0.1915 mg/L	0.1915 mg/L	00:50:51
2	Ti 337.279†	2976.2	4524.6	0.0074 mg/L	0.0074 mg/L	00:51:23
2	Tl 190.801†	3.9	11.4	0.0003 mg/L	0.0003 mg/L	00:51:34
2	V 292.402†	-699.3	143.7	0.0033 mg/L	0.0033 mg/L	00:51:23
2	Zn 213.857†	43462.6	46251.2	0.2842 mg/L	0.2842 mg/L	00:51:23

Mean Data: CF32515-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3078457.4	0.910 mg/L	0.0168			1.85%
Ag 328.068†	2.8	0.0007 mg/L	0.00014	0.0007 mg/L	0.00014	19.59%
Al 237.313†	2426.6	0.2296 mg/L	0.00778	0.2296 mg/L	0.00778	3.39%
As 188.979†	2.5	0.0042 mg/L	0.00288	0.0042 mg/L	0.00288	69.13%
B 249.677†	655.3	0.2700 mg/L	0.00340	0.2700 mg/L	0.00340	1.26%
B 182.528†	329.3	0.2745 mg/L	0.00527	0.2745 mg/L	0.00527	1.92%
Ba 233.527†	12227.0	0.0933 mg/L	0.00082	0.0933 mg/L	0.00082	0.88%
Be 313.107†	-161.6	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.82%
Ca 315.887†	5053189.6	45.23 mg/L	1.369	45.23 mg/L	1.369	3.03%
Cd 228.802†	50.7	0.0028 mg/L	0.00004	0.0028 mg/L	0.00004	1.38%
Co 228.616†	308.8	0.0029 mg/L	0.00031	0.0029 mg/L	0.00031	10.88%
Cr 267.716†	226.5	0.0023 mg/L	0.00034	0.0023 mg/L	0.00034	15.07%
Cu 324.752†	10121.9	0.0445 mg/L	0.00067	0.0445 mg/L	0.00067	1.50%
Fe 234.349†	5142.0	2.482 mg/L	0.0530	2.482 mg/L	0.0530	2.13%
K 766.490†	27838.8	12.03 mg/L	0.266	12.03 mg/L	0.266	2.21%
Li 670.784†	914.7	0.0234 mg/L	0.00116	0.0234 mg/L	0.00116	4.95%
Mg 279.077†	45230.2	2.937 mg/L	0.0042	2.937 mg/L	0.0042	0.14%
Mn 257.610†	920568.9	0.9897 mg/L	0.02899	0.9897 mg/L	0.02899	2.93%
Mn 294.920†	462293.7	0.9859 mg/L	0.00236	0.9859 mg/L	0.00236	0.24%
Mo 202.031†	1004.1	0.0399 mg/L	0.00152	0.0399 mg/L	0.00152	3.82%
Na 589.592†	366289.5	49.17 mg/L	1.156	49.17 mg/L	1.156	2.35%
Ni 231.604†	1827.1	0.0335 mg/L	0.00056	0.0335 mg/L	0.00056	1.67%
P 214.914†	1682.5	0.9298 mg/L	0.02261	0.9298 mg/L	0.02261	2.43%
Pb 220.353†	309.0	0.0200 mg/L	0.00069	0.0200 mg/L	0.00069	3.45%
Sb 206.836†	5.7	0.0060 mg/L	0.00087	0.0060 mg/L	0.00087	14.54%
Se 196.026†	-6.0	0.0012 mg/L	0.00447	0.0012 mg/L	0.00447	359.54%
Sn 189.927†	-475.8	-0.0289 mg/L	0.00109	-0.0289 mg/L	0.00109	3.76%
Sr 407.771†	229777.1	0.1948 mg/L	0.00470	0.1948 mg/L	0.00470	2.41%
Ti 337.279†	4348.7	0.0072 mg/L	0.00025	0.0072 mg/L	0.00025	3.52%
Tl 190.801†	12.7	0.0012 mg/L	0.00119	0.0012 mg/L	0.00119	102.75%
V 292.402†	131.2	0.0032 mg/L	0.00005	0.0032 mg/L	0.00005	1.53%
Zn 213.857†	46378.0	0.2850 mg/L	0.00109	0.2850 mg/L	0.00109	0.38%

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Sequence No.: 140

Sample ID: CF32515-MS1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 6/26/2013 12:53:12 AM

Data Type: Reprocessed on 6/26/2013 10:57:43 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32515-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3188458.9	3188458.9	0.943 mg/L		00:55:04
1	Ag 328.068†	49911.1	52190.9	0.2514 mg/L	0.2514 mg/L	00:55:07

1	Al	237.313†	27654.0	29712.9	2.733	mg/L	2.733	mg/L	00:55:07
1	As	188.979†	778.7	824.8	0.5063	mg/L	0.5063	mg/L	00:55:17
1	B	249.677†	1686.9	1804.0	0.7396	mg/L	0.7396	mg/L	00:54:55
1	B	182.528†	864.2	923.4	0.7625	mg/L	0.7625	mg/L	00:55:17
1	Ba	233.527†	73033.1	77534.9	0.5884	mg/L	0.5884	mg/L	00:55:07
1	Be	313.107†	137758.2	147517.0	0.0521	mg/L	0.0521	mg/L	00:55:07
1	Ca	315.887†	5176583.7	5490170.0	49.15	mg/L	49.15	mg/L	00:55:04
1	Cd	228.802†	8989.1	9385.0	0.2524	mg/L	0.2524	mg/L	00:55:17
1	Co	228.616†	29475.3	31434.7	0.4982	mg/L	0.4982	mg/L	00:55:17
1	Cr	267.716†	63822.5	66969.1	0.5103	mg/L	0.5103	mg/L	00:55:07
1	Cu	324.752†	127543.8	131295.7	0.5625	mg/L	0.5625	mg/L	00:55:07
1	Fe	234.349†	9482.5	10057.3	4.902	mg/L	4.902	mg/L	00:54:55
1	K	766.490†	80442.0	84558.8	36.25	mg/L	36.25	mg/L	00:54:55
1	Li	670.784†	20737.1	22263.0	0.5247	mg/L	0.5247	mg/L	00:54:55
1	Mg	279.077†	113588.0	120165.3	7.803	mg/L	7.803	mg/L	00:55:07
1	Mn	257.610†	1291765.7	1353784.7	1.455	mg/L	1.455	mg/L	00:55:04
1	Mn	294.920†	642774.3	682263.6	1.455	mg/L	1.455	mg/L	00:55:07
1	Mo	202.031†	13377.4	14196.3	0.5322	mg/L	0.5322	mg/L	00:55:17
1	Na	589.592†	502830.9	528995.1	70.97	mg/L	70.97	mg/L	00:54:53
1	Ni	231.604†	27266.5	28737.3	0.5350	mg/L	0.5350	mg/L	00:55:07
1	P	214.914†	10421.2	11097.1	5.858	mg/L	5.858	mg/L	00:55:17
1	Pb	220.353†	8430.0	8756.4	0.5151	mg/L	0.5151	mg/L	00:55:17
1	Sb	206.836†	1214.8	1243.4	0.5120	mg/L	0.5120	mg/L	00:55:17
1	Se	196.026†	1719.8	1806.9	1.005	mg/L	1.005	mg/L	00:55:17
1	Sn	189.927†	3453.3	3624.5	0.4771	mg/L	0.4771	mg/L	00:55:17
1	Sr	407.771†	260063.5	275535.8	0.2335	mg/L	0.2335	mg/L	00:54:53
1	Ti	337.279†	472291.8	502134.6	0.5175	mg/L	0.5175	mg/L	00:55:07
1	Tl	190.801†	614.3	658.6	0.4843	mg/L	0.4843	mg/L	00:55:17
1	V	292.402†	123251.3	131602.3	0.5250	mg/L	0.5250	mg/L	00:55:07
1	Zn	213.857†	121568.5	128046.6	0.7824	mg/L	0.7824	mg/L	00:55:07
2	Y	371.029	3217020.5	3217020.5	0.951	mg/L			00:55:20
2	Ag	328.068†	49496.8	51285.6	0.2471	mg/L	0.2471	mg/L	00:55:22
2	Al	237.313†	27442.1	29229.8	2.689	mg/L	2.689	mg/L	00:55:22
2	As	188.979†	772.2	810.6	0.4977	mg/L	0.4977	mg/L	00:55:33
2	B	249.677†	1737.7	1841.6	0.7549	mg/L	0.7549	mg/L	00:54:59
2	B	182.528†	874.1	925.7	0.7644	mg/L	0.7644	mg/L	00:55:33
2	Ba	233.527†	72503.7	76290.9	0.5790	mg/L	0.5790	mg/L	00:55:22
2	Be	313.107†	136892.3	145309.9	0.0513	mg/L	0.0513	mg/L	00:55:22
2	Ca	315.887†	5214139.5	5480905.2	49.06	mg/L	49.06	mg/L	00:55:20
2	Cd	228.802†	9058.6	9373.4	0.2521	mg/L	0.2521	mg/L	00:55:33
2	Co	228.616†	29661.6	31352.9	0.4969	mg/L	0.4969	mg/L	00:55:33
2	Cr	267.716†	63175.8	65688.5	0.5006	mg/L	0.5006	mg/L	00:55:22
2	Cu	324.752†	126631.9	129136.5	0.5532	mg/L	0.5532	mg/L	00:55:22
2	Fe	234.349†	9587.6	10078.5	4.912	mg/L	4.912	mg/L	00:54:59
2	K	766.490†	80958.5	84344.2	36.16	mg/L	36.16	mg/L	00:54:59
2	Li	670.784†	20743.8	22074.8	0.5203	mg/L	0.5203	mg/L	00:54:59
2	Mg	279.077†	112492.6	117944.6	7.659	mg/L	7.659	mg/L	00:55:22
2	Mn	257.610†	1301869.9	1352242.6	1.453	mg/L	1.453	mg/L	00:55:20
2	Mn	294.920†	638312.1	671522.1	1.432	mg/L	1.432	mg/L	00:55:22
2	Mo	202.031†	13465.2	14162.7	0.5310	mg/L	0.5310	mg/L	00:55:33
2	Na	589.592†	503927.3	525413.4	70.49	mg/L	70.49	mg/L	00:54:57
2	Ni	231.604†	27106.8	28312.8	0.5271	mg/L	0.5271	mg/L	00:55:22
2	P	214.914†	10527.2	11110.4	5.865	mg/L	5.865	mg/L	00:55:33
2	Pb	220.353†	8450.2	8698.2	0.5117	mg/L	0.5117	mg/L	00:55:33
2	Sb	206.836†	1223.3	1240.9	0.5110	mg/L	0.5110	mg/L	00:55:33
2	Se	196.026†	1716.1	1786.8	0.9938	mg/L	0.9938	mg/L	00:55:33
2	Sn	189.927†	3497.4	3638.3	0.4787	mg/L	0.4787	mg/L	00:55:33
2	Sr	407.771†	260696.7	273752.9	0.2320	mg/L	0.2320	mg/L	00:54:57
2	Ti	337.279†	468000.6	493177.9	0.5083	mg/L	0.5083	mg/L	00:55:22
2	Tl	190.801†	619.8	658.6	0.4844	mg/L	0.4844	mg/L	00:55:33
2	V	292.402†	122433.4	129582.4	0.5170	mg/L	0.5170	mg/L	00:55:22
2	Zn	213.857†	120822.3	126117.7	0.7706	mg/L	0.7706	mg/L	00:55:22

Mean Data: CF32515-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3202739.7	0.947	mg/L	0.0060			0.63%
Ag 328.068†	51738.2	0.2493	mg/L	0.00307	0.2493	0.00307	1.23%
Al 237.313†	29471.3	2.711	mg/L	0.0313	2.711	0.0313	1.16%
As 188.979†	817.7	0.5020	mg/L	0.00614	0.5020	0.00614	1.22%
B 249.677†	1822.8	0.7472	mg/L	0.01083	0.7472	0.01083	1.45%
B 182.528†	924.5	0.7635	mg/L	0.00137	0.7635	0.00137	0.18%

Ba 233.527†	76912.9	0.5837 mg/L	0.00667	0.5837 mg/L	0.00667	1.14%
Be 313.107†	146413.5	0.0517 mg/L	0.00055	0.0517 mg/L	0.00055	1.06%
Ca 315.887†	5485537.6	49.11 mg/L	0.059	49.11 mg/L	0.059	0.12%
Cd 228.802†	9379.2	0.2523 mg/L	0.00022	0.2523 mg/L	0.00022	0.09%
Co 228.616†	31393.8	0.4975 mg/L	0.00091	0.4975 mg/L	0.00091	0.18%
Cr 267.716†	66328.8	0.5055 mg/L	0.00689	0.5055 mg/L	0.00689	1.36%
Cu 324.752†	130216.1	0.5579 mg/L	0.00653	0.5579 mg/L	0.00653	1.17%
Fe 234.349†	10067.9	4.907 mg/L	0.0076	4.907 mg/L	0.0076	0.15%
K 766.490†	84451.5	36.21 mg/L	0.065	36.21 mg/L	0.065	0.18%
Li 670.784†	22168.9	0.5225 mg/L	0.00312	0.5225 mg/L	0.00312	0.60%
Mg 279.077†	119054.9	7.731 mg/L	0.1020	7.731 mg/L	0.1020	1.32%
Mn 257.610†	1353013.6	1.454 mg/L	0.0012	1.454 mg/L	0.0012	0.08%
Mn 294.920†	676892.9	1.444 mg/L	0.0162	1.444 mg/L	0.0162	1.12%
Mo 202.031†	14179.5	0.5316 mg/L	0.00086	0.5316 mg/L	0.00086	0.16%
Na 589.592†	527204.3	70.73 mg/L	0.339	70.73 mg/L	0.339	0.48%
Ni 231.604†	28525.1	0.5311 mg/L	0.00559	0.5311 mg/L	0.00559	1.05%
P 214.914†	11103.8	5.861 mg/L	0.0050	5.861 mg/L	0.0050	0.08%
Pb 220.353†	8727.3	0.5134 mg/L	0.00240	0.5134 mg/L	0.00240	0.47%
Sb 206.836†	1242.1	0.5115 mg/L	0.00066	0.5115 mg/L	0.00066	0.13%
Se 196.026†	1796.9	0.9994 mg/L	0.00787	0.9994 mg/L	0.00787	0.79%
Sn 189.927†	3631.4	0.4779 mg/L	0.00117	0.4779 mg/L	0.00117	0.24%
Sr 407.771†	274644.4	0.2328 mg/L	0.00107	0.2328 mg/L	0.00107	0.46%
Ti 337.279†	497656.3	0.5129 mg/L	0.00649	0.5129 mg/L	0.00649	1.27%
Tl 190.801†	658.6	0.4844 mg/L	0.00003	0.4844 mg/L	0.00003	0.01%
V 292.402†	130592.4	0.5210 mg/L	0.00561	0.5210 mg/L	0.00561	1.08%
Zn 213.857†	127082.1	0.7765 mg/L	0.00833	0.7765 mg/L	0.00833	1.07%

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Sequence No.: 141                               Autosampler Location: 100
Sample ID: CF32515-SD1 @5                       Date Collected: 6/26/2013 12:57:11 AM
Analyst:                                          Data Type: Reprocessed on 6/26/2013 10:57:44 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: CF32515-SD1 @5
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Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3259002.2	3259002.2	0.964 mg/L			00:59:18
1	Ag 328.068†	655.4	-56.9	0.0004 mg/L		0.0004 mg/L	00:59:21
1	Al 237.313†	14.9	402.9	0.0440 mg/L		0.0440 mg/L	00:59:31
1	As 188.979†	4.6	3.7	0.0049 mg/L		0.0049 mg/L	00:59:31
1	B 249.677†	112.2	131.6	0.0562 mg/L		0.0562 mg/L	00:59:02
1	B 182.528†	57.1	66.3	0.0583 mg/L		0.0583 mg/L	00:59:31
1	Ba 233.527†	2305.2	2479.3	0.0194 mg/L		0.0194 mg/L	00:59:31
1	Be 313.107†	-1143.4	246.5	0.0003 mg/L		0.0003 mg/L	00:59:21
1	Ca 315.887†	931469.6	967103.9	8.664 mg/L		8.664 mg/L	00:59:18
1	Cd 228.802†	163.2	21.9	0.0021 mg/L		0.0021 mg/L	00:59:31
1	Co 228.616†	-102.5	71.6	-0.0009 mg/L		-0.0009 mg/L	00:59:31
1	Cr 267.716†	587.9	-100.9	-0.0003 mg/L		-0.0003 mg/L	00:59:21
1	Cu 324.752†	5779.3	2039.2	0.0100 mg/L		0.0100 mg/L	00:59:21
1	Fe 234.349†	920.3	956.5	0.4699 mg/L		0.4699 mg/L	00:59:02
1	K 766.490†	5778.6	5250.1	2.385 mg/L		2.385 mg/L	00:58:52
1	Li 670.784†	-190.8	74.6	0.0036 mg/L		0.0036 mg/L	00:58:52
1	Mg 279.077†	8737.2	8776.9	0.5683 mg/L		0.5683 mg/L	00:59:21
1	Mn 257.610†	191253.1	182368.1	0.1960 mg/L		0.1960 mg/L	00:59:21
1	Mn 294.920†	86082.9	89950.3	0.1917 mg/L		0.1917 mg/L	00:59:21
1	Mo 202.031†	183.9	201.2	0.0102 mg/L		0.0102 mg/L	00:59:31
1	Na 589.592†	71391.2	69840.9	9.445 mg/L		9.445 mg/L	00:58:52
1	Ni 231.604†	513.1	355.2	0.0061 mg/L		0.0061 mg/L	00:59:31
1	P 214.914†	208.5	262.3	0.1859 mg/L		0.1859 mg/L	00:59:31
1	Pb 220.353†	233.7	59.3	0.0054 mg/L		0.0054 mg/L	00:59:31
1	Sb 206.836†	27.9	-15.8	-0.0022 mg/L		-0.0022 mg/L	00:59:31
1	Se 196.026†	12.0	-4.4	0.0020 mg/L		0.0020 mg/L	00:59:31
1	Sn 189.927†	-101.0	-142.3	-0.0105 mg/L		-0.0105 mg/L	00:59:31
1	Sr 407.771†	41569.4	42882.0	0.0366 mg/L		0.0366 mg/L	00:58:52
1	Ti 337.279†	-328.6	957.0	0.0038 mg/L		0.0038 mg/L	00:59:21
1	Tl 190.801†	-0.4	6.7	0.0032 mg/L		0.0032 mg/L	00:59:31
1	V 292.402†	-936.8	-70.1	0.0021 mg/L		0.0021 mg/L	00:59:21
1	Zn 213.857†	9775.9	9272.9	0.0574 mg/L		0.0574 mg/L	00:59:31
2	Y 371.029	3225947.5	3225947.5	0.954 mg/L			00:59:33
2	Ag 328.068†	725.6	23.8	0.0008 mg/L		0.0008 mg/L	00:59:35

2	Al	237.313†	10.8	398.8	0.0437	mg/L	0.0437	mg/L	00:59:46
2	As	188.979†	7.0	6.3	0.0065	mg/L	0.0065	mg/L	00:59:46
2	B	249.677†	114.0	134.7	0.0575	mg/L	0.0575	mg/L	00:59:14
2	B	182.528†	60.9	70.8	0.0620	mg/L	0.0620	mg/L	00:59:46
2	Ba	233.527†	2294.9	2493.0	0.0195	mg/L	0.0195	mg/L	00:59:46
2	Be	313.107†	-1189.7	185.8	0.0003	mg/L	0.0003	mg/L	00:59:35
2	Ca	315.887†	919263.9	964213.0	8.638	mg/L	8.638	mg/L	00:59:33
2	Cd	228.802†	157.3	17.4	0.0020	mg/L	0.0020	mg/L	00:59:46
2	Co	228.616†	-119.5	52.6	-0.0012	mg/L	-0.0012	mg/L	00:59:46
2	Cr	267.716†	615.6	-65.6	0.0000	mg/L	0.0000	mg/L	00:59:35
2	Cu	324.752†	5697.1	2014.6	0.0099	mg/L	0.0099	mg/L	00:59:35
2	Fe	234.349†	921.7	967.7	0.4755	mg/L	0.4755	mg/L	00:59:14
2	K	766.490†	5707.4	5236.9	2.380	mg/L	2.380	mg/L	00:59:04
2	Li	670.784†	-239.7	21.4	0.0024	mg/L	0.0024	mg/L	00:59:04
2	Mg	279.077†	8650.2	8778.6	0.5684	mg/L	0.5684	mg/L	00:59:35
2	Mn	257.610†	190039.2	183128.8	0.1968	mg/L	0.1968	mg/L	00:59:35
2	Mn	294.920†	85581.2	90339.6	0.1925	mg/L	0.1925	mg/L	00:59:35
2	Mo	202.031†	196.8	216.7	0.0108	mg/L	0.0108	mg/L	00:59:46
2	Na	589.592†	72025.0	71264.1	9.636	mg/L	9.636	mg/L	00:59:04
2	Ni	231.604†	506.2	353.4	0.0061	mg/L	0.0061	mg/L	00:59:46
2	P	214.914†	203.8	259.7	0.1845	mg/L	0.1845	mg/L	00:59:46
2	Pb	220.353†	254.3	83.4	0.0068	mg/L	0.0068	mg/L	00:59:46
2	Sb	206.836†	41.0	-1.9	0.0035	mg/L	0.0035	mg/L	00:59:46
2	Se	196.026†	17.9	1.9	0.0055	mg/L	0.0055	mg/L	00:59:46
2	Sn	189.927†	-88.2	-129.9	-0.0090	mg/L	-0.0090	mg/L	00:59:46
2	Sr	407.771†	41972.3	43746.2	0.0373	mg/L	0.0373	mg/L	00:59:04
2	Ti	337.279†	-231.9	1054.8	0.0039	mg/L	0.0039	mg/L	00:59:35
2	Tl	190.801†	4.6	11.9	0.0071	mg/L	0.0071	mg/L	00:59:46
2	V	292.402†	-819.8	42.6	0.0026	mg/L	0.0026	mg/L	00:59:35
2	Zn	213.857†	9823.3	9426.6	0.0583	mg/L	0.0583	mg/L	00:59:46

Mean Data: CF32515-SD1 @5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3242474.9	0.959	mg/L	0.0069				0.72%
Ag 328.068†	-16.5	0.0006	mg/L	0.00027	0.0006	mg/L	0.00027	46.95%
Al 237.313†	400.8	0.0438	mg/L	0.00026	0.0438	mg/L	0.00026	0.60%
As 188.979†	5.0	0.0057	mg/L	0.00115	0.0057	mg/L	0.00115	20.06%
B 249.677†	133.1	0.0569	mg/L	0.00088	0.0569	mg/L	0.00088	1.54%
B 182.528†	68.5	0.0602	mg/L	0.00262	0.0602	mg/L	0.00262	4.36%
Ba 233.527†	2486.2	0.0194	mg/L	0.00007	0.0194	mg/L	0.00007	0.38%
Be 313.107†	216.2	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	5.23%
Ca 315.887†	965658.5	8.651	mg/L	0.0183	8.651	mg/L	0.0183	0.21%
Cd 228.802†	19.7	0.0020	mg/L	0.00009	0.0020	mg/L	0.00009	4.23%
Co 228.616†	62.1	-0.0011	mg/L	0.00021	-0.0011	mg/L	0.00021	19.74%
Cr 267.716†	-83.3	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	158.40%
Cu 324.752†	2026.9	0.0100	mg/L	0.00007	0.0100	mg/L	0.00007	0.75%
Fe 234.349†	962.1	0.4727	mg/L	0.00396	0.4727	mg/L	0.00396	0.84%
K 766.490†	5243.5	2.383	mg/L	0.0040	2.383	mg/L	0.0040	0.17%
Li 670.784†	48.0	0.0030	mg/L	0.00088	0.0030	mg/L	0.00088	29.24%
Mg 279.077†	8777.7	0.5683	mg/L	0.00008	0.5683	mg/L	0.00008	0.01%
Mn 257.610†	182748.4	0.1964	mg/L	0.00058	0.1964	mg/L	0.00058	0.29%
Mn 294.920†	90145.0	0.1921	mg/L	0.00059	0.1921	mg/L	0.00059	0.31%
Mo 202.031†	208.9	0.0105	mg/L	0.00041	0.0105	mg/L	0.00041	3.90%
Na 589.592†	70552.5	9.540	mg/L	0.1348	9.540	mg/L	0.1348	1.41%
Ni 231.604†	354.3	0.0061	mg/L	0.00002	0.0061	mg/L	0.00002	0.38%
P 214.914†	261.0	0.1852	mg/L	0.00099	0.1852	mg/L	0.00099	0.53%
Pb 220.353†	71.4	0.0061	mg/L	0.00100	0.0061	mg/L	0.00100	16.31%
Sb 206.836†	-8.8	0.0006	mg/L	0.00403	0.0006	mg/L	0.00403	643.25%
Se 196.026†	-1.2	0.0038	mg/L	0.00250	0.0038	mg/L	0.00250	66.15%
Sn 189.927†	-136.1	-0.0098	mg/L	0.00106	-0.0098	mg/L	0.00106	10.82%
Sr 407.771†	43314.1	0.0370	mg/L	0.00052	0.0370	mg/L	0.00052	1.40%
Ti 337.279†	1005.9	0.0038	mg/L	0.00007	0.0038	mg/L	0.00007	1.86%
Tl 190.801†	9.3	0.0051	mg/L	0.00275	0.0051	mg/L	0.00275	53.68%
V 292.402†	-13.8	0.0024	mg/L	0.00032	0.0024	mg/L	0.00032	13.46%
Zn 213.857†	9349.8	0.0578	mg/L	0.00067	0.0578	mg/L	0.00067	1.15%

Sequence No.: 142
Sample ID: CF32515-PDS1
Analyst:
Logged In Analyst (Original) : ICP3

Autosampler Location: 101
Date Collected: 6/26/2013 1:01:25 AM
Data Type: Reprocessed on 6/26/2013 10:57:44 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3199474.9	3199474.9	0.946	mg/L			01:03:21
1	Ag 328.068†	48546.6	50566.6	0.2436	mg/L	0.2436	mg/L	01:03:23
1	Al 237.313†	26634.9	28534.8	2.625	mg/L	2.625	mg/L	01:03:23
1	As 188.979†	766.4	808.9	0.4967	mg/L	0.4967	mg/L	01:03:34
1	B 249.677†	1649.2	1758.1	0.7208	mg/L	0.7208	mg/L	01:03:12
1	B 182.528†	874.1	930.7	0.7685	mg/L	0.7685	mg/L	01:03:34
1	Ba 233.527†	71214.0	75345.9	0.5718	mg/L	0.5718	mg/L	01:03:23
1	Be 313.107†	133394.3	142402.3	0.0503	mg/L	0.0503	mg/L	01:03:23
1	Ca 315.887†	5121845.3	5413422.7	48.46	mg/L	48.46	mg/L	01:03:21
1	Cd 228.802†	8952.2	9313.2	0.2505	mg/L	0.2505	mg/L	01:03:34
1	Co 228.616†	29365.4	31210.9	0.4947	mg/L	0.4947	mg/L	01:03:34
1	Cr 267.716†	62132.3	64949.9	0.4950	mg/L	0.4950	mg/L	01:03:23
1	Cu 324.752†	123580.5	126641.7	0.5426	mg/L	0.5426	mg/L	01:03:23
1	Fe 234.349†	9099.2	9617.6	4.685	mg/L	4.685	mg/L	01:03:12
1	K 766.490†	78562.1	82278.4	35.28	mg/L	35.28	mg/L	01:03:10
1	Li 670.784†	20207.5	21627.7	0.5098	mg/L	0.5098	mg/L	01:03:12
1	Mg 279.077†	110159.7	116127.6	7.541	mg/L	7.541	mg/L	01:03:23
1	Mn 257.610†	1274027.1	1330322.4	1.430	mg/L	1.430	mg/L	01:03:21
1	Mn 294.920†	627726.0	664013.9	1.416	mg/L	1.416	mg/L	01:03:23
1	Mo 202.031†	13355.5	14124.4	0.5296	mg/L	0.5296	mg/L	01:03:34
1	Na 589.592†	493011.7	516782.4	69.33	mg/L	69.33	mg/L	01:03:10
1	Ni 231.604†	26459.7	27785.1	0.5173	mg/L	0.5173	mg/L	01:03:23
1	P 214.914†	10250.0	10878.1	5.743	mg/L	5.743	mg/L	01:03:34
1	Pb 220.353†	8411.3	8705.8	0.5121	mg/L	0.5121	mg/L	01:03:34
1	Sb 206.836†	1231.8	1257.0	0.5177	mg/L	0.5177	mg/L	01:03:34
1	Se 196.026†	1704.8	1784.8	0.9927	mg/L	0.9927	mg/L	01:03:34
1	Sn 189.927†	3459.4	3618.3	0.4759	mg/L	0.4759	mg/L	01:03:34
1	Sr 407.771†	255671.4	269944.8	0.2288	mg/L	0.2288	mg/L	01:03:10
1	Ti 337.279†	444491.5	471031.2	0.4856	mg/L	0.4856	mg/L	01:03:23
1	Tl 190.801†	604.0	645.4	0.4747	mg/L	0.4747	mg/L	01:03:34
1	V 292.402†	120145.2	127869.8	0.5103	mg/L	0.5103	mg/L	01:03:23
1	Zn 213.857†	119106.1	125000.5	0.7639	mg/L	0.7639	mg/L	01:03:23
2	Y 371.029	3142673.0	3142673.0	0.929	mg/L			01:03:37
2	Ag 328.068†	49252.9	52253.8	0.2517	mg/L	0.2517	mg/L	01:03:39
2	Al 237.313†	26959.3	29392.6	2.704	mg/L	2.704	mg/L	01:03:39
2	As 188.979†	762.8	819.7	0.5032	mg/L	0.5032	mg/L	01:03:49
2	B 249.677†	1659.6	1800.7	0.7382	mg/L	0.7382	mg/L	01:03:16
2	B 182.528†	860.0	932.2	0.7698	mg/L	0.7698	mg/L	01:03:49
2	Ba 233.527†	72342.4	77920.1	0.5913	mg/L	0.5913	mg/L	01:03:39
2	Be 313.107†	135429.8	147140.1	0.0520	mg/L	0.0520	mg/L	01:03:39
2	Ca 315.887†	5164298.9	5556929.4	49.74	mg/L	49.74	mg/L	01:03:37
2	Cd 228.802†	8909.9	9438.6	0.2539	mg/L	0.2539	mg/L	01:03:49
2	Co 228.616†	29218.9	31614.2	0.5011	mg/L	0.5011	mg/L	01:03:49
2	Cr 267.716†	63093.6	67170.9	0.5119	mg/L	0.5119	mg/L	01:03:39
2	Cu 324.752†	125394.1	130953.4	0.5610	mg/L	0.5610	mg/L	01:03:39
2	Fe 234.349†	9013.7	9699.4	4.723	mg/L	4.723	mg/L	01:03:16
2	K 766.490†	79154.9	84416.8	36.19	mg/L	36.19	mg/L	01:03:14
2	Li 670.784†	19957.3	21744.4	0.5125	mg/L	0.5125	mg/L	01:03:16
2	Mg 279.077†	112070.6	120287.6	7.811	mg/L	7.811	mg/L	01:03:39
2	Mn 257.610†	1285517.9	1367020.1	1.469	mg/L	1.469	mg/L	01:03:37
2	Mn 294.920†	637793.2	686835.2	1.465	mg/L	1.465	mg/L	01:03:39
2	Mo 202.031†	13330.3	14352.3	0.5381	mg/L	0.5381	mg/L	01:03:49
2	Na 589.592†	497325.2	530840.1	71.21	mg/L	71.21	mg/L	01:03:14
2	Ni 231.604†	27050.5	28926.2	0.5385	mg/L	0.5385	mg/L	01:03:39
2	P 214.914†	10241.7	11065.0	5.841	mg/L	5.841	mg/L	01:03:49
2	Pb 220.353†	8367.6	8819.5	0.5188	mg/L	0.5188	mg/L	01:03:49
2	Sb 206.836†	1227.6	1276.0	0.5254	mg/L	0.5254	mg/L	01:03:49
2	Se 196.026†	1702.8	1815.1	1.009	mg/L	1.009	mg/L	01:03:49
2	Sn 189.927†	3458.2	3683.1	0.4847	mg/L	0.4847	mg/L	01:03:49
2	Sr 407.771†	258518.4	277891.4	0.2355	mg/L	0.2355	mg/L	01:03:14
2	Ti 337.279†	451492.5	487053.6	0.5020	mg/L	0.5020	mg/L	01:03:39
2	Tl 190.801†	611.2	664.7	0.4889	mg/L	0.4889	mg/L	01:03:49
2	V 292.402†	122154.0	132325.9	0.5279	mg/L	0.5279	mg/L	01:03:39
2	Zn 213.857†	121189.5	129517.0	0.7914	mg/L	0.7914	mg/L	01:03:39

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		RSD
	Intensity	Conc.			Conc.	Units	
Y 371.029	3171073.9	0.938	mg/L	0.0119			1.27%
Ag 328.068†	51410.2	0.2477	mg/L	0.00573	0.2477	mg/L	2.31%
Al 237.313†	28963.7	2.664	mg/L	0.0556	2.664	mg/L	2.09%
As 188.979†	814.3	0.4999	mg/L	0.00464	0.4999	mg/L	0.93%
B 249.677†	1779.4	0.7295	mg/L	0.01233	0.7295	mg/L	1.69%
B 182.528†	931.4	0.7692	mg/L	0.00090	0.7692	mg/L	0.12%
Ba 233.527†	76633.0	0.5815	mg/L	0.01380	0.5815	mg/L	2.37%
Be 313.107†	144771.2	0.0511	mg/L	0.00118	0.0511	mg/L	2.30%
Ca 315.887†	5485176.0	49.10	mg/L	0.908	49.10	mg/L	1.85%
Cd 228.802†	9375.9	0.2522	mg/L	0.00237	0.2522	mg/L	0.94%
Co 228.616†	31412.6	0.4979	mg/L	0.00452	0.4979	mg/L	0.91%
Cr 267.716†	66060.4	0.5034	mg/L	0.01195	0.5034	mg/L	2.37%
Cu 324.752†	128797.5	0.5518	mg/L	0.01303	0.5518	mg/L	2.36%
Fe 234.349†	9658.7	4.704	mg/L	0.0269	4.704	mg/L	0.57%
K 766.490†	83347.6	35.74	mg/L	0.646	35.74	mg/L	1.81%
Li 670.784†	21686.1	0.5111	mg/L	0.00194	0.5111	mg/L	0.38%
Mg 279.077†	118207.6	7.676	mg/L	0.1911	7.676	mg/L	2.49%
Mn 257.610†	1348671.2	1.450	mg/L	0.0279	1.450	mg/L	1.93%
Mn 294.920†	675424.5	1.441	mg/L	0.0344	1.441	mg/L	2.39%
Mo 202.031†	14238.3	0.5339	mg/L	0.00598	0.5339	mg/L	1.12%
Na 589.592†	523811.2	70.27	mg/L	1.332	70.27	mg/L	1.90%
Ni 231.604†	28355.7	0.5279	mg/L	0.01502	0.5279	mg/L	2.85%
P 214.914†	10971.5	5.792	mg/L	0.0691	5.792	mg/L	1.19%
Pb 220.353†	8762.7	0.5155	mg/L	0.00470	0.5155	mg/L	0.91%
Sb 206.836†	1266.5	0.5216	mg/L	0.00544	0.5216	mg/L	1.04%
Se 196.026†	1800.0	1.001	mg/L	0.0119	1.001	mg/L	1.19%
Sn 189.927†	3650.7	0.4803	mg/L	0.00619	0.4803	mg/L	1.29%
Sr 407.771†	273918.1	0.2322	mg/L	0.00476	0.2322	mg/L	2.05%
Ti 337.279†	479042.4	0.4938	mg/L	0.01161	0.4938	mg/L	2.35%
Tl 190.801†	655.1	0.4818	mg/L	0.01007	0.4818	mg/L	2.09%
V 292.402†	130097.9	0.5191	mg/L	0.01242	0.5191	mg/L	2.39%
Zn 213.857†	127258.8	0.7776	mg/L	0.01950	0.7776	mg/L	2.51%

Sequence No.: 143
Sample ID: 1306383-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 102
Date Collected: 6/26/2013 1:05:29 AM
Data Type: Reprocessed on 6/26/2013 10:57:45 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306383-01

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	Y 371.029	3088906.6	3088906.6	0.914 mg/L		01:07:39
1	Ag 328.068†	699.8	29.2	0.0008 mg/L	0.0008 mg/L	01:07:42
1	Al 237.313†	-257.8	105.3	0.0167 mg/L	0.0167 mg/L	01:07:52
1	As 188.979†	-3.3	-4.7	-0.0002 mg/L	-0.0002 mg/L	01:07:52
1	B 249.677†	123.8	150.7	0.0640 mg/L	0.0640 mg/L	01:07:21
1	B 182.528†	59.3	71.8	0.0629 mg/L	0.0629 mg/L	01:07:52
1	Ba 233.527†	5502.3	6110.7	0.0469 mg/L	0.0469 mg/L	01:07:52
1	Be 313.107†	-1413.2	-114.2	0.0002 mg/L	0.0002 mg/L	01:07:42
1	Ca 315.887†	2688281.7	2943354.2	26.35 mg/L	26.35 mg/L	01:07:39
1	Cd 228.802†	150.8	17.6	0.0020 mg/L	0.0020 mg/L	01:07:52
1	Co 228.616†	-142.5	21.9	-0.0017 mg/L	-0.0017 mg/L	01:07:52
1	Cr 267.716†	604.8	-48.8	0.0001 mg/L	0.0001 mg/L	01:07:42
1	Cu 324.752†	4165.3	602.7	0.0039 mg/L	0.0039 mg/L	01:07:42
1	Fe 234.349†	91.9	102.2	0.0179 mg/L	0.0179 mg/L	01:07:21
1	K 766.490†	13960.7	14536.6	6.351 mg/L	6.351 mg/L	01:07:11
1	Li 670.784†	-212.1	40.4	0.0028 mg/L	0.0028 mg/L	01:07:11
1	Mg 279.077†	39247.9	42673.6	2.769 mg/L	2.769 mg/L	01:07:42
1	Mn 257.610†	22441.5	8510.6	0.0091 mg/L	0.0091 mg/L	01:07:52
1	Mn 294.920†	2418.9	3288.4	0.0068 mg/L	0.0068 mg/L	01:07:42
1	Mo 202.031†	90.2	109.2	0.0069 mg/L	0.0069 mg/L	01:07:52
1	Na 589.592†	786221.8	856384.6	114.8 mg/L	114.8 mg/L	01:07:09
1	Ni 231.604†	256.2	103.3	0.0014 mg/L	0.0014 mg/L	01:07:52
1	P 214.914†	800.7	922.5	0.5321 mg/L	0.5321 mg/L	01:07:52
1	Pb 220.353†	117.8	-54.2	-0.0012 mg/L	-0.0012 mg/L	01:07:52
1	Sb 206.836†	30.6	-11.3	-0.0002 mg/L	-0.0002 mg/L	01:07:52

1	Se 196.026†	1.3	-15.4	-0.0041 mg/L	-0.0041 mg/L	01:07:52
1	Sn 189.927†	-296.9	-362.5	-0.0266 mg/L	-0.0266 mg/L	01:07:52
1	Sr 407.771†	205133.2	224296.4	0.1902 mg/L	0.1902 mg/L	01:07:11
1	Ti 337.279†	-1321.0	-148.0	0.0026 mg/L	0.0026 mg/L	01:07:42
1	Tl 190.801†	-0.7	6.4	0.0004 mg/L	0.0004 mg/L	01:07:52
1	V 292.402†	-883.5	-65.3	0.0021 mg/L	0.0021 mg/L	01:07:42
1	Zn 213.857†	8296.9	8212.6	0.0509 mg/L	0.0509 mg/L	01:07:52
2	Y 371.029	3091984.4	3091984.4	0.914 mg/L		01:07:54
2	Ag 328.068†	646.4	-29.9	0.0005 mg/L	0.0005 mg/L	01:07:56
2	Al 237.313†	-247.6	116.7	0.0178 mg/L	0.0178 mg/L	01:08:07
2	As 188.979†	-4.5	-6.0	-0.0010 mg/L	-0.0010 mg/L	01:08:07
2	B 249.677†	119.6	146.0	0.0621 mg/L	0.0621 mg/L	01:07:35
2	B 182.528†	52.3	64.2	0.0566 mg/L	0.0566 mg/L	01:08:07
2	Ba 233.527†	5545.1	6151.5	0.0472 mg/L	0.0472 mg/L	01:08:07
2	Be 313.107†	-1321.7	-12.5	0.0002 mg/L	0.0002 mg/L	01:07:56
2	Ca 315.887†	2658925.4	2908323.2	26.04 mg/L	26.04 mg/L	01:07:54
2	Cd 228.802†	151.6	18.3	0.0020 mg/L	0.0020 mg/L	01:08:07
2	Co 228.616†	-158.6	4.5	-0.0020 mg/L	-0.0020 mg/L	01:08:07
2	Cr 267.716†	576.3	-80.6	-0.0001 mg/L	-0.0001 mg/L	01:07:56
2	Cu 324.752†	4209.8	646.9	0.0041 mg/L	0.0041 mg/L	01:07:56
2	Fe 234.349†	91.5	101.7	0.0181 mg/L	0.0181 mg/L	01:07:35
2	K 766.490†	13811.2	14357.8	6.275 mg/L	6.275 mg/L	01:07:25
2	Li 670.784†	-318.7	-75.9	0.0001 mg/L	0.0001 mg/L	01:07:25
2	Mg 279.077†	39813.6	43249.3	2.806 mg/L	2.806 mg/L	01:07:56
2	Mn 257.610†	22553.4	8608.5	0.0092 mg/L	0.0092 mg/L	01:08:07
2	Mn 294.920†	2317.3	3174.7	0.0066 mg/L	0.0066 mg/L	01:07:56
2	Mo 202.031†	97.7	117.2	0.0072 mg/L	0.0072 mg/L	01:08:07
2	Na 589.592†	773179.7	841266.0	112.8 mg/L	112.8 mg/L	01:07:23
2	Ni 231.604†	266.7	114.5	0.0016 mg/L	0.0016 mg/L	01:08:07
2	P 214.914†	804.0	925.3	0.5336 mg/L	0.5336 mg/L	01:08:07
2	Pb 220.353†	94.5	-79.8	-0.0027 mg/L	-0.0027 mg/L	01:08:07
2	Sb 206.836†	44.2	3.5	0.0058 mg/L	0.0058 mg/L	01:08:07
2	Se 196.026†	12.5	-3.2	0.0027 mg/L	0.0027 mg/L	01:08:07
2	Sn 189.927†	-274.8	-337.9	-0.0238 mg/L	-0.0238 mg/L	01:08:07
2	Sr 407.771†	204909.8	223828.7	0.1898 mg/L	0.1898 mg/L	01:07:25
2	Ti 337.279†	-106.3	1181.6	0.0040 mg/L	0.0040 mg/L	01:07:56
2	Tl 190.801†	3.4	10.9	0.0038 mg/L	0.0038 mg/L	01:08:07
2	V 292.402†	-841.8	-18.6	0.0023 mg/L	0.0023 mg/L	01:07:56
2	Zn 213.857†	8340.9	8251.6	0.0512 mg/L	0.0512 mg/L	01:08:07

Mean Data: 1306383-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3090445.5	0.914	mg/L	0.0006				0.07%
Ag 328.068†	-0.4	0.0007	mg/L	0.00020	0.0007	mg/L	0.00020	30.88%
Al 237.313†	111.0	0.0173	mg/L	0.00074	0.0173	mg/L	0.00074	4.30%
As 188.979†	-5.3	-0.0006	mg/L	0.00056	-0.0006	mg/L	0.00056	91.38%
B 249.677†	148.4	0.0631	mg/L	0.00136	0.0631	mg/L	0.00136	2.15%
B 182.528†	68.0	0.0597	mg/L	0.00445	0.0597	mg/L	0.00445	7.45%
Ba 233.527†	6131.1	0.0471	mg/L	0.00022	0.0471	mg/L	0.00022	0.46%
Be 313.107†	-63.3	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	13.14%
Ca 315.887†	2925838.7	26.19	mg/L	0.222	26.19	mg/L	0.222	0.85%
Cd 228.802†	18.0	0.0020	mg/L	0.00001	0.0020	mg/L	0.00001	0.69%
Co 228.616†	13.2	-0.0019	mg/L	0.00020	-0.0019	mg/L	0.00020	10.66%
Cr 267.716†	-64.7	0.0000	mg/L	0.00017	0.0000	mg/L	0.00017	923.11%
Cu 324.752†	624.8	0.0040	mg/L	0.00013	0.0040	mg/L	0.00013	3.37%
Fe 234.349†	101.9	0.0180	mg/L	0.00017	0.0180	mg/L	0.00017	0.94%
K 766.490†	14447.2	6.313	mg/L	0.0540	6.313	mg/L	0.0540	0.85%
Li 670.784†	-17.7	0.0015	mg/L	0.00193	0.0015	mg/L	0.00193	130.44%
Mg 279.077†	42961.4	2.788	mg/L	0.0264	2.788	mg/L	0.0264	0.95%
Mn 257.610†	8559.6	0.0091	mg/L	0.00007	0.0091	mg/L	0.00007	0.82%
Mn 294.920†	3231.5	0.0067	mg/L	0.00017	0.0067	mg/L	0.00017	2.55%
Mo 202.031†	113.2	0.0070	mg/L	0.00021	0.0070	mg/L	0.00021	3.03%
Na 589.592†	848825.3	113.8	mg/L	1.43	113.8	mg/L	1.43	1.26%
Ni 231.604†	108.9	0.0015	mg/L	0.00015	0.0015	mg/L	0.00015	9.81%
P 214.914†	923.9	0.5328	mg/L	0.00102	0.5328	mg/L	0.00102	0.19%
Pb 220.353†	-67.0	-0.0020	mg/L	0.00106	-0.0020	mg/L	0.00106	53.47%
Sb 206.836†	-3.9	0.0028	mg/L	0.00428	0.0028	mg/L	0.00428	153.35%
Se 196.026†	-9.3	-0.0007	mg/L	0.00477	-0.0007	mg/L	0.00477	665.18%
Sn 189.927†	-350.2	-0.0252	mg/L	0.00199	-0.0252	mg/L	0.00199	7.90%
Sr 407.771†	224062.5	0.1900	mg/L	0.00028	0.1900	mg/L	0.00028	0.15%
Ti 337.279†	516.8	0.0033	mg/L	0.00096	0.0033	mg/L	0.00096	29.08%

Tl 190.801†	8.6	0.0021 mg/L	0.00244	0.0021 mg/L	0.00244	116.33%
V 292.402†	-42.0	0.0022 mg/L	0.00013	0.0022 mg/L	0.00013	5.86%
Zn 213.857†	8232.1	0.0510 mg/L	0.00017	0.0510 mg/L	0.00017	0.33%

Sequence No.: 144
Sample ID: 1306383-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 103
Date Collected: 6/26/2013 1:09:42 AM
Data Type: Reprocessed on 6/26/2013 10:57:45 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306383-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3122820.5	3122820.5	0.924	mg/L			01:11:53
1	Ag 328.068†	617.4	-68.3	0.0003	mg/L	0.0003	mg/L	01:11:55
1	Al 237.313†	-300.7	61.9	0.0128	mg/L	0.0128	mg/L	01:12:06
1	As 188.979†	4.1	3.4	0.0047	mg/L	0.0047	mg/L	01:12:06
1	B 249.677†	105.0	128.9	0.0551	mg/L	0.0551	mg/L	01:11:35
1	B 182.528†	46.9	57.7	0.0513	mg/L	0.0513	mg/L	01:12:06
1	Ba 233.527†	5309.7	5836.7	0.0448	mg/L	0.0448	mg/L	01:12:06
1	Be 313.107†	-1296.0	29.6	0.0002	mg/L	0.0002	mg/L	01:11:55
1	Ca 315.887†	2514887.0	2723657.7	24.39	mg/L	24.39	mg/L	01:11:53
1	Cd 228.802†	151.0	16.0	0.0019	mg/L	0.0019	mg/L	01:12:06
1	Co 228.616†	-154.1	11.1	-0.0019	mg/L	-0.0019	mg/L	01:12:06
1	Cr 267.716†	574.4	-88.8	-0.0002	mg/L	-0.0002	mg/L	01:11:55
1	Cu 324.752†	4042.9	420.7	0.0031	mg/L	0.0031	mg/L	01:11:55
1	Fe 234.349†	78.4	86.6	0.0133	mg/L	0.0133	mg/L	01:11:35
1	K 766.490†	13086.8	13424.3	5.876	mg/L	5.876	mg/L	01:11:25
1	Li 670.784†	-348.3	-104.5	-0.0006	mg/L	-0.0006	mg/L	01:11:25
1	Mg 279.077†	36877.7	39640.7	2.572	mg/L	2.572	mg/L	01:11:55
1	Mn 257.610†	21967.6	7730.7	0.0082	mg/L	0.0082	mg/L	01:12:06
1	Mn 294.920†	1973.3	2777.1	0.0058	mg/L	0.0058	mg/L	01:11:55
1	Mo 202.031†	102.9	121.8	0.0073	mg/L	0.0073	mg/L	01:12:06
1	Na 589.592†	750940.1	808837.8	108.5	mg/L	108.5	mg/L	01:11:23
1	Ni 231.604†	312.1	160.8	0.0025	mg/L	0.0025	mg/L	01:12:06
1	P 214.914†	703.8	808.0	0.4721	mg/L	0.4721	mg/L	01:12:06
1	Pb 220.353†	90.9	-84.7	-0.0030	mg/L	-0.0030	mg/L	01:12:06
1	Sb 206.836†	41.9	0.6	0.0046	mg/L	0.0046	mg/L	01:12:06
1	Se 196.026†	13.5	-2.3	0.0032	mg/L	0.0032	mg/L	01:12:06
1	Sn 189.927†	-258.6	-317.4	-0.0223	mg/L	-0.0223	mg/L	01:12:06
1	Sr 407.771†	194070.3	209879.8	0.1780	mg/L	0.1780	mg/L	01:11:25
1	Ti 337.279†	-1386.7	-203.5	0.0026	mg/L	0.0026	mg/L	01:11:55
1	Tl 190.801†	3.0	10.4	0.0037	mg/L	0.0037	mg/L	01:12:06
1	V 292.402†	-786.4	50.4	0.0026	mg/L	0.0026	mg/L	01:11:55
1	Zn 213.857†	6610.0	6287.4	0.0391	mg/L	0.0391	mg/L	01:12:06
2	Y 371.029	3139385.6	3139385.6	0.928	mg/L			01:12:08
2	Ag 328.068†	644.7	-42.5	0.0004	mg/L	0.0004	mg/L	01:12:10
2	Al 237.313†	-265.6	101.3	0.0164	mg/L	0.0164	mg/L	01:12:21
2	As 188.979†	-4.6	-6.0	-0.0010	mg/L	-0.0010	mg/L	01:12:21
2	B 249.677†	123.9	148.7	0.0632	mg/L	0.0632	mg/L	01:11:49
2	B 182.528†	49.3	60.1	0.0532	mg/L	0.0532	mg/L	01:12:21
2	Ba 233.527†	5347.3	5846.9	0.0449	mg/L	0.0449	mg/L	01:12:21
2	Be 313.107†	-1379.9	-53.4	0.0002	mg/L	0.0002	mg/L	01:12:10
2	Ca 315.887†	2539183.0	2735457.2	24.49	mg/L	24.49	mg/L	01:12:08
2	Cd 228.802†	157.8	22.5	0.0021	mg/L	0.0021	mg/L	01:12:21
2	Co 228.616†	-143.0	23.9	-0.0017	mg/L	-0.0017	mg/L	01:12:21
2	Cr 267.716†	545.9	-122.9	-0.0004	mg/L	-0.0004	mg/L	01:12:10
2	Cu 324.752†	4002.1	353.7	0.0028	mg/L	0.0028	mg/L	01:12:10
2	Fe 234.349†	99.0	108.3	0.0239	mg/L	0.0239	mg/L	01:11:49
2	K 766.490†	13239.4	13513.9	5.914	mg/L	5.914	mg/L	01:11:39
2	Li 670.784†	-211.5	44.8	0.0029	mg/L	0.0029	mg/L	01:11:39
2	Mg 279.077†	37200.1	39777.2	2.581	mg/L	2.581	mg/L	01:12:10
2	Mn 257.610†	22043.4	7686.9	0.0082	mg/L	0.0082	mg/L	01:12:21
2	Mn 294.920†	2047.2	2845.4	0.0059	mg/L	0.0059	mg/L	01:12:10
2	Mo 202.031†	63.6	78.9	0.0057	mg/L	0.0057	mg/L	01:12:21
2	Na 589.592†	762919.4	817449.5	109.6	mg/L	109.6	mg/L	01:11:37
2	Ni 231.604†	321.3	168.9	0.0026	mg/L	0.0026	mg/L	01:12:21
2	P 214.914†	735.3	838.0	0.4878	mg/L	0.4878	mg/L	01:12:21
2	Pb 220.353†	136.5	-36.1	-0.0002	mg/L	-0.0002	mg/L	01:12:21
2	Sb 206.836†	46.3	5.1	0.0065	mg/L	0.0065	mg/L	01:12:21

2	Se 196.026†	2.9	-13.7	-0.0032 mg/L	-0.0032 mg/L	01:12:21
2	Sn 189.927†	-278.1	-337.0	-0.0247 mg/L	-0.0247 mg/L	01:12:21
2	Sr 407.771†	194304.8	209023.6	0.1772 mg/L	0.1772 mg/L	01:11:39
2	Ti 337.279†	-1621.8	-448.8	0.0023 mg/L	0.0023 mg/L	01:12:10
2	Tl 190.801†	-2.4	4.6	-0.0007 mg/L	-0.0007 mg/L	01:12:21
2	V 292.402†	-680.8	168.6	0.0030 mg/L	0.0030 mg/L	01:12:10
2	Zn 213.857†	6661.8	6305.5	0.0392 mg/L	0.0392 mg/L	01:12:21

Mean Data: 1306383-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3131103.0	0.926	mg/L	0.0035			0.37%
Ag 328.068†	-55.4	0.0004	mg/L	0.00009	0.0004 mg/L	0.00009	22.82%
Al 237.313†	81.6	0.0146	mg/L	0.00256	0.0146 mg/L	0.00256	17.55%
As 188.979†	-1.3	0.0018	mg/L	0.00405	0.0018 mg/L	0.00405	219.60%
B 249.677†	138.8	0.0592	mg/L	0.00570	0.0592 mg/L	0.00570	9.63%
B 182.528†	58.9	0.0523	mg/L	0.00137	0.0523 mg/L	0.00137	2.63%
Ba 233.527†	5841.8	0.0449	mg/L	0.00005	0.0449 mg/L	0.00005	0.12%
Be 313.107†	-11.9	0.0002	mg/L	0.00002	0.0002 mg/L	0.00002	9.89%
Ca 315.887†	2729557.4	24.44	mg/L	0.075	24.44 mg/L	0.075	0.31%
Cd 228.802†	19.3	0.0020	mg/L	0.00012	0.0020 mg/L	0.00012	6.12%
Co 228.616†	17.5	-0.0018	mg/L	0.00014	-0.0018 mg/L	0.00014	8.05%
Cr 267.716†	-105.9	-0.0003	mg/L	0.00018	-0.0003 mg/L	0.00018	62.39%
Cu 324.752†	387.2	0.0030	mg/L	0.00020	0.0030 mg/L	0.00020	6.81%
Fe 234.349†	97.4	0.0186	mg/L	0.00749	0.0186 mg/L	0.00749	40.20%
K 766.490†	13469.1	5.895	mg/L	0.0271	5.895 mg/L	0.0271	0.46%
Li 670.784†	-29.8	0.0012	mg/L	0.00248	0.0012 mg/L	0.00248	207.33%
Mg 279.077†	39709.0	2.576	mg/L	0.0063	2.576 mg/L	0.0063	0.24%
Mn 257.610†	7708.8	0.0082	mg/L	0.00004	0.0082 mg/L	0.00004	0.43%
Mn 294.920†	2811.3	0.0058	mg/L	0.00010	0.0058 mg/L	0.00010	1.77%
Mo 202.031†	100.4	0.0065	mg/L	0.00114	0.0065 mg/L	0.00114	17.44%
Na 589.592†	813143.7	109.0	mg/L	0.82	109.0 mg/L	0.82	0.75%
Ni 231.604†	164.8	0.0025	mg/L	0.00010	0.0025 mg/L	0.00010	4.11%
P 214.914†	823.0	0.4800	mg/L	0.01111	0.4800 mg/L	0.01111	2.31%
Pb 220.353†	-60.4	-0.0016	mg/L	0.00200	-0.0016 mg/L	0.00200	125.90%
Sb 206.836†	2.8	0.0055	mg/L	0.00129	0.0055 mg/L	0.00129	23.20%
Se 196.026†	-8.0	0.0000	mg/L	0.00449	0.0000 mg/L	0.00449	>999.9%
Sn 189.927†	-327.2	-0.0235	mg/L	0.00165	-0.0235 mg/L	0.00165	7.02%
Sr 407.771†	209451.7	0.1776	mg/L	0.00051	0.1776 mg/L	0.00051	0.29%
Ti 337.279†	-326.2	0.0025	mg/L	0.00018	0.0025 mg/L	0.00018	7.26%
Tl 190.801†	7.5	0.0015	mg/L	0.00312	0.0015 mg/L	0.00312	205.70%
V 292.402†	109.5	0.0028	mg/L	0.00031	0.0028 mg/L	0.00031	11.10%
Zn 213.857†	6296.5	0.0391	mg/L	0.00008	0.0391 mg/L	0.00008	0.20%

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Sequence No.: 145	Autosampler Location: 104
Sample ID: 1306383-03	Date Collected: 6/26/2013 1:13:57 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:57:46 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1306383-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2976298.8	2976298.8	0.880 mg/L		01:16:10
1	Ag 328.068†	475.9	-196.1	-0.0003 mg/L	-0.0003 mg/L	01:16:12
1	Al 237.313†	-429.2	-100.1	-0.0021 mg/L	-0.0021 mg/L	01:16:22
1	As 188.979†	38.5	42.7	0.0287 mg/L	0.0287 mg/L	01:16:22
1	B 249.677†	424.3	497.2	0.2055 mg/L	0.2055 mg/L	01:15:47
1	B 182.528†	211.2	246.9	0.2067 mg/L	0.2067 mg/L	01:16:22
1	Ba 233.527†	9766.6	11182.8	0.0854 mg/L	0.0854 mg/L	01:16:22
1	Be 313.107†	-1795.0	-606.4	0.0000 mg/L	0.0000 mg/L	01:16:12
1	Ca 315.887†	18282377.9	20770059.8	185.9 mg/L	185.9 mg/L	01:16:07
1	Cd 228.802†	132.4	3.0	0.0016 mg/L	0.0016 mg/L	01:16:22
1	Co 228.616†	-142.9	15.6	-0.0018 mg/L	-0.0018 mg/L	01:16:22
1	Cr 267.716†	667.6	47.6	0.0009 mg/L	0.0009 mg/L	01:16:12
1	Cu 324.752†	5504.5	2296.6	0.0111 mg/L	0.0111 mg/L	01:16:12
1	Fe 234.349†	507.6	578.3	-0.0087 mg/L	-0.0087 mg/L	01:15:47
1	K 766.490†	41792.9	46732.9	20.10 mg/L	20.10 mg/L	01:15:37
1	Li 670.784†	1520.6	2000.1	0.0489 mg/L	0.0489 mg/L	01:15:37

1	Mg	279.077†	604830.4	686818.0	44.60	mg/L	44.60	mg/L	01:16:10
1	Mn	257.610†	32226.8	20556.4	0.0220	mg/L	0.0220	mg/L	01:16:12
1	Mn	294.920†	6004.2	7461.6	0.0157	mg/L	0.0157	mg/L	01:16:12
1	Mo	202.031†	383.8	446.4	0.0194	mg/L	0.0194	mg/L	01:16:22
1	Na	589.592†	2455040.9	2784775.3	373.2	mg/L	373.2	mg/L	01:15:35
1	Ni	231.604†	255.2	112.8	0.0016	mg/L	0.0016	mg/L	01:16:22
1	P	214.914†	1720.3	2000.4	1.097	mg/L	1.097	mg/L	01:16:22
1	Pb	220.353†	8.6	-173.3	-0.0082	mg/L	-0.0082	mg/L	01:16:22
1	Sb	206.836†	78.1	43.9	0.0224	mg/L	0.0224	mg/L	01:16:22
1	Se	196.026†	13.2	-1.9	0.0034	mg/L	0.0034	mg/L	01:16:22
1	Sn	189.927†	-836.2	-987.5	-0.0047	mg/L	-0.0047	mg/L	01:16:22
1	Sr	407.771†	574250.3	652120.3	0.5523	mg/L	0.5523	mg/L	01:15:35
1	Ti	337.279†	-1302.8	-182.2	0.0026	mg/L	0.0026	mg/L	01:16:12
1	Tl	190.801†	24.3	34.7	-0.0029	mg/L	-0.0029	mg/L	01:16:22
1	V	292.402†	2191.6	3391.6	0.0158	mg/L	0.0158	mg/L	01:16:12
1	Zn	213.857†	4833.7	4621.9	0.0288	mg/L	0.0288	mg/L	01:16:22
2	Y	371.029	2932048.6	2932048.6	0.867	mg/L	0.867	mg/L	01:16:28
2	Ag	328.068†	510.9	-147.6	0.0000	mg/L	0.0000	mg/L	01:16:31
2	Al	237.313†	-446.8	-127.8	-0.0046	mg/L	-0.0046	mg/L	01:16:41
2	As	188.979†	45.9	51.9	0.0344	mg/L	0.0344	mg/L	01:16:41
2	B	249.677†	415.1	493.9	0.2041	mg/L	0.2041	mg/L	01:16:02
2	B	182.528†	213.6	253.3	0.2120	mg/L	0.2120	mg/L	01:16:41
2	Ba	233.527†	9789.9	11377.2	0.0868	mg/L	0.0868	mg/L	01:16:41
2	Be	313.107†	-1739.4	-573.1	0.0000	mg/L	0.0000	mg/L	01:16:31
2	Ca	315.887†	18516186.6	21353130.8	191.1	mg/L	191.1	mg/L	01:16:26
2	Cd	228.802†	141.0	15.2	0.0019	mg/L	0.0019	mg/L	01:16:41
2	Co	228.616†	-144.3	11.6	-0.0019	mg/L	-0.0019	mg/L	01:16:41
2	Cr	267.716†	713.4	111.9	0.0014	mg/L	0.0014	mg/L	01:16:31
2	Cu	324.752†	5511.1	2398.6	0.0116	mg/L	0.0116	mg/L	01:16:31
2	Fe	234.349†	492.1	569.2	-0.0218	mg/L	-0.0218	mg/L	01:16:02
2	K	766.490†	42224.0	47946.6	20.62	mg/L	20.62	mg/L	01:15:52
2	Li	670.784†	1561.0	2072.8	0.0506	mg/L	0.0506	mg/L	01:15:52
2	Mg	279.077†	598306.9	689664.9	44.78	mg/L	44.78	mg/L	01:16:28
2	Mn	257.610†	32067.7	20925.5	0.0224	mg/L	0.0224	mg/L	01:16:31
2	Mn	294.920†	5971.8	7527.1	0.0159	mg/L	0.0159	mg/L	01:16:31
2	Mo	202.031†	382.4	451.4	0.0196	mg/L	0.0196	mg/L	01:16:41
2	Na	589.592†	2452816.9	2824301.9	378.5	mg/L	378.5	mg/L	01:15:50
2	Ni	231.604†	254.1	115.8	0.0017	mg/L	0.0017	mg/L	01:16:41
2	P	214.914†	1723.7	2033.8	1.115	mg/L	1.115	mg/L	01:16:41
2	Pb	220.353†	13.1	-168.0	-0.0079	mg/L	-0.0079	mg/L	01:16:41
2	Sb	206.836†	71.0	37.1	0.0196	mg/L	0.0196	mg/L	01:16:41
2	Se	196.026†	-1.2	-18.2	-0.0056	mg/L	-0.0056	mg/L	01:16:41
2	Sn	189.927†	-832.9	-998.0	-0.0028	mg/L	-0.0028	mg/L	01:16:41
2	Sr	407.771†	575867.9	663831.1	0.5622	mg/L	0.5622	mg/L	01:15:50
2	Ti	337.279†	-1560.4	-501.5	0.0023	mg/L	0.0023	mg/L	01:16:31
2	Tl	190.801†	21.6	32.0	-0.0058	mg/L	-0.0058	mg/L	01:16:41
2	V	292.402†	2237.6	3482.2	0.0162	mg/L	0.0162	mg/L	01:16:31
2	Zn	213.857†	4849.7	4723.1	0.0295	mg/L	0.0295	mg/L	01:16:41

Mean Data: 1306383-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2954173.7	0.874 mg/L	0.0093			1.06%
Ag 328.068†	-171.9	-0.0002 mg/L	0.00016	-0.0002 mg/L	0.00016	100.14%
Al 237.313†	-114.0	-0.0033 mg/L	0.00179	-0.0033 mg/L	0.00179	53.53%
As 188.979†	47.3	0.0316 mg/L	0.00399	0.0316 mg/L	0.00399	12.66%
B 249.677†	495.6	0.2048 mg/L	0.00095	0.2048 mg/L	0.00095	0.47%
B 182.528†	250.1	0.2094 mg/L	0.00375	0.2094 mg/L	0.00375	1.79%
Ba 233.527†	11280.0	0.0861 mg/L	0.00104	0.0861 mg/L	0.00104	1.21%
Be 313.107†	-589.7	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	159.80%
Ca 315.887†	21061595.3	188.5 mg/L	3.69	188.5 mg/L	3.69	1.96%
Cd 228.802†	9.1	0.0017 mg/L	0.00023	0.0017 mg/L	0.00023	13.27%
Co 228.616†	13.6	-0.0018 mg/L	0.00005	-0.0018 mg/L	0.00005	2.44%
Cr 267.716†	79.7	0.0011 mg/L	0.00035	0.0011 mg/L	0.00035	30.71%
Cu 324.752†	2347.6	0.0113 mg/L	0.00031	0.0113 mg/L	0.00031	2.72%
Fe 234.349†	573.7	-0.0153 mg/L	0.00928	-0.0153 mg/L	0.00928	60.83%
K 766.490†	47339.8	20.36 mg/L	0.366	20.36 mg/L	0.366	1.80%
Li 670.784†	2036.4	0.0497 mg/L	0.00121	0.0497 mg/L	0.00121	2.43%
Mg 279.077†	688241.5	44.69 mg/L	0.131	44.69 mg/L	0.131	0.29%
Mn 257.610†	20740.9	0.0222 mg/L	0.00028	0.0222 mg/L	0.00028	1.27%
Mn 294.920†	7494.3	0.0158 mg/L	0.00010	0.0158 mg/L	0.00010	0.62%
Mo 202.031†	448.9	0.0195 mg/L	0.00013	0.0195 mg/L	0.00013	0.67%

Na 589.592†	2804538.6	375.9 mg/L	3.74	375.9 mg/L	3.74	1.00%
Ni 231.604†	114.3	0.0016 mg/L	0.00004	0.0016 mg/L	0.00004	2.45%
P 214.914†	2017.1	1.106 mg/L	0.0124	1.106 mg/L	0.0124	1.12%
Pb 220.353†	-170.7	-0.0080 mg/L	0.00022	-0.0080 mg/L	0.00022	2.74%
Sb 206.836†	40.5	0.0210 mg/L	0.00198	0.0210 mg/L	0.00198	9.44%
Se 196.026†	-10.0	-0.0011 mg/L	0.00640	-0.0011 mg/L	0.00640	579.78%
Sn 189.927†	-992.7	-0.0038 mg/L	0.00137	-0.0038 mg/L	0.00137	36.29%
Sr 407.771†	657975.7	0.5573 mg/L	0.00701	0.5573 mg/L	0.00701	1.26%
Ti 337.279†	-341.8	0.0024 mg/L	0.00023	0.0024 mg/L	0.00023	9.51%
Tl 190.801†	33.4	-0.0044 mg/L	0.00202	-0.0044 mg/L	0.00202	46.42%
V 292.402†	3436.9	0.0160 mg/L	0.00025	0.0160 mg/L	0.00025	1.59%
Zn 213.857†	4672.5	0.0291 mg/L	0.00044	0.0291 mg/L	0.00044	1.51%

Sequence No.: 146
Sample ID: 1306383-04
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 6/26/2013 1:18:17 AM
Data Type: Reprocessed on 6/26/2013 10:57:47 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306383-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2787451.7	2787451.7	0.824 mg/L		01:20:26
1	Ag 328.068†	452.4	-188.0	-0.0002 mg/L	-0.0002 mg/L	01:20:28
1	Al 237.313†	-253.6	79.8	0.0144 mg/L	0.0144 mg/L	01:20:28
1	As 188.979†	68.6	82.1	0.0529 mg/L	0.0529 mg/L	01:20:38
1	B 249.677†	386.9	484.5	0.2003 mg/L	0.2003 mg/L	01:20:05
1	B 182.528†	201.4	251.2	0.2103 mg/L	0.2103 mg/L	01:20:38
1	Ba 233.527†	31181.7	37911.1	0.2880 mg/L	0.2880 mg/L	01:20:28
1	Be 313.107†	-1998.4	-991.3	-0.0001 mg/L	-0.0001 mg/L	01:20:28
1	Ca 315.887†	22283019.5	27029922.5	241.9 mg/L	241.9 mg/L	01:20:23
1	Cd 228.802†	134.7	15.9	0.0019 mg/L	0.0019 mg/L	01:20:38
1	Co 228.616†	-79.4	81.7	-0.0008 mg/L	-0.0008 mg/L	01:20:38
1	Cr 267.716†	635.2	59.7	0.0010 mg/L	0.0010 mg/L	01:20:28
1	Cu 324.752†	4034.2	936.8	0.0053 mg/L	0.0053 mg/L	01:20:28
1	Fe 234.349†	4330.9	5255.0	2.215 mg/L	2.215 mg/L	01:20:05
1	K 766.490†	54552.4	65426.7	28.08 mg/L	28.08 mg/L	01:19:55
1	Li 670.784†	420.5	782.7	0.0203 mg/L	0.0203 mg/L	01:19:55
1	Mg 279.077†	486523.0	589862.4	38.30 mg/L	38.30 mg/L	01:20:26
1	Mn 257.610†	1027146.4	1229869.9	1.322 mg/L	1.322 mg/L	01:20:26
1	Mn 294.920†	498451.7	605260.3	1.291 mg/L	1.291 mg/L	01:20:26
1	Mo 202.031†	581.1	715.3	0.0292 mg/L	0.0292 mg/L	01:20:38
1	Na 589.592†	Saturated2	Saturated2			01:20:05
Saturated in preshot (code 2)						
1	Ni 231.604†	253.4	130.2	0.0019 mg/L	0.0019 mg/L	01:20:38
1	P 214.914†	1427.2	1777.3	0.9800 mg/L	0.9800 mg/L	01:20:38
1	Pb 220.353†	51.8	-120.2	-0.0050 mg/L	-0.0050 mg/L	01:20:38
1	Sb 206.836†	59.3	27.1	0.0146 mg/L	0.0146 mg/L	01:20:38
1	Se 196.026†	0.1	-16.7	-0.0047 mg/L	-0.0047 mg/L	01:20:38
1	Sn 189.927†	-899.8	-1128.9	0.0125 mg/L	0.0125 mg/L	01:20:38
1	Sr 407.771†	691374.1	838388.1	0.7100 mg/L	0.7100 mg/L	01:19:55
1	Ti 337.279†	-1413.8	-417.1	0.0024 mg/L	0.0024 mg/L	01:20:28
1	Tl 190.801†	27.0	39.9	-0.0086 mg/L	-0.0086 mg/L	01:20:38
1	V 292.402†	-917.1	-210.5	0.0019 mg/L	0.0019 mg/L	01:20:28
1	Zn 213.857†	5004.4	5200.9	0.0323 mg/L	0.0323 mg/L	01:20:38
2	Y 371.029	2809901.8	2809901.8	0.831 mg/L		01:20:45
2	Ag 328.068†	436.5	-211.5	-0.0003 mg/L	-0.0003 mg/L	01:20:47
2	Al 237.313†	-331.6	-11.6	0.0060 mg/L	0.0060 mg/L	01:20:47
2	As 188.979†	68.5	81.4	0.0524 mg/L	0.0524 mg/L	01:20:57
2	B 249.677†	393.2	488.4	0.2019 mg/L	0.2019 mg/L	01:20:17
2	B 182.528†	191.7	237.6	0.1991 mg/L	0.1991 mg/L	01:20:57
2	Ba 233.527†	31253.2	37694.9	0.2864 mg/L	0.2864 mg/L	01:20:47
2	Be 313.107†	-1867.7	-814.6	-0.0001 mg/L	-0.0001 mg/L	01:20:47
2	Ca 315.887†	22228213.7	26748020.9	239.4 mg/L	239.4 mg/L	01:20:42
2	Cd 228.802†	144.9	27.0	0.0022 mg/L	0.0022 mg/L	01:20:57
2	Co 228.616†	-57.4	108.8	-0.0003 mg/L	-0.0003 mg/L	01:20:57
2	Cr 267.716†	587.4	-4.0	0.0005 mg/L	0.0005 mg/L	01:20:47
2	Cu 324.752†	4000.4	857.0	0.0050 mg/L	0.0050 mg/L	01:20:47
2	Fe 234.349†	4349.0	5234.9	2.209 mg/L	2.209 mg/L	01:20:17
2	K 766.490†	54274.6	64563.8	27.71 mg/L	27.71 mg/L	01:20:07

2	Li 670.784†	409.1	764.8	0.0199 mg/L	0.0199 mg/L	01:20:07
2	Mg 279.077†	491542.4	591187.2	38.39 mg/L	38.39 mg/L	01:20:45
2	Mn 257.610†	1036572.4	1231257.8	1.324 mg/L	1.324 mg/L	01:20:45
2	Mn 294.920†	503501.7	606506.3	1.294 mg/L	1.294 mg/L	01:20:45
2	Mo 202.031†	552.7	675.5	0.0277 mg/L	0.0277 mg/L	01:20:57
2	Na 589.592†	Saturated2	Saturated2			01:20:17
Saturated in preshot (code 2)						
2	Ni 231.604†	227.5	96.6	0.0013 mg/L	0.0013 mg/L	01:20:57
2	P 214.914†	1425.1	1760.9	0.9715 mg/L	0.9715 mg/L	01:20:57
2	Pb 220.353†	-17.8	-204.5	-0.0100 mg/L	-0.0100 mg/L	01:20:57
2	Sb 206.836†	64.2	32.5	0.0168 mg/L	0.0168 mg/L	01:20:57
2	Se 196.026†	2.2	-14.2	-0.0033 mg/L	-0.0033 mg/L	01:20:57
2	Sn 189.927†	-854.0	-1065.1	0.0188 mg/L	0.0188 mg/L	01:20:57
2	Sr 407.771†	681461.9	819760.3	0.6942 mg/L	0.6942 mg/L	01:20:07
2	Ti 337.279†	-1489.9	-494.8	0.0023 mg/L	0.0023 mg/L	01:20:47
2	Tl 190.801†	18.5	29.3	-0.0162 mg/L	-0.0162 mg/L	01:20:57
2	V 292.402†	-832.9	-100.4	0.0023 mg/L	0.0023 mg/L	01:20:47
2	Zn 213.857†	4932.9	5066.4	0.0315 mg/L	0.0315 mg/L	01:20:57

Mean Data: 1306383-04

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2798676.8	0.828 mg/L	0.0047			0.57%
Ag 328.068†	-199.8	-0.0002 mg/L	0.00008	-0.0002 mg/L	0.00008	32.86%
Al 237.313†	34.1	0.0102 mg/L	0.00592	0.0102 mg/L	0.00592	57.94%
As 188.979†	81.8	0.0527 mg/L	0.00033	0.0527 mg/L	0.00033	0.63%
B 249.677†	486.5	0.2011 mg/L	0.00112	0.2011 mg/L	0.00112	0.55%
B 182.528†	244.4	0.2047 mg/L	0.00790	0.2047 mg/L	0.00790	3.86%
Ba 233.527†	37803.0	0.2872 mg/L	0.00116	0.2872 mg/L	0.00116	0.40%
Be 313.107†	-903.0	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	42.01%
Ca 315.887†	26888971.7	240.7 mg/L	1.78	240.7 mg/L	1.78	0.74%
Cd 228.802†	21.4	0.0020 mg/L	0.00021	0.0020 mg/L	0.00021	10.31%
Co 228.616†	95.2	-0.0005 mg/L	0.00031	-0.0005 mg/L	0.00031	56.33%
Cr 267.716†	27.8	0.0007 mg/L	0.00034	0.0007 mg/L	0.00034	46.49%
Cu 324.752†	896.9	0.0051 mg/L	0.00024	0.0051 mg/L	0.00024	4.69%
Fe 234.349†	5244.9	2.212 mg/L	0.0041	2.212 mg/L	0.0041	0.19%
K 766.490†	64995.3	27.90 mg/L	0.261	27.90 mg/L	0.261	0.93%
Li 670.784†	773.8	0.0201 mg/L	0.00030	0.0201 mg/L	0.00030	1.47%
Mg 279.077†	590524.8	38.35 mg/L	0.061	38.35 mg/L	0.061	0.16%
Mn 257.610†	1230563.8	1.323 mg/L	0.0011	1.323 mg/L	0.0011	0.08%
Mn 294.920†	605883.3	1.292 mg/L	0.0019	1.292 mg/L	0.0019	0.15%
Mo 202.031†	695.4	0.0285 mg/L	0.00106	0.0285 mg/L	0.00106	3.70%
Na 589.592†	Saturated2					
Ni 231.604†	113.4	0.0016 mg/L	0.00044	0.0016 mg/L	0.00044	27.27%
P 214.914†	1769.1	0.9758 mg/L	0.00605	0.9758 mg/L	0.00605	0.62%
Pb 220.353†	-162.4	-0.0075 mg/L	0.00348	-0.0075 mg/L	0.00348	46.51%
Sb 206.836†	29.8	0.0157 mg/L	0.00156	0.0157 mg/L	0.00156	9.90%
Se 196.026†	-15.5	-0.0040 mg/L	0.00097	-0.0040 mg/L	0.00097	24.46%
Sn 189.927†	-1097.0	0.0157 mg/L	0.00444	0.0157 mg/L	0.00444	28.30%
Sr 407.771†	829074.2	0.7021 mg/L	0.01115	0.7021 mg/L	0.01115	1.59%
Ti 337.279†	-456.0	0.0023 mg/L	0.00006	0.0023 mg/L	0.00006	2.43%
Tl 190.801†	34.6	-0.0124 mg/L	0.00538	-0.0124 mg/L	0.00538	43.46%
V 292.402†	-155.5	0.0021 mg/L	0.00029	0.0021 mg/L	0.00029	13.85%
Zn 213.857†	5133.6	0.0319 mg/L	0.00058	0.0319 mg/L	0.00058	1.82%

Sequence No.: 147

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 1:24:03 AM

Data Type: Reprocessed on 6/26/2013 10:57:47 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3240443.2	3240443.2	0.958 mg/L		01:25:57
1	Ag 328.068†	50201.6	51644.9	0.2487 mg/L	0.2487 mg/L	01:25:57
1	Al 237.313†	24784.2	26248.0	2.415 mg/L	2.415 mg/L	01:26:08
1	As 188.979†	742.7	773.9	0.4753 mg/L	0.4753 mg/L	01:26:08
1	B 249.677†	1108.4	1171.8	0.4815 mg/L	0.4815 mg/L	01:25:48

1	B	182.528†	558.2	589.4	0.4882	mg/L	0.4882	mg/L	01:26:08
1	Ba	233.527†	62156.5	64943.5	0.4929	mg/L	0.4929	mg/L	01:25:57
1	Be	313.107†	131549.5	138695.1	0.0490	mg/L	0.0490	mg/L	01:25:57
1	Ca	315.887†	523555.5	547010.0	4.906	mg/L	4.906	mg/L	01:25:57
1	Cd	228.802†	9039.6	9284.7	0.2498	mg/L	0.2498	mg/L	01:26:08
1	Co	228.616†	29881.9	31357.5	0.4970	mg/L	0.4970	mg/L	01:26:08
1	Cr	267.716†	62136.7	64124.3	0.4886	mg/L	0.4886	mg/L	01:25:57
1	Cu	324.752†	113955.0	114947.0	0.4926	mg/L	0.4926	mg/L	01:25:57
1	Fe	234.349†	4594.4	4795.6	2.370	mg/L	2.370	mg/L	01:25:48
1	K	766.490†	54720.9	56352.2	24.21	mg/L	24.21	mg/L	01:25:45
1	Li	670.784†	19879.5	21015.5	0.4954	mg/L	0.4954	mg/L	01:25:48
1	Mg	279.077†	72815.8	75690.1	4.914	mg/L	4.914	mg/L	01:25:57
1	Mn	257.610†	458418.0	462271.6	0.4967	mg/L	0.4967	mg/L	01:25:57
1	Mn	294.920†	219689.6	229870.7	0.4901	mg/L	0.4901	mg/L	01:25:57
1	Mo	202.031†	12377.8	12925.7	0.4852	mg/L	0.4852	mg/L	01:26:08
1	Na	589.592†	191573.4	195666.4	26.30	mg/L	26.30	mg/L	01:25:45
1	Ni	231.604†	25667.7	26605.2	0.4953	mg/L	0.4953	mg/L	01:25:57
1	P	214.914†	8570.3	8988.6	4.753	mg/L	4.753	mg/L	01:26:08
1	Pb	220.353†	8199.3	8372.2	0.4926	mg/L	0.4926	mg/L	01:26:08
1	Sb	206.836†	1161.5	1167.1	0.4816	mg/L	0.4816	mg/L	01:26:08
1	Se	196.026†	1677.8	1733.8	0.9643	mg/L	0.9643	mg/L	01:26:08
1	Sn	189.927†	3860.6	3990.8	0.4947	mg/L	0.4947	mg/L	01:26:08
1	Sr	407.771†	52961.3	55015.6	0.0469	mg/L	0.0469	mg/L	01:25:45
1	Ti	337.279†	451718.5	472633.3	0.4872	mg/L	0.4872	mg/L	01:25:57
1	Tl	190.801†	613.8	647.5	0.4840	mg/L	0.4840	mg/L	01:26:08
1	V	292.402†	119360.8	125446.2	0.5004	mg/L	0.5004	mg/L	01:25:57
1	Zn	213.857†	78134.8	80658.6	0.4918	mg/L	0.4918	mg/L	01:25:57
2	Y	371.029	3239248.8	3239248.8	0.958	mg/L			01:26:11
2	Ag	328.068†	50109.6	51568.2	0.2484	mg/L	0.2484	mg/L	01:26:11
2	Al	237.313†	24790.1	26263.6	2.417	mg/L	2.417	mg/L	01:26:22
2	As	188.979†	742.8	774.3	0.4755	mg/L	0.4755	mg/L	01:26:22
2	B	249.677†	1109.0	1172.8	0.4819	mg/L	0.4819	mg/L	01:25:52
2	B	182.528†	561.0	592.5	0.4907	mg/L	0.4907	mg/L	01:26:22
2	Ba	233.527†	62161.5	64972.7	0.4932	mg/L	0.4932	mg/L	01:26:11
2	Be	313.107†	131594.7	138792.8	0.0490	mg/L	0.0490	mg/L	01:26:11
2	Ca	315.887†	522931.7	546560.4	4.902	mg/L	4.902	mg/L	01:26:11
2	Cd	228.802†	9014.0	9261.5	0.2492	mg/L	0.2492	mg/L	01:26:22
2	Co	228.616†	29828.3	31313.0	0.4963	mg/L	0.4963	mg/L	01:26:22
2	Cr	267.716†	61979.3	63984.0	0.4876	mg/L	0.4876	mg/L	01:26:11
2	Cu	324.752†	113619.1	114640.3	0.4913	mg/L	0.4913	mg/L	01:26:11
2	Fe	234.349†	4597.3	4800.3	2.372	mg/L	2.372	mg/L	01:25:52
2	K	766.490†	54057.7	55681.0	23.92	mg/L	23.92	mg/L	01:25:50
2	Li	670.784†	19722.1	20858.8	0.4917	mg/L	0.4917	mg/L	01:25:52
2	Mg	279.077†	72679.6	75576.0	4.906	mg/L	4.906	mg/L	01:26:11
2	Mn	257.610†	458375.6	462403.7	0.4968	mg/L	0.4968	mg/L	01:26:11
2	Mn	294.920†	219699.3	229965.3	0.4904	mg/L	0.4904	mg/L	01:26:11
2	Mo	202.031†	12377.6	12930.3	0.4854	mg/L	0.4854	mg/L	01:26:22
2	Na	589.592†	188869.0	192917.3	25.94	mg/L	25.94	mg/L	01:25:50
2	Ni	231.604†	25736.5	26686.9	0.4968	mg/L	0.4968	mg/L	01:26:11
2	P	214.914†	8546.6	8967.1	4.742	mg/L	4.742	mg/L	01:26:22
2	Pb	220.353†	8194.0	8369.9	0.4924	mg/L	0.4924	mg/L	01:26:22
2	Sb	206.836†	1163.5	1169.7	0.4826	mg/L	0.4826	mg/L	01:26:22
2	Se	196.026†	1676.9	1733.5	0.9641	mg/L	0.9641	mg/L	01:26:22
2	Sn	189.927†	3882.5	4015.1	0.4977	mg/L	0.4977	mg/L	01:26:22
2	Sr	407.771†	52273.7	54318.3	0.0463	mg/L	0.0463	mg/L	01:25:50
2	Ti	337.279†	452231.9	473342.9	0.4880	mg/L	0.4880	mg/L	01:26:11
2	Tl	190.801†	616.5	650.7	0.4864	mg/L	0.4864	mg/L	01:26:22
2	V	292.402†	119034.2	125151.1	0.4992	mg/L	0.4992	mg/L	01:26:11
2	Zn	213.857†	78200.2	80756.8	0.4924	mg/L	0.4924	mg/L	01:26:11

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3239846.0	0.958 mg/L	0.0002			0.03%
Ag 328.068†	51606.6	0.2486 mg/L	0.00026	0.2486 mg/L	0.00026	0.10%
QC value within limits for Ag 328.068 Recovery = 99.42%						
Al 237.313†	26255.8	2.416 mg/L	0.0010	2.416 mg/L	0.0010	0.04%
QC value within limits for Al 237.313 Recovery = 96.64%						
As 188.979†	774.1	0.4754 mg/L	0.00018	0.4754 mg/L	0.00018	0.04%
QC value within limits for As 188.979 Recovery = 95.08%						
B 249.677†	1172.3	0.4817 mg/L	0.00029	0.4817 mg/L	0.00029	0.06%
QC value within limits for B 249.677 Recovery = 96.34%						

B	182.528†	591.0	0.4894 mg/L	0.00177	0.4894 mg/L	0.00177	0.36%
	QC value within limits for B	182.528	Recovery = 97.89%				
Ba	233.527†	64958.1	0.4930 mg/L	0.00016	0.4930 mg/L	0.00016	0.03%
	QC value within limits for Ba	233.527	Recovery = 98.61%				
Be	313.107†	138744.0	0.0490 mg/L	0.00002	0.0490 mg/L	0.00002	0.05%
	QC value within limits for Be	313.107	Recovery = 98.05%				
Ca	315.887†	546785.2	4.904 mg/L	0.0029	4.904 mg/L	0.0029	0.06%
	QC value within limits for Ca	315.887	Recovery = 98.08%				
Cd	228.802†	9273.1	0.2495 mg/L	0.00044	0.2495 mg/L	0.00044	0.18%
	QC value within limits for Cd	228.802	Recovery = 99.79%				
Co	228.616†	31335.3	0.4966 mg/L	0.00050	0.4966 mg/L	0.00050	0.10%
	QC value within limits for Co	228.616	Recovery = 99.33%				
Cr	267.716†	64054.1	0.4881 mg/L	0.00075	0.4881 mg/L	0.00075	0.15%
	QC value within limits for Cr	267.716	Recovery = 97.62%				
Cu	324.752†	114793.7	0.4920 mg/L	0.00093	0.4920 mg/L	0.00093	0.19%
	QC value within limits for Cu	324.752	Recovery = 98.39%				
Fe	234.349†	4798.0	2.371 mg/L	0.0016	2.371 mg/L	0.0016	0.07%
	QC value within limits for Fe	234.349	Recovery = 94.83%				
K	766.490†	56016.6	24.06 mg/L	0.203	24.06 mg/L	0.203	0.84%
	QC value within limits for K	766.490	Recovery = 96.26%				
Li	670.784†	20937.1	0.4935 mg/L	0.00260	0.4935 mg/L	0.00260	0.53%
	QC value within limits for Li	670.784	Recovery = 98.71%				
Mg	279.077†	75633.0	4.910 mg/L	0.0052	4.910 mg/L	0.0052	0.11%
	QC value within limits for Mg	279.077	Recovery = 98.20%				
Mn	257.610†	462337.6	0.4968 mg/L	0.00010	0.4968 mg/L	0.00010	0.02%
	QC value within limits for Mn	257.610	Recovery = 99.35%				
Mn	294.920†	229918.0	0.4902 mg/L	0.00014	0.4902 mg/L	0.00014	0.03%
	QC value within limits for Mn	294.920	Recovery = 98.05%				
Mo	202.031†	12928.0	0.4853 mg/L	0.00013	0.4853 mg/L	0.00013	0.03%
	QC value within limits for Mo	202.031	Recovery = 97.07%				
Na	589.592†	194291.8	26.12 mg/L	0.260	26.12 mg/L	0.260	1.00%
	QC value within limits for Na	589.592	Recovery = 104.48%				
Ni	231.604†	26646.1	0.4960 mg/L	0.00108	0.4960 mg/L	0.00108	0.22%
	QC value within limits for Ni	231.604	Recovery = 99.21%				
P	214.914†	8977.8	4.748 mg/L	0.0080	4.748 mg/L	0.0080	0.17%
	QC value within limits for P	214.914	Recovery = 94.96%				
Pb	220.353†	8371.0	0.4925 mg/L	0.00010	0.4925 mg/L	0.00010	0.02%
	QC value within limits for Pb	220.353	Recovery = 98.50%				
Sb	206.836†	1168.4	0.4821 mg/L	0.00075	0.4821 mg/L	0.00075	0.16%
	QC value within limits for Sb	206.836	Recovery = 96.42%				
Se	196.026†	1733.6	0.9642 mg/L	0.00010	0.9642 mg/L	0.00010	0.01%
	QC value within limits for Se	196.026	Recovery = 96.42%				
Sn	189.927†	4002.9	0.4962 mg/L	0.00211	0.4962 mg/L	0.00211	0.43%
	QC value within limits for Sn	189.927	Recovery = 99.24%				
Sr	407.771†	54667.0	0.0466 mg/L	0.00042	0.0466 mg/L	0.00042	0.90%
	QC value within limits for Sr	407.771	Recovery = 93.15%				
Ti	337.279†	472988.1	0.4876 mg/L	0.00051	0.4876 mg/L	0.00051	0.11%
	QC value within limits for Ti	337.279	Recovery = 97.52%				
Tl	190.801†	649.1	0.4852 mg/L	0.00167	0.4852 mg/L	0.00167	0.34%
	QC value within limits for Tl	190.801	Recovery = 97.04%				
V	292.402†	125298.7	0.4998 mg/L	0.00082	0.4998 mg/L	0.00082	0.16%
	QC value within limits for V	292.402	Recovery = 99.96%				
Zn	213.857†	80707.7	0.4921 mg/L	0.00042	0.4921 mg/L	0.00042	0.09%
	QC value within limits for Zn	213.857	Recovery = 98.42%				
All analyte(s) passed QC.							

Sequence No.: 148
Sample ID: CCB1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2013 1:28:00 AM
Data Type: Reprocessed on 6/26/2013 10:57:48 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3241866.3	3241866.3	0.959 mg/L		01:30:06
1	Ag 328.068†	678.2	-29.5	0.0005 mg/L	0.0005 mg/L	01:30:09
1	Al 237.313†	-405.4	-35.3	0.0039 mg/L	0.0039 mg/L	01:30:09
1	As 188.979†	-1.8	-3.0	0.0008 mg/L	0.0008 mg/L	01:30:19
1	B 249.677†	-3.0	12.0	0.0074 mg/L	0.0074 mg/L	01:29:50

1	B	182.528†	-0.8	6.1	0.0089	mg/L	0.0089	mg/L	01:30:19
1	Ba	233.527†	-59.5	25.7	0.0008	mg/L	0.0008	mg/L	01:30:19
1	Be	313.107†	-1328.3	47.4	0.0002	mg/L	0.0002	mg/L	01:30:09
1	Ca	315.887†	-867.3	-186.6	0.0066	mg/L	0.0066	mg/L	01:30:09
1	Cd	228.802†	143.9	2.6	0.0016	mg/L	0.0016	mg/L	01:30:19
1	Co	228.616†	-137.3	34.7	-0.0015	mg/L	-0.0015	mg/L	01:30:19
1	Cr	267.716†	530.5	-157.6	-0.0007	mg/L	-0.0007	mg/L	01:30:09
1	Cu	324.752†	3716.5	-80.4	0.0010	mg/L	0.0010	mg/L	01:30:09
1	Fe	234.349†	-0.5	1.2	0.0112	mg/L	0.0112	mg/L	01:29:50
1	K	766.490†	726.1	12.2	0.1486	mg/L	0.1486	mg/L	01:29:40
1	Li	670.784†	-301.9	-42.2	0.0009	mg/L	0.0009	mg/L	01:29:40
1	Mg	279.077†	315.8	41.5	0.0007	mg/L	0.0007	mg/L	01:30:09
1	Mn	257.610†	15889.6	518.2	0.0005	mg/L	0.0005	mg/L	01:30:09
1	Mn	294.920†	-732.6	-123.5	-0.0004	mg/L	-0.0004	mg/L	01:30:09
1	Mo	202.031†	-4.7	5.5	0.0030	mg/L	0.0030	mg/L	01:30:19
1	Na	589.592†	12465.0	8774.1	1.263	mg/L	1.263	mg/L	01:29:40
1	Ni	231.604†	149.6	-21.1	-0.0009	mg/L	-0.0009	mg/L	01:30:09
1	P	214.914†	-60.0	-16.5	0.0399	mg/L	0.0399	mg/L	01:30:19
1	Pb	220.353†	163.9	-12.2	0.0012	mg/L	0.0012	mg/L	01:30:19
1	Sb	206.836†	37.1	-6.2	0.0019	mg/L	0.0019	mg/L	01:30:19
1	Se	196.026†	27.9	12.2	0.0112	mg/L	0.0112	mg/L	01:30:19
1	Sn	189.927†	45.3	9.7	0.0028	mg/L	0.0028	mg/L	01:30:19
1	Sr	407.771†	365.4	135.5	0.0004	mg/L	0.0004	mg/L	01:29:40
1	Ti	337.279†	-1537.5	-305.7	0.0025	mg/L	0.0025	mg/L	01:30:09
1	Tl	190.801†	-6.8	0.1	-0.0003	mg/L	-0.0003	mg/L	01:30:19
1	V	292.402†	-878.2	-14.1	0.0023	mg/L	0.0023	mg/L	01:30:09
1	Zn	213.857†	923.6	93.8	0.0011	mg/L	0.0011	mg/L	01:30:19
2	Y	371.029	3229466.3	3229466.3	0.955	mg/L			01:30:21
2	Ag	328.068†	659.8	-46.0	0.0004	mg/L	0.0004	mg/L	01:30:23
2	Al	237.313†	-511.0	-147.6	-0.0064	mg/L	-0.0064	mg/L	01:30:23
2	As	188.979†	4.9	4.1	0.0051	mg/L	0.0051	mg/L	01:30:34
2	B	249.677†	-8.2	6.6	0.0052	mg/L	0.0052	mg/L	01:30:03
2	B	182.528†	-1.0	5.9	0.0087	mg/L	0.0087	mg/L	01:30:34
2	Ba	233.527†	-56.9	28.1	0.0008	mg/L	0.0008	mg/L	01:30:34
2	Be	313.107†	-1342.8	26.8	0.0002	mg/L	0.0002	mg/L	01:30:23
2	Ca	315.887†	-817.3	-137.7	0.0071	mg/L	0.0071	mg/L	01:30:23
2	Cd	228.802†	139.1	-1.9	0.0015	mg/L	0.0015	mg/L	01:30:34
2	Co	228.616†	-154.2	16.5	-0.0018	mg/L	-0.0018	mg/L	01:30:34
2	Cr	267.716†	593.7	-89.3	-0.0002	mg/L	-0.0002	mg/L	01:30:23
2	Cu	324.752†	3665.2	-119.3	0.0008	mg/L	0.0008	mg/L	01:30:23
2	Fe	234.349†	6.0	8.0	0.0145	mg/L	0.0145	mg/L	01:30:03
2	K	766.490†	755.8	46.2	0.1632	mg/L	0.1632	mg/L	01:29:53
2	Li	670.784†	-228.7	33.2	0.0027	mg/L	0.0027	mg/L	01:29:53
2	Mg	279.077†	254.3	-21.6	-0.0034	mg/L	-0.0034	mg/L	01:30:23
2	Mn	257.610†	15801.8	489.8	0.0005	mg/L	0.0005	mg/L	01:30:23
2	Mn	294.920†	-398.2	223.7	0.0003	mg/L	0.0003	mg/L	01:30:23
2	Mo	202.031†	0.1	10.5	0.0032	mg/L	0.0032	mg/L	01:30:34
2	Na	589.592†	12312.5	8664.4	1.248	mg/L	1.248	mg/L	01:29:53
2	Ni	231.604†	202.3	34.7	0.0001	mg/L	0.0001	mg/L	01:30:23
2	P	214.914†	-57.1	-13.7	0.0413	mg/L	0.0413	mg/L	01:30:34
2	Pb	220.353†	168.6	-6.6	0.0015	mg/L	0.0015	mg/L	01:30:34
2	Sb	206.836†	42.8	0.0	0.0044	mg/L	0.0044	mg/L	01:30:34
2	Se	196.026†	20.6	4.8	0.0071	mg/L	0.0071	mg/L	01:30:34
2	Sn	189.927†	33.9	-2.0	0.0013	mg/L	0.0013	mg/L	01:30:34
2	Sr	407.771†	195.8	-40.7	0.0003	mg/L	0.0003	mg/L	01:29:53
2	Ti	337.279†	-1235.0	4.9	0.0028	mg/L	0.0028	mg/L	01:30:23
2	Tl	190.801†	1.0	8.1	0.0058	mg/L	0.0058	mg/L	01:30:34
2	V	292.402†	-816.4	47.1	0.0025	mg/L	0.0025	mg/L	01:30:23
2	Zn	213.857†	913.4	86.9	0.0010	mg/L	0.0010	mg/L	01:30:34

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3235666.3	0.957 mg/L	0.0026			0.27%
Ag 328.068†	-37.8	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	11.95%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-91.5	-0.0013 mg/L	0.00728	-0.0013 mg/L	0.00728	563.35%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	0.6	0.0030 mg/L	0.00304	0.0030 mg/L	0.00304	102.09%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	9.3	0.0063 mg/L	0.00158	0.0063 mg/L	0.00158	25.00%
QC value within limits for B 249.677 Recovery = Not calculated						

B	182.528†	6.0	0.0088 mg/L	0.00013	0.0088 mg/L	0.00013	1.43%
	QC value within limits for B 182.528 Recovery = Not calculated						
Ba	233.527†	26.9	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.62%
	QC value within limits for Ba 233.527 Recovery = Not calculated						
Be	313.107†	37.1	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	2.27%
	QC value within limits for Be 313.107 Recovery = Not calculated						
Ca	315.887†	-162.2	0.0068 mg/L	0.00031	0.0068 mg/L	0.00031	4.54%
	QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd	228.802†	0.4	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	5.63%
	QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co	228.616†	25.6	-0.0017 mg/L	0.00021	-0.0017 mg/L	0.00021	12.34%
	QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr	267.716†	-123.4	-0.0004 mg/L	0.00037	-0.0004 mg/L	0.00037	85.26%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	-99.9	0.0009 mg/L	0.00012	0.0009 mg/L	0.00012	13.19%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	234.349†	4.6	0.0129 mg/L	0.00237	0.0129 mg/L	0.00237	18.46%
	QC value within limits for Fe 234.349 Recovery = Not calculated						
K	766.490†	29.2	0.1559 mg/L	0.01028	0.1559 mg/L	0.01028	6.60%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li	670.784†	-4.5	0.0018 mg/L	0.00125	0.0018 mg/L	0.00125	69.98%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	9.9	-0.0014 mg/L	0.00290	-0.0014 mg/L	0.00290	214.12%
	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn	257.610†	504.0	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.65%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	50.1	-0.0001 mg/L	0.00052	-0.0001 mg/L	0.00052	801.91%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	8.0	0.0031 mg/L	0.00013	0.0031 mg/L	0.00013	4.32%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	8719.3	1.255 mg/L	0.0104	1.255 mg/L	0.0104	0.83%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	6.8	-0.0004 mg/L	0.00073	-0.0004 mg/L	0.00073	185.19%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-15.1	0.0406 mg/L	0.00103	0.0406 mg/L	0.00103	2.54%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	-9.4	0.0014 mg/L	0.00023	0.0014 mg/L	0.00023	16.79%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	-3.1	0.0031 mg/L	0.00178	0.0031 mg/L	0.00178	57.12%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	8.5	0.0091 mg/L	0.00292	0.0091 mg/L	0.00292	31.95%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	3.9	0.0021 mg/L	0.00102	0.0021 mg/L	0.00102	49.76%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	47.4	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	31.13%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-150.4	0.0026 mg/L	0.00023	0.0026 mg/L	0.00023	8.56%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	4.1	0.0027 mg/L	0.00430	0.0027 mg/L	0.00430	157.62%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	16.5	0.0024 mg/L	0.00017	0.0024 mg/L	0.00017	7.15%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	90.3	0.0010 mg/L	0.00004	0.0010 mg/L	0.00004	3.41%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

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Sequence No.: 149                               Autosampler Location: 106
Sample ID: 1306383-05                           Date Collected: 6/26/2013 1:32:11 AM
Analyst:                                         Data Type: Reprocessed on 6/26/2013 10:57:48 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: 1306383-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3087439.4	3087439.4	0.913 mg/L		01:34:22
1	Ag 328.068†	471.4	-220.6	-0.0004 mg/L	-0.0004 mg/L	01:34:24
1	Al 237.313†	-480.5	-138.8	-0.0056 mg/L	-0.0056 mg/L	01:34:35
1	As 188.979†	12.1	12.2	0.0101 mg/L	0.0101 mg/L	01:34:35
1	B 249.677†	2969.5	3267.2	1.336 mg/L	1.336 mg/L	01:34:02

1	B 182.528†	1499.5	1649.1	1.359	mg/L	1.359	mg/L	01:34:35
1	Ba 233.527†	6130.4	6801.4	0.0522	mg/L	0.0522	mg/L	01:34:35
1	Be 313.107†	-1757.0	-491.3	0.0000	mg/L	0.0000	mg/L	01:34:24
1	Ca 315.887†	18321287.9	20065023.8	179.6	mg/L	179.6	mg/L	01:34:20
1	Cd 228.802†	506.2	406.9	0.0124	mg/L	0.0124	mg/L	01:34:35
1	Co 228.616†	-142.5	21.9	-0.0017	mg/L	-0.0017	mg/L	01:34:35
1	Cr 267.716†	717.9	75.4	0.0011	mg/L	0.0011	mg/L	01:34:24
1	Cu 324.752†	4654.5	1140.6	0.0062	mg/L	0.0062	mg/L	01:34:24
1	Fe 234.349†	327.4	360.2	-0.1064	mg/L	-0.1064	mg/L	01:34:02
1	K 766.490†	29328.1	31373.2	13.54	mg/L	13.54	mg/L	01:33:52
1	Li 670.784†	1923.8	2379.4	0.0578	mg/L	0.0578	mg/L	01:33:52
1	Mg 279.077†	463182.3	506959.8	32.92	mg/L	32.92	mg/L	01:34:22
1	Mn 257.610†	19175.4	4945.4	0.0052	mg/L	0.0052	mg/L	01:34:35
1	Mn 294.920†	-507.0	85.4	0.0000	mg/L	0.0000	mg/L	01:34:24
1	Mo 202.031†	643.2	714.8	0.0296	mg/L	0.0296	mg/L	01:34:35
1	Na 589.592†	284705.7	307565.1	41.30	mg/L	41.30	mg/L	01:33:52
1	Ni 231.604†	309.4	161.7	0.0025	mg/L	0.0025	mg/L	01:34:35
1	P 214.914†	1220.2	1382.3	0.7729	mg/L	0.7729	mg/L	01:34:35
1	Pb 220.353†	36.6	-143.1	-0.0064	mg/L	-0.0064	mg/L	01:34:35
1	Sb 206.836†	94.2	58.4	0.0284	mg/L	0.0284	mg/L	01:34:35
1	Se 196.026†	23.2	8.5	0.0092	mg/L	0.0092	mg/L	01:34:35
1	Sn 189.927†	-810.1	-924.6	-0.0009	mg/L	-0.0009	mg/L	01:34:35
1	Sr 407.771†	521255.0	570599.6	0.4833	mg/L	0.4833	mg/L	01:33:52
1	Ti 337.279†	-1445.4	-285.0	0.0025	mg/L	0.0025	mg/L	01:34:24
1	Tl 190.801†	23.9	33.2	-0.0030	mg/L	-0.0030	mg/L	01:34:35
1	V 292.402†	-766.6	62.3	0.0029	mg/L	0.0029	mg/L	01:34:24
1	Zn 213.857†	18893.6	19821.6	0.1222	mg/L	0.1222	mg/L	01:34:24
2	Y 371.029	3068076.0	3068076.0	0.907	mg/L			01:34:41
2	Ag 328.068†	512.7	-171.8	-0.0002	mg/L	-0.0002	mg/L	01:34:43
2	Al 237.313†	-459.8	-119.3	-0.0038	mg/L	-0.0038	mg/L	01:34:53
2	As 188.979†	9.3	9.3	0.0083	mg/L	0.0083	mg/L	01:34:53
2	B 249.677†	2960.3	3277.6	1.340	mg/L	1.340	mg/L	01:34:14
2	B 182.528†	1505.1	1665.6	1.372	mg/L	1.372	mg/L	01:34:53
2	Ba 233.527†	6206.0	6927.0	0.0531	mg/L	0.0531	mg/L	01:34:53
2	Be 313.107†	-1808.2	-560.0	0.0000	mg/L	0.0000	mg/L	01:34:43
2	Ca 315.887†	18430742.2	20312278.8	181.8	mg/L	181.8	mg/L	01:34:38
2	Cd 228.802†	516.3	421.5	0.0128	mg/L	0.0128	mg/L	01:34:53
2	Co 228.616†	-119.2	46.5	-0.0013	mg/L	-0.0013	mg/L	01:34:53
2	Cr 267.716†	647.8	3.1	0.0006	mg/L	0.0006	mg/L	01:34:43
2	Cu 324.752†	4653.3	1171.5	0.0063	mg/L	0.0063	mg/L	01:34:43
2	Fe 234.349†	333.7	369.4	-0.1054	mg/L	-0.1054	mg/L	01:34:14
2	K 766.490†	29121.7	31348.4	13.53	mg/L	13.53	mg/L	01:34:04
2	Li 670.784†	1758.6	2210.7	0.0538	mg/L	0.0538	mg/L	01:34:04
2	Mg 279.077†	472042.1	519925.2	33.76	mg/L	33.76	mg/L	01:34:41
2	Mn 257.610†	19234.2	5142.8	0.0054	mg/L	0.0054	mg/L	01:34:53
2	Mn 294.920†	-228.1	389.2	0.0007	mg/L	0.0007	mg/L	01:34:43
2	Mo 202.031†	612.7	685.6	0.0285	mg/L	0.0285	mg/L	01:34:53
2	Na 589.592†	282094.5	306655.2	41.18	mg/L	41.18	mg/L	01:34:04
2	Ni 231.604†	298.2	151.5	0.0023	mg/L	0.0023	mg/L	01:34:53
2	P 214.914†	1223.9	1394.8	0.7795	mg/L	0.7795	mg/L	01:34:53
2	Pb 220.353†	-29.8	-215.9	-0.0106	mg/L	-0.0106	mg/L	01:34:53
2	Sb 206.836†	91.7	56.2	0.0276	mg/L	0.0276	mg/L	01:34:53
2	Se 196.026†	18.5	3.5	0.0064	mg/L	0.0064	mg/L	01:34:53
2	Sn 189.927†	-839.3	-962.4	-0.0042	mg/L	-0.0042	mg/L	01:34:53
2	Sr 407.771†	514972.9	567279.2	0.4805	mg/L	0.4805	mg/L	01:34:04
2	Ti 337.279†	-1341.8	-180.8	0.0026	mg/L	0.0026	mg/L	01:34:43
2	Tl 190.801†	31.9	42.3	0.0035	mg/L	0.0035	mg/L	01:34:53
2	V 292.402†	-732.2	95.0	0.0030	mg/L	0.0030	mg/L	01:34:43
2	Zn 213.857†	19257.5	20353.3	0.1255	mg/L	0.1255	mg/L	01:34:43

Mean Data: 1306383-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3077757.7	0.910	mg/L	0.0040			0.44%
Ag 328.068†	-196.2	-0.0003	mg/L	0.00017	-0.0003	0.00017	57.87%
Al 237.313†	-129.0	-0.0047	mg/L	0.00126	-0.0047	0.00126	26.72%
As 188.979†	10.7	0.0092	mg/L	0.00128	0.0092	0.00128	13.92%
B 249.677†	3272.4	1.338	mg/L	0.0030	1.338	0.0030	0.22%
B 182.528†	1657.4	1.366	mg/L	0.0096	1.366	0.0096	0.70%
Ba 233.527†	6864.2	0.0526	mg/L	0.00067	0.0526	0.00067	1.28%
Be 313.107†	-525.7	0.0000	mg/L	0.00002	0.0000	0.00002	60.99%
Ca 315.887†	20188651.3	180.7	mg/L	1.56	180.7	1.56	0.87%

Cd 228.802†	414.2	0.0126 mg/L	0.00028	0.0126 mg/L	0.00028	2.20%
Co 228.616†	34.2	-0.0015 mg/L	0.00028	-0.0015 mg/L	0.00028	18.26%
Cr 267.716†	39.2	0.0008 mg/L	0.00039	0.0008 mg/L	0.00039	47.11%
Cu 324.752†	1156.1	0.0062 mg/L	0.00009	0.0062 mg/L	0.00009	1.51%
Fe 234.349†	364.8	-0.1059 mg/L	0.00068	-0.1059 mg/L	0.00068	0.64%
K 766.490†	31360.8	13.54 mg/L	0.007	13.54 mg/L	0.007	0.06%
Li 670.784†	2295.0	0.0558 mg/L	0.00280	0.0558 mg/L	0.00280	5.02%
Mg 279.077†	513442.5	33.34 mg/L	0.595	33.34 mg/L	0.595	1.79%
Mn 257.610†	5044.1	0.0053 mg/L	0.00015	0.0053 mg/L	0.00015	2.81%
Mn 294.920†	237.3	0.0003 mg/L	0.00046	0.0003 mg/L	0.00046	137.19%
Mo 202.031†	700.2	0.0290 mg/L	0.00078	0.0290 mg/L	0.00078	2.68%
Na 589.592†	307110.1	41.24 mg/L	0.086	41.24 mg/L	0.086	0.21%
Ni 231.604†	156.6	0.0024 mg/L	0.00014	0.0024 mg/L	0.00014	5.59%
P 214.914†	1388.5	0.7762 mg/L	0.00464	0.7762 mg/L	0.00464	0.60%
Pb 220.353†	-179.5	-0.0085 mg/L	0.00301	-0.0085 mg/L	0.00301	35.49%
Sb 206.836†	57.3	0.0280 mg/L	0.00062	0.0280 mg/L	0.00062	2.23%
Se 196.026†	6.0	0.0078 mg/L	0.00194	0.0078 mg/L	0.00194	24.97%
Sn 189.927†	-943.5	-0.0026 mg/L	0.00231	-0.0026 mg/L	0.00231	90.67%
Sr 407.771†	568939.4	0.4819 mg/L	0.00199	0.4819 mg/L	0.00199	0.41%
Ti 337.279†	-232.9	0.0025 mg/L	0.00008	0.0025 mg/L	0.00008	2.97%
Tl 190.801†	37.8	0.0003 mg/L	0.00461	0.0003 mg/L	0.00461	>999.9%
V 292.402†	78.6	0.0029 mg/L	0.00008	0.0029 mg/L	0.00008	2.59%
Zn 213.857†	20087.4	0.1238 mg/L	0.00231	0.1238 mg/L	0.00231	1.87%

Sequence No.: 150
Sample ID: 1306383-06
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 6/26/2013 1:36:29 AM
Data Type: Reprocessed on 6/26/2013 10:57:49 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306383-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	2950520.6	2950520.6	0.873	mg/L			01:38:49
1	Ag 328.068†	535.5	-123.2	0.0001	mg/L	0.0001	mg/L	01:38:51
1	Al 237.313†	-456.7	-135.9	-0.0052	mg/L	-0.0052	mg/L	01:39:02
1	As 188.979†	0.7	-0.3	0.0025	mg/L	0.0025	mg/L	01:39:02
1	B 249.677†	1297.0	1501.5	0.6153	mg/L	0.6153	mg/L	01:38:24
1	B 182.528†	645.2	746.4	0.6171	mg/L	0.6171	mg/L	01:39:02
1	Ba 233.527†	33163.9	38092.1	0.2894	mg/L	0.2894	mg/L	01:38:51
1	Be 313.107†	-1682.4	-495.2	0.0000	mg/L	0.0000	mg/L	01:38:51
1	Ca 315.887†	15171502.9	17386592.2	155.6	mg/L	155.6	mg/L	01:38:47
1	Cd 228.802†	154.2	29.3	0.0023	mg/L	0.0023	mg/L	01:39:02
1	Co 228.616†	-108.2	53.9	-0.0012	mg/L	-0.0012	mg/L	01:39:02
1	Cr 267.716†	4885.4	4887.6	0.0377	mg/L	0.0377	mg/L	01:38:51
1	Cu 324.752†	5469.7	2311.3	0.0112	mg/L	0.0112	mg/L	01:38:51
1	Fe 234.349†	293.3	337.8	-0.0780	mg/L	-0.0780	mg/L	01:38:24
1	K 766.490†	166642.2	190219.5	81.37	mg/L	81.37	mg/L	01:38:14
1	Li 670.784†	-134.3	118.7	0.0047	mg/L	0.0047	mg/L	01:38:14
1	Mg 279.077†	293440.4	335981.9	21.82	mg/L	21.82	mg/L	01:38:49
1	Mn 257.610†	858993.8	968314.9	1.042	mg/L	1.042	mg/L	01:38:49
1	Mn 294.920†	421814.1	484020.9	1.032	mg/L	1.032	mg/L	01:38:51
1	Mo 202.031†	566.1	659.2	0.0275	mg/L	0.0275	mg/L	01:39:02
1	Na 589.592†	4335055.5	4963556.3	665.2	mg/L	665.2	mg/L	01:38:09
1	Ni 231.604†	282.7	146.8	0.0022	mg/L	0.0022	mg/L	01:39:02
1	P 214.914†	878.1	1052.3	0.5999	mg/L	0.5999	mg/L	01:39:02
1	Pb 220.353†	27.8	-151.2	-0.0068	mg/L	-0.0068	mg/L	01:39:02
1	Sb 206.836†	56.5	19.9	0.0124	mg/L	0.0124	mg/L	01:39:02
1	Se 196.026†	-4.4	-21.9	-0.0077	mg/L	-0.0077	mg/L	01:39:02
1	Sn 189.927†	-745.1	-891.3	-0.0117	mg/L	-0.0117	mg/L	01:39:02
1	Sr 407.771†	1438658.2	1648393.3	1.396	mg/L	1.396	mg/L	01:38:12
1	Ti 337.279†	-1451.9	-365.9	0.0024	mg/L	0.0024	mg/L	01:38:51
1	Tl 190.801†	24.0	34.6	0.0018	mg/L	0.0018	mg/L	01:39:02
1	V 292.402†	-862.6	-86.6	0.0025	mg/L	0.0025	mg/L	01:38:51
1	Zn 213.857†	5527.2	5464.5	0.0340	mg/L	0.0340	mg/L	01:39:02
2	Y 371.029	2966410.2	2966410.2	0.877	mg/L			01:39:08
2	Ag 328.068†	499.0	-168.1	-0.0002	mg/L	-0.0002	mg/L	01:39:10
2	Al 237.313†	-476.7	-155.9	-0.0071	mg/L	-0.0071	mg/L	01:39:20
2	As 188.979†	4.1	3.6	0.0048	mg/L	0.0048	mg/L	01:39:20
2	B 249.677†	1299.0	1495.9	0.6130	mg/L	0.6130	mg/L	01:38:41

2	B	182.528†	650.3	748.1	0.6186	mg/L	0.6186	mg/L	01:39:20
2	Ba	233.527†	33484.2	38253.7	0.2906	mg/L	0.2906	mg/L	01:39:10
2	Be	313.107†	-1670.4	-471.2	0.0001	mg/L	0.0001	mg/L	01:39:10
2	Ca	315.887†	15151490.3	17270653.9	154.6	mg/L	154.6	mg/L	01:39:05
2	Cd	228.802†	160.3	35.2	0.0024	mg/L	0.0024	mg/L	01:39:20
2	Co	228.616†	-121.4	39.5	-0.0014	mg/L	-0.0014	mg/L	01:39:20
2	Cr	267.716†	4911.0	4886.8	0.0377	mg/L	0.0377	mg/L	01:39:10
2	Cu	324.752†	5512.8	2326.9	0.0112	mg/L	0.0112	mg/L	01:39:10
2	Fe	234.349†	299.7	343.3	-0.0736	mg/L	-0.0736	mg/L	01:38:41
2	K	766.490†	166393.2	188912.9	80.81	mg/L	80.81	mg/L	01:38:31
2	Li	670.784†	-76.9	184.9	0.0062	mg/L	0.0062	mg/L	01:38:31
2	Mg	279.077†	295216.9	336205.6	21.83	mg/L	21.83	mg/L	01:39:08
2	Mn	257.610†	865935.3	970954.2	1.044	mg/L	1.044	mg/L	01:39:08
2	Mn	294.920†	425587.9	485733.2	1.036	mg/L	1.036	mg/L	01:39:10
2	Mo	202.031†	600.6	695.0	0.0288	mg/L	0.0288	mg/L	01:39:20
2	Na	589.592†	4374903.4	4982365.6	667.7	mg/L	667.7	mg/L	01:38:27
2	Ni	231.604†	289.8	153.1	0.0024	mg/L	0.0024	mg/L	01:39:20
2	P	214.914†	904.5	1077.0	0.6128	mg/L	0.6128	mg/L	01:39:20
2	Pb	220.353†	43.7	-133.3	-0.0058	mg/L	-0.0058	mg/L	01:39:20
2	Sb	206.836†	50.0	12.2	0.0092	mg/L	0.0092	mg/L	01:39:20
2	Se	196.026†	7.3	-8.6	-0.0003	mg/L	-0.0003	mg/L	01:39:20
2	Sn	189.927†	-747.3	-889.3	-0.0120	mg/L	-0.0120	mg/L	01:39:20
2	Sr	407.771†	1443946.2	1645589.7	1.393	mg/L	1.393	mg/L	01:38:29
2	Ti	337.279†	-1331.4	-219.7	0.0026	mg/L	0.0026	mg/L	01:39:10
2	Tl	190.801†	20.8	30.8	-0.0010	mg/L	-0.0010	mg/L	01:39:20
2	V	292.402†	-904.1	-128.7	0.0023	mg/L	0.0023	mg/L	01:39:10
2	Zn	213.857†	5540.7	5446.0	0.0339	mg/L	0.0339	mg/L	01:39:20

Mean Data: 1306383-06

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2958465.4	0.875	mg/L	0.0033				0.38%
Ag 328.068†	-145.6	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	344.77%
Al 237.313†	-145.9	-0.0061	mg/L	0.00130	-0.0061	mg/L	0.00130	21.14%
As 188.979†	1.6	0.0036	mg/L	0.00167	0.0036	mg/L	0.00167	45.79%
B 249.677†	1498.7	0.6142	mg/L	0.00162	0.6142	mg/L	0.00162	0.26%
B 182.528†	747.2	0.6178	mg/L	0.00103	0.6178	mg/L	0.00103	0.17%
Ba 233.527†	38172.9	0.2900	mg/L	0.00087	0.2900	mg/L	0.00087	0.30%
Be 313.107†	-483.2	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	12.40%
Ca 315.887†	17328623.1	155.1	mg/L	0.73	155.1	mg/L	0.73	0.47%
Cd 228.802†	32.3	0.0024	mg/L	0.00011	0.0024	mg/L	0.00011	4.77%
Co 228.616†	46.7	-0.0013	mg/L	0.00016	-0.0013	mg/L	0.00016	12.31%
Cr 267.716†	4887.2	0.0377	mg/L	0.00000	0.0377	mg/L	0.00000	0.01%
Cu 324.752†	2319.1	0.0112	mg/L	0.00005	0.0112	mg/L	0.00005	0.42%
Fe 234.349†	340.5	-0.0758	mg/L	0.00312	-0.0758	mg/L	0.00312	4.12%
K 766.490†	189566.2	81.09	mg/L	0.395	81.09	mg/L	0.395	0.49%
Li 670.784†	151.8	0.0055	mg/L	0.00110	0.0055	mg/L	0.00110	20.13%
Mg 279.077†	336093.7	21.82	mg/L	0.010	21.82	mg/L	0.010	0.05%
Mn 257.610†	969634.5	1.043	mg/L	0.0020	1.043	mg/L	0.0020	0.19%
Mn 294.920†	484877.1	1.034	mg/L	0.0026	1.034	mg/L	0.0026	0.25%
Mo 202.031†	677.1	0.0281	mg/L	0.00095	0.0281	mg/L	0.00095	3.38%
Na 589.592†	4972960.9	666.4	mg/L	1.78	666.4	mg/L	1.78	0.27%
Ni 231.604†	150.0	0.0023	mg/L	0.00008	0.0023	mg/L	0.00008	3.68%
P 214.914†	1064.6	0.6063	mg/L	0.00914	0.6063	mg/L	0.00914	1.51%
Pb 220.353†	-142.3	-0.0063	mg/L	0.00074	-0.0063	mg/L	0.00074	11.79%
Sb 206.836†	16.1	0.0108	mg/L	0.00221	0.0108	mg/L	0.00221	20.42%
Se 196.026†	-15.3	-0.0040	mg/L	0.00523	-0.0040	mg/L	0.00523	131.09%
Sn 189.927†	-890.3	-0.0118	mg/L	0.00028	-0.0118	mg/L	0.00028	2.33%
Sr 407.771†	1646991.5	1.394	mg/L	0.0017	1.394	mg/L	0.0017	0.12%
Ti 337.279†	-292.8	0.0025	mg/L	0.00011	0.0025	mg/L	0.00011	4.27%
Tl 190.801†	32.7	0.0004	mg/L	0.00192	0.0004	mg/L	0.00192	471.81%
V 292.402†	-107.6	0.0024	mg/L	0.00010	0.0024	mg/L	0.00010	4.27%
Zn 213.857†	5455.2	0.0340	mg/L	0.00008	0.0340	mg/L	0.00008	0.24%

Sequence No.: 151
Sample ID: 1306399-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 6/26/2013 1:40:57 AM
Data Type: Reprocessed on 6/26/2013 10:57:49 AM
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	2485431.8	2485431.8	0.735	mg/L			01:43:03
1	Ag 328.068†	473.6	-92.5	0.0004	mg/L	0.0004	mg/L	01:43:03
1	Al 237.313†	302.3	798.7	0.0803	mg/L	0.0803	mg/L	01:43:03
1	As 188.979†	44.8	59.9	0.0393	mg/L	0.0393	mg/L	01:43:13
1	B 249.677†	6287.8	8569.1	3.500	mg/L	3.500	mg/L	01:42:44
1	B 182.528†	2709.3	3692.7	3.038	mg/L	3.038	mg/L	01:43:03
1	Ba 233.527†	10534.2	14418.4	0.1099	mg/L	0.1099	mg/L	01:43:13
1	Be 313.107†	-2070.5	-1384.0	-0.0003	mg/L	-0.0003	mg/L	01:43:03
1	Ca 315.887†	32048207.4	43598910.2	390.2	mg/L	390.2	mg/L	01:43:00
1	Cd 228.802†	136.1	37.7	0.0024	mg/L	0.0024	mg/L	01:43:13
1	Co 228.616†	304.6	592.3	0.0074	mg/L	0.0074	mg/L	01:43:13
1	Cr 267.716†	698.5	239.4	0.0024	mg/L	0.0024	mg/L	01:43:13
1	Cu 324.752†	3606.3	949.3	0.0054	mg/L	0.0054	mg/L	01:43:03
1	Fe 234.349†	11673.4	15882.1	7.233	mg/L	7.233	mg/L	01:42:44
1	K 766.490†	890104.5	1210147.8	516.9	mg/L	516.9	mg/L	01:42:42
1	Li 670.784†	15200.5	20951.2	0.4939	mg/L	0.4939	mg/L	01:42:44
1	Mg 279.077†	9534177.3	12969950.7	842.2	mg/L	842.2	mg/L	01:43:00
1	Mn 257.610†	3497915.0	4742488.7	5.100	mg/L	5.100	mg/L	01:43:03
1	Mn 294.920†	1729108.6	2352909.7	5.019	mg/L	5.019	mg/L	01:43:03
1	Mo 202.031†	700.9	963.9	0.0378	mg/L	0.0378	mg/L	01:43:13
1	Na 589.592†	Saturated2	Saturated2					01:42:44
Saturated in preshot (code 2)								
1	Ni 231.604†	636.8	689.1	0.0124	mg/L	0.0124	mg/L	01:43:13
1	P 214.914†	1658.3	2301.9	1.255	mg/L	1.255	mg/L	01:43:13
1	Pb 220.353†	-32.4	-227.2	-0.0113	mg/L	-0.0113	mg/L	01:43:13
1	Sb 206.836†	47.7	20.1	0.0096	mg/L	0.0096	mg/L	01:43:13
1	Se 196.026†	61.6	66.9	0.0419	mg/L	0.0419	mg/L	01:43:13
1	Sn 189.927†	-1204.3	-1675.8	0.0371	mg/L	0.0371	mg/L	01:43:13
1	Sr 407.771†	6280484.7	8543688.6	7.232	mg/L	7.232	mg/L	01:42:39
1	Ti 337.279†	384.2	1820.5	0.0047	mg/L	0.0047	mg/L	01:43:03
1	Tl 190.801†	80.5	116.6	0.0242	mg/L	0.0242	mg/L	01:43:13
1	V 292.402†	-395.7	363.5	0.0043	mg/L	0.0043	mg/L	01:43:13
1	Zn 213.857†	4765.8	5614.0	0.0345	mg/L	0.0345	mg/L	01:43:13
2	Y 371.029	2460666.9	2460666.9	0.728	mg/L			01:43:23
2	Ag 328.068†	357.1	-246.1	-0.0003	mg/L	-0.0003	mg/L	01:43:23
2	Al 237.313†	474.1	1039.0	0.1023	mg/L	0.1023	mg/L	01:43:23
2	As 188.979†	36.4	48.9	0.0326	mg/L	0.0326	mg/L	01:43:34
2	B 249.677†	6222.8	8565.8	3.498	mg/L	3.498	mg/L	01:42:51
2	B 182.528†	2658.1	3659.4	3.010	mg/L	3.010	mg/L	01:43:23
2	Ba 233.527†	10498.2	14513.2	0.1106	mg/L	0.1106	mg/L	01:43:34
2	Be 313.107†	-2042.4	-1373.6	-0.0003	mg/L	-0.0003	mg/L	01:43:23
2	Ca 315.887†	32464779.6	44610100.8	399.3	mg/L	399.3	mg/L	01:43:20
2	Cd 228.802†	153.1	63.0	0.0031	mg/L	0.0031	mg/L	01:43:34
2	Co 228.616†	287.9	573.5	0.0071	mg/L	0.0071	mg/L	01:43:34
2	Cr 267.716†	678.5	221.4	0.0022	mg/L	0.0022	mg/L	01:43:34
2	Cu 324.752†	3636.3	1039.9	0.0057	mg/L	0.0057	mg/L	01:43:23
2	Fe 234.349†	11473.1	15766.7	7.161	mg/L	7.161	mg/L	01:42:51
2	K 766.490†	883878.7	1213779.9	518.5	mg/L	518.5	mg/L	01:42:49
2	Li 670.784†	14906.5	20755.4	0.4893	mg/L	0.4893	mg/L	01:42:51
2	Mg 279.077†	9663328.6	13277951.8	862.2	mg/L	862.2	mg/L	01:43:20
2	Mn 257.610†	3475231.1	4759210.4	5.118	mg/L	5.118	mg/L	01:43:23
2	Mn 294.920†	1717652.2	2360841.6	5.036	mg/L	5.036	mg/L	01:43:23
2	Mo 202.031†	725.5	1007.4	0.0394	mg/L	0.0394	mg/L	01:43:34
2	Na 589.592†	Saturated2	Saturated2					01:42:51
Saturated in preshot (code 2)								
2	Ni 231.604†	624.5	681.0	0.0122	mg/L	0.0122	mg/L	01:43:34
2	P 214.914†	1650.4	2313.9	1.261	mg/L	1.261	mg/L	01:43:34
2	Pb 220.353†	-83.3	-297.6	-0.0154	mg/L	-0.0154	mg/L	01:43:34
2	Sb 206.836†	49.1	22.7	0.0107	mg/L	0.0107	mg/L	01:43:34
2	Se 196.026†	57.8	62.5	0.0395	mg/L	0.0395	mg/L	01:43:34
2	Sn 189.927†	-1191.8	-1675.1	0.0428	mg/L	0.0428	mg/L	01:43:34
2	Sr 407.771†	6329645.9	8697229.0	7.362	mg/L	7.362	mg/L	01:42:47
2	Ti 337.279†	471.9	1946.4	0.0048	mg/L	0.0048	mg/L	01:43:23
2	Tl 190.801†	86.9	126.5	0.0302	mg/L	0.0302	mg/L	01:43:34
2	V 292.402†	-356.1	412.5	0.0045	mg/L	0.0045	mg/L	01:43:34
2	Zn 213.857†	4732.9	5634.0	0.0346	mg/L	0.0346	mg/L	01:43:34

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2473049.3	0.731 mg/L		0.0052				0.71%
Ag 328.068†	-169.3	0.0000 mg/L		0.00052	0.0000 mg/L		0.00052	>999.9%
Al 237.313†	918.8	0.0913 mg/L		0.01558	0.0913 mg/L		0.01558	17.05%
As 188.979†	54.4	0.0359 mg/L		0.00475	0.0359 mg/L		0.00475	13.22%
B 249.677†	8567.5	3.499 mg/L		0.0009	3.499 mg/L		0.0009	0.03%
B 182.528†	3676.1	3.024 mg/L		0.0193	3.024 mg/L		0.0193	0.64%
Ba 233.527†	14465.8	0.1103 mg/L		0.00051	0.1103 mg/L		0.00051	0.46%
Be 313.107†	-1378.8	-0.0003 mg/L		0.00000	-0.0003 mg/L		0.00000	0.93%
Ca 315.887†	44104505.5	394.7 mg/L		6.40	394.7 mg/L		6.40	1.62%
Cd 228.802†	50.3	0.0027 mg/L		0.00048	0.0027 mg/L		0.00048	17.61%
Co 228.616†	582.9	0.0072 mg/L		0.00021	0.0072 mg/L		0.00021	2.92%
Cr 267.716†	230.4	0.0023 mg/L		0.00010	0.0023 mg/L		0.00010	4.19%
Cu 324.752†	994.6	0.0055 mg/L		0.00027	0.0055 mg/L		0.00027	4.92%
Fe 234.349†	15824.4	7.197 mg/L		0.0509	7.197 mg/L		0.0509	0.71%
K 766.490†	1211963.8	517.7 mg/L		1.10	517.7 mg/L		1.10	0.21%
Li 670.784†	20853.3	0.4916 mg/L		0.00325	0.4916 mg/L		0.00325	0.66%
Mg 279.077†	13123951.2	852.2 mg/L		14.14	852.2 mg/L		14.14	1.66%
Mn 257.610†	4750849.5	5.109 mg/L		0.0127	5.109 mg/L		0.0127	0.25%
Mn 294.920†	2356875.7	5.027 mg/L		0.0120	5.027 mg/L		0.0120	0.24%
Mo 202.031†	985.6	0.0386 mg/L		0.00116	0.0386 mg/L		0.00116	3.00%
Na 589.592†	Saturated2							
Ni 231.604†	685.1	0.0123 mg/L		0.00010	0.0123 mg/L		0.00010	0.85%
P 214.914†	2307.9	1.258 mg/L		0.0044	1.258 mg/L		0.0044	0.35%
Pb 220.353†	-262.4	-0.0133 mg/L		0.00291	-0.0133 mg/L		0.00291	21.84%
Sb 206.836†	21.4	0.0101 mg/L		0.00079	0.0101 mg/L		0.00079	7.77%
Se 196.026†	64.7	0.0407 mg/L		0.00172	0.0407 mg/L		0.00172	4.22%
Sn 189.927†	-1675.4	0.0399 mg/L		0.00402	0.0399 mg/L		0.00402	10.07%
Sr 407.771†	8620458.8	7.297 mg/L		0.0919	7.297 mg/L		0.0919	1.26%
Ti 337.279†	1883.4	0.0047 mg/L		0.00009	0.0047 mg/L		0.00009	1.94%
Tl 190.801†	121.6	0.0272 mg/L		0.00429	0.0272 mg/L		0.00429	15.76%
V 292.402†	388.0	0.0044 mg/L		0.00015	0.0044 mg/L		0.00015	3.46%
Zn 213.857†	5624.0	0.0346 mg/L		0.00009	0.0346 mg/L		0.00009	0.26%

Sequence No.: 152
Sample ID: 1306399-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 6/26/2013 1:46:41 AM
Data Type: Reprocessed on 6/26/2013 10:57:50 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306399-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2491197.5	2491197.5	0.737 mg/L		01:48:46
1	Ag 328.068†	406.7	-184.7	-0.0001 mg/L	-0.0001 mg/L	01:48:46
1	Al 237.313†	1395.1	2281.0	0.2162 mg/L	0.2162 mg/L	01:48:46
1	As 188.979†	21.3	27.9	0.0197 mg/L	0.0197 mg/L	01:48:56
1	B 249.677†	6536.3	8886.5	3.629 mg/L	3.629 mg/L	01:48:27
1	B 182.528†	2889.0	3928.0	3.231 mg/L	3.231 mg/L	01:48:46
1	Ba 233.527†	11190.5	15275.9	0.1164 mg/L	0.1164 mg/L	01:48:56
1	Be 313.107†	-1993.3	-1272.6	-0.0002 mg/L	-0.0002 mg/L	01:48:46
1	Ca 315.887†	32393600.2	43966787.2	393.5 mg/L	393.5 mg/L	01:48:43
1	Cd 228.802†	135.7	36.7	0.0024 mg/L	0.0024 mg/L	01:48:56
1	Co 228.616†	310.7	599.7	0.0075 mg/L	0.0075 mg/L	01:48:56
1	Cr 267.716†	730.5	280.7	0.0027 mg/L	0.0027 mg/L	01:48:56
1	Cu 324.752†	4712.5	2439.4	0.0117 mg/L	0.0117 mg/L	01:48:46
1	Fe 234.349†	7068.9	9595.9	4.115 mg/L	4.115 mg/L	01:48:27
1	K 766.490†	935883.5	1269478.6	542.2 mg/L	542.2 mg/L	01:48:25
1	Li 670.784†	14574.6	20054.0	0.4728 mg/L	0.4728 mg/L	01:48:27
1	Mg 279.077†	9745926.6	13227327.5	858.9 mg/L	858.9 mg/L	01:48:43
1	Mn 257.610†	3765088.9	5094095.9	5.479 mg/L	5.479 mg/L	01:48:46
1	Mn 294.920†	1860890.7	2526326.3	5.389 mg/L	5.389 mg/L	01:48:46
1	Mo 202.031†	719.6	987.1	0.0391 mg/L	0.0391 mg/L	01:48:56
1	Na 589.592†	Saturated2	Saturated2			01:48:27
Saturated in preshot (code 2)						
1	Ni 231.604†	860.4	990.7	0.0180 mg/L	0.0180 mg/L	01:48:56
1	P 214.914†	1370.3	1905.9	1.047 mg/L	1.047 mg/L	01:48:56
1	Pb 220.353†	31.9	-139.8	-0.0062 mg/L	-0.0062 mg/L	01:48:56
1	Sb 206.836†	54.9	29.7	0.0148 mg/L	0.0148 mg/L	01:48:56

1	Se 196.026†	54.3	56.8	0.0362 mg/L	0.0362 mg/L	01:48:56
1	Sn 189.927†	-1196.1	-1660.8	0.0410 mg/L	0.0410 mg/L	01:48:56
1	Sr 407.771†	6498609.2	8819962.6	7.466 mg/L	7.466 mg/L	01:48:22
1	Ti 337.279†	4615.9	7562.8	0.0105 mg/L	0.0105 mg/L	01:48:46
1	Tl 190.801†	95.0	136.1	0.0397 mg/L	0.0397 mg/L	01:48:56
1	V 292.402†	-725.0	-82.1	0.0025 mg/L	0.0025 mg/L	01:48:56
1	Zn 213.857†	5552.2	6666.3	0.0411 mg/L	0.0411 mg/L	01:48:56
2	Y 371.029	2445187.6	2445187.6	0.723 mg/L		01:49:06
2	Ag 328.068†	435.7	-134.4	0.0001 mg/L	0.0001 mg/L	01:49:06
2	Al 237.313†	1428.8	2363.2	0.2238 mg/L	0.2238 mg/L	01:49:06
2	As 188.979†	35.3	47.8	0.0319 mg/L	0.0319 mg/L	01:49:17
2	B 249.677†	6656.2	9219.3	3.765 mg/L	3.765 mg/L	01:48:34
2	B 182.528†	2761.2	3825.2	3.147 mg/L	3.147 mg/L	01:49:06
2	Ba 233.527†	11159.0	15518.2	0.1182 mg/L	0.1182 mg/L	01:49:17
2	Be 313.107†	-2125.6	-1506.5	-0.0003 mg/L	-0.0003 mg/L	01:49:06
2	Ca 315.887†	32610850.6	45094486.2	403.6 mg/L	403.6 mg/L	01:49:03
2	Cd 228.802†	140.4	46.7	0.0027 mg/L	0.0027 mg/L	01:49:17
2	Co 228.616†	357.3	672.0	0.0086 mg/L	0.0086 mg/L	01:49:17
2	Cr 267.716†	736.7	307.9	0.0029 mg/L	0.0029 mg/L	01:49:17
2	Cu 324.752†	4564.9	2355.6	0.0114 mg/L	0.0114 mg/L	01:49:06
2	Fe 234.349†	7178.2	9927.6	4.262 mg/L	4.262 mg/L	01:48:34
2	K 766.490†	933445.9	1290009.2	551.0 mg/L	551.0 mg/L	01:48:32
2	Li 670.784†	14953.1	20949.5	0.4938 mg/L	0.4938 mg/L	01:48:34
2	Mg 279.077†	9816396.8	13573670.4	881.4 mg/L	881.4 mg/L	01:49:03
2	Mn 257.610†	3749329.0	5168458.7	5.559 mg/L	5.559 mg/L	01:49:06
2	Mn 294.920†	1854021.8	2564352.6	5.470 mg/L	5.470 mg/L	01:49:06
2	Mo 202.031†	732.8	1023.7	0.0404 mg/L	0.0404 mg/L	01:49:17
2	Na 589.592†	Saturated2	Saturated2			01:48:34
Saturated in preshot (code 2)						
2	Ni 231.604†	868.0	1023.1	0.0186 mg/L	0.0186 mg/L	01:49:17
2	P 214.914†	1365.5	1934.3	1.062 mg/L	1.062 mg/L	01:49:17
2	Pb 220.353†	-25.2	-217.9	-0.0108 mg/L	-0.0108 mg/L	01:49:17
2	Sb 206.836†	42.4	13.8	0.0083 mg/L	0.0083 mg/L	01:49:17
2	Se 196.026†	61.8	68.6	0.0427 mg/L	0.0427 mg/L	01:49:17
2	Sn 189.927†	-1189.0	-1681.5	0.0447 mg/L	0.0447 mg/L	01:49:17
2	Sr 407.771†	6502429.4	8991210.9	7.611 mg/L	7.611 mg/L	01:48:30
2	Ti 337.279†	4352.3	7316.2	0.0103 mg/L	0.0103 mg/L	01:49:06
2	Tl 190.801†	83.4	122.4	0.0278 mg/L	0.0278 mg/L	01:49:17
2	V 292.402†	-746.1	-129.8	0.0023 mg/L	0.0023 mg/L	01:49:17
2	Zn 213.857†	5495.1	6729.2	0.0415 mg/L	0.0415 mg/L	01:49:17

Mean Data: 1306399-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2468192.5	0.730	mg/L	0.0096			1.32%
Ag 328.068†	-159.6	0.0000	mg/L	0.00017	0.0000 mg/L	0.00017	>999.9%
Al 237.313†	2322.1	0.2200	mg/L	0.00533	0.2200 mg/L	0.00533	2.42%
As 188.979†	37.9	0.0258	mg/L	0.00861	0.0258 mg/L	0.00861	33.39%
B 249.677†	9052.9	3.697	mg/L	0.0960	3.697 mg/L	0.0960	2.60%
B 182.528†	3876.6	3.189	mg/L	0.0598	3.189 mg/L	0.0598	1.87%
Ba 233.527†	15397.1	0.1173	mg/L	0.00130	0.1173 mg/L	0.00130	1.11%
Be 313.107†	-1389.5	-0.0003	mg/L	0.00006	-0.0003 mg/L	0.00006	20.95%
Ca 315.887†	44530636.7	398.6	mg/L	7.14	398.6 mg/L	7.14	1.79%
Cd 228.802†	41.7	0.0025	mg/L	0.00019	0.0025 mg/L	0.00019	7.41%
Co 228.616†	635.8	0.0081	mg/L	0.00082	0.0081 mg/L	0.00082	10.13%
Cr 267.716†	294.3	0.0028	mg/L	0.00015	0.0028 mg/L	0.00015	5.29%
Cu 324.752†	2397.5	0.0115	mg/L	0.00025	0.0115 mg/L	0.00025	2.20%
Fe 234.349†	9761.8	4.189	mg/L	0.1044	4.189 mg/L	0.1044	2.49%
K 766.490†	1279743.9	546.6	mg/L	6.20	546.6 mg/L	6.20	1.13%
Li 670.784†	20501.7	0.4833	mg/L	0.01487	0.4833 mg/L	0.01487	3.08%
Mg 279.077†	13400498.9	870.2	mg/L	15.90	870.2 mg/L	15.90	1.83%
Mn 257.610†	5131277.3	5.519	mg/L	0.0565	5.519 mg/L	0.0565	1.02%
Mn 294.920†	2545339.4	5.429	mg/L	0.0574	5.429 mg/L	0.0574	1.06%
Mo 202.031†	1005.4	0.0398	mg/L	0.00096	0.0398 mg/L	0.00096	2.41%
Na 589.592†	Saturated2						
Ni 231.604†	1006.9	0.0183	mg/L	0.00043	0.0183 mg/L	0.00043	2.34%
P 214.914†	1920.1	1.055	mg/L	0.0105	1.055 mg/L	0.0105	1.00%
Pb 220.353†	-178.9	-0.0085	mg/L	0.00322	-0.0085 mg/L	0.00322	38.07%
Sb 206.836†	21.7	0.0116	mg/L	0.00463	0.0116 mg/L	0.00463	40.06%
Se 196.026†	62.7	0.0394	mg/L	0.00463	0.0394 mg/L	0.00463	11.74%
Sn 189.927†	-1671.2	0.0428	mg/L	0.00262	0.0428 mg/L	0.00262	6.11%
Sr 407.771†	8905586.7	7.539	mg/L	0.1025	7.539 mg/L	0.1025	1.36%

Ti 337.279†	7439.5	0.0104 mg/L	0.00018	0.0104 mg/L	0.00018	1.72%
Tl 190.801†	129.3	0.0338 mg/L	0.00844	0.0338 mg/L	0.00844	25.01%
V 292.402†	-106.0	0.0024 mg/L	0.00012	0.0024 mg/L	0.00012	4.84%
Zn 213.857†	6697.7	0.0413 mg/L	0.00027	0.0413 mg/L	0.00027	0.64%

Sequence No.: 153
Sample ID: 1306405-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 110
Date Collected: 6/26/2013 1:52:24 AM
Data Type: Reprocessed on 6/26/2013 10:57:51 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306405-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3270726.2	3270726.2	0.967 mg/L		01:54:31
1	Ag 328.068†	705.4	-7.5	0.0006 mg/L	0.0006 mg/L	01:54:33
1	Al 237.313†	-194.2	186.7	0.0242 mg/L	0.0242 mg/L	01:54:43
1	As 188.979†	3.1	2.2	0.0040 mg/L	0.0040 mg/L	01:54:43
1	B 249.677†	182.1	203.4	0.0855 mg/L	0.0855 mg/L	01:54:15
1	B 182.528†	89.4	99.3	0.0855 mg/L	0.0855 mg/L	01:54:43
1	Ba 233.527†	2272.0	2436.4	0.0191 mg/L	0.0191 mg/L	01:54:43
1	Be 313.107†	-1534.3	-153.4	0.0002 mg/L	0.0002 mg/L	01:54:33
1	Ca 315.887†	2243408.9	2319878.6	20.77 mg/L	20.77 mg/L	01:54:31
1	Cd 228.802†	151.9	9.6	0.0018 mg/L	0.0018 mg/L	01:54:43
1	Co 228.616†	-113.2	60.9	-0.0011 mg/L	-0.0011 mg/L	01:54:43
1	Cr 267.716†	599.9	-90.7	-0.0002 mg/L	-0.0002 mg/L	01:54:33
1	Cu 324.752†	4178.9	363.3	0.0029 mg/L	0.0029 mg/L	01:54:33
1	Fe 234.349†	254.1	264.4	0.1073 mg/L	0.1073 mg/L	01:54:15
1	K 766.490†	10835.6	10456.4	4.609 mg/L	4.609 mg/L	01:54:05
1	Li 670.784†	-93.2	176.3	0.0060 mg/L	0.0060 mg/L	01:54:05
1	Mg 279.077†	144012.0	148586.9	9.646 mg/L	9.646 mg/L	01:54:33
1	Mn 257.610†	79191.3	65811.1	0.0707 mg/L	0.0707 mg/L	01:54:33
1	Mn 294.920†	30517.3	32188.4	0.0685 mg/L	0.0685 mg/L	01:54:33
1	Mo 202.031†	64.0	76.6	0.0056 mg/L	0.0056 mg/L	01:54:43
1	Na 589.592†	184889.9	186906.5	25.13 mg/L	25.13 mg/L	01:54:05
1	Ni 231.604†	275.0	107.1	0.0015 mg/L	0.0015 mg/L	01:54:43
1	P 214.914†	990.5	1070.0	0.6095 mg/L	0.6095 mg/L	01:54:43
1	Pb 220.353†	262.5	88.2	0.0071 mg/L	0.0071 mg/L	01:54:43
1	Sb 206.836†	37.8	-5.7	0.0020 mg/L	0.0020 mg/L	01:54:43
1	Se 196.026†	16.7	0.4	0.0047 mg/L	0.0047 mg/L	01:54:43
1	Sn 189.927†	-257.2	-303.4	-0.0228 mg/L	-0.0228 mg/L	01:54:43
1	Sr 407.771†	73486.8	75722.5	0.0644 mg/L	0.0644 mg/L	01:54:05
1	Ti 337.279†	-942.0	324.0	0.0031 mg/L	0.0031 mg/L	01:54:33
1	Tl 190.801†	-0.7	6.4	0.0012 mg/L	0.0012 mg/L	01:54:43
1	V 292.402†	-743.5	133.2	0.0029 mg/L	0.0029 mg/L	01:54:33
1	Zn 213.857†	10251.6	9728.3	0.0602 mg/L	0.0602 mg/L	01:54:43
2	Y 371.029	3234565.3	3234565.3	0.957 mg/L		01:54:46
2	Ag 328.068†	646.9	-60.5	0.0004 mg/L	0.0004 mg/L	01:54:48
2	Al 237.313†	-201.6	176.7	0.0233 mg/L	0.0233 mg/L	01:54:58
2	As 188.979†	5.4	4.6	0.0054 mg/L	0.0054 mg/L	01:54:58
2	B 249.677†	177.9	201.1	0.0846 mg/L	0.0846 mg/L	01:54:27
2	B 182.528†	91.4	102.5	0.0881 mg/L	0.0881 mg/L	01:54:58
2	Ba 233.527†	2257.1	2447.1	0.0191 mg/L	0.0191 mg/L	01:54:58
2	Be 313.107†	-1531.1	-167.7	0.0002 mg/L	0.0002 mg/L	01:54:48
2	Ca 315.887†	2239195.7	2341401.6	20.96 mg/L	20.96 mg/L	01:54:46
2	Cd 228.802†	155.9	15.5	0.0019 mg/L	0.0019 mg/L	01:54:58
2	Co 228.616†	-101.5	71.8	-0.0009 mg/L	-0.0009 mg/L	01:54:58
2	Cr 267.716†	645.4	-36.2	0.0002 mg/L	0.0002 mg/L	01:54:48
2	Cu 324.752†	4231.7	466.9	0.0033 mg/L	0.0033 mg/L	01:54:48
2	Fe 234.349†	247.9	260.8	0.1053 mg/L	0.1053 mg/L	01:54:27
2	K 766.490†	10943.0	10693.9	4.710 mg/L	4.710 mg/L	01:54:17
2	Li 670.784†	-40.6	230.1	0.0073 mg/L	0.0073 mg/L	01:54:17
2	Mg 279.077†	145677.0	151991.8	9.867 mg/L	9.867 mg/L	01:54:48
2	Mn 257.610†	79939.5	67508.4	0.0725 mg/L	0.0725 mg/L	01:54:48
2	Mn 294.920†	30592.6	32619.8	0.0694 mg/L	0.0694 mg/L	01:54:48
2	Mo 202.031†	63.4	76.7	0.0056 mg/L	0.0056 mg/L	01:54:58
2	Na 589.592†	180333.5	184280.3	24.78 mg/L	24.78 mg/L	01:54:17
2	Ni 231.604†	278.4	113.9	0.0016 mg/L	0.0016 mg/L	01:54:58
2	P 214.914†	995.5	1086.7	0.6182 mg/L	0.6182 mg/L	01:54:58
2	Pb 220.353†	279.9	109.5	0.0083 mg/L	0.0083 mg/L	01:54:58

2	Sb 206.836†	44.6	1.8	0.0051 mg/L	0.0051 mg/L	01:54:58
2	Se 196.026†	11.9	-4.4	0.0020 mg/L	0.0020 mg/L	01:54:58
2	Sn 189.927†	-246.6	-295.2	-0.0217 mg/L	-0.0217 mg/L	01:54:58
2	Sr 407.771†	73531.7	76618.7	0.0652 mg/L	0.0652 mg/L	01:54:17
2	Ti 337.279†	-1170.4	74.4	0.0029 mg/L	0.0029 mg/L	01:54:48
2	Tl 190.801†	-2.9	4.1	-0.0005 mg/L	-0.0005 mg/L	01:54:58
2	V 292.402†	-863.9	-1.2	0.0023 mg/L	0.0023 mg/L	01:54:48
2	Zn 213.857†	10181.0	9773.0	0.0605 mg/L	0.0605 mg/L	01:54:58

Mean Data: 1306405-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3252645.8	0.962 mg/L		0.0076			0.79%
Ag 328.068†	-34.0	0.0005 mg/L		0.00018	0.0005 mg/L	0.00018	36.69%
Al 237.313†	181.7	0.0238 mg/L		0.00064	0.0238 mg/L	0.00064	2.71%
As 188.979†	3.4	0.0047 mg/L		0.00103	0.0047 mg/L	0.00103	21.79%
B 249.677†	202.3	0.0851 mg/L		0.00066	0.0851 mg/L	0.00066	0.77%
B 182.528†	100.9	0.0868 mg/L		0.00184	0.0868 mg/L	0.00184	2.12%
Ba 233.527†	2441.8	0.0191 mg/L		0.00006	0.0191 mg/L	0.00006	0.30%
Be 313.107†	-160.6	0.0002 mg/L		0.00000	0.0002 mg/L	0.00000	2.23%
Ca 315.887†	2330640.1	20.87 mg/L		0.136	20.87 mg/L	0.136	0.65%
Cd 228.802†	12.6	0.0018 mg/L		0.00011	0.0018 mg/L	0.00011	6.12%
Co 228.616†	66.4	-0.0010 mg/L		0.00012	-0.0010 mg/L	0.00012	12.22%
Cr 267.716†	-63.4	0.0000 mg/L		0.00029	0.0000 mg/L	0.00029	>999.9%
Cu 324.752†	415.1	0.0031 mg/L		0.00031	0.0031 mg/L	0.00031	10.12%
Fe 234.349†	262.6	0.1063 mg/L		0.00147	0.1063 mg/L	0.00147	1.38%
K 766.490†	10575.1	4.659 mg/L		0.0717	4.659 mg/L	0.0717	1.54%
Li 670.784†	203.2	0.0067 mg/L		0.00089	0.0067 mg/L	0.00089	13.41%
Mg 279.077†	150289.3	9.757 mg/L		0.1563	9.757 mg/L	0.1563	1.60%
Mn 257.610†	66659.8	0.0716 mg/L		0.00129	0.0716 mg/L	0.00129	1.80%
Mn 294.920†	32404.1	0.0689 mg/L		0.00065	0.0689 mg/L	0.00065	0.94%
Mo 202.031†	76.7	0.0056 mg/L		0.00000	0.0056 mg/L	0.00000	0.04%
Na 589.592†	185593.4	24.95 mg/L		0.249	24.95 mg/L	0.249	1.00%
Ni 231.604†	110.5	0.0015 mg/L		0.00009	0.0015 mg/L	0.00009	5.77%
P 214.914†	1078.4	0.6138 mg/L		0.00619	0.6138 mg/L	0.00619	1.01%
Pb 220.353†	98.9	0.0077 mg/L		0.00088	0.0077 mg/L	0.00088	11.39%
Sb 206.836†	-1.9	0.0036 mg/L		0.00218	0.0036 mg/L	0.00218	61.46%
Se 196.026†	-2.0	0.0033 mg/L		0.00190	0.0033 mg/L	0.00190	56.80%
Sn 189.927†	-299.3	-0.0223 mg/L		0.00079	-0.0223 mg/L	0.00079	3.57%
Sr 407.771†	76170.6	0.0648 mg/L		0.00054	0.0648 mg/L	0.00054	0.83%
Ti 337.279†	199.2	0.0030 mg/L		0.00018	0.0030 mg/L	0.00018	6.05%
Tl 190.801†	5.3	0.0003 mg/L		0.00121	0.0003 mg/L	0.00121	353.11%
V 292.402†	66.0	0.0026 mg/L		0.00037	0.0026 mg/L	0.00037	14.22%
Zn 213.857†	9750.7	0.0604 mg/L		0.00019	0.0604 mg/L	0.00019	0.32%

Sequence No.: 154

Sample ID: 1306405-02

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 111

Date Collected: 6/26/2013 1:56:35 AM

Data Type: Reprocessed on 6/26/2013 10:57:51 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306405-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3298070.1	3298070.1	0.975 mg/L			01:58:45
1	Ag 328.068†	610.7	-110.8	0.0001 mg/L		0.0001 mg/L	01:58:47
1	Al 237.313†	-418.4	-41.5	0.0033 mg/L		0.0033 mg/L	01:58:57
1	As 188.979†	2.8	1.8	0.0037 mg/L		0.0037 mg/L	01:58:57
1	B 249.677†	135.0	153.6	0.0652 mg/L		0.0652 mg/L	01:58:28
1	B 182.528†	72.8	81.6	0.0709 mg/L		0.0709 mg/L	01:58:57
1	Ba 233.527†	3846.7	4031.4	0.0312 mg/L		0.0312 mg/L	01:58:57
1	Be 313.107†	-1327.4	71.9	0.0002 mg/L		0.0002 mg/L	01:58:47
1	Ca 315.887†	3570215.8	3660887.1	32.77 mg/L		32.77 mg/L	01:58:45
1	Cd 228.802†	139.8	-4.1	0.0014 mg/L		0.0014 mg/L	01:58:57
1	Co 228.616†	-187.3	-14.1	-0.0023 mg/L		-0.0023 mg/L	01:58:57
1	Cr 267.716†	679.2	-14.5	0.0004 mg/L		0.0004 mg/L	01:58:47
1	Cu 324.752†	3647.6	-217.2	0.0004 mg/L		0.0004 mg/L	01:58:47
1	Fe 234.349†	91.7	95.7	0.0041 mg/L		0.0041 mg/L	01:58:28
1	K 766.490†	10238.3	9751.2	4.307 mg/L		4.307 mg/L	01:58:18

1	Li	670.784†	-71.7	199.1	0.0066	mg/L	0.0066	mg/L	01:58:18
1	Mg	279.077†	215990.7	221144.9	14.36	mg/L	14.36	mg/L	01:58:47
1	Mn	257.610†	28901.3	13575.3	0.0145	mg/L	0.0145	mg/L	01:58:47
1	Mn	294.920†	5454.4	6232.4	0.0131	mg/L	0.0131	mg/L	01:58:47
1	Mo	202.031†	125.7	139.3	0.0080	mg/L	0.0080	mg/L	01:58:57
1	Na	589.592†	146185.9	145642.7	19.60	mg/L	19.60	mg/L	01:58:18
1	Ni	231.604†	166.6	-6.4	-0.0006	mg/L	-0.0006	mg/L	01:58:57
1	P	214.914†	2346.9	2452.1	1.334	mg/L	1.334	mg/L	01:58:57
1	Pb	220.353†	199.5	21.4	0.0032	mg/L	0.0032	mg/L	01:58:57
1	Sb	206.836†	52.6	9.1	0.0081	mg/L	0.0081	mg/L	01:58:57
1	Se	196.026†	13.5	-3.1	0.0027	mg/L	0.0027	mg/L	01:58:57
1	Sn	189.927†	-353.0	-399.4	-0.0272	mg/L	-0.0272	mg/L	01:58:57
1	Sr	407.771†	104820.5	107215.9	0.0911	mg/L	0.0911	mg/L	01:58:18
1	Ti	337.279†	-1434.8	-173.0	0.0026	mg/L	0.0026	mg/L	01:58:47
1	Tl	190.801†	3.2	10.4	0.0025	mg/L	0.0025	mg/L	01:58:57
1	V	292.402†	-811.1	70.3	0.0027	mg/L	0.0027	mg/L	01:58:47
1	Zn	213.857†	4908.0	4162.2	0.0261	mg/L	0.0261	mg/L	01:58:57
2	Y	371.029	3270518.8	3270518.8	0.967	mg/L			01:59:00
2	Ag	328.068†	664.1	-50.3	0.0004	mg/L	0.0004	mg/L	01:59:02
2	Al	237.313†	-403.7	-29.9	0.0044	mg/L	0.0044	mg/L	01:59:13
2	As	188.979†	2.3	1.4	0.0035	mg/L	0.0035	mg/L	01:59:13
2	B	249.677†	136.8	156.7	0.0665	mg/L	0.0665	mg/L	01:58:41
2	B	182.528†	66.9	76.1	0.0664	mg/L	0.0664	mg/L	01:59:13
2	Ba	233.527†	3874.5	4093.3	0.0316	mg/L	0.0316	mg/L	01:59:13
2	Be	313.107†	-1346.4	40.8	0.0002	mg/L	0.0002	mg/L	01:59:02
2	Ca	315.887†	3543606.1	3664211.0	32.80	mg/L	32.80	mg/L	01:59:00
2	Cd	228.802†	139.8	-2.9	0.0014	mg/L	0.0014	mg/L	01:59:13
2	Co	228.616†	-166.9	5.4	-0.0020	mg/L	-0.0020	mg/L	01:59:13
2	Cr	267.716†	648.2	-40.7	0.0002	mg/L	0.0002	mg/L	01:59:02
2	Cu	324.752†	3634.0	-199.8	0.0005	mg/L	0.0005	mg/L	01:59:02
2	Fe	234.349†	96.2	101.1	0.0067	mg/L	0.0067	mg/L	01:58:41
2	K	766.490†	10191.5	9791.2	4.325	mg/L	4.325	mg/L	01:58:31
2	Li	670.784†	5.3	278.1	0.0084	mg/L	0.0084	mg/L	01:58:31
2	Mg	279.077†	216009.8	223030.0	14.48	mg/L	14.48	mg/L	01:59:02
2	Mn	257.610†	28956.4	13881.9	0.0149	mg/L	0.0149	mg/L	01:59:02
2	Mn	294.920†	5374.1	6196.5	0.0130	mg/L	0.0130	mg/L	01:59:02
2	Mo	202.031†	115.8	130.2	0.0077	mg/L	0.0077	mg/L	01:59:13
2	Na	589.592†	146510.2	147240.5	19.82	mg/L	19.82	mg/L	01:58:31
2	Ni	231.604†	150.2	-21.8	-0.0009	mg/L	-0.0009	mg/L	01:59:13
2	P	214.914†	2358.2	2484.0	1.351	mg/L	1.351	mg/L	01:59:13
2	Pb	220.353†	167.9	-9.5	0.0014	mg/L	0.0014	mg/L	01:59:13
2	Sb	206.836†	47.7	4.5	0.0062	mg/L	0.0062	mg/L	01:59:13
2	Se	196.026†	4.9	-11.8	-0.0021	mg/L	-0.0021	mg/L	01:59:13
2	Sn	189.927†	-370.9	-420.9	-0.0298	mg/L	-0.0298	mg/L	01:59:13
2	Sr	407.771†	105937.0	109275.5	0.0928	mg/L	0.0928	mg/L	01:58:31
2	Ti	337.279†	-1578.6	-334.1	0.0024	mg/L	0.0024	mg/L	01:59:02
2	Tl	190.801†	8.0	15.4	0.0062	mg/L	0.0062	mg/L	01:59:13
2	V	292.402†	-804.6	70.1	0.0027	mg/L	0.0027	mg/L	01:59:02
2	Zn	213.857†	4900.0	4196.4	0.0263	mg/L	0.0263	mg/L	01:59:13

Mean Data: 1306405-02

Analyte	Mean Corrected		Calib		Sample			RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	
Y 371.029	3284294.5	0.971	mg/L	0.0058				0.59%
Ag 328.068†	-80.5	0.0003	mg/L	0.00021	0.0003	mg/L	0.00021	77.35%
Al 237.313†	-35.7	0.0038	mg/L	0.00075	0.0038	mg/L	0.00075	19.60%
As 188.979†	1.6	0.0036	mg/L	0.00019	0.0036	mg/L	0.00019	5.20%
B 249.677†	155.1	0.0658	mg/L	0.00088	0.0658	mg/L	0.00088	1.33%
B 182.528†	78.8	0.0687	mg/L	0.00320	0.0687	mg/L	0.00320	4.65%
Ba 233.527†	4062.3	0.0314	mg/L	0.00033	0.0314	mg/L	0.00033	1.06%
Be 313.107†	56.3	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	3.32%
Ca 315.887†	3662549.1	32.79	mg/L	0.021	32.79	mg/L	0.021	0.06%
Cd 228.802†	-3.5	0.0014	mg/L	0.00002	0.0014	mg/L	0.00002	1.62%
Co 228.616†	-4.4	-0.0021	mg/L	0.00022	-0.0021	mg/L	0.00022	10.26%
Cr 267.716†	-27.6	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	46.73%
Cu 324.752†	-208.5	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	12.48%
Fe 234.349†	98.4	0.0054	mg/L	0.00186	0.0054	mg/L	0.00186	34.48%
K 766.490†	9771.2	4.316	mg/L	0.0121	4.316	mg/L	0.0121	0.28%
Li 670.784†	238.6	0.0075	mg/L	0.00131	0.0075	mg/L	0.00131	17.50%
Mg 279.077†	222087.4	14.42	mg/L	0.087	14.42	mg/L	0.087	0.60%
Mn 257.610†	13728.6	0.0147	mg/L	0.00023	0.0147	mg/L	0.00023	1.58%
Mn 294.920†	6214.5	0.0131	mg/L	0.00005	0.0131	mg/L	0.00005	0.41%

Mo 202.031†	134.7	0.0078 mg/L	0.00024	0.0078 mg/L	0.00024	3.09%
Na 589.592†	146441.6	19.71 mg/L	0.151	19.71 mg/L	0.151	0.77%
Ni 231.604†	-14.1	-0.0008 mg/L	0.00020	-0.0008 mg/L	0.00020	26.25%
P 214.914†	2468.0	1.342 mg/L	0.0118	1.342 mg/L	0.0118	0.88%
Pb 220.353†	5.9	0.0023 mg/L	0.00128	0.0023 mg/L	0.00128	55.90%
Sb 206.836†	6.8	0.0072 mg/L	0.00134	0.0072 mg/L	0.00134	18.72%
Se 196.026†	-7.4	0.0003 mg/L	0.00340	0.0003 mg/L	0.00340	999.04%
Sn 189.927†	-410.1	-0.0285 mg/L	0.00185	-0.0285 mg/L	0.00185	6.49%
Sr 407.771†	108245.7	0.0919 mg/L	0.00123	0.0919 mg/L	0.00123	1.34%
Ti 337.279†	-253.6	0.0025 mg/L	0.00012	0.0025 mg/L	0.00012	4.62%
Tl 190.801†	12.9	0.0043 mg/L	0.00262	0.0043 mg/L	0.00262	60.88%
V 292.402†	70.2	0.0027 mg/L	0.00000	0.0027 mg/L	0.00000	0.17%
Zn 213.857†	4179.3	0.0262 mg/L	0.00015	0.0262 mg/L	0.00015	0.57%

Sequence No.: 155
Sample ID: 1306405-03
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 112
Date Collected: 6/26/2013 2:00:50 AM
Data Type: Reprocessed on 6/26/2013 10:57:52 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306405-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	Y 371.029	3227334.2	3227334.2	0.955 mg/L			02:02:58
1	Ag 328.068†	636.9	-69.5	0.0003 mg/L	0.0003 mg/L		02:03:00
1	Al 237.313†	-380.2	-10.9	0.0061 mg/L	0.0061 mg/L		02:03:10
1	As 188.979†	-0.1	-1.1	0.0019 mg/L	0.0019 mg/L		02:03:10
1	B 249.677†	183.8	207.7	0.0873 mg/L	0.0873 mg/L		02:02:41
1	B 182.528†	93.6	105.0	0.0902 mg/L	0.0902 mg/L		02:03:10
1	Ba 233.527†	4712.7	5025.1	0.0387 mg/L	0.0387 mg/L		02:03:10
1	Be 313.107†	-1332.2	37.0	0.0002 mg/L	0.0002 mg/L		02:03:00
1	Ca 315.887†	3389207.4	3551473.6	31.79 mg/L	31.79 mg/L		02:02:58
1	Cd 228.802†	149.1	8.7	0.0017 mg/L	0.0017 mg/L		02:03:10
1	Co 228.616†	-175.0	-5.5	-0.0022 mg/L	-0.0022 mg/L		02:03:10
1	Cr 267.716†	572.0	-111.5	-0.0003 mg/L	-0.0003 mg/L		02:03:00
1	Cu 324.752†	4418.0	671.9	0.0042 mg/L	0.0042 mg/L		02:03:00
1	Fe 234.349†	98.8	105.2	0.0104 mg/L	0.0104 mg/L		02:02:41
1	K 766.490†	12570.1	12424.2	5.449 mg/L	5.449 mg/L		02:02:31
1	Li 670.784†	-124.2	142.5	0.0052 mg/L	0.0052 mg/L		02:02:31
1	Mg 279.077†	166063.2	173690.8	11.28 mg/L	11.28 mg/L		02:03:00
1	Mn 257.610†	19396.8	4267.1	0.0045 mg/L	0.0045 mg/L		02:03:10
1	Mn 294.920†	670.6	1343.1	0.0027 mg/L	0.0027 mg/L		02:03:00
1	Mo 202.031†	116.2	132.1	0.0077 mg/L	0.0077 mg/L		02:03:10
1	Na 589.592†	158604.9	161938.4	21.79 mg/L	21.79 mg/L		02:02:31
1	Ni 231.604†	306.5	143.9	0.0022 mg/L	0.0022 mg/L		02:03:10
1	P 214.914†	2145.6	2293.9	1.251 mg/L	1.251 mg/L		02:03:10
1	Pb 220.353†	136.3	-40.3	-0.0004 mg/L	-0.0004 mg/L		02:03:10
1	Sb 206.836†	40.8	-2.1	0.0035 mg/L	0.0035 mg/L		02:03:10
1	Se 196.026†	11.9	-4.4	0.0020 mg/L	0.0020 mg/L		02:03:10
1	Sn 189.927†	-345.0	-398.9	-0.0278 mg/L	-0.0278 mg/L		02:03:10
1	Sr 407.771†	115166.8	120410.7	0.1022 mg/L	0.1022 mg/L		02:02:31
1	Ti 337.279†	-1271.2	-33.9	0.0027 mg/L	0.0027 mg/L		02:03:00
1	Tl 190.801†	-1.4	5.6	-0.0010 mg/L	-0.0010 mg/L		02:03:10
1	V 292.402†	-849.7	11.7	0.0024 mg/L	0.0024 mg/L		02:03:00
1	Zn 213.857†	4937.6	4303.6	0.0269 mg/L	0.0269 mg/L		02:03:10
2	Y 371.029	3142429.0	3142429.0	0.929 mg/L			02:03:13
2	Ag 328.068†	660.4	-26.2	0.0005 mg/L	0.0005 mg/L		02:03:15
2	Al 237.313†	-402.3	-45.4	0.0029 mg/L	0.0029 mg/L		02:03:25
2	As 188.979†	-1.9	-3.1	0.0007 mg/L	0.0007 mg/L		02:03:25
2	B 249.677†	177.8	206.5	0.0868 mg/L	0.0868 mg/L		02:02:54
2	B 182.528†	91.4	105.3	0.0904 mg/L	0.0904 mg/L		02:03:25
2	Ba 233.527†	4727.1	5173.9	0.0398 mg/L	0.0398 mg/L		02:03:25
2	Be 313.107†	-1486.6	-166.7	0.0002 mg/L	0.0002 mg/L		02:03:15
2	Ca 315.887†	3404037.7	3663368.3	32.80 mg/L	32.80 mg/L		02:03:13
2	Cd 228.802†	141.0	4.3	0.0016 mg/L	0.0016 mg/L		02:03:25
2	Co 228.616†	-157.7	8.2	-0.0019 mg/L	-0.0019 mg/L		02:03:25
2	Cr 267.716†	617.6	-46.3	0.0002 mg/L	0.0002 mg/L		02:03:15
2	Cu 324.752†	4292.3	661.8	0.0041 mg/L	0.0041 mg/L		02:03:15
2	Fe 234.349†	117.2	127.8	0.0199 mg/L	0.0199 mg/L		02:02:54
2	K 766.490†	12724.3	12945.9	5.672 mg/L	5.672 mg/L		02:02:44

2	Li	670.784†	-149.8	111.4	0.0045	mg/L	0.0045	mg/L	02:02:44
2	Mg	279.077†	169213.1	181780.7	11.80	mg/L	11.80	mg/L	02:03:15
2	Mn	257.610†	19396.1	4815.5	0.0051	mg/L	0.0051	mg/L	02:03:25
2	Mn	294.920†	571.2	1255.2	0.0025	mg/L	0.0025	mg/L	02:03:15
2	Mo	202.031†	138.3	159.3	0.0087	mg/L	0.0087	mg/L	02:03:25
2	Na	589.592†	158848.0	166689.6	22.42	mg/L	22.42	mg/L	02:02:44
2	Ni	231.604†	296.0	141.3	0.0021	mg/L	0.0021	mg/L	02:03:25
2	P	214.914†	2147.1	2356.3	1.284	mg/L	1.284	mg/L	02:03:25
2	Pb	220.353†	107.7	-67.2	-0.0020	mg/L	-0.0020	mg/L	02:03:25
2	Sb	206.836†	50.9	10.0	0.0085	mg/L	0.0085	mg/L	02:03:25
2	Se	196.026†	2.2	-14.5	-0.0036	mg/L	-0.0036	mg/L	02:03:25
2	Sn	189.927†	-361.1	-426.0	-0.0305	mg/L	-0.0305	mg/L	02:03:25
2	Sr	407.771†	115819.0	124372.4	0.1056	mg/L	0.1056	mg/L	02:02:44
2	Ti	337.279†	-1307.5	-108.9	0.0027	mg/L	0.0027	mg/L	02:03:15
2	Tl	190.801†	2.0	9.3	0.0016	mg/L	0.0016	mg/L	02:03:25
2	V	292.402†	-806.3	34.2	0.0025	mg/L	0.0025	mg/L	02:03:15
2	Zn	213.857†	4961.0	4468.5	0.0279	mg/L	0.0279	mg/L	02:03:25

Mean Data: 1306405-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3184881.6	0.942 mg/L	0.0178			1.89%
Ag 328.068†	-47.9	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	34.88%
Al 237.313†	-28.2	0.0045 mg/L	0.00223	0.0045 mg/L	0.00223	49.52%
As 188.979†	-2.1	0.0013 mg/L	0.00085	0.0013 mg/L	0.00085	62.99%
B 249.677†	207.1	0.0871 mg/L	0.00035	0.0871 mg/L	0.00035	0.40%
B 182.528†	105.1	0.0903 mg/L	0.00014	0.0903 mg/L	0.00014	0.16%
Ba 233.527†	5099.5	0.0393 mg/L	0.00080	0.0393 mg/L	0.00080	2.03%
Be 313.107†	-64.8	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	26.64%
Ca 315.887†	3607420.9	32.29 mg/L	0.708	32.29 mg/L	0.708	2.19%
Cd 228.802†	6.5	0.0017 mg/L	0.00008	0.0017 mg/L	0.00008	4.99%
Co 228.616†	1.4	-0.0021 mg/L	0.00015	-0.0021 mg/L	0.00015	7.54%
Cr 267.716†	-78.9	-0.0001 mg/L	0.00035	-0.0001 mg/L	0.00035	397.55%
Cu 324.752†	666.8	0.0042 mg/L	0.00003	0.0042 mg/L	0.00003	0.74%
Fe 234.349†	116.5	0.0151 mg/L	0.00676	0.0151 mg/L	0.00676	44.66%
K 766.490†	12685.0	5.560 mg/L	0.1575	5.560 mg/L	0.1575	2.83%
Li 670.784†	126.9	0.0049 mg/L	0.00052	0.0049 mg/L	0.00052	10.59%
Mg 279.077†	177735.8	11.54 mg/L	0.371	11.54 mg/L	0.371	3.22%
Mn 257.610†	4541.3	0.0048 mg/L	0.00042	0.0048 mg/L	0.00042	8.64%
Mn 294.920†	1299.2	0.0026 mg/L	0.00013	0.0026 mg/L	0.00013	5.10%
Mo 202.031†	145.7	0.0082 mg/L	0.00072	0.0082 mg/L	0.00072	8.76%
Na 589.592†	164314.0	22.10 mg/L	0.450	22.10 mg/L	0.450	2.04%
Ni 231.604†	142.6	0.0021 mg/L	0.00003	0.0021 mg/L	0.00003	1.55%
P 214.914†	2325.1	1.267 mg/L	0.0231	1.267 mg/L	0.0231	1.82%
Pb 220.353†	-53.8	-0.0012 mg/L	0.00111	-0.0012 mg/L	0.00111	92.69%
Sb 206.836†	3.9	0.0060 mg/L	0.00349	0.0060 mg/L	0.00349	58.15%
Se 196.026†	-9.5	-0.0008 mg/L	0.00395	-0.0008 mg/L	0.00395	487.67%
Sn 189.927†	-412.5	-0.0291 mg/L	0.00192	-0.0291 mg/L	0.00192	6.58%
Sr 407.771†	122391.5	0.1039 mg/L	0.00237	0.1039 mg/L	0.00237	2.28%
Ti 337.279†	-71.4	0.0027 mg/L	0.00005	0.0027 mg/L	0.00005	2.01%
Tl 190.801†	7.5	0.0003 mg/L	0.00184	0.0003 mg/L	0.00184	663.30%
V 292.402†	23.0	0.0025 mg/L	0.00007	0.0025 mg/L	0.00007	2.96%
Zn 213.857†	4386.0	0.0274 mg/L	0.00072	0.0274 mg/L	0.00072	2.61%

Sequence No.: 156

Sample ID: 1306407-01

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 113

Date Collected: 6/26/2013 2:05:04 AM

Data Type: Reprocessed on 6/26/2013 10:57:52 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306407-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	2994119.8	2994119.8	0.886 mg/L		02:07:09
1	Ag 328.068†	-134.4	-888.6	-0.0010 mg/L	-0.0010 mg/L	02:07:09
1	Al 237.313†	8763.6	10283.9	0.9499 mg/L	0.9499 mg/L	02:07:09
1	As 188.979†	23.8	25.8	0.0184 mg/L	0.0184 mg/L	02:07:19
1	B 249.677†	1850.2	2104.6	0.8614 mg/L	0.8614 mg/L	02:06:51
1	B 182.528†	930.5	1057.8	0.8730 mg/L	0.8730 mg/L	02:07:19

1	Ba 233.527†	1108152.5	1251490.0	9.488	mg/L	9.488	mg/L	02:07:09
1	Be 313.107†	-2386.8	-1262.6	-0.0002	mg/L	-0.0002	mg/L	02:07:09
1	Ca 315.887†	40988803.2	46288103.7	414.3	mg/L	414.3	mg/L	02:07:06
1	Cd 228.802†	185.0	61.5	0.0014	mg/L	0.0014	mg/L	02:07:19
1	Co 228.616†	31.7	213.8	0.0013	mg/L	0.0013	mg/L	02:07:19
1	Cr 267.716†	1221.0	668.0	0.0056	mg/L	0.0056	mg/L	02:07:19
1	Cu 324.752†	5609.8	2378.3	0.0115	mg/L	0.0115	mg/L	02:07:09
1	Fe 234.349†	184910.9	208815.8	102.7	mg/L	102.7	mg/L	02:06:51
1	K 766.490†	117382.9	131811.8	56.43	mg/L	56.43	mg/L	02:06:49
1	Li 670.784†	7606.3	8862.2	0.2100	mg/L	0.2100	mg/L	02:06:51
1	Mg 279.077†	1176321.0	1328095.0	86.24	mg/L	86.24	mg/L	02:07:09
1	Mn 257.610†	626290.2	691195.9	0.7201	mg/L	0.7201	mg/L	02:07:09
1	Mn 294.920†	320339.1	362389.6	0.7728	mg/L	0.7728	mg/L	02:07:09
1	Mo 202.031†	372.6	431.1	0.0034	mg/L	0.0034	mg/L	02:07:19
1	Na 589.592†	5260568.8	5936370.9	795.5	mg/L	795.5	mg/L	02:06:47
1	Ni 231.604†	336.1	202.4	0.0033	mg/L	0.0033	mg/L	02:07:19
1	P 214.914†	3037.4	3476.1	1.871	mg/L	1.871	mg/L	02:07:19
1	Pb 220.353†	3796.4	4104.0	0.2417	mg/L	0.2417	mg/L	02:07:19
1	Sb 206.836†	82.3	48.1	-0.0198	mg/L	-0.0198	mg/L	02:07:19
1	Se 196.026†	-20.9	-40.4	-0.0118	mg/L	-0.0118	mg/L	02:07:19
1	Sn 189.927†	-987.5	-1152.7	0.1162	mg/L	0.1162	mg/L	02:07:19
1	Sr 407.771†	3077265.8	3474815.4	2.942	mg/L	2.942	mg/L	02:06:47
1	Ti 337.279†	12625.6	15555.6	0.0187	mg/L	0.0187	mg/L	02:07:09
1	Tl 190.801†	27.3	37.9	-0.0810	mg/L	-0.0810	mg/L	02:07:19
1	V 292.402†	2342.6	3547.3	0.0162	mg/L	0.0162	mg/L	02:07:19
1	Zn 213.857†	58191.4	64844.3	0.3941	mg/L	0.3941	mg/L	02:07:09
2	Y 371.029	2987473.5	2987473.5	0.884	mg/L			02:07:28
2	Ag 328.068†	-63.0	-808.1	-0.0006	mg/L	-0.0006	mg/L	02:07:28
2	Al 237.313†	9004.7	10578.7	0.9769	mg/L	0.9769	mg/L	02:07:28
2	As 188.979†	15.3	16.2	0.0126	mg/L	0.0126	mg/L	02:07:39
2	B 249.677†	1847.9	2106.6	0.8623	mg/L	0.8623	mg/L	02:06:59
2	B 182.528†	938.4	1069.1	0.8822	mg/L	0.8822	mg/L	02:07:39
2	Ba 233.527†	1113400.3	1260213.4	9.554	mg/L	9.554	mg/L	02:07:28
2	Be 313.107†	-2500.3	-1397.0	-0.0003	mg/L	-0.0003	mg/L	02:07:28
2	Ca 315.887†	41109682.2	46527887.5	416.4	mg/L	416.4	mg/L	02:07:25
2	Cd 228.802†	194.6	72.8	0.0017	mg/L	0.0017	mg/L	02:07:39
2	Co 228.616†	13.7	193.4	0.0010	mg/L	0.0010	mg/L	02:07:39
2	Cr 267.716†	1225.8	676.5	0.0057	mg/L	0.0057	mg/L	02:07:39
2	Cu 324.752†	5606.0	2388.1	0.0115	mg/L	0.0115	mg/L	02:07:28
2	Fe 234.349†	184295.5	208583.8	102.6	mg/L	102.6	mg/L	02:06:59
2	K 766.490†	114853.9	129244.4	55.33	mg/L	55.33	mg/L	02:06:56
2	Li 670.784†	7637.8	8917.0	0.2113	mg/L	0.2113	mg/L	02:06:59
2	Mg 279.077†	1182933.0	1338533.6	86.92	mg/L	86.92	mg/L	02:07:28
2	Mn 257.610†	629404.4	696293.9	0.7256	mg/L	0.7256	mg/L	02:07:28
2	Mn 294.920†	321846.7	364900.7	0.7782	mg/L	0.7782	mg/L	02:07:28
2	Mo 202.031†	376.3	436.3	0.0036	mg/L	0.0036	mg/L	02:07:39
2	Na 589.592†	5280894.7	5972591.4	800.4	mg/L	800.4	mg/L	02:06:54
2	Ni 231.604†	359.9	230.2	0.0038	mg/L	0.0038	mg/L	02:07:39
2	P 214.914†	3059.3	3508.5	1.888	mg/L	1.888	mg/L	02:07:39
2	Pb 220.353†	3788.5	4104.6	0.2417	mg/L	0.2417	mg/L	02:07:39
2	Sb 206.836†	90.7	57.9	-0.0157	mg/L	-0.0157	mg/L	02:07:39
2	Se 196.026†	-26.6	-47.0	-0.0155	mg/L	-0.0155	mg/L	02:07:39
2	Sn 189.927†	-1025.5	-1198.1	0.1120	mg/L	0.1120	mg/L	02:07:39
2	Sr 407.771†	3094568.6	3502129.2	2.965	mg/L	2.965	mg/L	02:06:54
2	Ti 337.279†	11751.8	14598.4	0.0177	mg/L	0.0177	mg/L	02:07:28
2	Tl 190.801†	18.1	27.6	-0.0891	mg/L	-0.0891	mg/L	02:07:39
2	V 292.402†	2372.8	3587.4	0.0164	mg/L	0.0164	mg/L	02:07:39
2	Zn 213.857†	58645.4	65504.4	0.3982	mg/L	0.3982	mg/L	02:07:28

Mean Data: 1306407-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2990796.7	0.885	mg/L	0.0014				0.16%
Ag 328.068†	-848.4	-0.0008	mg/L	0.00027	-0.0008	mg/L	0.00027	32.45%
Al 237.313†	10431.3	0.9634	mg/L	0.01911	0.9634	mg/L	0.01911	1.98%
As 188.979†	21.0	0.0155	mg/L	0.00415	0.0155	mg/L	0.00415	26.80%
B 249.677†	2105.6	0.8619	mg/L	0.00058	0.8619	mg/L	0.00058	0.07%
B 182.528†	1063.4	0.8776	mg/L	0.00655	0.8776	mg/L	0.00655	0.75%
Ba 233.527†	1255851.7	9.521	mg/L	0.0468	9.521	mg/L	0.0468	0.49%
Be 313.107†	-1329.8	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	12.88%
Ca 315.887†	46407995.6	415.4	mg/L	1.52	415.4	mg/L	1.52	0.37%
Cd 228.802†	67.1	0.0015	mg/L	0.00022	0.0015	mg/L	0.00022	14.05%

Co 228.616†	203.6	0.0011 mg/L	0.00023	0.0011 mg/L	0.00023	19.87%
Cr 267.716†	672.2	0.0056 mg/L	0.00005	0.0056 mg/L	0.00005	0.82%
Cu 324.752†	2383.2	0.0115 mg/L	0.00003	0.0115 mg/L	0.00003	0.25%
Fe 234.349†	208699.8	102.7 mg/L	0.08	102.7 mg/L	0.08	0.08%
K 766.490†	130528.1	55.88 mg/L	0.775	55.88 mg/L	0.775	1.39%
Li 670.784†	8889.6	0.2106 mg/L	0.00091	0.2106 mg/L	0.00091	0.43%
Mg 279.077†	1333314.3	86.58 mg/L	0.479	86.58 mg/L	0.479	0.55%
Mn 257.610†	693744.9	0.7229 mg/L	0.00390	0.7229 mg/L	0.00390	0.54%
Mn 294.920†	363645.1	0.7755 mg/L	0.00379	0.7755 mg/L	0.00379	0.49%
Mo 202.031†	433.7	0.0035 mg/L	0.00015	0.0035 mg/L	0.00015	4.27%
Na 589.592†	5954481.1	797.9 mg/L	3.43	797.9 mg/L	3.43	0.43%
Ni 231.604†	216.3	0.0035 mg/L	0.00037	0.0035 mg/L	0.00037	10.37%
P 214.914†	3492.3	1.879 mg/L	0.0120	1.879 mg/L	0.0120	0.64%
Pb 220.353†	4104.3	0.2417 mg/L	0.00002	0.2417 mg/L	0.00002	0.01%
Sb 206.836†	53.0	-0.0177 mg/L	0.00286	-0.0177 mg/L	0.00286	16.13%
Se 196.026†	-43.7	-0.0137 mg/L	0.00259	-0.0137 mg/L	0.00259	18.92%
Sn 189.927†	-1175.4	0.1141 mg/L	0.00301	0.1141 mg/L	0.00301	2.64%
Sr 407.771†	3488472.3	2.953 mg/L	0.0163	2.953 mg/L	0.0163	0.55%
Ti 337.279†	15077.0	0.0182 mg/L	0.00069	0.0182 mg/L	0.00069	3.80%
Tl 190.801†	32.8	-0.0851 mg/L	0.00568	-0.0851 mg/L	0.00568	6.68%
V 292.402†	3567.3	0.0163 mg/L	0.00011	0.0163 mg/L	0.00011	0.69%
Zn 213.857†	65174.4	0.3962 mg/L	0.00287	0.3962 mg/L	0.00287	0.72%

Sequence No.: 157
Sample ID: 1306407-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 114
Date Collected: 6/26/2013 2:10:47 AM
Data Type: Reprocessed on 6/26/2013 10:57:53 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306407-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3027559.2	3027559.2	0.895 mg/L		02:12:48
1	Ag 328.068†	212.3	-499.7	-0.0005 mg/L	-0.0005 mg/L	02:12:48
1	Al 237.313†	4017.7	4874.4	0.4540 mg/L	0.4540 mg/L	02:12:48
1	As 188.979†	8.3	8.2	0.0077 mg/L	0.0077 mg/L	02:12:59
1	B 249.677†	2965.0	3326.5	1.360 mg/L	1.360 mg/L	02:12:33
1	B 182.528†	1451.2	1627.6	1.341 mg/L	1.341 mg/L	02:12:59
1	Ba 233.527†	768093.5	857891.7	6.504 mg/L	6.504 mg/L	02:12:48
1	Be 313.107†	-2194.3	-1017.9	-0.0001 mg/L	-0.0001 mg/L	02:12:48
1	Ca 315.887†	34333416.5	38344148.2	343.2 mg/L	343.2 mg/L	02:12:45
1	Cd 228.802†	181.5	55.2	0.0021 mg/L	0.0021 mg/L	02:12:59
1	Co 228.616†	204.4	406.2	0.0044 mg/L	0.0044 mg/L	02:12:59
1	Cr 267.716†	1077.6	492.7	0.0043 mg/L	0.0043 mg/L	02:12:59
1	Cu 324.752†	5078.9	1715.5	0.0086 mg/L	0.0086 mg/L	02:12:48
1	Fe 234.349†	92594.5	103410.9	50.65 mg/L	50.65 mg/L	02:12:33
1	K 766.490†	72533.2	80259.7	34.42 mg/L	34.42 mg/L	02:12:33
1	Li 670.784†	7333.8	8462.9	0.2006 mg/L	0.2006 mg/L	02:12:33
1	Mg 279.077†	822042.2	917765.8	59.59 mg/L	59.59 mg/L	02:12:48
1	Mn 257.610†	292820.1	310966.1	0.3229 mg/L	0.3229 mg/L	02:12:48
1	Mn 294.920†	145269.4	162877.0	0.3472 mg/L	0.3472 mg/L	02:12:48
1	Mo 202.031†	347.0	398.0	0.0100 mg/L	0.0100 mg/L	02:12:59
1	Na 589.592†	2103409.6	2344853.5	314.3 mg/L	314.3 mg/L	02:12:31
1	Ni 231.604†	309.0	167.9	0.0026 mg/L	0.0026 mg/L	02:12:59
1	P 214.914†	2782.7	3153.8	1.702 mg/L	1.702 mg/L	02:12:59
1	Pb 220.353†	1146.1	1096.9	0.0660 mg/L	0.0660 mg/L	02:12:59
1	Sb 206.836†	69.1	32.3	-0.0040 mg/L	-0.0040 mg/L	02:12:59
1	Se 196.026†	-27.7	-47.8	-0.0190 mg/L	-0.0190 mg/L	02:12:59
1	Sn 189.927†	-950.4	-1098.9	0.0789 mg/L	0.0789 mg/L	02:12:59
1	Sr 407.771†	2896321.0	3234354.7	2.738 mg/L	2.738 mg/L	02:12:31
1	Ti 337.279†	7644.0	9834.7	0.0129 mg/L	0.0129 mg/L	02:12:48
1	Tl 190.801†	24.8	34.8	-0.0494 mg/L	-0.0494 mg/L	02:12:59
1	V 292.402†	1625.0	2716.7	0.0131 mg/L	0.0131 mg/L	02:12:59
1	Zn 213.857†	27179.3	29484.3	0.1793 mg/L	0.1793 mg/L	02:12:59
2	Y 371.029	3106866.3	3106866.3	0.919 mg/L		02:13:07
2	Ag 328.068†	156.6	-566.4	-0.0008 mg/L	-0.0008 mg/L	02:13:07
2	Al 237.313†	4063.2	4809.4	0.4480 mg/L	0.4480 mg/L	02:13:07
2	As 188.979†	3.1	2.3	0.0040 mg/L	0.0040 mg/L	02:13:18
2	B 249.677†	3013.9	3295.2	1.347 mg/L	1.347 mg/L	02:12:38
2	B 182.528†	1461.9	1598.0	1.317 mg/L	1.317 mg/L	02:13:18

2	Ba 233.527†	777852.0	846615.1	6.419 mg/L	6.419 mg/L	02:13:07
2	Be 313.107†	-2328.7	-1101.5	-0.0002 mg/L	-0.0002 mg/L	02:13:07
2	Ca 315.887†	34364139.3	37398813.7	334.7 mg/L	334.7 mg/L	02:13:04
2	Cd 228.802†	179.7	48.1	0.0019 mg/L	0.0019 mg/L	02:13:18
2	Co 228.616†	155.6	347.3	0.0034 mg/L	0.0034 mg/L	02:13:18
2	Cr 267.716†	1088.1	473.3	0.0041 mg/L	0.0041 mg/L	02:13:18
2	Cu 324.752†	5092.8	1585.8	0.0081 mg/L	0.0081 mg/L	02:13:07
2	Fe 234.349†	93975.4	102274.0	50.10 mg/L	50.10 mg/L	02:12:38
2	K 766.490†	73258.3	78981.1	33.87 mg/L	33.87 mg/L	02:12:38
2	Li 670.784†	7296.4	8213.1	0.1948 mg/L	0.1948 mg/L	02:12:38
2	Mg 279.077†	833791.1	907117.4	58.90 mg/L	58.90 mg/L	02:13:07
2	Mn 257.610†	296266.0	306368.6	0.3181 mg/L	0.3181 mg/L	02:13:07
2	Mn 294.920†	147123.6	160753.5	0.3427 mg/L	0.3427 mg/L	02:13:07
2	Mo 202.031†	331.5	371.2	0.0091 mg/L	0.0091 mg/L	02:13:18
2	Na 589.592†	2099933.1	2281106.5	305.7 mg/L	305.7 mg/L	02:12:36
2	Ni 231.604†	302.6	152.1	0.0023 mg/L	0.0023 mg/L	02:13:18
2	P 214.914†	2762.7	3052.7	1.649 mg/L	1.649 mg/L	02:13:18
2	Pb 220.353†	1040.9	949.7	0.0574 mg/L	0.0574 mg/L	02:13:18
2	Sb 206.836†	78.6	40.7	-0.0004 mg/L	-0.0004 mg/L	02:13:18
2	Se 196.026†	-5.7	-23.0	-0.0053 mg/L	-0.0053 mg/L	02:13:18
2	Sn 189.927†	-970.5	-1093.7	0.0743 mg/L	0.0743 mg/L	02:13:18
2	Sr 407.771†	2893060.3	3148238.4	2.665 mg/L	2.665 mg/L	02:12:36
2	Ti 337.279†	7973.8	9975.7	0.0130 mg/L	0.0130 mg/L	02:13:07
2	Tl 190.801†	28.1	37.7	-0.0457 mg/L	-0.0457 mg/L	02:13:18
2	V 292.402†	1591.3	2633.6	0.0127 mg/L	0.0127 mg/L	02:13:18
2	Zn 213.857†	27120.4	28645.4	0.1741 mg/L	0.1741 mg/L	02:13:18

Mean Data: 1306407-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3067212.7	0.907	mg/L	0.0166				1.83%
Ag 328.068†	-533.0	-0.0006	mg/L	0.00024	-0.0006	mg/L	0.00024	37.37%
Al 237.313†	4841.9	0.4510	mg/L	0.00421	0.4510	mg/L	0.00421	0.93%
As 188.979†	5.3	0.0058	mg/L	0.00256	0.0058	mg/L	0.00256	43.82%
B 249.677†	3310.8	1.354	mg/L	0.0091	1.354	mg/L	0.0091	0.67%
B 182.528†	1612.8	1.329	mg/L	0.0172	1.329	mg/L	0.0172	1.30%
Ba 233.527†	852253.4	6.462	mg/L	0.0604	6.462	mg/L	0.0604	0.94%
Be 313.107†	-1059.7	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	12.86%
Ca 315.887†	37871480.9	339.0	mg/L	5.98	339.0	mg/L	5.98	1.77%
Cd 228.802†	51.7	0.0020	mg/L	0.00013	0.0020	mg/L	0.00013	6.36%
Co 228.616†	376.7	0.0039	mg/L	0.00066	0.0039	mg/L	0.00066	16.98%
Cr 267.716†	483.0	0.0042	mg/L	0.00010	0.0042	mg/L	0.00010	2.50%
Cu 324.752†	1650.6	0.0084	mg/L	0.00039	0.0084	mg/L	0.00039	4.67%
Fe 234.349†	102842.4	50.38	mg/L	0.388	50.38	mg/L	0.388	0.77%
K 766.490†	79620.4	34.14	mg/L	0.386	34.14	mg/L	0.386	1.13%
Li 670.784†	8338.0	0.1977	mg/L	0.00415	0.1977	mg/L	0.00415	2.10%
Mg 279.077†	912441.6	59.25	mg/L	0.489	59.25	mg/L	0.489	0.83%
Mn 257.610†	308667.4	0.3205	mg/L	0.00341	0.3205	mg/L	0.00341	1.06%
Mn 294.920†	161815.2	0.3450	mg/L	0.00320	0.3450	mg/L	0.00320	0.93%
Mo 202.031†	384.6	0.0095	mg/L	0.00065	0.0095	mg/L	0.00065	6.80%
Na 589.592†	2312980.0	310.0	mg/L	6.04	310.0	mg/L	6.04	1.95%
Ni 231.604†	160.0	0.0025	mg/L	0.00021	0.0025	mg/L	0.00021	8.43%
P 214.914†	3103.2	1.675	mg/L	0.0375	1.675	mg/L	0.0375	2.24%
Pb 220.353†	1023.3	0.0617	mg/L	0.00609	0.0617	mg/L	0.00609	9.87%
Sb 206.836†	36.5	-0.0022	mg/L	0.00260	-0.0022	mg/L	0.00260	117.36%
Se 196.026†	-35.4	-0.0122	mg/L	0.00969	-0.0122	mg/L	0.00969	79.66%
Sn 189.927†	-1096.3	0.0766	mg/L	0.00325	0.0766	mg/L	0.00325	4.24%
Sr 407.771†	3191296.6	2.702	mg/L	0.0515	2.702	mg/L	0.0515	1.91%
Ti 337.279†	9905.2	0.0129	mg/L	0.00010	0.0129	mg/L	0.00010	0.79%
Tl 190.801†	36.3	-0.0476	mg/L	0.00264	-0.0476	mg/L	0.00264	5.55%
V 292.402†	2675.1	0.0129	mg/L	0.00024	0.0129	mg/L	0.00024	1.85%
Zn 213.857†	29064.9	0.1767	mg/L	0.00362	0.1767	mg/L	0.00362	2.05%

Sequence No.: 158

Sample ID: 1306407-03

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 115

Date Collected: 6/26/2013 2:16:26 AM

Data Type: Reprocessed on 6/26/2013 10:57:54 AM

Initial Sample Vol:

Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	2968514.3	2968514.3	0.878	mg/L			02:18:32
1	Ag 328.068†	-107.5	-859.2	-0.0008	mg/L	-0.0008	mg/L	02:18:32
1	Al 237.313†	8319.8	9863.8	0.9114	mg/L	0.9114	mg/L	02:18:32
1	As 188.979†	11.7	12.3	0.0101	mg/L	0.0101	mg/L	02:18:42
1	B 249.677†	1929.6	2213.0	0.9057	mg/L	0.9057	mg/L	02:18:14
1	B 182.528†	943.4	1081.5	0.8924	mg/L	0.8924	mg/L	02:18:42
1	Ba 233.527†	1123415.4	1279668.8	9.702	mg/L	9.702	mg/L	02:18:32
1	Be 313.107†	-2549.6	-1471.3	-0.0003	mg/L	-0.0003	mg/L	02:18:32
1	Ca 315.887†	42500397.8	48409084.2	433.3	mg/L	433.3	mg/L	02:18:29
1	Cd 228.802†	195.4	75.1	0.0017	mg/L	0.0017	mg/L	02:18:42
1	Co 228.616†	9.7	189.0	0.0009	mg/L	0.0009	mg/L	02:18:42
1	Cr 267.716†	1176.9	629.6	0.0053	mg/L	0.0053	mg/L	02:18:42
1	Cu 324.752†	5676.4	2508.8	0.0120	mg/L	0.0120	mg/L	02:18:32
1	Fe 234.349†	191770.6	218430.3	107.5	mg/L	107.5	mg/L	02:18:14
1	K 766.490†	115220.2	130491.8	55.87	mg/L	55.87	mg/L	02:18:12
1	Li 670.784†	7984.5	9367.0	0.2219	mg/L	0.2219	mg/L	02:18:14
1	Mg 279.077†	1196250.8	1362253.5	88.46	mg/L	88.46	mg/L	02:18:32
1	Mn 257.610†	646971.4	720852.5	0.7509	mg/L	0.7509	mg/L	02:18:32
1	Mn 294.920†	330356.5	376919.8	0.8038	mg/L	0.8038	mg/L	02:18:32
1	Mo 202.031†	368.2	429.8	0.0026	mg/L	0.0026	mg/L	02:18:42
1	Na 589.592†	5263694.2	5991172.4	802.8	mg/L	802.8	mg/L	02:18:10
1	Ni 231.604†	328.1	196.6	0.0032	mg/L	0.0032	mg/L	02:18:42
1	P 214.914†	2554.4	2955.6	1.598	mg/L	1.598	mg/L	02:18:42
1	Pb 220.353†	3223.5	3488.5	0.2057	mg/L	0.2057	mg/L	02:18:42
1	Sb 206.836†	75.6	41.3	-0.0246	mg/L	-0.0246	mg/L	02:18:42
1	Se 196.026†	-14.4	-33.3	-0.0076	mg/L	-0.0076	mg/L	02:18:42
1	Sn 189.927†	-1016.9	-1195.7	0.1227	mg/L	0.1227	mg/L	02:18:42
1	Sr 407.771†	3140617.8	3576948.6	3.028	mg/L	3.028	mg/L	02:18:10
1	Ti 337.279†	10582.6	13351.6	0.0165	mg/L	0.0165	mg/L	02:18:32
1	Tl 190.801†	19.6	29.5	-0.0924	mg/L	-0.0924	mg/L	02:18:42
1	V 292.402†	2333.9	3560.2	0.0163	mg/L	0.0163	mg/L	02:18:42
1	Zn 213.857†	52124.7	58501.2	0.3550	mg/L	0.3550	mg/L	02:18:32
2	Y 371.029	2969367.4	2969367.4	0.878	mg/L			02:18:51
2	Ag 328.068†	-174.4	-935.4	-0.0012	mg/L	-0.0012	mg/L	02:18:51
2	Al 237.313†	8018.2	9517.6	0.8796	mg/L	0.8796	mg/L	02:18:51
2	As 188.979†	23.1	25.2	0.0181	mg/L	0.0181	mg/L	02:19:01
2	B 249.677†	1908.6	2188.5	0.8957	mg/L	0.8957	mg/L	02:18:22
2	B 182.528†	939.9	1077.2	0.8889	mg/L	0.8889	mg/L	02:19:01
2	Ba 233.527†	1122704.5	1278491.7	9.693	mg/L	9.693	mg/L	02:18:51
2	Be 313.107†	-2572.2	-1496.2	-0.0003	mg/L	-0.0003	mg/L	02:18:51
2	Ca 315.887†	42403976.0	48285383.4	432.2	mg/L	432.2	mg/L	02:18:48
2	Cd 228.802†	187.1	65.6	0.0014	mg/L	0.0014	mg/L	02:19:01
2	Co 228.616†	24.0	205.3	0.0012	mg/L	0.0012	mg/L	02:19:01
2	Cr 267.716†	1183.2	636.5	0.0054	mg/L	0.0054	mg/L	02:19:01
2	Cu 324.752†	5671.9	2501.8	0.0120	mg/L	0.0120	mg/L	02:18:51
2	Fe 234.349†	189068.8	215291.0	105.9	mg/L	105.9	mg/L	02:18:22
2	K 766.490†	116579.8	132002.3	56.51	mg/L	56.51	mg/L	02:18:19
2	Li 670.784†	7919.2	9290.1	0.2200	mg/L	0.2200	mg/L	02:18:22
2	Mg 279.077†	1197402.6	1363173.6	88.52	mg/L	88.52	mg/L	02:18:51
2	Mn 257.610†	647152.9	720847.5	0.7513	mg/L	0.7513	mg/L	02:18:51
2	Mn 294.920†	330291.8	376738.1	0.8034	mg/L	0.8034	mg/L	02:18:51
2	Mo 202.031†	356.0	415.8	0.0023	mg/L	0.0023	mg/L	02:19:01
2	Na 589.592†	5304980.6	6036462.1	808.9	mg/L	808.9	mg/L	02:18:17
2	Ni 231.604†	322.3	189.8	0.0030	mg/L	0.0030	mg/L	02:19:01
2	P 214.914†	2535.2	2932.9	1.586	mg/L	1.586	mg/L	02:19:01
2	Pb 220.353†	3258.1	3526.9	0.2080	mg/L	0.2080	mg/L	02:19:01
2	Sb 206.836†	72.1	37.3	-0.0256	mg/L	-0.0256	mg/L	02:19:01
2	Se 196.026†	-23.4	-43.5	-0.0133	mg/L	-0.0133	mg/L	02:19:01
2	Sn 189.927†	-979.7	-1153.0	0.1272	mg/L	0.1272	mg/L	02:19:01
2	Sr 407.771†	3151952.6	3588827.7	3.038	mg/L	3.038	mg/L	02:18:17
2	Ti 337.279†	11904.2	14853.0	0.0180	mg/L	0.0180	mg/L	02:18:51
2	Tl 190.801†	23.0	33.3	-0.0887	mg/L	-0.0887	mg/L	02:19:01
2	V 292.402†	2294.6	3514.7	0.0161	mg/L	0.0161	mg/L	02:19:01
2	Zn 213.857†	52090.6	58445.2	0.3547	mg/L	0.3547	mg/L	02:18:51

Mean Data: 1306407-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2968940.9	0.878 mg/L	0.0002			0.02%

Ag 328.068†	-897.3	-0.0010 mg/L	0.00029	-0.0010 mg/L	0.00029	29.53%
Al 237.313†	9690.7	0.8955 mg/L	0.02244	0.8955 mg/L	0.02244	2.51%
As 188.979†	18.8	0.0141 mg/L	0.00561	0.0141 mg/L	0.00561	39.84%
B 249.677†	2200.8	0.9007 mg/L	0.00706	0.9007 mg/L	0.00706	0.78%
B 182.528†	1079.3	0.8907 mg/L	0.00251	0.8907 mg/L	0.00251	0.28%
Ba 233.527†	1279080.2	9.697 mg/L	0.0063	9.697 mg/L	0.0063	0.07%
Be 313.107†	-1483.7	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	2.07%
Ca 315.887†	48347233.8	432.7 mg/L	0.78	432.7 mg/L	0.78	0.18%
Cd 228.802†	70.3	0.0016 mg/L	0.00016	0.0016 mg/L	0.00016	10.27%
Co 228.616†	197.1	0.0010 mg/L	0.00018	0.0010 mg/L	0.00018	17.39%
Cr 267.716†	633.1	0.0053 mg/L	0.00004	0.0053 mg/L	0.00004	0.69%
Cu 324.752†	2505.3	0.0120 mg/L	0.00002	0.0120 mg/L	0.00002	0.16%
Fe 234.349†	216860.6	106.7 mg/L	1.10	106.7 mg/L	1.10	1.03%
K 766.490†	131247.0	56.19 mg/L	0.456	56.19 mg/L	0.456	0.81%
Li 670.784†	9328.5	0.2209 mg/L	0.00128	0.2209 mg/L	0.00128	0.58%
Mg 279.077†	1362713.5	88.49 mg/L	0.042	88.49 mg/L	0.042	0.05%
Mn 257.610†	720850.0	0.7511 mg/L	0.00024	0.7511 mg/L	0.00024	0.03%
Mn 294.920†	376829.0	0.8036 mg/L	0.00027	0.8036 mg/L	0.00027	0.03%
Mo 202.031†	422.8	0.0025 mg/L	0.00021	0.0025 mg/L	0.00021	8.33%
Na 589.592†	6013817.2	805.9 mg/L	4.29	805.9 mg/L	4.29	0.53%
Ni 231.604†	193.2	0.0031 mg/L	0.00009	0.0031 mg/L	0.00009	2.88%
P 214.914†	2944.2	1.592 mg/L	0.0084	1.592 mg/L	0.0084	0.53%
Pb 220.353†	3507.7	0.2069 mg/L	0.00159	0.2069 mg/L	0.00159	0.77%
Sb 206.836†	39.3	-0.0251 mg/L	0.00070	-0.0251 mg/L	0.00070	2.77%
Se 196.026†	-38.4	-0.0105 mg/L	0.00404	-0.0105 mg/L	0.00404	38.56%
Sn 189.927†	-1174.3	0.1250 mg/L	0.00322	0.1250 mg/L	0.00322	2.58%
Sr 407.771†	3582888.1	3.033 mg/L	0.0071	3.033 mg/L	0.0071	0.23%
Ti 337.279†	14102.3	0.0172 mg/L	0.00109	0.0172 mg/L	0.00109	6.31%
Tl 190.801†	31.4	-0.0905 mg/L	0.00263	-0.0905 mg/L	0.00263	2.90%
V 292.402†	3537.5	0.0162 mg/L	0.00013	0.0162 mg/L	0.00013	0.82%
Zn 213.857†	58473.2	0.3548 mg/L	0.00019	0.3548 mg/L	0.00019	0.05%

Sequence No.: 159

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 2:22:10 AM

Data Type: Reprocessed on 6/26/2013 10:57:54 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3379208.5	3379208.5	0.999 mg/L		02:24:03
1	Ag 328.068†	51134.5	50427.3	0.2429 mg/L	0.2429 mg/L	02:24:03
1	Al 237.313†	25817.5	26219.9	2.413 mg/L	2.413 mg/L	02:24:14
1	As 188.979†	787.8	787.2	0.4834 mg/L	0.4834 mg/L	02:24:14
1	B 249.677†	1195.0	1210.9	0.4974 mg/L	0.4974 mg/L	02:23:54
1	B 182.528†	577.8	585.1	0.4846 mg/L	0.4846 mg/L	02:24:14
1	Ba 233.527†	64030.1	64154.9	0.4870 mg/L	0.4870 mg/L	02:24:03
1	Be 313.107†	127704.3	129211.1	0.0457 mg/L	0.0457 mg/L	02:24:03
1	Ca 315.887†	604094.6	605162.6	5.426 mg/L	5.426 mg/L	02:24:03
1	Cd 228.802†	8534.5	8392.0	0.2259 mg/L	0.2259 mg/L	02:24:14
1	Co 228.616†	31030.9	31226.8	0.4949 mg/L	0.4949 mg/L	02:24:14
1	Cr 267.716†	66773.3	66101.2	0.5037 mg/L	0.5037 mg/L	02:24:03
1	Cu 324.752†	121720.4	117834.2	0.5050 mg/L	0.5050 mg/L	02:24:03
1	Fe 234.349†	4923.5	4928.0	2.434 mg/L	2.434 mg/L	02:23:54
1	K 766.490†	56531.8	55819.5	23.98 mg/L	23.98 mg/L	02:23:51
1	Li 670.784†	20730.1	21014.8	0.4954 mg/L	0.4954 mg/L	02:23:54
1	Mg 279.077†	81613.3	81372.7	5.283 mg/L	5.283 mg/L	02:24:03
1	Mn 257.610†	478532.2	462755.2	0.4972 mg/L	0.4972 mg/L	02:24:03
1	Mn 294.920†	228477.8	229250.8	0.4888 mg/L	0.4888 mg/L	02:24:03
1	Mo 202.031†	12893.4	12911.3	0.4846 mg/L	0.4846 mg/L	02:24:14
1	Na 589.592†	204166.4	200058.2	26.89 mg/L	26.89 mg/L	02:23:51
1	Ni 231.604†	27310.5	27149.2	0.5054 mg/L	0.5054 mg/L	02:24:03
1	P 214.914†	8784.1	8835.2	4.673 mg/L	4.673 mg/L	02:24:14
1	Pb 220.353†	8644.7	8466.6	0.4981 mg/L	0.4981 mg/L	02:24:14
1	Sb 206.836†	1192.1	1148.0	0.4736 mg/L	0.4736 mg/L	02:24:14
1	Se 196.026†	1772.5	1756.7	0.9770 mg/L	0.9770 mg/L	02:24:14
1	Sn 189.927†	4096.5	4061.4	0.5037 mg/L	0.5037 mg/L	02:24:14
1	Sr 407.771†	55391.5	55177.9	0.0470 mg/L	0.0470 mg/L	02:23:51
1	Ti 337.279†	469203.8	470773.6	0.4853 mg/L	0.4853 mg/L	02:24:03

1	Tl 190.801†	706.7	714.2	0.5343 mg/L	0.5343 mg/L	02:24:14
1	V 292.402†	122861.7	123834.8	0.4941 mg/L	0.4941 mg/L	02:24:03
1	Zn 213.857†	81180.0	80357.6	0.4898 mg/L	0.4898 mg/L	02:24:03
2	Y 371.029	3415521.6	3415521.6	1.01 mg/L		02:24:17
2	Ag 328.068†	51641.5	50385.3	0.2427 mg/L	0.2427 mg/L	02:24:17
2	Al 237.313†	25676.3	25805.5	2.375 mg/L	2.375 mg/L	02:24:28
2	As 188.979†	769.4	760.6	0.4671 mg/L	0.4671 mg/L	02:24:28
2	B 249.677†	1182.1	1185.4	0.4870 mg/L	0.4870 mg/L	02:23:58
2	B 182.528†	579.3	580.4	0.4807 mg/L	0.4807 mg/L	02:24:28
2	Ba 233.527†	64572.7	64011.0	0.4859 mg/L	0.4859 mg/L	02:24:17
2	Be 313.107†	129119.4	129253.4	0.0457 mg/L	0.0457 mg/L	02:24:17
2	Ca 315.887†	610512.5	605089.7	5.426 mg/L	5.426 mg/L	02:24:17
2	Cd 228.802†	8491.0	8258.1	0.2223 mg/L	0.2223 mg/L	02:24:28
2	Co 228.616†	30812.8	30680.8	0.4862 mg/L	0.4862 mg/L	02:24:28
2	Cr 267.716†	67634.8	66243.6	0.5048 mg/L	0.5048 mg/L	02:24:17
2	Cu 324.752†	122801.8	117609.9	0.5040 mg/L	0.5040 mg/L	02:24:17
2	Fe 234.349†	4838.1	4791.1	2.366 mg/L	2.366 mg/L	02:23:58
2	K 766.490†	55977.9	54669.8	23.49 mg/L	23.49 mg/L	02:23:56
2	Li 670.784†	20506.4	20572.8	0.4850 mg/L	0.4850 mg/L	02:23:58
2	Mg 279.077†	82540.2	81422.1	5.286 mg/L	5.286 mg/L	02:24:17
2	Mn 257.610†	482810.8	461900.2	0.4963 mg/L	0.4963 mg/L	02:24:17
2	Mn 294.920†	230526.4	228848.2	0.4880 mg/L	0.4880 mg/L	02:24:17
2	Mo 202.031†	12813.3	12694.8	0.4765 mg/L	0.4765 mg/L	02:24:28
2	Na 589.592†	202695.6	196430.3	26.41 mg/L	26.41 mg/L	02:23:56
2	Ni 231.604†	27571.4	27117.0	0.5048 mg/L	0.5048 mg/L	02:24:17
2	P 214.914†	8717.9	8676.3	4.590 mg/L	4.590 mg/L	02:24:28
2	Pb 220.353†	8536.1	8267.1	0.4864 mg/L	0.4864 mg/L	02:24:28
2	Sb 206.836†	1181.0	1124.3	0.4639 mg/L	0.4639 mg/L	02:24:28
2	Se 196.026†	1771.3	1736.6	0.9658 mg/L	0.9658 mg/L	02:24:28
2	Sn 189.927†	4055.8	3977.6	0.4934 mg/L	0.4934 mg/L	02:24:28
2	Sr 407.771†	54826.2	54029.1	0.0460 mg/L	0.0460 mg/L	02:23:56
2	Ti 337.279†	473765.8	470298.4	0.4849 mg/L	0.4849 mg/L	02:24:17
2	Tl 190.801†	695.3	695.4	0.5201 mg/L	0.5201 mg/L	02:24:28
2	V 292.402†	123775.8	123432.7	0.4924 mg/L	0.4924 mg/L	02:24:17
2	Zn 213.857†	81745.3	80053.7	0.4880 mg/L	0.4880 mg/L	02:24:17

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3397365.1	1.00 mg/L	0.008			0.76%
Ag 328.068†	50406.3	0.2428 mg/L	0.00014	0.2428 mg/L	0.00014	0.06%
QC value within limits for Ag 328.068 Recovery = 97.12%						
Al 237.313†	26012.7	2.394 mg/L	0.0269	2.394 mg/L	0.0269	1.12%
QC value within limits for Al 237.313 Recovery = 95.75%						
As 188.979†	773.9	0.4753 mg/L	0.01151	0.4753 mg/L	0.01151	2.42%
QC value within limits for As 188.979 Recovery = 95.06%						
B 249.677†	1198.1	0.4922 mg/L	0.00737	0.4922 mg/L	0.00737	1.50%
QC value within limits for B 249.677 Recovery = 98.45%						
B 182.528†	582.8	0.4827 mg/L	0.00274	0.4827 mg/L	0.00274	0.57%
QC value within limits for B 182.528 Recovery = 96.54%						
Ba 233.527†	64082.9	0.4864 mg/L	0.00077	0.4864 mg/L	0.00077	0.16%
QC value within limits for Ba 233.527 Recovery = 97.28%						
Be 313.107†	129232.2	0.0457 mg/L	0.00001	0.0457 mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 91.35%						
Ca 315.887†	605126.1	5.426 mg/L	0.0004	5.426 mg/L	0.0004	0.01%
QC value within limits for Ca 315.887 Recovery = 108.52%						
Cd 228.802†	8325.1	0.2241 mg/L	0.00253	0.2241 mg/L	0.00253	1.13%
QC value less than the lower limit for Cd 228.802 Recovery = 89.65% OK SVD 6/26/13						
Co 228.616†	30953.8	0.4906 mg/L	0.00616	0.4906 mg/L	0.00616	1.26%
QC value within limits for Co 228.616 Recovery = 98.11%						
Cr 267.716†	66172.4	0.5042 mg/L	0.00076	0.5042 mg/L	0.00076	0.15%
QC value within limits for Cr 267.716 Recovery = 100.84%						
Cu 324.752†	117722.1	0.5045 mg/L	0.00067	0.5045 mg/L	0.00067	0.13%
QC value within limits for Cu 324.752 Recovery = 100.90%						
Fe 234.349†	4859.5	2.400 mg/L	0.0479	2.400 mg/L	0.0479	2.00%
QC value within limits for Fe 234.349 Recovery = 96.01%						
K 766.490†	55244.6	23.73 mg/L	0.347	23.73 mg/L	0.347	1.46%
QC value within limits for K 766.490 Recovery = 94.94%						
Li 670.784†	20793.8	0.4902 mg/L	0.00734	0.4902 mg/L	0.00734	1.50%
QC value within limits for Li 670.784 Recovery = 98.03%						
Mg 279.077†	81397.4	5.284 mg/L	0.0023	5.284 mg/L	0.0023	0.04%
QC value within limits for Mg 279.077 Recovery = 105.69%						

Mn	257.610†	462327.7	0.4967 mg/L	0.00064	0.4967 mg/L	0.00064	0.13%
	QC value within limits for Mn 257.610 Recovery = 99.35%						
Mn	294.920†	229049.5	0.4884 mg/L	0.00061	0.4884 mg/L	0.00061	0.12%
	QC value within limits for Mn 294.920 Recovery = 97.68%						
Mo	202.031†	12803.0	0.4806 mg/L	0.00574	0.4806 mg/L	0.00574	1.19%
	QC value within limits for Mo 202.031 Recovery = 96.11%						
Na	589.592†	198244.3	26.65 mg/L	0.344	26.65 mg/L	0.344	1.29%
	QC value within limits for Na 589.592 Recovery = 106.60%						
Ni	231.604†	27133.1	0.5051 mg/L	0.00043	0.5051 mg/L	0.00043	0.09%
	QC value within limits for Ni 231.604 Recovery = 101.02%						
P	214.914†	8755.8	4.631 mg/L	0.0589	4.631 mg/L	0.0589	1.27%
	QC value within limits for P 214.914 Recovery = 92.63%						
Pb	220.353†	8366.9	0.4923 mg/L	0.00826	0.4923 mg/L	0.00826	1.68%
	QC value within limits for Pb 220.353 Recovery = 98.45%						
Sb	206.836†	1136.1	0.4687 mg/L	0.00687	0.4687 mg/L	0.00687	1.47%
	QC value within limits for Sb 206.836 Recovery = 93.74%						
Se	196.026†	1746.6	0.9714 mg/L	0.00786	0.9714 mg/L	0.00786	0.81%
	QC value within limits for Se 196.026 Recovery = 97.14%						
Sn	189.927†	4019.5	0.4986 mg/L	0.00728	0.4986 mg/L	0.00728	1.46%
	QC value within limits for Sn 189.927 Recovery = 99.71%						
Sr	407.771†	54603.5	0.0465 mg/L	0.00069	0.0465 mg/L	0.00069	1.48%
	QC value within limits for Sr 407.771 Recovery = 93.04%						
Ti	337.279†	470536.0	0.4851 mg/L	0.00034	0.4851 mg/L	0.00034	0.07%
	QC value within limits for Ti 337.279 Recovery = 97.02%						
Tl	190.801†	704.8	0.5272 mg/L	0.01001	0.5272 mg/L	0.01001	1.90%
	QC value within limits for Tl 190.801 Recovery = 105.44%						
V	292.402†	123633.7	0.4933 mg/L	0.00119	0.4933 mg/L	0.00119	0.24%
	QC value within limits for V 292.402 Recovery = 98.66%						
Zn	213.857†	80205.6	0.4889 mg/L	0.00131	0.4889 mg/L	0.00131	0.27%
	QC value within limits for Zn 213.857 Recovery = 97.78%						
QC Failed. Continue with analysis.							

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Sequence No.: 160                               Autosampler Location: 1
Sample ID: CCB1                                 Date Collected: 6/26/2013 2:26:06 AM
Analyst:                                         Data Type: Reprocessed on 6/26/2013 10:57:55 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3386924.2	3386924.2	1.00 mg/L		02:28:13
1	Ag 328.068†	649.8	-88.1	0.0002 mg/L	0.0002 mg/L	02:28:16
1	Al 237.313†	-368.2	19.9	0.0089 mg/L	0.0089 mg/L	02:28:16
1	As 188.979†	-1.5	-2.6	0.0011 mg/L	0.0011 mg/L	02:28:26
1	B 249.677†	12.7	27.9	0.0139 mg/L	0.0139 mg/L	02:27:57
1	B 182.528†	11.3	18.2	0.0189 mg/L	0.0189 mg/L	02:28:26
1	Ba 233.527†	-41.8	46.1	0.0009 mg/L	0.0009 mg/L	02:28:26
1	Be 313.107†	-1301.2	133.8	0.0003 mg/L	0.0003 mg/L	02:28:16
1	Ca 315.887†	1424.3	2139.8	0.0274 mg/L	0.0274 mg/L	02:28:16
1	Cd 228.802†	155.4	7.7	0.0017 mg/L	0.0017 mg/L	02:28:26
1	Co 228.616†	-174.5	3.7	-0.0020 mg/L	-0.0020 mg/L	02:28:26
1	Cr 267.716†	661.6	-50.4	0.0001 mg/L	0.0001 mg/L	02:28:16
1	Cu 324.752†	3438.9	-523.7	-0.0009 mg/L	-0.0009 mg/L	02:28:16
1	Fe 234.349†	8.1	9.8	0.0154 mg/L	0.0154 mg/L	02:27:57
1	K 766.490†	1129.0	381.9	0.3065 mg/L	0.3065 mg/L	02:27:47
1	Li 670.784†	-314.3	-41.1	0.0009 mg/L	0.0009 mg/L	02:27:47
1	Mg 279.077†	394.9	106.4	0.0049 mg/L	0.0049 mg/L	02:28:16
1	Mn 257.610†	16454.4	372.2	0.0003 mg/L	0.0003 mg/L	02:28:16
1	Mn 294.920†	-382.4	258.8	0.0004 mg/L	0.0004 mg/L	02:28:16
1	Mo 202.031†	12.9	23.3	0.0037 mg/L	0.0037 mg/L	02:28:26
1	Na 589.592†	25086.5	20817.4	2.876 mg/L	2.876 mg/L	02:27:47
1	Ni 231.604†	150.8	-26.6	-0.0010 mg/L	-0.0010 mg/L	02:28:16
1	P 214.914†	-35.6	10.5	0.0540 mg/L	0.0540 mg/L	02:28:26
1	Pb 220.353†	201.0	17.6	0.0030 mg/L	0.0030 mg/L	02:28:26
1	Sb 206.836†	42.4	-2.5	0.0033 mg/L	0.0033 mg/L	02:28:26
1	Se 196.026†	22.7	5.8	0.0077 mg/L	0.0077 mg/L	02:28:26
1	Sn 189.927†	39.7	2.1	0.0019 mg/L	0.0019 mg/L	02:28:26
1	Sr 407.771†	395.7	149.4	0.0004 mg/L	0.0004 mg/L	02:27:47
1	Ti 337.279†	-1374.9	-74.7	0.0027 mg/L	0.0027 mg/L	02:28:16

1	Tl 190.801†	-5.8	1.3	0.0006 mg/L	0.0006 mg/L	02:28:26
1	V 292.402†	-847.9	55.4	0.0026 mg/L	0.0026 mg/L	02:28:16
1	Zn 213.857†	845.3	-25.5	0.0003 mg/L	0.0003 mg/L	02:28:26
2	Y 371.029	3330806.9	3330806.9	0.985 mg/L		02:28:28
2	Ag 328.068†	757.7	32.4	0.0008 mg/L	0.0008 mg/L	02:28:30
2	Al 237.313†	-487.4	-107.3	-0.0027 mg/L	-0.0027 mg/L	02:28:30
2	As 188.979†	7.3	6.4	0.0065 mg/L	0.0065 mg/L	02:28:41
2	B 249.677†	12.9	28.3	0.0141 mg/L	0.0141 mg/L	02:28:10
2	B 182.528†	6.5	13.6	0.0151 mg/L	0.0151 mg/L	02:28:41
2	Ba 233.527†	-10.9	76.7	0.0012 mg/L	0.0012 mg/L	02:28:41
2	Be 313.107†	-1350.0	62.3	0.0002 mg/L	0.0002 mg/L	02:28:30
2	Ca 315.887†	1307.8	2045.5	0.0266 mg/L	0.0266 mg/L	02:28:30
2	Cd 228.802†	152.4	7.3	0.0017 mg/L	0.0017 mg/L	02:28:41
2	Co 228.616†	-170.5	4.9	-0.0020 mg/L	-0.0020 mg/L	02:28:41
2	Cr 267.716†	650.8	-50.2	0.0001 mg/L	0.0001 mg/L	02:28:30
2	Cu 324.752†	3399.1	-506.2	-0.0008 mg/L	-0.0008 mg/L	02:28:30
2	Fe 234.349†	7.3	9.1	0.0151 mg/L	0.0151 mg/L	02:28:10
2	K 766.490†	1221.0	494.4	0.3546 mg/L	0.3546 mg/L	02:28:00
2	Li 670.784†	-314.0	-46.2	0.0008 mg/L	0.0008 mg/L	02:28:00
2	Mg 279.077†	357.5	75.0	0.0029 mg/L	0.0029 mg/L	02:28:30
2	Mn 257.610†	16298.2	490.4	0.0005 mg/L	0.0005 mg/L	02:28:30
2	Mn 294.920†	-271.5	365.0	0.0006 mg/L	0.0006 mg/L	02:28:30
2	Mo 202.031†	-0.7	9.7	0.0032 mg/L	0.0032 mg/L	02:28:41
2	Na 589.592†	26391.0	22563.5	3.110 mg/L	3.110 mg/L	02:28:00
2	Ni 231.604†	120.1	-55.2	-0.0016 mg/L	-0.0016 mg/L	02:28:30
2	P 214.914†	-20.2	25.5	0.0619 mg/L	0.0619 mg/L	02:28:41
2	Pb 220.353†	191.0	10.8	0.0026 mg/L	0.0026 mg/L	02:28:41
2	Sb 206.836†	41.3	-2.9	0.0032 mg/L	0.0032 mg/L	02:28:41
2	Se 196.026†	21.9	5.4	0.0074 mg/L	0.0074 mg/L	02:28:41
2	Sn 189.927†	30.5	-6.5	0.0008 mg/L	0.0008 mg/L	02:28:41
2	Sr 407.771†	288.4	47.1	0.0003 mg/L	0.0003 mg/L	02:28:00
2	Ti 337.279†	-1240.8	38.3	0.0028 mg/L	0.0028 mg/L	02:28:30
2	Tl 190.801†	-4.7	2.4	0.0014 mg/L	0.0014 mg/L	02:28:41
2	V 292.402†	-837.1	52.1	0.0025 mg/L	0.0025 mg/L	02:28:30
2	Zn 213.857†	824.4	-32.6	0.0003 mg/L	0.0003 mg/L	02:28:41

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3358865.6	0.993 mg/L	0.0117			1.18%
Ag 328.068†	-27.9	0.0005 mg/L	0.00041	0.0005 mg/L	0.00041	79.08%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-43.7	0.0031 mg/L	0.00825	0.0031 mg/L	0.00825	267.13%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.9	0.0038 mg/L	0.00388	0.0038 mg/L	0.00388	102.11%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	28.1	0.0140 mg/L	0.00010	0.0140 mg/L	0.00010	0.75%
QC value greater than the upper limit for B 249.677 Recovery = Not calculated						
B 182.528†	15.9	0.0170 mg/L	0.00268	0.0170 mg/L	0.00268	15.83%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba 233.527†	61.4	0.0011 mg/L	0.00016	0.0011 mg/L	0.00016	15.47%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	98.0	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	7.19%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	2092.7	0.0270 mg/L	0.00060	0.0270 mg/L	0.00060	2.20%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	7.5	0.0017 mg/L	0.00001	0.0017 mg/L	0.00001	0.49%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	4.3	-0.0020 mg/L	0.00001	-0.0020 mg/L	0.00001	0.60%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-50.3	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	0.53%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-514.9	-0.0009 mg/L	0.00005	-0.0009 mg/L	0.00005	6.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	9.4	0.0152 mg/L	0.00023	0.0152 mg/L	0.00023	1.52%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	438.2	0.3305 mg/L	0.03395	0.3305 mg/L	0.03395	10.27%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-43.7	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.57%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	90.7	0.0039 mg/L	0.00144	0.0039 mg/L	0.00144	37.02%
QC value within limits for Mg 279.077 Recovery = Not calculated						

Mn	257.610†	431.3	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	22.68%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	311.9	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016	32.46%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	16.5	0.0034 mg/L	0.00036	0.0034 mg/L	0.00036	10.63%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	21690.5	2.993 mg/L	0.1654	2.993 mg/L	0.1654	5.53%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	-40.9	-0.0013 mg/L	0.00038	-0.0013 mg/L	0.00038	29.40%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	18.0	0.0579 mg/L	0.00558	0.0579 mg/L	0.00558	9.62%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	14.2	0.0028 mg/L	0.00028	0.0028 mg/L	0.00028	10.07%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	-2.7	0.0033 mg/L	0.00010	0.0033 mg/L	0.00010	3.06%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	5.6	0.0076 mg/L	0.00018	0.0076 mg/L	0.00018	2.37%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	-2.2	0.0013 mg/L	0.00075	0.0013 mg/L	0.00075	56.20%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	98.3	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	16.03%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	-18.2	0.0028 mg/L	0.00008	0.0028 mg/L	0.00008	2.96%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	1.8	0.0010 mg/L	0.00059	0.0010 mg/L	0.00059	57.82%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	53.7	0.0026 mg/L	0.00001	0.0026 mg/L	0.00001	0.56%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	-29.1	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	9.03%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 161
Sample ID: CF32515-DUP2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 116
Date Collected: 6/26/2013 2:30:18 AM
Data Type: Reprocessed on 6/26/2013 10:57:55 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3015191.8	3015191.8	0.892	mg/L			02:32:22
1	Ag 328.068†	-53.3	-796.6	-0.0007	mg/L	-0.0007	mg/L	02:32:22
1	Al 237.313†	7687.5	9008.0	0.8329	mg/L	0.8329	mg/L	02:32:22
1	As 188.979†	15.5	16.4	0.0126	mg/L	0.0126	mg/L	02:32:32
1	B 249.677†	1838.0	2076.3	0.8499	mg/L	0.8499	mg/L	02:32:04
1	B 182.528†	898.5	1014.5	0.8374	mg/L	0.8374	mg/L	02:32:32
1	Ba 233.527†	1077425.3	1208287.7	9.161	mg/L	9.161	mg/L	02:32:22
1	Be 313.107†	-2519.9	-1393.0	-0.0003	mg/L	-0.0003	mg/L	02:32:22
1	Ca 315.887†	41648848.5	46704778.0	418.0	mg/L	418.0	mg/L	02:32:19
1	Cd 228.802†	189.6	65.2	0.0016	mg/L	0.0016	mg/L	02:32:32
1	Co 228.616†	27.3	208.5	0.0012	mg/L	0.0012	mg/L	02:32:32
1	Cr 267.716†	1188.8	622.2	0.0053	mg/L	0.0053	mg/L	02:32:32
1	Cu 324.752†	5578.3	2298.7	0.0111	mg/L	0.0111	mg/L	02:32:22
1	Fe 234.349†	178770.5	200470.8	98.59	mg/L	98.59	mg/L	02:32:04
1	K 766.490†	110417.4	123074.4	52.70	mg/L	52.70	mg/L	02:32:02
1	Li 670.784†	7376.0	8543.9	0.2025	mg/L	0.2025	mg/L	02:32:04
1	Mg 279.077†	1160850.4	1301463.1	84.51	mg/L	84.51	mg/L	02:32:22
1	Mn 257.610†	622646.7	682167.4	0.7113	mg/L	0.7113	mg/L	02:32:22
1	Mn 294.920†	317804.3	357019.0	0.7614	mg/L	0.7614	mg/L	02:32:22
1	Mo 202.031†	391.9	449.9	0.0047	mg/L	0.0047	mg/L	02:32:32
1	Na 589.592†	5052013.2	5660984.8	758.6	mg/L	758.6	mg/L	02:32:00
1	Ni 231.604†	302.7	162.3	0.0025	mg/L	0.0025	mg/L	02:32:32
1	P 214.914†	2307.4	2633.6	1.429	mg/L	1.429	mg/L	02:32:32
1	Pb 220.353†	3106.4	3300.4	0.1948	mg/L	0.1948	mg/L	02:32:32
1	Sb 206.836†	76.4	40.8	-0.0210	mg/L	-0.0210	mg/L	02:32:32
1	Se 196.026†	-20.4	-39.8	-0.0117	mg/L	-0.0117	mg/L	02:32:32
1	Sn 189.927†	-964.5	-1119.0	0.1227	mg/L	0.1227	mg/L	02:32:32
1	Sr 407.771†	3012375.3	3377762.7	2.860	mg/L	2.860	mg/L	02:32:00
1	Ti 337.279†	9668.9	12140.4	0.0152	mg/L	0.0152	mg/L	02:32:22

1	Tl 190.801†	24.2	34.3	-0.0825	mg/L	-0.0825	mg/L	02:32:32
1	V 292.402†	2290.1	3470.0	0.0160	mg/L	0.0160	mg/L	02:32:32
1	Zn 213.857†	46942.3	51770.6	0.3140	mg/L	0.3140	mg/L	02:32:22
2	Y 371.029	2999085.4	2999085.4	0.887	mg/L			02:32:41
2	Ag 328.068†	-78.3	-825.0	-0.0008	mg/L	-0.0008	mg/L	02:32:41
2	Al 237.313†	7513.7	8858.4	0.8192	mg/L	0.8192	mg/L	02:32:41
2	As 188.979†	5.4	5.0	0.0057	mg/L	0.0057	mg/L	02:32:52
2	B 249.677†	1812.0	2058.0	0.8424	mg/L	0.8424	mg/L	02:32:12
2	B 182.528†	894.3	1015.2	0.8380	mg/L	0.8380	mg/L	02:32:52
2	Ba 233.527†	1071996.3	1208655.6	9.163	mg/L	9.163	mg/L	02:32:41
2	Be 313.107†	-2486.1	-1370.1	-0.0003	mg/L	-0.0003	mg/L	02:32:41
2	Ca 315.887†	41411350.6	46687844.3	417.9	mg/L	417.9	mg/L	02:32:38
2	Cd 228.802†	181.6	57.3	0.0013	mg/L	0.0013	mg/L	02:32:52
2	Co 228.616†	16.6	196.6	0.0010	mg/L	0.0010	mg/L	02:32:52
2	Cr 267.716†	1192.6	633.7	0.0053	mg/L	0.0053	mg/L	02:32:52
2	Cu 324.752†	5542.7	2292.2	0.0111	mg/L	0.0111	mg/L	02:32:41
2	Fe 234.349†	180517.5	203516.9	100.1	mg/L	100.1	mg/L	02:32:12
2	K 766.490†	110562.9	123903.4	53.05	mg/L	53.05	mg/L	02:32:09
2	Li 670.784†	7498.0	8725.8	0.2068	mg/L	0.2068	mg/L	02:32:12
2	Mg 279.077†	1156478.9	1303525.6	84.64	mg/L	84.64	mg/L	02:32:41
2	Mn 257.610†	620240.0	683203.9	0.7121	mg/L	0.7121	mg/L	02:32:41
2	Mn 294.920†	316100.1	357011.6	0.7613	mg/L	0.7613	mg/L	02:32:41
2	Mo 202.031†	377.8	436.4	0.0040	mg/L	0.0040	mg/L	02:32:52
2	Na 589.592†	5102948.1	5748833.5	770.4	mg/L	770.4	mg/L	02:32:07
2	Ni 231.604†	305.0	166.7	0.0026	mg/L	0.0026	mg/L	02:32:52
2	P 214.914†	2309.8	2650.1	1.438	mg/L	1.438	mg/L	02:32:52
2	Pb 220.353†	3098.2	3309.8	0.1953	mg/L	0.1953	mg/L	02:32:52
2	Sb 206.836†	80.3	45.7	-0.0196	mg/L	-0.0196	mg/L	02:32:52
2	Se 196.026†	-18.9	-38.2	-0.0108	mg/L	-0.0108	mg/L	02:32:52
2	Sn 189.927†	-984.8	-1147.7	0.1190	mg/L	0.1190	mg/L	02:32:52
2	Sr 407.771†	3029126.6	3414789.5	2.891	mg/L	2.891	mg/L	02:32:07
2	Ti 337.279†	10370.5	12989.6	0.0161	mg/L	0.0161	mg/L	02:32:41
2	Tl 190.801†	24.2	34.4	-0.0831	mg/L	-0.0831	mg/L	02:32:52
2	V 292.402†	2293.3	3487.3	0.0160	mg/L	0.0160	mg/L	02:32:52
2	Zn 213.857†	47019.6	52140.5	0.3162	mg/L	0.3162	mg/L	02:32:41

Mean Data: CF32515-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3007138.6	0.889 mg/L	0.0034			0.38%
Ag 328.068†	-810.8	-0.0007 mg/L	0.00007	-0.0007 mg/L	0.00007	9.46%
Al 237.313†	8933.2	0.8261 mg/L	0.00970	0.8261 mg/L	0.00970	1.17%
As 188.979†	10.7	0.0092 mg/L	0.00491	0.0092 mg/L	0.00491	53.55%
B 249.677†	2067.2	0.8462 mg/L	0.00529	0.8462 mg/L	0.00529	0.62%
B 182.528†	1014.8	0.8377 mg/L	0.00041	0.8377 mg/L	0.00041	0.05%
Ba 233.527†	1208471.6	9.162 mg/L	0.0020	9.162 mg/L	0.0020	0.02%
Be 313.107†	-1381.6	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	2.02%
Ca 315.887†	46696311.2	417.9 mg/L	0.11	417.9 mg/L	0.11	0.03%
Cd 228.802†	61.3	0.0014 mg/L	0.00017	0.0014 mg/L	0.00017	11.67%
Co 228.616†	202.6	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	11.98%
Cr 267.716†	628.0	0.0053 mg/L	0.00006	0.0053 mg/L	0.00006	1.16%
Cu 324.752†	2295.4	0.0111 mg/L	0.00002	0.0111 mg/L	0.00002	0.17%
Fe 234.349†	201993.8	99.34 mg/L	1.067	99.34 mg/L	1.067	1.07%
K 766.490†	123488.9	52.88 mg/L	0.250	52.88 mg/L	0.250	0.47%
Li 670.784†	8634.9	0.2047 mg/L	0.00302	0.2047 mg/L	0.00302	1.48%
Mg 279.077†	1302494.4	84.57 mg/L	0.095	84.57 mg/L	0.095	0.11%
Mn 257.610†	682685.6	0.7117 mg/L	0.00055	0.7117 mg/L	0.00055	0.08%
Mn 294.920†	357015.3	0.7614 mg/L	0.00001	0.7614 mg/L	0.00001	0.00%
Mo 202.031†	443.1	0.0044 mg/L	0.00052	0.0044 mg/L	0.00052	11.90%
Na 589.592†	5704909.2	764.5 mg/L	8.32	764.5 mg/L	8.32	1.09%
Ni 231.604†	164.5	0.0026 mg/L	0.00006	0.0026 mg/L	0.00006	2.23%
P 214.914†	2641.8	1.433 mg/L	0.0061	1.433 mg/L	0.0061	0.43%
Pb 220.353†	3305.1	0.1950 mg/L	0.00039	0.1950 mg/L	0.00039	0.20%
Sb 206.836†	43.3	-0.0203 mg/L	0.00096	-0.0203 mg/L	0.00096	4.72%
Se 196.026†	-39.0	-0.0112 mg/L	0.00067	-0.0112 mg/L	0.00067	5.99%
Sn 189.927†	-1133.4	0.1208 mg/L	0.00256	0.1208 mg/L	0.00256	2.12%
Sr 407.771†	3396276.1	2.875 mg/L	0.0222	2.875 mg/L	0.0222	0.77%
Ti 337.279†	12565.0	0.0157 mg/L	0.00062	0.0157 mg/L	0.00062	3.93%
Tl 190.801†	34.3	-0.0828 mg/L	0.00039	-0.0828 mg/L	0.00039	0.47%
V 292.402†	3478.6	0.0160 mg/L	0.00004	0.0160 mg/L	0.00004	0.26%
Zn 213.857†	51955.5	0.3151 mg/L	0.00156	0.3151 mg/L	0.00156	0.49%

Sequence No.: 162
Sample ID: CF32515-MS2

Analyst:
Logged In Analyst (Original) : ICP3

Initial Sample Wt:
Dilution:

Autosampler Location: 117

Date Collected: 6/26/2013 2:36:01 AM

Data Type: Reprocessed on 6/26/2013 10:57:56 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32515-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3019682.0	3019682.0	0.893 mg/L		02:38:03
1	Ag 328.068†	46427.7	51248.7	0.2494 mg/L	0.2494 mg/L	02:38:03
1	Al 237.313†	33124.4	37477.2	3.445 mg/L	3.445 mg/L	02:38:03
1	As 188.979†	740.1	827.7	0.5081 mg/L	0.5081 mg/L	02:38:13
1	B 249.677†	3006.6	3381.7	1.383 mg/L	1.383 mg/L	02:37:44
1	B 182.528†	1447.0	1627.2	1.341 mg/L	1.341 mg/L	02:38:13
1	Ba 233.527†	1174631.6	1315333.9	9.972 mg/L	9.972 mg/L	02:38:03
1	Be 313.107†	113697.8	128741.2	0.0455 mg/L	0.0455 mg/L	02:38:03
1	Ca 315.887†	43460273.1	48663600.0	435.6 mg/L	435.6 mg/L	02:37:59
1	Cd 228.802†	7625.1	8390.5	0.2241 mg/L	0.2241 mg/L	02:38:13
1	Co 228.616†	25637.6	28884.6	0.4575 mg/L	0.4575 mg/L	02:38:13
1	Cr 267.716†	60720.3	67278.2	0.5127 mg/L	0.5127 mg/L	02:38:03
1	Cu 324.752†	120003.8	130412.7	0.5587 mg/L	0.5587 mg/L	02:38:03
1	Fe 234.349†	190646.4	213470.2	105.0 mg/L	105.0 mg/L	02:37:44
1	K 766.490†	169101.3	188599.2	80.68 mg/L	80.68 mg/L	02:37:42
1	Li 670.784†	29110.5	32867.9	0.7737 mg/L	0.7737 mg/L	02:37:44
1	Mg 279.077†	1279057.1	1431884.5	92.98 mg/L	92.98 mg/L	02:38:03
1	Mn 257.610†	1041370.6	1149978.4	1.213 mg/L	1.213 mg/L	02:38:03
1	Mn 294.920†	525841.1	589429.9	1.257 mg/L	1.257 mg/L	02:38:03
1	Mo 202.031†	12184.4	13653.4	0.4967 mg/L	0.4967 mg/L	02:38:13
1	Na 589.592†	5382964.7	6023130.4	807.1 mg/L	807.1 mg/L	02:37:40
1	Ni 231.604†	22921.2	25487.9	0.4745 mg/L	0.4745 mg/L	02:38:03
1	P 214.914†	10839.5	12183.1	6.428 mg/L	6.428 mg/L	02:38:13
1	Pb 220.353†	10417.7	11481.7	0.6741 mg/L	0.6741 mg/L	02:38:13
1	Sb 206.836†	1138.0	1229.5	0.4633 mg/L	0.4633 mg/L	02:38:13
1	Se 196.026†	1560.1	1730.0	0.9683 mg/L	0.9683 mg/L	02:38:13
1	Sn 189.927†	2534.3	2800.2	0.6148 mg/L	0.6148 mg/L	02:38:13
1	Sr 407.771†	3164254.8	3542800.6	2.999 mg/L	2.999 mg/L	02:37:40
1	Ti 337.279†	444568.0	499084.9	0.5144 mg/L	0.5144 mg/L	02:38:03
1	Tl 190.801†	615.0	695.7	0.4086 mg/L	0.4086 mg/L	02:38:13
1	V 292.402†	116949.3	131851.1	0.5256 mg/L	0.5256 mg/L	02:38:03
1	Zn 213.857†	120844.3	134441.1	0.8176 mg/L	0.8176 mg/L	02:38:03
2	Y 371.029	3034370.3	3034370.3	0.897 mg/L		02:38:22
2	Ag 328.068†	46140.7	50677.3	0.2466 mg/L	0.2466 mg/L	02:38:22
2	Al 237.313†	33426.9	37634.6	3.459 mg/L	3.459 mg/L	02:38:22
2	As 188.979†	741.2	824.9	0.5064 mg/L	0.5064 mg/L	02:38:32
2	B 249.677†	3009.2	3368.3	1.378 mg/L	1.378 mg/L	02:37:51
2	B 182.528†	1474.5	1650.0	1.360 mg/L	1.360 mg/L	02:38:32
2	Ba 233.527†	1172560.3	1306659.3	9.906 mg/L	9.906 mg/L	02:38:22
2	Be 313.107†	113631.0	128050.6	0.0453 mg/L	0.0453 mg/L	02:38:22
2	Ca 315.887†	43515761.8	48489869.8	434.0 mg/L	434.0 mg/L	02:38:18
2	Cd 228.802†	7723.0	8458.2	0.2260 mg/L	0.2260 mg/L	02:38:32
2	Co 228.616†	25989.8	29138.1	0.4616 mg/L	0.4616 mg/L	02:38:32
2	Cr 267.716†	60487.2	66689.4	0.5082 mg/L	0.5082 mg/L	02:38:22
2	Cu 324.752†	119764.0	129495.1	0.5548 mg/L	0.5548 mg/L	02:38:22
2	Fe 234.349†	189079.6	210691.1	103.6 mg/L	103.6 mg/L	02:37:51
2	K 766.490†	169333.0	187940.9	80.40 mg/L	80.40 mg/L	02:37:49
2	Li 670.784†	28871.0	32443.3	0.7637 mg/L	0.7637 mg/L	02:37:51
2	Mg 279.077†	1277195.5	1422877.6	92.39 mg/L	92.39 mg/L	02:38:22
2	Mn 257.610†	1040077.2	1142892.8	1.206 mg/L	1.206 mg/L	02:38:22
2	Mn 294.920†	525287.2	585962.5	1.250 mg/L	1.250 mg/L	02:38:22
2	Mo 202.031†	12299.9	13716.1	0.4993 mg/L	0.4993 mg/L	02:38:32
2	Na 589.592†	5418868.6	6033961.3	808.6 mg/L	808.6 mg/L	02:37:47
2	Ni 231.604†	22908.1	25349.1	0.4719 mg/L	0.4719 mg/L	02:38:22
2	P 214.914†	10986.4	12288.1	6.483 mg/L	6.483 mg/L	02:38:32
2	Pb 220.353†	10562.7	11586.8	0.6803 mg/L	0.6803 mg/L	02:38:32
2	Sb 206.836†	1170.2	1259.2	0.4760 mg/L	0.4760 mg/L	02:38:32
2	Se 196.026†	1570.0	1732.6	0.9697 mg/L	0.9697 mg/L	02:38:32
2	Sn 189.927†	2561.4	2816.7	0.6159 mg/L	0.6159 mg/L	02:38:32
2	Sr 407.771†	3179477.5	3542612.4	2.999 mg/L	2.999 mg/L	02:37:47
2	Ti 337.279†	441286.0	493018.2	0.5081 mg/L	0.5081 mg/L	02:38:22

2	Tl 190.801†	617.6	695.3	0.4091 mg/L	0.4091 mg/L	02:38:32
2	V 292.402†	116547.3	130769.3	0.5214 mg/L	0.5214 mg/L	02:38:22
2	Zn 213.857†	120779.9	133714.3	0.8132 mg/L	0.8132 mg/L	02:38:22

Mean Data: CF32515-MS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3027026.2	0.895 mg/L		0.0031			0.34%
Ag 328.068†	50963.0	0.2480 mg/L		0.00196	0.2480 mg/L	0.00196	0.79%
Al 237.313†	37555.9	3.452 mg/L		0.0102	3.452 mg/L	0.0102	0.30%
As 188.979†	826.3	0.5073 mg/L		0.00121	0.5073 mg/L	0.00121	0.24%
B 249.677†	3375.0	1.381 mg/L		0.0038	1.381 mg/L	0.0038	0.28%
B 182.528†	1638.6	1.350 mg/L		0.0132	1.350 mg/L	0.0132	0.98%
Ba 233.527†	1310996.6	9.939 mg/L		0.0465	9.939 mg/L	0.0465	0.47%
Be 313.107†	128395.9	0.0454 mg/L		0.00017	0.0454 mg/L	0.00017	0.38%
Ca 315.887†	48576734.9	434.8 mg/L		1.10	434.8 mg/L	1.10	0.25%
Cd 228.802†	8424.4	0.2250 mg/L		0.00130	0.2250 mg/L	0.00130	0.58%
Co 228.616†	29011.3	0.4596 mg/L		0.00287	0.4596 mg/L	0.00287	0.62%
Cr 267.716†	66983.8	0.5104 mg/L		0.00317	0.5104 mg/L	0.00317	0.62%
Cu 324.752†	129953.9	0.5567 mg/L		0.00278	0.5567 mg/L	0.00278	0.50%
Fe 234.349†	212080.6	104.3 mg/L		0.97	104.3 mg/L	0.97	0.93%
K 766.490†	188270.0	80.54 mg/L		0.199	80.54 mg/L	0.199	0.25%
Li 670.784†	32655.6	0.7687 mg/L		0.00705	0.7687 mg/L	0.00705	0.92%
Mg 279.077†	1427381.1	92.69 mg/L		0.414	92.69 mg/L	0.414	0.45%
Mn 257.610†	1146435.6	1.209 mg/L		0.0052	1.209 mg/L	0.0052	0.43%
Mn 294.920†	587696.2	1.253 mg/L		0.0052	1.253 mg/L	0.0052	0.42%
Mo 202.031†	13684.7	0.4980 mg/L		0.00183	0.4980 mg/L	0.00183	0.37%
Na 589.592†	6028545.9	807.9 mg/L		1.03	807.9 mg/L	1.03	0.13%
Ni 231.604†	25418.5	0.4732 mg/L		0.00182	0.4732 mg/L	0.00182	0.39%
P 214.914†	12235.6	6.455 mg/L		0.0389	6.455 mg/L	0.0389	0.60%
Pb 220.353†	11534.3	0.6772 mg/L		0.00435	0.6772 mg/L	0.00435	0.64%
Sb 206.836†	1244.3	0.4696 mg/L		0.00905	0.4696 mg/L	0.00905	1.93%
Se 196.026†	1731.3	0.9690 mg/L		0.00097	0.9690 mg/L	0.00097	0.10%
Sn 189.927†	2808.4	0.6153 mg/L		0.00075	0.6153 mg/L	0.00075	0.12%
Sr 407.771†	3542706.5	2.999 mg/L		0.0001	2.999 mg/L	0.0001	0.00%
Ti 337.279†	496051.6	0.5113 mg/L		0.00440	0.5113 mg/L	0.00440	0.86%
Tl 190.801†	695.5	0.4089 mg/L		0.00041	0.4089 mg/L	0.00041	0.10%
V 292.402†	131310.2	0.5235 mg/L		0.00297	0.5235 mg/L	0.00297	0.57%
Zn 213.857†	134077.7	0.8154 mg/L		0.00310	0.8154 mg/L	0.00310	0.38%

Sequence No.: 163

Sample ID: CF32515-SD2 @5

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 118

Date Collected: 6/26/2013 2:41:38 AM

Data Type: Reprocessed on 6/26/2013 10:57:57 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32515-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3261751.1	3261751.1	0.965 mg/L		02:43:46
1	Ag 328.068†	619.2	-94.9	0.0007 mg/L	0.0007 mg/L	02:43:48
1	Al 237.313†	1546.2	1990.2	0.1895 mg/L	0.1895 mg/L	02:43:48
1	As 188.979†	-5.3	-6.5	-0.0014 mg/L	-0.0014 mg/L	02:43:58
1	B 249.677†	435.0	466.1	0.1928 mg/L	0.1928 mg/L	02:43:26
1	B 182.528†	220.0	235.0	0.1970 mg/L	0.1970 mg/L	02:43:58
1	Ba 233.527†	257317.5	266825.9	2.023 mg/L	2.023 mg/L	02:43:48
1	Be 313.107†	-1670.2	-298.5	0.0001 mg/L	0.0001 mg/L	02:43:48
1	Ca 315.887†	10088464.0	10458529.5	93.61 mg/L	93.61 mg/L	02:43:43
1	Cd 228.802†	163.9	22.4	0.0017 mg/L	0.0017 mg/L	02:43:58
1	Co 228.616†	-137.1	35.8	-0.0015 mg/L	-0.0015 mg/L	02:43:58
1	Cr 267.716†	700.0	14.8	0.0006 mg/L	0.0006 mg/L	02:43:48
1	Cu 324.752†	4078.5	271.1	0.0025 mg/L	0.0025 mg/L	02:43:48
1	Fe 234.349†	41525.4	43047.3	21.17 mg/L	21.17 mg/L	02:43:26
1	K 766.490†	24724.6	24884.7	10.77 mg/L	10.77 mg/L	02:43:16
1	Li 670.784†	1319.1	1640.0	0.0404 mg/L	0.0404 mg/L	02:43:16
1	Mg 279.077†	270521.5	280137.6	18.19 mg/L	18.19 mg/L	02:43:46
1	Mn 257.610†	162254.7	152140.8	0.1588 mg/L	0.1588 mg/L	02:43:48
1	Mn 294.920†	76154.5	79583.2	0.1696 mg/L	0.1696 mg/L	02:43:48
1	Mo 202.031†	219.1	237.6	0.0085 mg/L	0.0085 mg/L	02:43:58

1	Na 589.592†	1173971.4	1212725.1	162.6	mg/L	162.6	mg/L	02:43:16
1	Ni 231.604†	171.8	1.0	-0.0005	mg/L	-0.0005	mg/L	02:43:58
1	P 214.914†	537.9	603.6	0.3649	mg/L	0.3649	mg/L	02:43:58
1	Pb 220.353†	792.5	638.4	0.0392	mg/L	0.0392	mg/L	02:43:58
1	Sb 206.836†	51.6	8.7	-0.0010	mg/L	-0.0010	mg/L	02:43:58
1	Se 196.026†	-9.3	-26.5	-0.0089	mg/L	-0.0089	mg/L	02:43:58
1	Sn 189.927†	-622.1	-682.4	-0.0243	mg/L	-0.0243	mg/L	02:43:58
1	Sr 407.771†	684006.2	708802.7	0.6003	mg/L	0.6003	mg/L	02:43:16
1	Ti 337.279†	1322.7	2669.0	0.0055	mg/L	0.0055	mg/L	02:43:48
1	Tl 190.801†	12.1	19.7	-0.0093	mg/L	-0.0093	mg/L	02:43:58
1	V 292.402†	-66.4	833.1	0.0057	mg/L	0.0057	mg/L	02:43:48
1	Zn 213.857†	11905.5	11472.0	0.0700	mg/L	0.0700	mg/L	02:43:48
2	Y 371.029	3276080.9	3276080.9	0.969	mg/L			02:44:03
2	Ag 328.068†	533.1	-186.6	0.0003	mg/L	0.0003	mg/L	02:44:06
2	Al 237.313†	1383.9	1815.7	0.1736	mg/L	0.1736	mg/L	02:44:06
2	As 188.979†	0.9	-0.1	0.0026	mg/L	0.0026	mg/L	02:44:16
2	B 249.677†	418.6	447.2	0.1850	mg/L	0.1850	mg/L	02:43:39
2	B 182.528†	220.4	234.4	0.1965	mg/L	0.1965	mg/L	02:44:16
2	Ba 233.527†	254893.1	263157.0	1.996	mg/L	1.996	mg/L	02:44:06
2	Be 313.107†	-1724.6	-347.2	0.0001	mg/L	0.0001	mg/L	02:44:06
2	Ca 315.887†	10157207.6	10483735.2	93.84	mg/L	93.84	mg/L	02:44:01
2	Cd 228.802†	159.1	16.7	0.0016	mg/L	0.0016	mg/L	02:44:16
2	Co 228.616†	-101.2	73.4	-0.0009	mg/L	-0.0009	mg/L	02:44:16
2	Cr 267.716†	708.6	20.5	0.0007	mg/L	0.0007	mg/L	02:44:06
2	Cu 324.752†	4009.7	181.7	0.0021	mg/L	0.0021	mg/L	02:44:06
2	Fe 234.349†	41348.2	42676.2	20.99	mg/L	20.99	mg/L	02:43:39
2	K 766.490†	24328.0	24363.3	10.55	mg/L	10.55	mg/L	02:43:29
2	Li 670.784†	1328.9	1644.1	0.0405	mg/L	0.0405	mg/L	02:43:29
2	Mg 279.077†	272745.2	281206.1	18.26	mg/L	18.26	mg/L	02:44:03
2	Mn 257.610†	160614.8	149712.6	0.1562	mg/L	0.1562	mg/L	02:44:06
2	Mn 294.920†	75427.4	78487.4	0.1672	mg/L	0.1672	mg/L	02:44:06
2	Mo 202.031†	233.9	251.8	0.0091	mg/L	0.0091	mg/L	02:44:16
2	Na 589.592†	1160573.8	1193574.7	160.0	mg/L	160.0	mg/L	02:43:29
2	Ni 231.604†	167.7	-4.1	-0.0006	mg/L	-0.0006	mg/L	02:44:16
2	P 214.914†	530.2	593.2	0.3595	mg/L	0.3595	mg/L	02:44:16
2	Pb 220.353†	818.9	662.1	0.0406	mg/L	0.0406	mg/L	02:44:16
2	Sb 206.836†	57.1	14.1	0.0013	mg/L	0.0013	mg/L	02:44:16
2	Se 196.026†	0.7	-16.2	-0.0033	mg/L	-0.0033	mg/L	02:44:16
2	Sn 189.927†	-644.5	-702.6	-0.0267	mg/L	-0.0267	mg/L	02:44:16
2	Sr 407.771†	673445.9	694802.1	0.5884	mg/L	0.5884	mg/L	02:43:29
2	Ti 337.279†	2097.5	3462.7	0.0063	mg/L	0.0063	mg/L	02:44:06
2	Tl 190.801†	18.6	26.4	-0.0042	mg/L	-0.0042	mg/L	02:44:16
2	V 292.402†	-155.6	741.2	0.0053	mg/L	0.0053	mg/L	02:44:06
2	Zn 213.857†	11641.1	11145.1	0.0680	mg/L	0.0680	mg/L	02:44:06

Mean Data: CF32515-SD2 @5

Analyte	Mean Corrected Intensity	Conc.	Units	Calib	Std.Dev.	Conc.	Units	Sample Std.Dev.	RSD
Y 371.029	3268916.0	0.967	mg/L		0.0030				0.31%
Ag 328.068†	-140.8	0.0005	mg/L		0.00031	0.0005	mg/L	0.00031	62.12%
Al 237.313†	1902.9	0.1815	mg/L		0.01131	0.1815	mg/L	0.01131	6.23%
As 188.979†	-3.3	0.0006	mg/L		0.00278	0.0006	mg/L	0.00278	467.30%
B 249.677†	456.7	0.1889	mg/L		0.00547	0.1889	mg/L	0.00547	2.90%
B 182.528†	234.7	0.1967	mg/L		0.00036	0.1967	mg/L	0.00036	0.18%
Ba 233.527†	264991.4	2.009	mg/L		0.0197	2.009	mg/L	0.0197	0.98%
Be 313.107†	-322.9	0.0001	mg/L		0.00001	0.0001	mg/L	0.00001	12.41%
Ca 315.887†	10471132.4	93.73	mg/L		0.160	93.73	mg/L	0.160	0.17%
Cd 228.802†	19.6	0.0017	mg/L		0.00011	0.0017	mg/L	0.00011	6.36%
Co 228.616†	54.6	-0.0012	mg/L		0.00042	-0.0012	mg/L	0.00042	35.06%
Cr 267.716†	17.7	0.0006	mg/L		0.00003	0.0006	mg/L	0.00003	4.78%
Cu 324.752†	226.4	0.0023	mg/L		0.00027	0.0023	mg/L	0.00027	11.82%
Fe 234.349†	42861.7	21.08	mg/L		0.130	21.08	mg/L	0.130	0.62%
K 766.490†	24624.0	10.66	mg/L		0.157	10.66	mg/L	0.157	1.48%
Li 670.784†	1642.1	0.0405	mg/L		0.00007	0.0405	mg/L	0.00007	0.17%
Mg 279.077†	280671.9	18.22	mg/L		0.049	18.22	mg/L	0.049	0.27%
Mn 257.610†	150926.7	0.1575	mg/L		0.00182	0.1575	mg/L	0.00182	1.15%
Mn 294.920†	79035.3	0.1684	mg/L		0.00165	0.1684	mg/L	0.00165	0.98%
Mo 202.031†	244.7	0.0088	mg/L		0.00040	0.0088	mg/L	0.00040	4.54%
Na 589.592†	1203149.9	161.3	mg/L		1.81	161.3	mg/L	1.81	1.12%
Ni 231.604†	-1.6	-0.0005	mg/L		0.00007	-0.0005	mg/L	0.00007	12.34%
P 214.914†	598.4	0.3622	mg/L		0.00386	0.3622	mg/L	0.00386	1.07%
Pb 220.353†	650.2	0.0399	mg/L		0.00098	0.0399	mg/L	0.00098	2.46%

Sb 206.836†	11.4	0.0001 mg/L	0.00163	0.0001 mg/L	0.00163	>999.9%
Se 196.026†	-21.3	-0.0061 mg/L	0.00401	-0.0061 mg/L	0.00401	65.68%
Sn 189.927†	-692.5	-0.0255 mg/L	0.00166	-0.0255 mg/L	0.00166	6.51%
Sr 407.771†	701802.4	0.5944 mg/L	0.00838	0.5944 mg/L	0.00838	1.41%
Ti 337.279†	3065.9	0.0059 mg/L	0.00058	0.0059 mg/L	0.00058	9.71%
Tl 190.801†	23.0	-0.0067 mg/L	0.00358	-0.0067 mg/L	0.00358	53.16%
V 292.402†	787.1	0.0055 mg/L	0.00025	0.0055 mg/L	0.00025	4.52%
Zn 213.857†	11308.5	0.0690 mg/L	0.00141	0.0690 mg/L	0.00141	2.05%

Sequence No.: 164
Sample ID: CF32515-PDS2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 119
Date Collected: 6/26/2013 2:45:51 AM
Data Type: Reprocessed on 6/26/2013 10:57:57 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32515-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3053260.3	3053260.3	0.903 mg/L		02:47:56
1	Ag 328.068†	46506.8	50764.7	0.2471 mg/L	0.2471 mg/L	02:47:56
1	Al 237.313†	33397.2	37371.4	3.435 mg/L	3.435 mg/L	02:47:56
1	As 188.979†	733.1	810.8	0.4978 mg/L	0.4978 mg/L	02:48:06
1	B 249.677†	3113.3	3462.8	1.416 mg/L	1.416 mg/L	02:47:37
1	B 182.528†	1459.6	1623.3	1.338 mg/L	1.338 mg/L	02:48:06
1	Ba 233.527†	1192478.0	1320632.5	10.01 mg/L	10.01 mg/L	02:47:56
1	Be 313.107†	113515.2	127139.0	0.0449 mg/L	0.0449 mg/L	02:47:56
1	Ca 315.887†	44656662.6	49453304.3	442.6 mg/L	442.6 mg/L	02:47:52
1	Cd 228.802†	7501.8	8160.0	0.2179 mg/L	0.2179 mg/L	02:48:06
1	Co 228.616†	25373.8	28276.8	0.4479 mg/L	0.4479 mg/L	02:48:06
1	Cr 267.716†	60899.5	66729.0	0.5085 mg/L	0.5085 mg/L	02:47:56
1	Cu 324.752†	119334.5	128193.8	0.5492 mg/L	0.5492 mg/L	02:47:56
1	Fe 234.349†	196399.9	217494.1	107.0 mg/L	107.0 mg/L	02:47:35
1	K 766.490†	173474.6	191360.0	81.86 mg/L	81.86 mg/L	02:47:35
1	Li 670.784†	29767.1	33236.6	0.7824 mg/L	0.7824 mg/L	02:47:37
1	Mg 279.077†	1316049.2	1457099.1	94.61 mg/L	94.61 mg/L	02:47:56
1	Mn 257.610†	1055618.2	1152932.6	1.216 mg/L	1.216 mg/L	02:47:56
1	Mn 294.920†	533073.5	590963.7	1.260 mg/L	1.260 mg/L	02:47:56
1	Mo 202.031†	11992.0	13290.4	0.4828 mg/L	0.4828 mg/L	02:48:06
1	Na 589.592†	5603988.8	6201605.4	831.0 mg/L	831.0 mg/L	02:47:33
1	Ni 231.604†	23075.0	25376.0	0.4724 mg/L	0.4724 mg/L	02:47:56
1	P 214.914†	11055.7	12289.1	6.483 mg/L	6.483 mg/L	02:48:06
1	Pb 220.353†	10257.7	11176.2	0.6562 mg/L	0.6562 mg/L	02:48:06
1	Sb 206.836†	1134.3	1211.3	0.4549 mg/L	0.4549 mg/L	02:48:06
1	Se 196.026†	1605.1	1760.6	0.9853 mg/L	0.9853 mg/L	02:48:06
1	Sn 189.927†	2463.9	2691.0	0.6058 mg/L	0.6058 mg/L	02:48:06
1	Sr 407.771†	3315481.7	3671303.9	3.108 mg/L	3.108 mg/L	02:47:33
1	Ti 337.279†	436308.0	484463.4	0.4994 mg/L	0.4994 mg/L	02:47:56
1	Tl 190.801†	602.7	674.5	0.3906 mg/L	0.3906 mg/L	02:48:06
1	V 292.402†	116683.3	130116.4	0.5187 mg/L	0.5187 mg/L	02:47:56
1	Zn 213.857†	125058.9	137620.3	0.8370 mg/L	0.8370 mg/L	02:47:56
2	Y 371.029	3063312.2	3063312.2	0.906 mg/L		02:48:15
2	Ag 328.068†	46613.3	50713.2	0.2469 mg/L	0.2469 mg/L	02:48:15
2	Al 237.313†	33382.9	37234.2	3.422 mg/L	3.422 mg/L	02:48:15
2	As 188.979†	736.0	811.3	0.4981 mg/L	0.4981 mg/L	02:48:25
2	B 249.677†	3075.5	3409.8	1.395 mg/L	1.395 mg/L	02:47:45
2	B 182.528†	1487.3	1648.5	1.358 mg/L	1.358 mg/L	02:48:25
2	Ba 233.527†	1197200.9	1321512.2	10.02 mg/L	10.02 mg/L	02:48:15
2	Be 313.107†	114216.9	127501.0	0.0451 mg/L	0.0451 mg/L	02:48:15
2	Ca 315.887†	44562267.2	49186841.5	440.2 mg/L	440.2 mg/L	02:48:12
2	Cd 228.802†	7587.8	8227.7	0.2197 mg/L	0.2197 mg/L	02:48:25
2	Co 228.616†	25719.3	28565.9	0.4525 mg/L	0.4525 mg/L	02:48:25
2	Cr 267.716†	61081.8	66708.9	0.5083 mg/L	0.5083 mg/L	02:48:15
2	Cu 324.752†	119738.9	128206.5	0.5493 mg/L	0.5493 mg/L	02:48:15
2	Fe 234.349†	199253.7	219930.2	108.2 mg/L	108.2 mg/L	02:47:42
2	K 766.490†	175843.4	193344.1	82.71 mg/L	82.71 mg/L	02:47:42
2	Li 670.784†	29386.3	32708.1	0.7699 mg/L	0.7699 mg/L	02:47:45
2	Mg 279.077†	1320083.7	1456770.0	94.59 mg/L	94.59 mg/L	02:48:15
2	Mn 257.610†	1059063.6	1152899.6	1.216 mg/L	1.216 mg/L	02:48:15
2	Mn 294.920†	534899.9	591042.6	1.261 mg/L	1.261 mg/L	02:48:15
2	Mo 202.031†	12147.2	13418.0	0.4874 mg/L	0.4874 mg/L	02:48:25

2	Na 589.592†	5557422.5	6129843.6	821.4 mg/L	821.4 mg/L	02:47:40
2	Ni 231.604†	23123.1	25345.3	0.4719 mg/L	0.4719 mg/L	02:48:15
2	P 214.914†	11230.6	12441.9	6.563 mg/L	6.563 mg/L	02:48:25
2	Pb 220.353†	10457.4	11359.4	0.6670 mg/L	0.6670 mg/L	02:48:25
2	Sb 206.836†	1141.0	1214.6	0.4558 mg/L	0.4558 mg/L	02:48:25
2	Se 196.026†	1633.4	1786.0	0.9995 mg/L	0.9995 mg/L	02:48:25
2	Sn 189.927†	2533.5	2758.9	0.6126 mg/L	0.6126 mg/L	02:48:25
2	Sr 407.771†	3289271.7	3630326.5	3.073 mg/L	3.073 mg/L	02:47:40
2	Ti 337.279†	443364.9	490667.1	0.5057 mg/L	0.5057 mg/L	02:48:15
2	Tl 190.801†	620.6	692.1	0.4037 mg/L	0.4037 mg/L	02:48:25
2	V 292.402†	117293.4	130365.8	0.5197 mg/L	0.5197 mg/L	02:48:15
2	Zn 213.857†	125711.1	137885.7	0.8386 mg/L	0.8386 mg/L	02:48:15

Mean Data: CF32515-PDS2

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3058286.3	0.905 mg/L		0.0021			0.23%
Ag 328.068†	50738.9	0.2470 mg/L		0.00015	0.2470 mg/L	0.00015	0.06%
Al 237.313†	37302.8	3.429 mg/L		0.0089	3.429 mg/L	0.0089	0.26%
As 188.979†	811.0	0.4979 mg/L		0.00022	0.4979 mg/L	0.00022	0.04%
B 249.677†	3436.3	1.406 mg/L		0.0153	1.406 mg/L	0.0153	1.09%
B 182.528†	1635.9	1.348 mg/L		0.0147	1.348 mg/L	0.0147	1.09%
Ba 233.527†	1321072.4	10.02 mg/L		0.005	10.02 mg/L	0.005	0.05%
Be 313.107†	127320.0	0.0450 mg/L		0.00009	0.0450 mg/L	0.00009	0.20%
Ca 315.887†	49320072.9	441.4 mg/L		1.69	441.4 mg/L	1.69	0.38%
Cd 228.802†	8193.8	0.2188 mg/L		0.00127	0.2188 mg/L	0.00127	0.58%
Co 228.616†	28421.4	0.4502 mg/L		0.00325	0.4502 mg/L	0.00325	0.72%
Cr 267.716†	66719.0	0.5084 mg/L		0.00011	0.5084 mg/L	0.00011	0.02%
Cu 324.752†	128200.1	0.5492 mg/L		0.00004	0.5492 mg/L	0.00004	0.01%
Fe 234.349†	218712.1	107.6 mg/L		0.86	107.6 mg/L	0.86	0.80%
K 766.490†	192352.0	82.28 mg/L		0.599	82.28 mg/L	0.599	0.73%
Li 670.784†	32972.4	0.7762 mg/L		0.00878	0.7762 mg/L	0.00878	1.13%
Mg 279.077†	1456934.5	94.60 mg/L		0.015	94.60 mg/L	0.015	0.02%
Mn 257.610†	1152916.1	1.216 mg/L		0.0002	1.216 mg/L	0.0002	0.02%
Mn 294.920†	591003.2	1.260 mg/L		0.0001	1.260 mg/L	0.0001	0.01%
Mo 202.031†	13354.2	0.4851 mg/L		0.00326	0.4851 mg/L	0.00326	0.67%
Na 589.592†	6165724.5	826.2 mg/L		6.80	826.2 mg/L	6.80	0.82%
Ni 231.604†	25360.6	0.4721 mg/L		0.00040	0.4721 mg/L	0.00040	0.08%
P 214.914†	12365.5	6.523 mg/L		0.0566	6.523 mg/L	0.0566	0.87%
Pb 220.353†	11267.8	0.6616 mg/L		0.00759	0.6616 mg/L	0.00759	1.15%
Sb 206.836†	1213.0	0.4553 mg/L		0.00063	0.4553 mg/L	0.00063	0.14%
Se 196.026†	1773.3	0.9924 mg/L		0.01000	0.9924 mg/L	0.01000	1.01%
Sn 189.927†	2725.0	0.6092 mg/L		0.00486	0.6092 mg/L	0.00486	0.80%
Sr 407.771†	3650815.2	3.091 mg/L		0.0245	3.091 mg/L	0.0245	0.79%
Ti 337.279†	487565.3	0.5026 mg/L		0.00450	0.5026 mg/L	0.00450	0.89%
Tl 190.801†	683.3	0.3972 mg/L		0.00925	0.3972 mg/L	0.00925	2.33%
V 292.402†	130241.1	0.5192 mg/L		0.00073	0.5192 mg/L	0.00073	0.14%
Zn 213.857†	137753.0	0.8378 mg/L		0.00112	0.8378 mg/L	0.00112	0.13%

Sequence No.: 165

Sample ID: CF32509-BLK1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 120

Date Collected: 6/26/2013 2:51:32 AM

Data Type: Reprocessed on 6/26/2013 10:57:58 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32509-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Y 371.029	3438345.7	3438345.7	1.02 mg/L			02:53:35
1	Ag 328.068†	830.2	79.6	0.0010 mg/L		0.0010 mg/L	02:53:38
1	Al 237.313†	-329.7	63.2	0.0129 mg/L		0.0129 mg/L	02:53:38
1	As 188.979†	-3.6	-4.6	-0.0002 mg/L		-0.0002 mg/L	02:53:48
1	B 249.677†	23.9	38.7	0.0183 mg/L		0.0183 mg/L	02:53:19
1	B 182.528†	8.2	15.0	0.0162 mg/L		0.0162 mg/L	02:53:48
1	Ba 233.527†	785.2	859.9	0.0071 mg/L		0.0071 mg/L	02:53:48
1	Be 313.107†	-1204.1	248.7	0.0003 mg/L		0.0003 mg/L	02:53:38
1	Ca 315.887†	41370.9	41400.9	0.3788 mg/L		0.3788 mg/L	02:53:38
1	Cd 228.802†	142.5	-7.4	0.0013 mg/L		0.0013 mg/L	02:53:48
1	Co 228.616†	-181.7	-0.7	-0.0021 mg/L		-0.0021 mg/L	02:53:48

1	Cr 267.716†	681.3	-40.9	0.0002	mg/L	0.0002	mg/L	02:53:38
1	Cu 324.752†	3717.9	-300.6	0.0000	mg/L	0.0000	mg/L	02:53:38
1	Fe 234.349†	334.1	330.2	0.1735	mg/L	0.1735	mg/L	02:53:19
1	K 766.490†	1634.8	862.5	0.5118	mg/L	0.5118	mg/L	02:53:09
1	Li 670.784†	-247.4	29.3	0.0026	mg/L	0.0026	mg/L	02:53:09
1	Mg 279.077†	1473.3	1160.9	0.0734	mg/L	0.0734	mg/L	02:53:38
1	Mn 257.610†	18378.4	2018.6	0.0021	mg/L	0.0021	mg/L	02:53:38
1	Mn 294.920†	889.1	1514.9	0.0031	mg/L	0.0031	mg/L	02:53:38
1	Mo 202.031†	17.3	27.5	0.0038	mg/L	0.0038	mg/L	02:53:48
1	Na 589.592†	37562.2	32711.1	4.470	mg/L	4.470	mg/L	02:53:09
1	Ni 231.604†	126.3	-53.0	-0.0015	mg/L	-0.0015	mg/L	02:53:38
1	P 214.914†	53.2	98.4	0.1001	mg/L	0.1001	mg/L	02:53:48
1	Pb 220.353†	188.5	2.2	0.0021	mg/L	0.0021	mg/L	02:53:48
1	Sb 206.836†	47.5	1.9	0.0051	mg/L	0.0051	mg/L	02:53:48
1	Se 196.026†	31.5	14.1	0.0123	mg/L	0.0123	mg/L	02:53:48
1	Sn 189.927†	153.1	113.0	0.0157	mg/L	0.0157	mg/L	02:53:48
1	Sr 407.771†	3104.3	2807.1	0.0027	mg/L	0.0027	mg/L	02:53:09
1	Ti 337.279†	-818.5	493.0	0.0033	mg/L	0.0033	mg/L	02:53:38
1	Tl 190.801†	-5.6	1.7	0.0008	mg/L	0.0008	mg/L	02:53:48
1	V 292.402†	-831.3	84.3	0.0027	mg/L	0.0027	mg/L	02:53:38
1	Zn 213.857†	1480.6	586.5	0.0041	mg/L	0.0041	mg/L	02:53:48
2	Y 371.029	3501881.0	3501881.0	1.04	mg/L			02:53:50
2	Ag 328.068†	763.2	0.1	0.0007	mg/L	0.0007	mg/L	02:53:52
2	Al 237.313†	-360.5	39.3	0.0107	mg/L	0.0107	mg/L	02:53:52
2	As 188.979†	0.1	-1.0	0.0020	mg/L	0.0020	mg/L	02:54:03
2	B 249.677†	16.8	31.4	0.0153	mg/L	0.0153	mg/L	02:53:32
2	B 182.528†	11.3	17.9	0.0186	mg/L	0.0186	mg/L	02:54:03
2	Ba 233.527†	733.4	795.9	0.0066	mg/L	0.0066	mg/L	02:54:03
2	Be 313.107†	-1193.9	280.0	0.0003	mg/L	0.0003	mg/L	02:53:52
2	Ca 315.887†	38653.9	38039.4	0.3487	mg/L	0.3487	mg/L	02:53:52
2	Cd 228.802†	155.4	2.6	0.0016	mg/L	0.0016	mg/L	02:54:03
2	Co 228.616†	-184.5	-0.2	-0.0021	mg/L	-0.0021	mg/L	02:54:03
2	Cr 267.716†	697.2	-37.7	0.0002	mg/L	0.0002	mg/L	02:53:52
2	Cu 324.752†	3624.0	-457.6	-0.0006	mg/L	-0.0006	mg/L	02:53:52
2	Fe 234.349†	314.9	305.7	0.1614	mg/L	0.1614	mg/L	02:53:32
2	K 766.490†	1610.8	810.2	0.4894	mg/L	0.4894	mg/L	02:53:22
2	Li 670.784†	-212.0	67.9	0.0035	mg/L	0.0035	mg/L	02:53:22
2	Mg 279.077†	1344.7	1010.5	0.0636	mg/L	0.0636	mg/L	02:53:52
2	Mn 257.610†	18342.2	1655.7	0.0017	mg/L	0.0017	mg/L	02:53:52
2	Mn 294.920†	807.8	1420.5	0.0029	mg/L	0.0029	mg/L	02:53:52
2	Mo 202.031†	6.1	16.3	0.0034	mg/L	0.0034	mg/L	02:54:03
2	Na 589.592†	37996.6	32460.4	4.437	mg/L	4.437	mg/L	02:53:22
2	Ni 231.604†	126.1	-55.4	-0.0016	mg/L	-0.0016	mg/L	02:53:52
2	P 214.914†	38.7	83.4	0.0923	mg/L	0.0923	mg/L	02:54:03
2	Pb 220.353†	219.8	29.1	0.0036	mg/L	0.0036	mg/L	02:54:03
2	Sb 206.836†	38.5	-7.6	0.0012	mg/L	0.0012	mg/L	02:54:03
2	Se 196.026†	15.4	-2.0	0.0034	mg/L	0.0034	mg/L	02:54:03
2	Sn 189.927†	144.8	102.3	0.0144	mg/L	0.0144	mg/L	02:54:03
2	Sr 407.771†	2887.9	2542.7	0.0025	mg/L	0.0025	mg/L	02:53:22
2	Ti 337.279†	-601.4	717.2	0.0035	mg/L	0.0035	mg/L	02:53:52
2	Tl 190.801†	-8.0	-0.6	-0.0009	mg/L	-0.0009	mg/L	02:54:03
2	V 292.402†	-862.1	69.4	0.0026	mg/L	0.0026	mg/L	02:53:52
2	Zn 213.857†	1510.2	588.7	0.0041	mg/L	0.0041	mg/L	02:54:03

Mean Data: CF32509-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3470113.3	1.03	mg/L	0.013				1.29%
Ag 328.068†	39.9	0.0008	mg/L	0.00027	0.0008	mg/L	0.00027	31.92%
Al 237.313†	51.3	0.0118	mg/L	0.00155	0.0118	mg/L	0.00155	13.13%
As 188.979†	-2.8	0.0009	mg/L	0.00158	0.0009	mg/L	0.00158	170.09%
B 249.677†	35.1	0.0168	mg/L	0.00211	0.0168	mg/L	0.00211	12.54%
B 182.528†	16.4	0.0174	mg/L	0.00168	0.0174	mg/L	0.00168	9.65%
Ba 233.527†	827.9	0.0069	mg/L	0.00034	0.0069	mg/L	0.00034	4.99%
Be 313.107†	264.4	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.53%
Ca 315.887†	39720.1	0.3638	mg/L	0.02127	0.3638	mg/L	0.02127	5.85%
Cd 228.802†	-2.4	0.0014	mg/L	0.00019	0.0014	mg/L	0.00019	13.18%
Co 228.616†	-0.5	-0.0021	mg/L	0.00001	-0.0021	mg/L	0.00001	0.27%
Cr 267.716†	-39.3	0.0002	mg/L	0.00002	0.0002	mg/L	0.00002	8.10%
Cu 324.752†	-379.1	-0.0003	mg/L	0.00047	-0.0003	mg/L	0.00047	156.45%
Fe 234.349†	318.0	0.1675	mg/L	0.00855	0.1675	mg/L	0.00855	5.11%
K 766.490†	836.3	0.5006	mg/L	0.01582	0.5006	mg/L	0.01582	3.16%

Li 670.784†	48.6	0.0030 mg/L	0.00064	0.0030 mg/L	0.00064	21.12%
Mg 279.077†	1085.7	0.0685 mg/L	0.00691	0.0685 mg/L	0.00691	10.08%
Mn 257.610†	1837.1	0.0019 mg/L	0.00027	0.0019 mg/L	0.00027	14.62%
Mn 294.920†	1467.7	0.0030 mg/L	0.00014	0.0030 mg/L	0.00014	4.81%
Mo 202.031†	21.9	0.0036 mg/L	0.00029	0.0036 mg/L	0.00029	8.17%
Na 589.592†	32585.7	4.453 mg/L	0.0238	4.453 mg/L	0.0238	0.53%
Ni 231.604†	-54.2	-0.0015 mg/L	0.00003	-0.0015 mg/L	0.00003	2.15%
P 214.914†	90.9	0.0962 mg/L	0.00554	0.0962 mg/L	0.00554	5.75%
Pb 220.353†	15.7	0.0028 mg/L	0.00111	0.0028 mg/L	0.00111	39.08%
Sb 206.836†	-2.9	0.0031 mg/L	0.00275	0.0031 mg/L	0.00275	87.35%
Se 196.026†	6.1	0.0078 mg/L	0.00630	0.0078 mg/L	0.00630	80.64%
Sn 189.927†	107.7	0.0150 mg/L	0.00094	0.0150 mg/L	0.00094	6.27%
Sr 407.771†	2674.9	0.0026 mg/L	0.00016	0.0026 mg/L	0.00016	6.17%
Ti 337.279†	605.1	0.0034 mg/L	0.00016	0.0034 mg/L	0.00016	4.77%
Tl 190.801†	0.5	-0.0001 mg/L	0.00120	-0.0001 mg/L	0.00120	>999.9%
V 292.402†	76.9	0.0026 mg/L	0.00005	0.0026 mg/L	0.00005	1.72%
Zn 213.857†	587.6	0.0041 mg/L	0.00001	0.0041 mg/L	0.00001	0.26%

Sequence No.: 166
Sample ID: CF32509-BS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 121
Date Collected: 6/26/2013 2:55:39 AM
Data Type: Reprocessed on 6/26/2013 10:57:58 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32509-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3455517.6	3455517.6	1.02 mg/L		02:57:32
1	Ag 328.068†	81571.1	79079.2	0.3818 mg/L	0.3818 mg/L	02:57:34
1	Al 237.313†	455715.6	446297.6	40.93 mg/L	40.93 mg/L	02:57:34
1	As 188.979†	1383.0	1352.2	0.8287 mg/L	0.8287 mg/L	02:57:44
1	B 249.677†	1190.9	1180.5	0.4852 mg/L	0.4852 mg/L	02:57:22
1	B 182.528†	547.8	543.0	0.4500 mg/L	0.4500 mg/L	02:57:44
1	Ba 233.527†	278691.2	272782.5	2.069 mg/L	2.069 mg/L	02:57:34
1	Be 313.107†	2034706.2	1992359.0	0.7019 mg/L	0.7019 mg/L	02:57:32
1	Ca 315.887†	5758354.9	5635172.7	50.45 mg/L	50.45 mg/L	02:57:32
1	Cd 228.802†	26495.6	25778.0	0.6901 mg/L	0.6901 mg/L	02:57:34
1	Co 228.616†	36894.1	36278.2	0.5743 mg/L	0.5743 mg/L	02:57:44
1	Cr 267.716†	137220.2	133556.9	1.017 mg/L	1.017 mg/L	02:57:34
1	Cu 324.752†	224276.2	215493.8	0.9227 mg/L	0.9227 mg/L	02:57:34
1	Fe 234.349†	111232.5	108840.8	53.81 mg/L	53.81 mg/L	02:57:20
1	K 766.490†	30582.2	29179.1	12.60 mg/L	12.60 mg/L	02:57:22
1	Li 670.784†	1472.8	1713.7	0.0421 mg/L	0.0421 mg/L	02:57:22
1	Mg 279.077†	311713.3	304718.5	19.79 mg/L	19.79 mg/L	02:57:34
1	Mn 257.610†	2056316.9	1996017.7	2.135 mg/L	2.135 mg/L	02:57:32
1	Mn 294.920†	1018227.6	996959.4	2.126 mg/L	2.126 mg/L	02:57:32
1	Mo 202.031†	16959.4	16604.9	0.6133 mg/L	0.6133 mg/L	02:57:44
1	Na 589.592†	43233.6	38076.9	5.189 mg/L	5.189 mg/L	02:57:20
1	Ni 231.604†	41209.4	40145.5	0.7474 mg/L	0.7474 mg/L	02:57:34
1	P 214.914†	4813.6	4756.0	2.529 mg/L	2.529 mg/L	02:57:44
1	Pb 220.353†	10093.3	9693.0	0.5605 mg/L	0.5605 mg/L	02:57:44
1	Sb 206.836†	599.3	541.6	0.2006 mg/L	0.2006 mg/L	02:57:44
1	Se 196.026†	1455.2	1407.0	0.7864 mg/L	0.7864 mg/L	02:57:44
1	Sn 189.927†	6672.0	6491.0	0.8299 mg/L	0.8299 mg/L	02:57:44
1	Sr 407.771†	648053.4	633863.9	0.5369 mg/L	0.5369 mg/L	02:57:20
1	Ti 337.279†	1061599.7	1040055.6	1.069 mg/L	1.069 mg/L	02:57:32
1	Tl 190.801†	1284.6	1264.1	0.9186 mg/L	0.9186 mg/L	02:57:44
1	V 292.402†	172064.1	169263.7	0.6739 mg/L	0.6739 mg/L	02:57:34
1	Zn 213.857†	308686.8	301175.5	1.842 mg/L	1.842 mg/L	02:57:34
2	Y 371.029	3473221.1	3473221.1	1.03 mg/L		02:57:48
2	Ag 328.068†	81130.2	78243.2	0.3777 mg/L	0.3777 mg/L	02:57:50
2	Al 237.313†	453325.3	441697.8	40.50 mg/L	40.50 mg/L	02:57:50
2	As 188.979†	1380.9	1343.3	0.8233 mg/L	0.8233 mg/L	02:58:01
2	B 249.677†	1183.6	1167.4	0.4799 mg/L	0.4799 mg/L	02:57:26
2	B 182.528†	555.8	548.1	0.4542 mg/L	0.4542 mg/L	02:58:01
2	Ba 233.527†	277209.5	269950.1	2.047 mg/L	2.047 mg/L	02:57:50
2	Be 313.107†	2043519.4	1990790.6	0.7014 mg/L	0.7014 mg/L	02:57:48
2	Ca 315.887†	5787623.6	5634946.0	50.44 mg/L	50.44 mg/L	02:57:48
2	Cd 228.802†	26230.4	25387.7	0.6796 mg/L	0.6796 mg/L	02:57:50
2	Co 228.616†	36904.0	36103.8	0.5715 mg/L	0.5715 mg/L	02:58:01

2	Cr 267.716†	136552.1	132222.1	1.007 mg/L	1.007 mg/L	02:57:50
2	Cu 324.752†	222938.0	213072.6	0.9124 mg/L	0.9124 mg/L	02:57:50
2	Fe 234.349†	109758.2	106850.8	52.82 mg/L	52.82 mg/L	02:57:24
2	K 766.490†	30627.8	29071.0	12.56 mg/L	12.56 mg/L	02:57:26
2	Li 670.784†	1389.8	1625.5	0.0401 mg/L	0.0401 mg/L	02:57:26
2	Mg 279.077†	309925.8	301423.6	19.57 mg/L	19.57 mg/L	02:57:50
2	Mn 257.610†	2065703.0	1994899.3	2.134 mg/L	2.134 mg/L	02:57:48
2	Mn 294.920†	1022674.3	996209.8	2.125 mg/L	2.125 mg/L	02:57:48
2	Mo 202.031†	16973.5	16534.1	0.6109 mg/L	0.6109 mg/L	02:58:01
2	Na 589.592†	42927.7	37563.5	5.120 mg/L	5.120 mg/L	02:57:24
2	Ni 231.604†	40886.5	39625.7	0.7378 mg/L	0.7378 mg/L	02:57:50
2	P 214.914†	4827.1	4745.2	2.524 mg/L	2.524 mg/L	02:58:01
2	Pb 220.353†	10090.0	9639.4	0.5575 mg/L	0.5575 mg/L	02:58:01
2	Sb 206.836†	589.0	528.6	0.1957 mg/L	0.1957 mg/L	02:58:01
2	Se 196.026†	1467.4	1411.6	0.7890 mg/L	0.7890 mg/L	02:58:01
2	Sn 189.927†	6659.9	6445.9	0.8244 mg/L	0.8244 mg/L	02:58:01
2	Sr 407.771†	640737.4	623509.6	0.5281 mg/L	0.5281 mg/L	02:57:24
2	Ti 337.279†	1066599.3	1039628.0	1.068 mg/L	1.068 mg/L	02:57:48
2	Tl 190.801†	1290.7	1263.6	0.9188 mg/L	0.9188 mg/L	02:58:01
2	V 292.402†	171402.9	167761.9	0.6679 mg/L	0.6679 mg/L	02:57:50
2	Zn 213.857†	307131.1	298121.5	1.823 mg/L	1.823 mg/L	02:57:50

Mean Data: CF32509-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3464369.4	1.02	mg/L	0.004				0.36%
Ag 328.068†	78661.2	0.3797	mg/L	0.00286	0.3797	mg/L	0.00286	0.75%
Al 237.313†	443997.7	40.71	mg/L	0.298	40.71	mg/L	0.298	0.73%
As 188.979†	1347.7	0.8260	mg/L	0.00383	0.8260	mg/L	0.00383	0.46%
B 249.677†	1173.9	0.4826	mg/L	0.00377	0.4826	mg/L	0.00377	0.78%
B 182.528†	545.5	0.4521	mg/L	0.00294	0.4521	mg/L	0.00294	0.65%
Ba 233.527†	271366.3	2.058	mg/L	0.0152	2.058	mg/L	0.0152	0.74%
Be 313.107†	1991574.8	0.7017	mg/L	0.00039	0.7017	mg/L	0.00039	0.06%
Ca 315.887†	5635059.4	50.44	mg/L	0.001	50.44	mg/L	0.001	0.00%
Cd 228.802†	25582.9	0.6848	mg/L	0.00737	0.6848	mg/L	0.00737	1.08%
Co 228.616†	36191.0	0.5729	mg/L	0.00197	0.5729	mg/L	0.00197	0.34%
Cr 267.716†	132889.5	1.012	mg/L	0.0072	1.012	mg/L	0.0072	0.71%
Cu 324.752†	214283.2	0.9176	mg/L	0.00731	0.9176	mg/L	0.00731	0.80%
Fe 234.349†	107845.8	53.32	mg/L	0.697	53.32	mg/L	0.697	1.31%
K 766.490†	29125.0	12.58	mg/L	0.033	12.58	mg/L	0.033	0.26%
Li 670.784†	1669.6	0.0411	mg/L	0.00146	0.0411	mg/L	0.00146	3.56%
Mg 279.077†	303071.0	19.68	mg/L	0.151	19.68	mg/L	0.151	0.77%
Mn 257.610†	1995458.5	2.134	mg/L	0.0007	2.134	mg/L	0.0007	0.03%
Mn 294.920†	996584.6	2.126	mg/L	0.0011	2.126	mg/L	0.0011	0.05%
Mo 202.031†	16569.5	0.6121	mg/L	0.00174	0.6121	mg/L	0.00174	0.28%
Na 589.592†	37820.2	5.155	mg/L	0.0486	5.155	mg/L	0.0486	0.94%
Ni 231.604†	39885.6	0.7426	mg/L	0.00684	0.7426	mg/L	0.00684	0.92%
P 214.914†	4750.6	2.526	mg/L	0.0039	2.526	mg/L	0.0039	0.16%
Pb 220.353†	9666.2	0.5590	mg/L	0.00215	0.5590	mg/L	0.00215	0.38%
Sb 206.836†	535.1	0.1982	mg/L	0.00343	0.1982	mg/L	0.00343	1.73%
Se 196.026†	1409.3	0.7877	mg/L	0.00178	0.7877	mg/L	0.00178	0.23%
Sn 189.927†	6468.4	0.8271	mg/L	0.00392	0.8271	mg/L	0.00392	0.47%
Sr 407.771†	628686.7	0.5325	mg/L	0.00620	0.5325	mg/L	0.00620	1.16%
Ti 337.279†	1039841.8	1.069	mg/L	0.0003	1.069	mg/L	0.0003	0.03%
Tl 190.801†	1263.9	0.9187	mg/L	0.00008	0.9187	mg/L	0.00008	0.01%
V 292.402†	168512.8	0.6709	mg/L	0.00420	0.6709	mg/L	0.00420	0.63%
Zn 213.857†	299648.5	1.832	mg/L	0.0132	1.832	mg/L	0.0132	0.72%

Sequence No.: 167

Sample ID: CF32509-BSD1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 122

Date Collected: 6/26/2013 2:59:37 AM

Data Type: Reprocessed on 6/26/2013 10:57:59 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32509-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3161513.0	3161513.0	0.935	mg/L			03:01:28
1	Ag 328.068†	82388.7	87376.1	0.4218	mg/L	0.4218	mg/L	03:01:30

1	Al 237.313†	439476.9	470398.0	43.13 mg/L	43.13 mg/L	03:01:30
1	As 188.979†	1366.0	1459.8	0.8945 mg/L	0.8945 mg/L	03:01:40
1	B 249.677†	1165.6	1261.8	0.5185 mg/L	0.5185 mg/L	03:01:18
1	B 182.528†	533.8	577.9	0.4787 mg/L	0.4787 mg/L	03:01:40
1	Ba 233.527†	268329.0	287059.5	2.177 mg/L	2.177 mg/L	03:01:30
1	Be 313.107†	2046479.3	2190096.1	0.7715 mg/L	0.7715 mg/L	03:01:28
1	Ca 315.887†	5546989.7	5933098.0	53.11 mg/L	53.11 mg/L	03:01:28
1	Cd 228.802†	25785.5	27429.6	0.7341 mg/L	0.7341 mg/L	03:01:30
1	Co 228.616†	35429.4	38068.9	0.6015 mg/L	0.6015 mg/L	03:01:40
1	Cr 267.716†	133929.1	142523.3	1.085 mg/L	1.085 mg/L	03:01:30
1	Cu 324.752†	218090.2	229285.9	0.9823 mg/L	0.9823 mg/L	03:01:30
1	Fe 234.349†	115695.4	123735.3	61.18 mg/L	61.18 mg/L	03:01:15
1	K 766.490†	30250.0	31606.6	13.64 mg/L	13.64 mg/L	03:01:18
1	Li 670.784†	1530.7	1909.6	0.0467 mg/L	0.0467 mg/L	03:01:18
1	Mg 279.077†	308112.5	329231.5	21.38 mg/L	21.38 mg/L	03:01:30
1	Mn 257.610†	1943430.9	2062401.2	2.205 mg/L	2.205 mg/L	03:01:28
1	Mn 294.920†	962532.4	1030047.2	2.197 mg/L	2.197 mg/L	03:01:28
1	Mo 202.031†	16002.9	17125.1	0.6314 mg/L	0.6314 mg/L	03:01:40
1	Na 589.592†	40078.0	38636.0	5.264 mg/L	5.264 mg/L	03:01:15
1	Ni 231.604†	39568.9	42140.8	0.7846 mg/L	0.7846 mg/L	03:01:30
1	P 214.914†	4963.6	5354.5	2.842 mg/L	2.842 mg/L	03:01:40
1	Pb 220.353†	9823.5	10322.9	0.5968 mg/L	0.5968 mg/L	03:01:40
1	Sb 206.836†	619.0	617.2	0.2280 mg/L	0.2280 mg/L	03:01:40
1	Se 196.026†	1441.9	1525.2	0.8523 mg/L	0.8523 mg/L	03:01:40
1	Sn 189.927†	6451.6	6862.4	0.8772 mg/L	0.8772 mg/L	03:01:40
1	Sr 407.771†	619990.7	662820.5	0.5614 mg/L	0.5614 mg/L	03:01:15
1	Ti 337.279†	1507773.8	1613827.9	1.657 mg/L	1.657 mg/L	03:01:28
1	Tl 190.801†	1269.0	1364.2	0.9903 mg/L	0.9903 mg/L	03:01:40
1	V 292.402†	168448.3	181053.5	0.7193 mg/L	0.7193 mg/L	03:01:30
1	Zn 213.857†	298720.8	318605.7	1.948 mg/L	1.948 mg/L	03:01:30
2	Y 371.029	3451790.2	3451790.2	1.02 mg/L		03:01:44
2	Ag 328.068†	81900.3	79487.8	0.3838 mg/L	0.3838 mg/L	03:01:46
2	Al 237.313†	434872.5	426362.5	39.10 mg/L	39.10 mg/L	03:01:46
2	As 188.979†	1351.2	1322.5	0.8106 mg/L	0.8106 mg/L	03:01:56
2	B 249.677†	1164.3	1155.7	0.4751 mg/L	0.4751 mg/L	03:01:22
2	B 182.528†	527.8	524.0	0.4344 mg/L	0.4344 mg/L	03:01:56
2	Ba 233.527†	266429.1	261065.7	1.980 mg/L	1.980 mg/L	03:01:46
2	Be 313.107†	2015294.0	1975493.9	0.6959 mg/L	0.6959 mg/L	03:01:44
2	Ca 315.887†	5460021.4	5349027.5	47.88 mg/L	47.88 mg/L	03:01:44
2	Cd 228.802†	25594.8	24923.6	0.6672 mg/L	0.6672 mg/L	03:01:46
2	Co 228.616†	35511.2	34962.6	0.5524 mg/L	0.5524 mg/L	03:01:56
2	Cr 267.716†	132778.9	129351.5	0.9849 mg/L	0.9849 mg/L	03:01:46
2	Cu 324.752†	216675.4	208285.5	0.8925 mg/L	0.8925 mg/L	03:01:46
2	Fe 234.349†	114148.1	111814.3	55.29 mg/L	55.29 mg/L	03:01:20
2	K 766.490†	30038.5	28678.8	12.39 mg/L	12.39 mg/L	03:01:22
2	Li 670.784†	1512.6	1754.2	0.0431 mg/L	0.0431 mg/L	03:01:22
2	Mg 279.077†	305585.7	299045.6	19.42 mg/L	19.42 mg/L	03:01:46
2	Mn 257.610†	1914047.0	1858831.5	1.987 mg/L	1.987 mg/L	03:01:44
2	Mn 294.920†	947532.2	928786.3	1.981 mg/L	1.981 mg/L	03:01:44
2	Mo 202.031†	16016.0	15698.8	0.5792 mg/L	0.5792 mg/L	03:01:56
2	Na 589.592†	40002.6	34957.7	4.771 mg/L	4.771 mg/L	03:01:20
2	Ni 231.604†	39177.4	38198.6	0.7112 mg/L	0.7112 mg/L	03:01:46
2	P 214.914†	4939.5	4884.4	2.597 mg/L	2.597 mg/L	03:01:56
2	Pb 220.353†	9836.6	9452.2	0.5468 mg/L	0.5468 mg/L	03:01:56
2	Sb 206.836†	615.2	557.8	0.2065 mg/L	0.2065 mg/L	03:01:56
2	Se 196.026†	1450.6	1404.0	0.7849 mg/L	0.7849 mg/L	03:01:56
2	Sn 189.927†	6425.0	6256.0	0.7995 mg/L	0.7995 mg/L	03:01:56
2	Sr 407.771†	612204.7	599433.4	0.5077 mg/L	0.5077 mg/L	03:01:20
2	Ti 337.279†	1482658.1	1453620.8	1.493 mg/L	1.493 mg/L	03:01:44
2	Tl 190.801†	1276.9	1257.9	0.9138 mg/L	0.9138 mg/L	03:01:56
2	V 292.402†	167343.0	164821.0	0.6551 mg/L	0.6551 mg/L	03:01:46
2	Zn 213.857†	295907.5	288983.8	1.767 mg/L	1.767 mg/L	03:01:46

Mean Data: CF32509-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3306651.6	0.978	mg/L	0.0607			6.21%
Ag 328.068†	83431.9	0.4028	mg/L	0.02689	0.4028 mg/L	0.02689	6.68%
Al 237.313†	448380.2	41.12	mg/L	2.855	41.12 mg/L	2.855	6.94%
As 188.979†	1391.2	0.8526	mg/L	0.05932	0.8526 mg/L	0.05932	6.96%
B 249.677†	1208.8	0.4968	mg/L	0.03068	0.4968 mg/L	0.03068	6.18%
B 182.528†	550.9	0.4565	mg/L	0.03132	0.4565 mg/L	0.03132	6.86%

Ba 233.527†	274062.6	2.078 mg/L	0.1393	2.078 mg/L	0.1393	6.70%
Be 313.107†	2082795.0	0.7337 mg/L	0.05344	0.7337 mg/L	0.05344	7.28%
Ca 315.887†	5641062.8	50.50 mg/L	3.697	50.50 mg/L	3.697	7.32%
Cd 228.802†	26176.6	0.7006 mg/L	0.04732	0.7006 mg/L	0.04732	6.75%
Co 228.616†	36515.7	0.5769 mg/L	0.03478	0.5769 mg/L	0.03478	6.03%
Cr 267.716†	135937.4	1.035 mg/L	0.0709	1.035 mg/L	0.0709	6.85%
Cu 324.752†	218785.7	0.9374 mg/L	0.06355	0.9374 mg/L	0.06355	6.78%
Fe 234.349†	117774.8	58.23 mg/L	4.167	58.23 mg/L	4.167	7.16%
K 766.490†	30142.7	13.02 mg/L	0.884	13.02 mg/L	0.884	6.79%
Li 670.784†	1831.9	0.0449 mg/L	0.00258	0.0449 mg/L	0.00258	5.75%
Mg 279.077†	314138.5	20.40 mg/L	1.386	20.40 mg/L	1.386	6.80%
Mn 257.610†	1960616.3	2.096 mg/L	0.1539	2.096 mg/L	0.1539	7.34%
Mn 294.920†	979416.7	2.089 mg/L	0.1527	2.089 mg/L	0.1527	7.31%
Mo 202.031†	16412.0	0.6053 mg/L	0.03691	0.6053 mg/L	0.03691	6.10%
Na 589.592†	36796.8	5.018 mg/L	0.3485	5.018 mg/L	0.3485	6.95%
Ni 231.604†	40169.7	0.7479 mg/L	0.05193	0.7479 mg/L	0.05193	6.94%
P 214.914†	5119.5	2.720 mg/L	0.1734	2.720 mg/L	0.1734	6.38%
Pb 220.353†	9887.5	0.5718 mg/L	0.03541	0.5718 mg/L	0.03541	6.19%
Sb 206.836†	587.5	0.2173 mg/L	0.01519	0.2173 mg/L	0.01519	6.99%
Se 196.026†	1464.6	0.8186 mg/L	0.04769	0.8186 mg/L	0.04769	5.83%
Sn 189.927†	6559.2	0.8383 mg/L	0.05494	0.8383 mg/L	0.05494	6.55%
Sr 407.771†	631126.9	0.5345 mg/L	0.03794	0.5345 mg/L	0.03794	7.10%
Ti 337.279†	1533724.4	1.575 mg/L	0.1161	1.575 mg/L	0.1161	7.37%
Tl 190.801†	1311.1	0.9520 mg/L	0.05410	0.9520 mg/L	0.05410	5.68%
V 292.402†	172937.3	0.6872 mg/L	0.04539	0.6872 mg/L	0.04539	6.61%
Zn 213.857†	303794.7	1.858 mg/L	0.1280	1.858 mg/L	0.1280	6.89%

Sequence No.: 168
Sample ID: 1306374-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 123
Date Collected: 6/26/2013 3:03:33 AM
Data Type: Reprocessed on 6/26/2013 10:58:00 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306374-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Analysis Units	Time
1	Y 371.029	3493395.5	3493395.5	1.03	mg/L			03:05:24
1	Ag 328.068†	202.2	-541.1	0.0005	mg/L	0.0005	mg/L	03:05:26
1	Al 237.313†	635800.7	615762.5	56.46	mg/L	56.46	mg/L	03:05:24
1	As 188.979†	30.7	28.6	0.0197	mg/L	0.0197	mg/L	03:05:36
1	B 249.677†	71.9	84.8	0.0371	mg/L	0.0371	mg/L	03:05:14
1	B 182.528†	70.8	75.4	0.0659	mg/L	0.0659	mg/L	03:05:36
1	Ba 233.527†	22722.3	22080.0	0.1680	mg/L	0.1680	mg/L	03:05:26
1	Be 313.107†	9217.9	10354.5	0.0032	mg/L	0.0032	mg/L	03:05:26
1	Ca 315.887†	1586152.6	1535913.8	13.76	mg/L	13.76	mg/L	03:05:24
1	Cd 228.802†	188.3	34.8	0.0008	mg/L	0.0008	mg/L	03:05:36
1	Co 228.616†	2838.4	2925.2	0.0387	mg/L	0.0387	mg/L	03:05:36
1	Cr 267.716†	13415.1	12273.3	0.0939	mg/L	0.0939	mg/L	03:05:26
1	Cu 324.752†	61357.7	55429.8	0.2413	mg/L	0.2413	mg/L	03:05:26
1	Fe 234.349†	196651.3	190335.4	94.23	mg/L	94.23	mg/L	03:05:12
1	K 766.490†	18816.2	17466.6	7.602	mg/L	7.602	mg/L	03:05:14
1	Li 670.784†	3112.6	3285.2	0.0790	mg/L	0.0790	mg/L	03:05:14
1	Mg 279.077†	363934.3	351954.7	22.86	mg/L	22.86	mg/L	03:05:24
1	Mn 257.610†	2435423.7	2341129.1	2.497	mg/L	2.497	mg/L	03:05:24
1	Mn 294.920†	1218259.5	1179762.3	2.516	mg/L	2.516	mg/L	03:05:24
1	Mo 202.031†	172.0	176.9	-0.0060	mg/L	-0.0060	mg/L	03:05:26
1	Na 589.592†	29110.6	23948.9	3.296	mg/L	3.296	mg/L	03:05:12
1	Ni 231.604†	3750.5	3452.8	0.0637	mg/L	0.0637	mg/L	03:05:26
1	P 214.914†	8126.3	7911.3	4.195	mg/L	4.195	mg/L	03:05:26
1	Pb 220.353†	1350.8	1124.3	0.0536	mg/L	0.0536	mg/L	03:05:36
1	Sb 206.836†	69.5	22.5	-0.0272	mg/L	-0.0272	mg/L	03:05:36
1	Se 196.026†	-0.8	-17.7	0.0002	mg/L	0.0002	mg/L	03:05:36
1	Sn 189.927†	-99.5	-133.7	-0.0063	mg/L	-0.0063	mg/L	03:05:36
1	Sr 407.771†	50607.1	48735.7	0.0416	mg/L	0.0416	mg/L	03:05:12
1	Ti 337.279†	2743367.5	2656532.0	2.726	mg/L	2.726	mg/L	03:05:24
1	Tl 190.801†	-4.0	3.2	-0.0430	mg/L	-0.0430	mg/L	03:05:36
1	V 292.402†	75568.8	74043.0	0.2867	mg/L	0.2867	mg/L	03:05:26
1	Zn 213.857†	31671.0	29784.2	0.1785	mg/L	0.1785	mg/L	03:05:26
2	Y 371.029	3528304.6	3528304.6	1.04	mg/L			03:05:39
2	Ag 328.068†	72.7	-667.1	-0.0002	mg/L	-0.0002	mg/L	03:05:41

2	Al 237.313†	640709.1	614377.6	56.33	mg/L	56.33	mg/L	03:05:39
2	As 188.979†	39.6	36.9	0.0247	mg/L	0.0247	mg/L	03:05:52
2	B 249.677†	78.3	90.2	0.0394	mg/L	0.0394	mg/L	03:05:19
2	B 182.528†	67.0	71.1	0.0623	mg/L	0.0623	mg/L	03:05:52
2	Ba 233.527†	22419.2	21572.0	0.1641	mg/L	0.1641	mg/L	03:05:41
2	Be 313.107†	8920.8	9981.5	0.0031	mg/L	0.0031	mg/L	03:05:41
2	Ca 315.887†	1597990.0	1532068.3	13.72	mg/L	13.72	mg/L	03:05:39
2	Cd 228.802†	196.8	41.2	0.0010	mg/L	0.0010	mg/L	03:05:52
2	Co 228.616†	2828.5	2888.5	0.0381	mg/L	0.0381	mg/L	03:05:52
2	Cr 267.716†	13366.8	12098.5	0.0925	mg/L	0.0925	mg/L	03:05:41
2	Cu 324.752†	60888.9	54393.0	0.2369	mg/L	0.2369	mg/L	03:05:41
2	Fe 234.349†	195603.0	187447.6	92.80	mg/L	92.80	mg/L	03:05:17
2	K 766.490†	18685.8	17161.4	7.472	mg/L	7.472	mg/L	03:05:19
2	Li 670.784†	2920.8	3071.6	0.0740	mg/L	0.0740	mg/L	03:05:19
2	Mg 279.077†	366864.9	351278.0	22.81	mg/L	22.81	mg/L	03:05:39
2	Mn 257.610†	2454675.0	2336255.6	2.492	mg/L	2.492	mg/L	03:05:39
2	Mn 294.920†	1227498.9	1176950.1	2.510	mg/L	2.510	mg/L	03:05:39
2	Mo 202.031†	133.9	138.7	-0.0072	mg/L	-0.0072	mg/L	03:05:41
2	Na 589.592†	29172.0	23729.0	3.267	mg/L	3.267	mg/L	03:05:17
2	Ni 231.604†	3778.0	3443.3	0.0636	mg/L	0.0636	mg/L	03:05:41
2	P 214.914†	8001.0	7713.4	4.091	mg/L	4.091	mg/L	03:05:41
2	Pb 220.353†	1246.9	1011.8	0.0471	mg/L	0.0471	mg/L	03:05:52
2	Sb 206.836†	70.2	22.5	-0.0266	mg/L	-0.0266	mg/L	03:05:52
2	Se 196.026†	-12.3	-28.6	-0.0059	mg/L	-0.0059	mg/L	03:05:52
2	Sn 189.927†	-106.5	-139.5	-0.0071	mg/L	-0.0071	mg/L	03:05:52
2	Sr 407.771†	50358.3	48012.6	0.0409	mg/L	0.0409	mg/L	03:05:17
2	Ti 337.279†	2766393.2	2652326.6	2.722	mg/L	2.722	mg/L	03:05:39
2	Tl 190.801†	-1.5	5.7	-0.0405	mg/L	-0.0405	mg/L	03:05:52
2	V 292.402†	75009.8	72783.6	0.2818	mg/L	0.2818	mg/L	03:05:41
2	Zn 213.857†	31247.4	29074.9	0.1742	mg/L	0.1742	mg/L	03:05:41

Mean Data: 1306374-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3510850.0	1.04	mg/L	0.007				0.70%
Ag 328.068†	-604.1	0.0001	mg/L	0.00045	0.0001	mg/L	0.00045	305.26%
Al 237.313†	615070.0	56.39	mg/L	0.090	56.39	mg/L	0.090	0.16%
As 188.979†	32.8	0.0222	mg/L	0.00359	0.0222	mg/L	0.00359	16.17%
B 249.677†	87.5	0.0382	mg/L	0.00157	0.0382	mg/L	0.00157	4.12%
B 182.528†	73.3	0.0641	mg/L	0.00250	0.0641	mg/L	0.00250	3.89%
Ba 233.527†	21826.0	0.1661	mg/L	0.00272	0.1661	mg/L	0.00272	1.64%
Be 313.107†	10168.0	0.0031	mg/L	0.00009	0.0031	mg/L	0.00009	2.93%
Ca 315.887†	1533991.1	13.74	mg/L	0.024	13.74	mg/L	0.024	0.18%
Cd 228.802†	38.0	0.0009	mg/L	0.00014	0.0009	mg/L	0.00014	14.99%
Co 228.616†	2906.8	0.0384	mg/L	0.00041	0.0384	mg/L	0.00041	1.06%
Cr 267.716†	12185.9	0.0932	mg/L	0.00094	0.0932	mg/L	0.00094	1.01%
Cu 324.752†	54911.4	0.2391	mg/L	0.00313	0.2391	mg/L	0.00313	1.31%
Fe 234.349†	188891.5	93.52	mg/L	1.011	93.52	mg/L	1.011	1.08%
K 766.490†	17314.0	7.537	mg/L	0.0922	7.537	mg/L	0.0922	1.22%
Li 670.784†	3178.4	0.0765	mg/L	0.00355	0.0765	mg/L	0.00355	4.63%
Mg 279.077†	351616.3	22.83	mg/L	0.031	22.83	mg/L	0.031	0.14%
Mn 257.610†	2338692.3	2.495	mg/L	0.0035	2.495	mg/L	0.0035	0.14%
Mn 294.920†	1178356.2	2.513	mg/L	0.0042	2.513	mg/L	0.0042	0.17%
Mo 202.031†	157.8	-0.0066	mg/L	0.00085	-0.0066	mg/L	0.00085	12.75%
Na 589.592†	23838.9	3.281	mg/L	0.0208	3.281	mg/L	0.0208	0.64%
Ni 231.604†	3448.1	0.0636	mg/L	0.00013	0.0636	mg/L	0.00013	0.20%
P 214.914†	7812.3	4.143	mg/L	0.0733	4.143	mg/L	0.0733	1.77%
Pb 220.353†	1068.0	0.0503	mg/L	0.00463	0.0503	mg/L	0.00463	9.21%
Sb 206.836†	22.5	-0.0269	mg/L	0.00043	-0.0269	mg/L	0.00043	1.60%
Se 196.026†	-23.1	-0.0028	mg/L	0.00435	-0.0028	mg/L	0.00435	152.54%
Sn 189.927†	-136.6	-0.0067	mg/L	0.00052	-0.0067	mg/L	0.00052	7.73%
Sr 407.771†	48374.1	0.0412	mg/L	0.00043	0.0412	mg/L	0.00043	1.05%
Ti 337.279†	2654429.3	2.724	mg/L	0.0030	2.724	mg/L	0.0030	0.11%
Tl 190.801†	4.5	-0.0417	mg/L	0.00180	-0.0417	mg/L	0.00180	4.31%
V 292.402†	73413.3	0.2842	mg/L	0.00349	0.2842	mg/L	0.00349	1.23%
Zn 213.857†	29429.5	0.1763	mg/L	0.00303	0.1763	mg/L	0.00303	1.72%

Sequence No.: 169

Sample ID: 1306374-02

Analyst:

Logged In Analyst (Original) : ICP3

Autosampler Location: 124

Date Collected: 6/26/2013 3:07:29 AM

Data Type: Reprocessed on 6/26/2013 10:58:00 AM

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306374-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3599835.0	3599835.0	1.06	mg/L			03:09:18
1	Ag 328.068†	183.4	-564.5	0.0001	mg/L	0.0001	mg/L	03:09:21
1	Al 237.313†	564634.6	530723.9	48.66	mg/L	48.66	mg/L	03:09:18
1	As 188.979†	27.3	24.6	0.0173	mg/L	0.0173	mg/L	03:09:31
1	B 249.677†	-10.1	5.7	0.0049	mg/L	0.0049	mg/L	03:09:09
1	B 182.528†	43.7	48.0	0.0433	mg/L	0.0433	mg/L	03:09:31
1	Ba 233.527†	43046.3	40519.3	0.3078	mg/L	0.3078	mg/L	03:09:21
1	Be 313.107†	10297.6	11104.9	0.0035	mg/L	0.0035	mg/L	03:09:21
1	Ca 315.887†	1563010.9	1468785.3	13.16	mg/L	13.16	mg/L	03:09:18
1	Cd 228.802†	240.8	78.8	0.0022	mg/L	0.0022	mg/L	03:09:31
1	Co 228.616†	2964.0	2961.9	0.0396	mg/L	0.0396	mg/L	03:09:31
1	Cr 267.716†	10702.7	9341.8	0.0716	mg/L	0.0716	mg/L	03:09:21
1	Cu 324.752†	60317.6	52697.0	0.2295	mg/L	0.2295	mg/L	03:09:21
1	Fe 234.349†	179894.8	168968.9	83.65	mg/L	83.65	mg/L	03:09:07
1	K 766.490†	19020.3	17119.8	7.454	mg/L	7.454	mg/L	03:09:09
1	Li 670.784†	3096.7	3181.2	0.0766	mg/L	0.0766	mg/L	03:09:09
1	Mg 279.077†	328767.6	308509.1	20.04	mg/L	20.04	mg/L	03:09:18
1	Mn 257.610†	3806557.8	3559278.1	3.810	mg/L	3.810	mg/L	03:09:18
1	Mn 294.920†	1896705.5	1782132.6	3.801	mg/L	3.801	mg/L	03:09:18
1	Mo 202.031†	72.9	78.9	-0.0081	mg/L	-0.0081	mg/L	03:09:31
1	Na 589.592†	23253.1	17614.2	2.447	mg/L	2.447	mg/L	03:09:07
1	Ni 231.604†	3981.5	3562.5	0.0658	mg/L	0.0658	mg/L	03:09:21
1	P 214.914†	3730.3	3549.7	1.908	mg/L	1.908	mg/L	03:09:31
1	Pb 220.353†	1388.3	1120.9	0.0553	mg/L	0.0553	mg/L	03:09:31
1	Sb 206.836†	70.5	21.4	-0.0230	mg/L	-0.0230	mg/L	03:09:31
1	Se 196.026†	-12.6	-28.7	-0.0065	mg/L	-0.0065	mg/L	03:09:31
1	Sn 189.927†	-87.1	-119.3	-0.0049	mg/L	-0.0049	mg/L	03:09:31
1	Sr 407.771†	66045.7	61788.2	0.0526	mg/L	0.0526	mg/L	03:09:07
1	Ti 337.279†	2677260.6	2515931.0	2.582	mg/L	2.582	mg/L	03:09:18
1	Tl 190.801†	-1.6	5.6	-0.0361	mg/L	-0.0361	mg/L	03:09:31
1	V 292.402†	59489.3	56777.6	0.2193	mg/L	0.2193	mg/L	03:09:21
1	Zn 213.857†	41749.9	38344.4	0.2315	mg/L	0.2315	mg/L	03:09:21
2	Y 371.029	3612810.9	3612810.9	1.07	mg/L			03:09:34
2	Ag 328.068†	72.9	-668.6	-0.0004	mg/L	-0.0004	mg/L	03:09:36
2	Al 237.313†	567106.8	531132.8	48.70	mg/L	48.70	mg/L	03:09:34
2	As 188.979†	37.9	34.4	0.0233	mg/L	0.0233	mg/L	03:09:46
2	B 249.677†	-1.7	13.6	0.0081	mg/L	0.0081	mg/L	03:09:14
2	B 182.528†	40.2	44.6	0.0405	mg/L	0.0405	mg/L	03:09:46
2	Ba 233.527†	43150.7	40471.7	0.3074	mg/L	0.3074	mg/L	03:09:36
2	Be 313.107†	10352.6	11121.6	0.0035	mg/L	0.0035	mg/L	03:09:36
2	Ca 315.887†	1570151.4	1470195.2	13.17	mg/L	13.17	mg/L	03:09:34
2	Cd 228.802†	231.2	68.9	0.0019	mg/L	0.0019	mg/L	03:09:46
2	Co 228.616†	2955.3	2943.7	0.0393	mg/L	0.0393	mg/L	03:09:46
2	Cr 267.716†	10701.9	9304.9	0.0713	mg/L	0.0713	mg/L	03:09:36
2	Cu 324.752†	60073.3	52264.9	0.2277	mg/L	0.2277	mg/L	03:09:36
2	Fe 234.349†	181846.7	170188.8	84.26	mg/L	84.26	mg/L	03:09:11
2	K 766.490†	18884.3	16928.4	7.372	mg/L	7.372	mg/L	03:09:14
2	Li 670.784†	3202.5	3269.8	0.0787	mg/L	0.0787	mg/L	03:09:14
2	Mg 279.077†	330232.9	308771.3	20.05	mg/L	20.05	mg/L	03:09:34
2	Mn 257.610†	3823871.1	3562640.0	3.813	mg/L	3.813	mg/L	03:09:34
2	Mn 294.920†	1904948.1	1783448.3	3.804	mg/L	3.804	mg/L	03:09:34
2	Mo 202.031†	90.9	95.5	-0.0075	mg/L	-0.0075	mg/L	03:09:46
2	Na 589.592†	23635.1	17893.2	2.485	mg/L	2.485	mg/L	03:09:11
2	Ni 231.604†	3991.9	3558.8	0.0657	mg/L	0.0657	mg/L	03:09:36
2	P 214.914†	3687.8	3497.4	1.881	mg/L	1.881	mg/L	03:09:46
2	Pb 220.353†	1378.5	1107.0	0.0545	mg/L	0.0545	mg/L	03:09:46
2	Sb 206.836†	72.6	23.2	-0.0225	mg/L	-0.0225	mg/L	03:09:46
2	Se 196.026†	-3.5	-20.2	-0.0017	mg/L	-0.0017	mg/L	03:09:46
2	Sn 189.927†	-111.9	-142.2	-0.0077	mg/L	-0.0077	mg/L	03:09:46
2	Sr 407.771†	66655.7	62136.3	0.0529	mg/L	0.0529	mg/L	03:09:11
2	Ti 337.279†	2687315.8	2516309.9	2.582	mg/L	2.582	mg/L	03:09:34
2	Tl 190.801†	-5.3	2.2	-0.0389	mg/L	-0.0389	mg/L	03:09:46
2	V 292.402†	59469.6	56558.4	0.2185	mg/L	0.2185	mg/L	03:09:36
2	Zn 213.857†	41715.3	38171.2	0.2304	mg/L	0.2304	mg/L	03:09:36

Mean Data: 1306374-02

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	3606323.0	1.07	mg/L	0.003				0.25%
Ag 328.068†	-616.5	-0.0002	mg/L	0.00034	-0.0002	mg/L	0.00034	209.36%
Al 237.313†	530928.4	48.68	mg/L	0.027	48.68	mg/L	0.027	0.05%
As 188.979†	29.5	0.0203	mg/L	0.00425	0.0203	mg/L	0.00425	20.91%
B 249.677†	9.7	0.0065	mg/L	0.00229	0.0065	mg/L	0.00229	35.31%
B 182.528†	46.3	0.0419	mg/L	0.00200	0.0419	mg/L	0.00200	4.77%
Ba 233.527†	40495.5	0.3076	mg/L	0.00026	0.3076	mg/L	0.00026	0.08%
Be 313.107†	11113.2	0.0035	mg/L	0.00000	0.0035	mg/L	0.00000	0.12%
Ca 315.887†	1469490.3	13.16	mg/L	0.009	13.16	mg/L	0.009	0.07%
Cd 228.802†	73.9	0.0020	mg/L	0.00019	0.0020	mg/L	0.00019	9.42%
Co 228.616†	2952.8	0.0395	mg/L	0.00021	0.0395	mg/L	0.00021	0.52%
Cr 267.716†	9323.3	0.0714	mg/L	0.00020	0.0714	mg/L	0.00020	0.28%
Cu 324.752†	52480.9	0.2286	mg/L	0.00131	0.2286	mg/L	0.00131	0.57%
Fe 234.349†	169578.8	83.95	mg/L	0.427	83.95	mg/L	0.427	0.51%
K 766.490†	17024.1	7.413	mg/L	0.0578	7.413	mg/L	0.0578	0.78%
Li 670.784†	3225.5	0.0776	mg/L	0.00147	0.0776	mg/L	0.00147	1.90%
Mg 279.077†	308640.2	20.05	mg/L	0.012	20.05	mg/L	0.012	0.06%
Mn 257.610†	3560959.1	3.812	mg/L	0.0025	3.812	mg/L	0.0025	0.06%
Mn 294.920†	1782790.4	3.803	mg/L	0.0020	3.803	mg/L	0.0020	0.05%
Mo 202.031†	87.2	-0.0078	mg/L	0.00039	-0.0078	mg/L	0.00039	4.94%
Na 589.592†	17753.7	2.466	mg/L	0.0264	2.466	mg/L	0.0264	1.07%
Ni 231.604†	3560.7	0.0657	mg/L	0.00005	0.0657	mg/L	0.00005	0.07%
P 214.914†	3523.6	1.894	mg/L	0.0194	1.894	mg/L	0.0194	1.02%
Pb 220.353†	1113.9	0.0549	mg/L	0.00058	0.0549	mg/L	0.00058	1.05%
Sb 206.836†	22.3	-0.0228	mg/L	0.00034	-0.0228	mg/L	0.00034	1.50%
Se 196.026†	-24.4	-0.0041	mg/L	0.00335	-0.0041	mg/L	0.00335	81.45%
Sn 189.927†	-130.8	-0.0063	mg/L	0.00199	-0.0063	mg/L	0.00199	31.30%
Sr 407.771†	61962.2	0.0527	mg/L	0.00021	0.0527	mg/L	0.00021	0.40%
Ti 337.279†	2516120.5	2.582	mg/L	0.0003	2.582	mg/L	0.0003	0.01%
Tl 190.801†	3.9	-0.0375	mg/L	0.00200	-0.0375	mg/L	0.00200	5.34%
V 292.402†	56668.0	0.2189	mg/L	0.00060	0.2189	mg/L	0.00060	0.27%
Zn 213.857†	38257.8	0.2310	mg/L	0.00077	0.2310	mg/L	0.00077	0.33%

Sequence No.: 170

Sample ID: 1306374-04

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 125

Date Collected: 6/26/2013 3:11:24 AM

Data Type: Reprocessed on 6/26/2013 10:58:01 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306374-04

Repl#	Analyte	Net		Calib. Conc. Units	Sample Conc. Units	Analysis Time
		Intensity	Corrected Intensity			
1	Y 371.029	3692497.8	3692497.8	1.09 mg/L		03:13:17
1	Ag 328.068†	-98.5	-827.0	-0.0009 mg/L	-0.0009 mg/L	03:13:19
1	Al 237.313†	625590.6	573231.7	52.56 mg/L	52.56 mg/L	03:13:17
1	As 188.979†	40.0	35.6	0.0240 mg/L	0.0240 mg/L	03:13:29
1	B 249.677†	7.6	22.1	0.0116 mg/L	0.0116 mg/L	03:13:07
1	B 182.528†	40.9	44.4	0.0404 mg/L	0.0404 mg/L	03:13:29
1	Ba 233.527†	60507.0	55493.1	0.4213 mg/L	0.4213 mg/L	03:13:19
1	Be 313.107†	11772.2	12212.4	0.0038 mg/L	0.0038 mg/L	03:13:19
1	Ca 315.887†	1310819.1	1201016.0	10.76 mg/L	10.76 mg/L	03:13:17
1	Cd 228.802†	255.8	86.8	0.0022 mg/L	0.0022 mg/L	03:13:29
1	Co 228.616†	3018.6	2942.0	0.0386 mg/L	0.0386 mg/L	03:13:29
1	Cr 267.716†	13185.9	11363.3	0.0869 mg/L	0.0869 mg/L	03:13:19
1	Cu 324.752†	38681.5	31463.4	0.1392 mg/L	0.1392 mg/L	03:13:19
1	Fe 234.349†	213013.4	195055.0	96.57 mg/L	96.57 mg/L	03:13:05
1	K 766.490†	16947.3	14773.3	6.452 mg/L	6.452 mg/L	03:13:07
1	Li 670.784†	3239.5	3239.0	0.0780 mg/L	0.0780 mg/L	03:13:07
1	Mg 279.077†	364150.2	333159.2	21.64 mg/L	21.64 mg/L	03:13:17
1	Mn 257.610†	3953540.6	3604145.6	3.855 mg/L	3.855 mg/L	03:13:17
1	Mn 294.920†	1974499.6	1808661.3	3.858 mg/L	3.858 mg/L	03:13:17
1	Mo 202.031†	22.0	30.6	-0.0113 mg/L	-0.0113 mg/L	03:13:19
1	Na 589.592†	21656.5	15604.1	2.178 mg/L	2.178 mg/L	03:13:07
1	Ni 231.604†	4382.5	3835.9	0.0709 mg/L	0.0709 mg/L	03:13:19
1	P 214.914†	5810.9	5367.0	2.862 mg/L	2.862 mg/L	03:13:29
1	Pb 220.353†	1425.3	1122.1	0.0545 mg/L	0.0545 mg/L	03:13:29
1	Sb 206.836†	74.8	23.7	-0.0277 mg/L	-0.0277 mg/L	03:13:29

1	Se 196.026†	-5.6	-22.0	-0.0021 mg/L	-0.0021 mg/L	03:13:29
1	Sn 189.927†	-117.6	-145.1	-0.0096 mg/L	-0.0096 mg/L	03:13:29
1	Sr 407.771†	77327.2	70561.7	0.0600 mg/L	0.0600 mg/L	03:13:05
1	Ti 337.279†	3071798.7	2814099.5	2.887 mg/L	2.887 mg/L	03:13:17
1	Tl 190.801†	-3.2	4.2	-0.0427 mg/L	-0.0427 mg/L	03:13:29
1	V 292.402†	70769.5	65704.5	0.2536 mg/L	0.2536 mg/L	03:13:19
1	Zn 213.857†	58150.6	52378.2	0.3172 mg/L	0.3172 mg/L	03:13:19
2	Y 371.029	3695984.9	3695984.9	1.09 mg/L	1.09 mg/L	03:13:32
2	Ag 328.068†	-55.3	-787.4	-0.0007 mg/L	-0.0007 mg/L	03:13:34
2	Al 237.313†	623717.0	570977.2	52.35 mg/L	52.35 mg/L	03:13:32
2	As 188.979†	33.8	29.9	0.0205 mg/L	0.0205 mg/L	03:13:45
2	B 249.677†	-0.8	14.5	0.0084 mg/L	0.0084 mg/L	03:13:12
2	B 182.528†	45.4	48.5	0.0437 mg/L	0.0437 mg/L	03:13:45
2	Ba 233.527†	60891.9	55793.0	0.4236 mg/L	0.4236 mg/L	03:13:34
2	Be 313.107†	11925.5	12342.5	0.0039 mg/L	0.0039 mg/L	03:13:34
2	Ca 315.887†	1307381.2	1196738.4	10.72 mg/L	10.72 mg/L	03:13:32
2	Cd 228.802†	255.7	86.5	0.0022 mg/L	0.0022 mg/L	03:13:45
2	Co 228.616†	2976.4	2900.8	0.0380 mg/L	0.0380 mg/L	03:13:45
2	Cr 267.716†	13208.2	11372.3	0.0870 mg/L	0.0870 mg/L	03:13:34
2	Cu 324.752†	39029.4	31748.2	0.1404 mg/L	0.1404 mg/L	03:13:34
2	Fe 234.349†	208273.7	190535.0	94.33 mg/L	94.33 mg/L	03:13:10
2	K 766.490†	16825.0	14646.8	6.398 mg/L	6.398 mg/L	03:13:12
2	Li 670.784†	3019.2	3034.7	0.0732 mg/L	0.0732 mg/L	03:13:12
2	Mg 279.077†	363394.2	332153.0	21.57 mg/L	21.57 mg/L	03:13:32
2	Mn 257.610†	3938743.4	3587193.1	3.838 mg/L	3.838 mg/L	03:13:32
2	Mn 294.920†	1967194.0	1800272.1	3.840 mg/L	3.840 mg/L	03:13:32
2	Mo 202.031†	63.1	68.2	-0.0096 mg/L	-0.0096 mg/L	03:13:34
2	Na 589.592†	21745.5	15666.7	2.186 mg/L	2.186 mg/L	03:13:12
2	Ni 231.604†	4403.0	3850.8	0.0711 mg/L	0.0711 mg/L	03:13:34
2	P 214.914†	5793.4	5346.0	2.851 mg/L	2.851 mg/L	03:13:45
2	Pb 220.353†	1433.7	1128.5	0.0549 mg/L	0.0549 mg/L	03:13:45
2	Sb 206.836†	71.1	20.3	-0.0281 mg/L	-0.0281 mg/L	03:13:45
2	Se 196.026†	-14.6	-30.3	-0.0067 mg/L	-0.0067 mg/L	03:13:45
2	Sn 189.927†	-103.9	-132.6	-0.0081 mg/L	-0.0081 mg/L	03:13:45
2	Sr 407.771†	75963.1	69247.0	0.0589 mg/L	0.0589 mg/L	03:13:10
2	Ti 337.279†	3061648.3	2802159.8	2.875 mg/L	2.875 mg/L	03:13:32
2	Tl 190.801†	0.2	7.3	-0.0393 mg/L	-0.0393 mg/L	03:13:45
2	V 292.402†	71683.6	66479.5	0.2567 mg/L	0.2567 mg/L	03:13:34
2	Zn 213.857†	58932.6	53043.4	0.3214 mg/L	0.3214 mg/L	03:13:34

Mean Data: 1306374-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3694241.4	1.09	mg/L	0.001				0.07%
Ag 328.068†	-807.2	-0.0008	mg/L	0.00010	-0.0008	mg/L	0.00010	12.16%
Al 237.313†	572104.4	52.45	mg/L	0.146	52.45	mg/L	0.146	0.28%
As 188.979†	32.7	0.0222	mg/L	0.00248	0.0222	mg/L	0.00248	11.16%
B 249.677†	18.3	0.0100	mg/L	0.00222	0.0100	mg/L	0.00222	22.19%
B 182.528†	46.5	0.0421	mg/L	0.00236	0.0421	mg/L	0.00236	5.60%
Ba 233.527†	55643.0	0.4224	mg/L	0.00161	0.4224	mg/L	0.00161	0.38%
Be 313.107†	12277.4	0.0039	mg/L	0.00003	0.0039	mg/L	0.00003	0.89%
Ca 315.887†	1198877.2	10.74	mg/L	0.027	10.74	mg/L	0.027	0.25%
Cd 228.802†	86.6	0.0022	mg/L	0.00002	0.0022	mg/L	0.00002	0.96%
Co 228.616†	2921.4	0.0383	mg/L	0.00045	0.0383	mg/L	0.00045	1.16%
Cr 267.716†	11367.8	0.0870	mg/L	0.00005	0.0870	mg/L	0.00005	0.06%
Cu 324.752†	31605.8	0.1398	mg/L	0.00085	0.1398	mg/L	0.00085	0.61%
Fe 234.349†	192795.0	95.45	mg/L	1.583	95.45	mg/L	1.583	1.66%
K 766.490†	14710.1	6.425	mg/L	0.0382	6.425	mg/L	0.0382	0.59%
Li 670.784†	3136.8	0.0756	mg/L	0.00339	0.0756	mg/L	0.00339	4.49%
Mg 279.077†	332656.1	21.61	mg/L	0.046	21.61	mg/L	0.046	0.21%
Mn 257.610†	3595669.3	3.846	mg/L	0.0125	3.846	mg/L	0.0125	0.33%
Mn 294.920†	1804466.7	3.849	mg/L	0.0127	3.849	mg/L	0.0127	0.33%
Mo 202.031†	49.4	-0.0104	mg/L	0.00123	-0.0104	mg/L	0.00123	11.78%
Na 589.592†	15635.4	2.182	mg/L	0.0059	2.182	mg/L	0.0059	0.27%
Ni 231.604†	3843.3	0.0710	mg/L	0.00020	0.0710	mg/L	0.00020	0.28%
P 214.914†	5356.5	2.857	mg/L	0.0078	2.857	mg/L	0.0078	0.27%
Pb 220.353†	1125.3	0.0547	mg/L	0.00030	0.0547	mg/L	0.00030	0.55%
Sb 206.836†	22.0	-0.0279	mg/L	0.00031	-0.0279	mg/L	0.00031	1.11%
Se 196.026†	-26.1	-0.0044	mg/L	0.00331	-0.0044	mg/L	0.00331	75.29%
Sn 189.927†	-138.8	-0.0088	mg/L	0.00107	-0.0088	mg/L	0.00107	12.15%
Sr 407.771†	69904.4	0.0595	mg/L	0.00079	0.0595	mg/L	0.00079	1.32%
Ti 337.279†	2808129.6	2.881	mg/L	0.0087	2.881	mg/L	0.0087	0.30%

Tl 190.801†	5.8	-0.0410 mg/L	0.00234	-0.0410 mg/L	0.00234	5.70%
V 292.402†	66092.0	0.2551 mg/L	0.00217	0.2551 mg/L	0.00217	0.85%
Zn 213.857†	52710.8	0.3193 mg/L	0.00296	0.3193 mg/L	0.00296	0.93%

Sequence No.: 171
Sample ID: CCV1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/26/2013 3:15:22 AM
Data Type: Reprocessed on 6/26/2013 10:58:01 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3376450.4	3376450.4	0.999	mg/L			03:17:14
1	Ag 328.068†	50884.6	50218.9	0.2419	mg/L	0.2419	mg/L	03:17:14
1	Al 237.313†	25902.5	26326.1	2.422	mg/L	2.422	mg/L	03:17:25
1	As 188.979†	761.6	761.6	0.4678	mg/L	0.4678	mg/L	03:17:25
1	B 249.677†	1211.0	1227.9	0.5044	mg/L	0.5044	mg/L	03:17:05
1	B 182.528†	554.2	561.9	0.4655	mg/L	0.4655	mg/L	03:17:25
1	Ba 233.527†	63086.8	63262.7	0.4802	mg/L	0.4802	mg/L	03:17:14
1	Be 313.107†	123458.2	125063.4	0.0442	mg/L	0.0442	mg/L	03:17:14
1	Ca 315.887†	614999.8	616576.8	5.528	mg/L	5.528	mg/L	03:17:14
1	Cd 228.802†	8178.9	8042.9	0.2166	mg/L	0.2166	mg/L	03:17:25
1	Co 228.616†	30739.6	30960.4	0.4907	mg/L	0.4907	mg/L	03:17:25
1	Cr 267.716†	67044.2	66427.0	0.5062	mg/L	0.5062	mg/L	03:17:14
1	Cu 324.752†	122575.7	118790.2	0.5090	mg/L	0.5090	mg/L	03:17:14
1	Fe 234.349†	4796.9	4805.2	2.373	mg/L	2.373	mg/L	03:17:05
1	K 766.490†	55663.7	54996.4	23.63	mg/L	23.63	mg/L	03:17:02
1	Li 670.784†	20476.4	20777.7	0.4898	mg/L	0.4898	mg/L	03:17:05
1	Mg 279.077†	82260.1	82087.1	5.329	mg/L	5.329	mg/L	03:17:14
1	Mn 257.610†	477259.8	461872.2	0.4963	mg/L	0.4963	mg/L	03:17:14
1	Mn 294.920†	227517.7	228476.1	0.4872	mg/L	0.4872	mg/L	03:17:14
1	Mo 202.031†	12858.8	12887.2	0.4837	mg/L	0.4837	mg/L	03:17:25
1	Na 589.592†	192500.2	188542.6	25.35	mg/L	25.35	mg/L	03:17:02
1	Ni 231.604†	27155.7	27016.5	0.5029	mg/L	0.5029	mg/L	03:17:14
1	P 214.914†	8535.0	8593.0	4.546	mg/L	4.546	mg/L	03:17:25
1	Pb 220.353†	8569.9	8398.7	0.4941	mg/L	0.4941	mg/L	03:17:25
1	Sb 206.836†	1182.5	1139.4	0.4701	mg/L	0.4701	mg/L	03:17:25
1	Se 196.026†	1747.3	1732.9	0.9638	mg/L	0.9638	mg/L	03:17:25
1	Sn 189.927†	4054.7	4022.8	0.4990	mg/L	0.4990	mg/L	03:17:25
1	Sr 407.771†	54529.5	54360.1	0.0463	mg/L	0.0463	mg/L	03:17:02
1	Ti 337.279†	469733.3	471687.3	0.4863	mg/L	0.4863	mg/L	03:17:14
1	Tl 190.801†	724.8	732.9	0.5484	mg/L	0.5484	mg/L	03:17:25
1	V 292.402†	122228.5	123301.0	0.4920	mg/L	0.4920	mg/L	03:17:14
1	Zn 213.857†	80136.6	79379.1	0.4838	mg/L	0.4838	mg/L	03:17:14
2	Y 371.029	3388954.5	3388954.5	1.00	mg/L			03:17:28
2	Ag 328.068†	51042.6	50188.6	0.2417	mg/L	0.2417	mg/L	03:17:28
2	Al 237.313†	26057.6	26385.1	2.428	mg/L	2.428	mg/L	03:17:39
2	As 188.979†	767.4	764.6	0.4696	mg/L	0.4696	mg/L	03:17:39
2	B 249.677†	1192.0	1204.5	0.4948	mg/L	0.4948	mg/L	03:17:09
2	B 182.528†	556.5	562.1	0.4657	mg/L	0.4657	mg/L	03:17:39
2	Ba 233.527†	63201.0	63143.5	0.4793	mg/L	0.4793	mg/L	03:17:28
2	Be 313.107†	123689.3	124837.8	0.0441	mg/L	0.0441	mg/L	03:17:28
2	Ca 315.887†	615772.6	615075.5	5.515	mg/L	5.515	mg/L	03:17:28
2	Cd 228.802†	8210.3	8044.0	0.2166	mg/L	0.2166	mg/L	03:17:39
2	Co 228.616†	30903.7	31010.6	0.4915	mg/L	0.4915	mg/L	03:17:39
2	Cr 267.716†	67248.9	66383.5	0.5058	mg/L	0.5058	mg/L	03:17:28
2	Cu 324.752†	122924.1	118684.9	0.5086	mg/L	0.5086	mg/L	03:17:28
2	Fe 234.349†	4848.4	4838.9	2.390	mg/L	2.390	mg/L	03:17:09
2	K 766.490†	55171.4	54299.6	23.33	mg/L	23.33	mg/L	03:17:07
2	Li 670.784†	20572.9	20798.2	0.4903	mg/L	0.4903	mg/L	03:17:09
2	Mg 279.077†	82327.0	81850.0	5.314	mg/L	5.314	mg/L	03:17:28
2	Mn 257.610†	478433.9	461280.3	0.4956	mg/L	0.4956	mg/L	03:17:28
2	Mn 294.920†	228402.2	228518.0	0.4873	mg/L	0.4873	mg/L	03:17:28
2	Mo 202.031†	12934.1	12914.8	0.4847	mg/L	0.4847	mg/L	03:17:39
2	Na 589.592†	191137.4	186471.7	25.07	mg/L	25.07	mg/L	03:17:07
2	Ni 231.604†	27221.0	26981.2	0.5023	mg/L	0.5023	mg/L	03:17:28
2	P 214.914†	8607.4	8633.6	4.567	mg/L	4.567	mg/L	03:17:39
2	Pb 220.353†	8623.9	8420.9	0.4954	mg/L	0.4954	mg/L	03:17:39
2	Sb 206.836†	1167.9	1120.4	0.4623	mg/L	0.4623	mg/L	03:17:39

2	Se 196.026†	1779.1	1758.1	0.9778 mg/L	0.9778 mg/L	03:17:39
2	Sn 189.927†	4075.4	4028.5	0.4997 mg/L	0.4997 mg/L	03:17:39
2	Sr 407.771†	54136.9	53766.9	0.0458 mg/L	0.0458 mg/L	03:17:07
2	Ti 337.279†	470195.0	470412.4	0.4850 mg/L	0.4850 mg/L	03:17:28
2	Tl 190.801†	729.3	734.7	0.5497 mg/L	0.5497 mg/L	03:17:39
2	V 292.402†	122255.0	122875.9	0.4904 mg/L	0.4904 mg/L	03:17:28
2	Zn 213.857†	80446.3	79392.1	0.4839 mg/L	0.4839 mg/L	03:17:28

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3382702.5	1.00 mg/L	0.003			0.26%
Ag 328.068†	50203.7	0.2418 mg/L	0.00010	0.2418 mg/L	0.00010	0.04%
	QC value within limits for Ag 328.068	Recovery = 96.73%				
Al 237.313†	26355.6	2.425 mg/L	0.0038	2.425 mg/L	0.0038	0.16%
	QC value within limits for Al 237.313	Recovery = 97.01%				
As 188.979†	763.1	0.4687 mg/L	0.00128	0.4687 mg/L	0.00128	0.27%
	QC value within limits for As 188.979	Recovery = 93.74%				
B 249.677†	1216.2	0.4996 mg/L	0.00676	0.4996 mg/L	0.00676	1.35%
	QC value within limits for B 249.677	Recovery = 99.92%				
B 182.528†	562.0	0.4656 mg/L	0.00014	0.4656 mg/L	0.00014	0.03%
	QC value within limits for B 182.528	Recovery = 93.13%				
Ba 233.527†	63203.1	0.4797 mg/L	0.00064	0.4797 mg/L	0.00064	0.13%
	QC value within limits for Ba 233.527	Recovery = 95.95%				
Be 313.107†	124950.6	0.0442 mg/L	0.00006	0.0442 mg/L	0.00006	0.13%
	QC value less than the lower limit for Be 313.107	Recovery = 88.33%				
Ca 315.887†	615826.1	5.522 mg/L	0.0095	5.522 mg/L	0.0095	0.17%
	QC value greater than the upper limit for Ca 315.887	Recovery = 110.43%				
Cd 228.802†	8043.4	0.2166 mg/L	0.00002	0.2166 mg/L	0.00002	0.01%
	QC value less than the lower limit for Cd 228.802	Recovery = 86.64%				
Co 228.616†	30985.5	0.4911 mg/L	0.00057	0.4911 mg/L	0.00057	0.12%
	QC value within limits for Co 228.616	Recovery = 98.21%				
Cr 267.716†	66405.3	0.5060 mg/L	0.00023	0.5060 mg/L	0.00023	0.05%
	QC value within limits for Cr 267.716	Recovery = 101.20%				
Cu 324.752†	118737.6	0.5088 mg/L	0.00032	0.5088 mg/L	0.00032	0.06%
	QC value within limits for Cu 324.752	Recovery = 101.76%				
Fe 234.349†	4822.1	2.382 mg/L	0.0118	2.382 mg/L	0.0118	0.50%
	QC value within limits for Fe 234.349	Recovery = 95.27%				
K 766.490†	54648.0	23.48 mg/L	0.210	23.48 mg/L	0.210	0.90%
	QC value within limits for K 766.490	Recovery = 93.92%				
Li 670.784†	20787.9	0.4900 mg/L	0.00034	0.4900 mg/L	0.00034	0.07%
	QC value within limits for Li 670.784	Recovery = 98.01%				
Mg 279.077†	81968.5	5.321 mg/L	0.0109	5.321 mg/L	0.0109	0.20%
	QC value within limits for Mg 279.077	Recovery = 106.43%				
Mn 257.610†	461576.2	0.4959 mg/L	0.00045	0.4959 mg/L	0.00045	0.09%
	QC value within limits for Mn 257.610	Recovery = 99.19%				
Mn 294.920†	228497.0	0.4872 mg/L	0.00006	0.4872 mg/L	0.00006	0.01%
	QC value within limits for Mn 294.920	Recovery = 97.44%				
Mo 202.031†	12901.0	0.4842 mg/L	0.00073	0.4842 mg/L	0.00073	0.15%
	QC value within limits for Mo 202.031	Recovery = 96.84%				
Na 589.592†	187507.1	25.21 mg/L	0.196	25.21 mg/L	0.196	0.78%
	QC value within limits for Na 589.592	Recovery = 100.84%				
Ni 231.604†	26998.9	0.5026 mg/L	0.00046	0.5026 mg/L	0.00046	0.09%
	QC value within limits for Ni 231.604	Recovery = 100.52%				
P 214.914†	8613.3	4.557 mg/L	0.0150	4.557 mg/L	0.0150	0.33%
	QC value within limits for P 214.914	Recovery = 91.13%				
Pb 220.353†	8409.8	0.4948 mg/L	0.00092	0.4948 mg/L	0.00092	0.19%
	QC value within limits for Pb 220.353	Recovery = 98.95%				
Sb 206.836†	1129.9	0.4662 mg/L	0.00547	0.4662 mg/L	0.00547	1.17%
	QC value within limits for Sb 206.836	Recovery = 93.24%				
Se 196.026†	1745.5	0.9708 mg/L	0.00988	0.9708 mg/L	0.00988	1.02%
	QC value within limits for Se 196.026	Recovery = 97.08%				
Sn 189.927†	4025.7	0.4994 mg/L	0.00049	0.4994 mg/L	0.00049	0.10%
	QC value within limits for Sn 189.927	Recovery = 99.88%				
Sr 407.771†	54063.5	0.0461 mg/L	0.00036	0.0461 mg/L	0.00036	0.77%
	QC value within limits for Sr 407.771	Recovery = 92.12%				
Ti 337.279†	471049.9	0.4856 mg/L	0.00092	0.4856 mg/L	0.00092	0.19%
	QC value within limits for Ti 337.279	Recovery = 97.13%				
Tl 190.801†	733.8	0.5491 mg/L	0.00096	0.5491 mg/L	0.00096	0.17%
	QC value within limits for Tl 190.801	Recovery = 109.81%				
V 292.402†	123088.5	0.4912 mg/L	0.00116	0.4912 mg/L	0.00116	0.24%
	QC value within limits for V 292.402	Recovery = 98.24%				

Zn 213.857† 79385.6 0.4839 mg/L 0.00006 0.4839 mg/L 0.00006 0.01%
 QC value within limits for Zn 213.857 Recovery= 96.78%
 QC Failed. Continue with analysis.

Sequence No.: 172 Autosampler Location: 1
 Sample ID: CCB1 Date Collected: 6/26/2013 3:19:17 AM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:58:02 AM
 Logged In Analyst (Original) : ICP3 Initial Sample Vol:
 Initial Sample Wt: Sample Prep Vol:
 Dilution:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3462651.5	3462651.5	1.02 mg/L		03:21:22
1	Ag 328.068†	771.6	16.6	0.0007 mg/L	0.0007 mg/L	03:21:24
1	Al 237.313†	-385.8	10.7	0.0081 mg/L	0.0081 mg/L	03:21:24
1	As 188.979†	-0.6	-1.6	0.0016 mg/L	0.0016 mg/L	03:21:34
1	B 249.677†	-1.8	13.5	0.0080 mg/L	0.0080 mg/L	03:21:06
1	B 182.528†	1.2	8.2	0.0106 mg/L	0.0106 mg/L	03:21:34
1	Ba 233.527†	-40.7	48.0	0.0010 mg/L	0.0010 mg/L	03:21:34
1	Be 313.107†	-1255.9	206.5	0.0003 mg/L	0.0003 mg/L	03:21:24
1	Ca 315.887†	365.8	1075.1	0.0179 mg/L	0.0179 mg/L	03:21:24
1	Cd 228.802†	142.9	-7.9	0.0013 mg/L	0.0013 mg/L	03:21:34
1	Co 228.616†	-186.8	-4.5	-0.0021 mg/L	-0.0021 mg/L	03:21:34
1	Cr 267.716†	667.3	-59.3	0.0001 mg/L	0.0001 mg/L	03:21:24
1	Cu 324.752†	3371.6	-664.5	-0.0015 mg/L	-0.0015 mg/L	03:21:24
1	Fe 234.349†	11.0	12.4	0.0167 mg/L	0.0167 mg/L	03:21:06
1	K 766.490†	896.1	129.9	0.1989 mg/L	0.1989 mg/L	03:20:56
1	Li 670.784†	-310.3	-30.4	0.0012 mg/L	0.0012 mg/L	03:20:56
1	Mg 279.077†	334.9	39.2	0.0005 mg/L	0.0005 mg/L	03:21:24
1	Mn 257.610†	16432.8	-8.1	-0.0001 mg/L	-0.0001 mg/L	03:21:24
1	Mn 294.920†	-64.4	577.7	0.0011 mg/L	0.0011 mg/L	03:21:24
1	Mo 202.031†	6.8	17.1	0.0034 mg/L	0.0034 mg/L	03:21:34
1	Na 589.592†	16010.1	11406.9	1.616 mg/L	1.616 mg/L	03:20:56
1	Ni 231.604†	117.0	-62.9	-0.0017 mg/L	-0.0017 mg/L	03:21:24
1	P 214.914†	-11.4	34.9	0.0669 mg/L	0.0669 mg/L	03:21:34
1	Pb 220.353†	211.9	23.8	0.0033 mg/L	0.0033 mg/L	03:21:34
1	Sb 206.836†	46.8	0.9	0.0047 mg/L	0.0047 mg/L	03:21:34
1	Se 196.026†	21.1	3.7	0.0065 mg/L	0.0065 mg/L	03:21:34
1	Sn 189.927†	46.9	8.4	0.0026 mg/L	0.0026 mg/L	03:21:34
1	Sr 407.771†	196.6	-53.6	0.0003 mg/L	0.0003 mg/L	03:20:56
1	Ti 337.279†	-951.5	368.8	0.0032 mg/L	0.0032 mg/L	03:21:24
1	Tl 190.801†	-4.8	2.4	0.0015 mg/L	0.0015 mg/L	03:21:34
1	V 292.402†	-788.3	132.1	0.0029 mg/L	0.0029 mg/L	03:21:24
1	Zn 213.857†	808.7	-79.7	0.0000 mg/L	0.0000 mg/L	03:21:34
2	Y 371.029	3442913.2	3442913.2	1.02 mg/L		03:21:36
2	Ag 328.068†	636.6	-111.6	0.0001 mg/L	0.0001 mg/L	03:21:39
2	Al 237.313†	-383.0	11.3	0.0081 mg/L	0.0081 mg/L	03:21:39
2	As 188.979†	4.2	3.1	0.0045 mg/L	0.0045 mg/L	03:21:49
2	B 249.677†	-12.4	3.0	0.0037 mg/L	0.0037 mg/L	03:21:18
2	B 182.528†	0.1	7.1	0.0097 mg/L	0.0097 mg/L	03:21:49
2	Ba 233.527†	-31.4	56.9	0.0010 mg/L	0.0010 mg/L	03:21:49
2	Be 313.107†	-1281.3	174.4	0.0003 mg/L	0.0003 mg/L	03:21:39
2	Ca 315.887†	526.8	1235.3	0.0193 mg/L	0.0193 mg/L	03:21:39
2	Cd 228.802†	156.8	6.6	0.0017 mg/L	0.0017 mg/L	03:21:49
2	Co 228.616†	-162.9	17.9	-0.0018 mg/L	-0.0018 mg/L	03:21:49
2	Cr 267.716†	648.4	-74.0	-0.0001 mg/L	-0.0001 mg/L	03:21:39
2	Cu 324.752†	3387.0	-630.4	-0.0014 mg/L	-0.0014 mg/L	03:21:39
2	Fe 234.349†	24.5	25.7	0.0233 mg/L	0.0233 mg/L	03:21:18
2	K 766.490†	888.1	127.1	0.1977 mg/L	0.1977 mg/L	03:21:08
2	Li 670.784†	-226.5	50.2	0.0031 mg/L	0.0031 mg/L	03:21:08
2	Mg 279.077†	287.6	-5.5	-0.0024 mg/L	-0.0024 mg/L	03:21:39
2	Mn 257.610†	16397.6	49.3	0.0000 mg/L	0.0000 mg/L	03:21:39
2	Mn 294.920†	-96.6	545.8	0.0010 mg/L	0.0010 mg/L	03:21:39
2	Mo 202.031†	10.1	20.3	0.0036 mg/L	0.0036 mg/L	03:21:49
2	Na 589.592†	16563.9	12040.4	1.700 mg/L	1.700 mg/L	03:21:08
2	Ni 231.604†	103.6	-75.4	-0.0019 mg/L	-0.0019 mg/L	03:21:39
2	P 214.914†	-23.4	23.1	0.0606 mg/L	0.0606 mg/L	03:21:49
2	Pb 220.353†	230.6	43.3	0.0045 mg/L	0.0045 mg/L	03:21:49
2	Sb 206.836†	39.0	-6.5	0.0017 mg/L	0.0017 mg/L	03:21:49

2	Se 196.026†	13.5	-3.6	0.0024 mg/L	0.0024 mg/L	03:21:49
2	Sn 189.927†	48.9	10.5	0.0029 mg/L	0.0029 mg/L	03:21:49
2	Sr 407.771†	208.5	-40.9	0.0003 mg/L	0.0003 mg/L	03:21:08
2	Ti 337.279†	-1051.9	264.9	0.0031 mg/L	0.0031 mg/L	03:21:39
2	Tl 190.801†	-4.9	2.3	0.0014 mg/L	0.0014 mg/L	03:21:49
2	V 292.402†	-823.5	93.1	0.0027 mg/L	0.0027 mg/L	03:21:39
2	Zn 213.857†	800.1	-83.6	0.0000 mg/L	0.0000 mg/L	03:21:49

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3452782.4	1.02 mg/L		0.004			0.40%
Ag 328.068†	-47.5	0.0004 mg/L		0.00044	0.0004 mg/L	0.00044	102.84%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 237.313†	11.0	0.0081 mg/L		0.00004	0.0081 mg/L	0.00004	0.49%
QC value within limits for Al 237.313 Recovery = Not calculated							
As 188.979†	0.7	0.0031 mg/L		0.00205	0.0031 mg/L	0.00205	66.53%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	8.2	0.0059 mg/L		0.00301	0.0059 mg/L	0.00301	51.25%
QC value within limits for B 249.677 Recovery = Not calculated							
B 182.528†	7.6	0.0101 mg/L		0.00064	0.0101 mg/L	0.00064	6.33%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	52.5	0.0010 mg/L		0.00005	0.0010 mg/L	0.00005	4.79%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	190.5	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	2.84%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	1155.2	0.0186 mg/L		0.00101	0.0186 mg/L	0.00101	5.44%
QC value within limits for Ca 315.887 Recovery = Not calculated							
Cd 228.802†	-0.6	0.0015 mg/L		0.00027	0.0015 mg/L	0.00027	18.42%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated							
Co 228.616†	6.7	-0.0020 mg/L		0.00025	-0.0020 mg/L	0.00025	12.86%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-66.6	0.0000 mg/L		0.00008	0.0000 mg/L	0.00008	>999.9%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-647.4	-0.0014 mg/L		0.00010	-0.0014 mg/L	0.00010	7.08%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 234.349†	19.0	0.0200 mg/L		0.00467	0.0200 mg/L	0.00467	23.34%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated							
K 766.490†	128.5	0.1983 mg/L		0.00085	0.1983 mg/L	0.00085	0.43%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated							
Li 670.784†	9.9	0.0021 mg/L		0.00134	0.0021 mg/L	0.00134	62.90%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	16.9	-0.0009 mg/L		0.00205	-0.0009 mg/L	0.00205	226.41%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	20.6	0.0000 mg/L		0.00004	0.0000 mg/L	0.00004	92.69%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mn 294.920†	561.7	0.0010 mg/L		0.00005	0.0010 mg/L	0.00005	4.70%
QC value within limits for Mn 294.920 Recovery = Not calculated							
Mo 202.031†	18.7	0.0035 mg/L		0.00009	0.0035 mg/L	0.00009	2.44%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated							
Na 589.592†	11723.6	1.658 mg/L		0.0600	1.658 mg/L	0.0600	3.62%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-69.1	-0.0018 mg/L		0.00016	-0.0018 mg/L	0.00016	9.06%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	29.0	0.0637 mg/L		0.00441	0.0637 mg/L	0.00441	6.92%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated							
Pb 220.353†	33.6	0.0039 mg/L		0.00081	0.0039 mg/L	0.00081	20.71%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	-2.8	0.0032 mg/L		0.00212	0.0032 mg/L	0.00212	65.64%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.1	0.0045 mg/L		0.00286	0.0045 mg/L	0.00286	63.99%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	9.5	0.0027 mg/L		0.00019	0.0027 mg/L	0.00019	6.88%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	-47.3	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	2.96%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	316.9	0.0031 mg/L		0.00008	0.0031 mg/L	0.00008	2.42%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	2.4	0.0014 mg/L		0.00008	0.0014 mg/L	0.00008	5.58%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	112.6	0.0028 mg/L		0.00011	0.0028 mg/L	0.00011	3.83%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated							

Zn 213.857† -81.7 0.0000 mg/L 0.00002 0.0000 mg/L 0.00002 211.10%
 QC value within limits for Zn 213.857 Recovery= Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 173 Autosampler Location: 126
 Sample ID: 1306374-05 Date Collected: 6/26/2013 3:23:26 AM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:58:02 AM
 Logged In Analyst (Original) : ICP3 Initial Sample Vol:
 Initial Sample Wt: Sample Prep Vol:
 Dilution:

Replicate Data: 1306374-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3560634.5	3560634.5	1.05 mg/L		03:25:18
1	Ag 328.068†	-23.2	-758.9	-0.0009 mg/L	-0.0009 mg/L	03:25:20
1	Al 237.313†	582478.7	553507.3	50.75 mg/L	50.75 mg/L	03:25:18
1	As 188.979†	32.0	29.4	0.0202 mg/L	0.0202 mg/L	03:25:30
1	B 249.677†	3.6	18.6	0.0101 mg/L	0.0101 mg/L	03:25:08
1	B 182.528†	37.8	42.8	0.0391 mg/L	0.0391 mg/L	03:25:30
1	Ba 233.527†	37651.4	35841.4	0.2723 mg/L	0.2723 mg/L	03:25:20
1	Be 313.107†	9766.2	10706.7	0.0035 mg/L	0.0035 mg/L	03:25:20
1	Ca 315.887†	2266970.6	2153425.7	19.28 mg/L	19.28 mg/L	03:25:18
1	Cd 228.802†	212.5	54.3	0.0016 mg/L	0.0016 mg/L	03:25:30
1	Co 228.616†	2643.4	2688.1	0.0361 mg/L	0.0361 mg/L	03:25:30
1	Cr 267.716†	12112.2	10790.9	0.0826 mg/L	0.0826 mg/L	03:25:20
1	Cu 324.752†	137039.8	126175.9	0.5429 mg/L	0.5429 mg/L	03:25:20
1	Fe 234.349†	173506.8	164763.1	81.56 mg/L	81.56 mg/L	03:25:06
1	K 766.490†	18545.6	16865.8	7.346 mg/L	7.346 mg/L	03:25:08
1	Li 670.784†	2733.4	2868.2	0.0692 mg/L	0.0692 mg/L	03:25:08
1	Mg 279.077†	359202.5	340809.6	22.13 mg/L	22.13 mg/L	03:25:18
1	Mn 257.610†	3143330.0	2968841.5	3.175 mg/L	3.175 mg/L	03:25:18
1	Mn 294.920†	1566849.2	1488515.4	3.175 mg/L	3.175 mg/L	03:25:18
1	Mo 202.031†	140.8	144.1	-0.0071 mg/L	-0.0071 mg/L	03:25:30
1	Na 589.592†	24783.8	19308.2	2.674 mg/L	2.674 mg/L	03:25:06
1	Ni 231.604†	3838.1	3467.5	0.0640 mg/L	0.0640 mg/L	03:25:20
1	P 214.914†	3835.8	3688.5	1.978 mg/L	1.978 mg/L	03:25:30
1	Pb 220.353†	5942.0	5459.4	0.3083 mg/L	0.3083 mg/L	03:25:30
1	Sb 206.836†	64.9	16.8	-0.0241 mg/L	-0.0241 mg/L	03:25:30
1	Se 196.026†	-13.7	-29.9	-0.0073 mg/L	-0.0073 mg/L	03:25:30
1	Sn 189.927†	-131.3	-162.1	-0.0064 mg/L	-0.0064 mg/L	03:25:30
1	Sr 407.771†	111345.8	105488.0	0.0896 mg/L	0.0896 mg/L	03:25:06
1	Ti 337.279†	2238371.8	2126848.3	2.183 mg/L	2.183 mg/L	03:25:18
1	Tl 190.801†	-2.1	5.1	-0.0365 mg/L	-0.0365 mg/L	03:25:30
1	V 292.402†	60607.7	58454.8	0.2268 mg/L	0.2268 mg/L	03:25:20
1	Zn 213.857†	32184.7	29693.1	0.1781 mg/L	0.1781 mg/L	03:25:20
2	Y 371.029	3544964.5	3544964.5	1.05 mg/L		03:25:33
2	Ag 328.068†	-9.7	-746.0	-0.0008 mg/L	-0.0008 mg/L	03:25:35
2	Al 237.313†	578613.9	552266.1	50.64 mg/L	50.64 mg/L	03:25:33
2	As 188.979†	25.7	23.5	0.0166 mg/L	0.0166 mg/L	03:25:46
2	B 249.677†	1.7	16.8	0.0094 mg/L	0.0094 mg/L	03:25:13
2	B 182.528†	37.1	42.4	0.0387 mg/L	0.0387 mg/L	03:25:46
2	Ba 233.527†	37544.5	35897.5	0.2727 mg/L	0.2727 mg/L	03:25:35
2	Be 313.107†	9752.6	10734.7	0.0035 mg/L	0.0035 mg/L	03:25:35
2	Ca 315.887†	2246835.3	2143736.6	19.20 mg/L	19.20 mg/L	03:25:33
2	Cd 228.802†	201.3	44.5	0.0013 mg/L	0.0013 mg/L	03:25:46
2	Co 228.616†	2627.6	2684.1	0.0360 mg/L	0.0360 mg/L	03:25:46
2	Cr 267.716†	12011.6	10745.7	0.0823 mg/L	0.0823 mg/L	03:25:35
2	Cu 324.752†	136878.4	126597.1	0.5447 mg/L	0.5447 mg/L	03:25:35
2	Fe 234.349†	173470.0	165456.4	81.90 mg/L	81.90 mg/L	03:25:11
2	K 766.490†	18798.0	17184.3	7.482 mg/L	7.482 mg/L	03:25:13
2	Li 670.784†	2737.5	2883.7	0.0696 mg/L	0.0696 mg/L	03:25:13
2	Mg 279.077†	356012.3	339274.6	22.03 mg/L	22.03 mg/L	03:25:33
2	Mn 257.610†	3122160.3	2961844.3	3.168 mg/L	3.168 mg/L	03:25:33
2	Mn 294.920†	1555847.8	1484599.3	3.167 mg/L	3.167 mg/L	03:25:33
2	Mo 202.031†	149.5	153.0	-0.0068 mg/L	-0.0068 mg/L	03:25:46
2	Na 589.592†	24934.8	19556.2	2.707 mg/L	2.707 mg/L	03:25:11
2	Ni 231.604†	3821.7	3467.9	0.0640 mg/L	0.0640 mg/L	03:25:35
2	P 214.914†	3851.5	3719.6	1.994 mg/L	1.994 mg/L	03:25:46
2	Pb 220.353†	5971.1	5512.0	0.3114 mg/L	0.3114 mg/L	03:25:46
2	Sb 206.836†	72.9	24.7	-0.0210 mg/L	-0.0210 mg/L	03:25:46

2	Se 196.026†	-22.5	-38.3	-0.0120 mg/L	-0.0120 mg/L	03:25:46
2	Sn 189.927†	-157.0	-187.2	-0.0095 mg/L	-0.0095 mg/L	03:25:46
2	Sr 407.771†	111319.1	105929.9	0.0900 mg/L	0.0900 mg/L	03:25:11
2	Ti 337.279†	2224351.8	2122871.8	2.179 mg/L	2.179 mg/L	03:25:33
2	Tl 190.801†	4.6	11.5	-0.0319 mg/L	-0.0319 mg/L	03:25:46
2	V 292.402†	60520.4	58625.9	0.2275 mg/L	0.2275 mg/L	03:25:35
2	Zn 213.857†	32196.6	29839.5	0.1790 mg/L	0.1790 mg/L	03:25:35

Mean Data: 1306374-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3552799.5	1.05	mg/L	0.003				0.31%
Ag 328.068†	-752.4	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	5.72%
Al 237.313†	552886.7	50.69	mg/L	0.080	50.69	mg/L	0.080	0.16%
As 188.979†	26.4	0.0184	mg/L	0.00256	0.0184	mg/L	0.00256	13.88%
B 249.677†	17.7	0.0098	mg/L	0.00051	0.0098	mg/L	0.00051	5.24%
B 182.528†	42.6	0.0389	mg/L	0.00027	0.0389	mg/L	0.00027	0.70%
Ba 233.527†	35869.4	0.2725	mg/L	0.00030	0.2725	mg/L	0.00030	0.11%
Be 313.107†	10720.7	0.0035	mg/L	0.00001	0.0035	mg/L	0.00001	0.22%
Ca 315.887†	2148581.2	19.24	mg/L	0.061	19.24	mg/L	0.061	0.32%
Cd 228.802†	49.4	0.0014	mg/L	0.00019	0.0014	mg/L	0.00019	13.19%
Co 228.616†	2686.1	0.0361	mg/L	0.00004	0.0361	mg/L	0.00004	0.11%
Cr 267.716†	10768.3	0.0824	mg/L	0.00024	0.0824	mg/L	0.00024	0.29%
Cu 324.752†	126386.5	0.5438	mg/L	0.00127	0.5438	mg/L	0.00127	0.23%
Fe 234.349†	165109.8	81.73	mg/L	0.243	81.73	mg/L	0.243	0.30%
K 766.490†	17025.0	7.414	mg/L	0.0962	7.414	mg/L	0.0962	1.30%
Li 670.784†	2875.9	0.0694	mg/L	0.00026	0.0694	mg/L	0.00026	0.37%
Mg 279.077†	340042.1	22.08	mg/L	0.070	22.08	mg/L	0.070	0.32%
Mn 257.610†	2965342.9	3.171	mg/L	0.0054	3.171	mg/L	0.0054	0.17%
Mn 294.920†	1486557.3	3.171	mg/L	0.0059	3.171	mg/L	0.0059	0.19%
Mo 202.031†	148.6	-0.0069	mg/L	0.00019	-0.0069	mg/L	0.00019	2.78%
Na 589.592†	19432.2	2.691	mg/L	0.0235	2.691	mg/L	0.0235	0.87%
Ni 231.604†	3467.7	0.0640	mg/L	0.00001	0.0640	mg/L	0.00001	0.01%
P 214.914†	3704.0	1.986	mg/L	0.0115	1.986	mg/L	0.0115	0.58%
Pb 220.353†	5485.7	0.3099	mg/L	0.00220	0.3099	mg/L	0.00220	0.71%
Sb 206.836†	20.8	-0.0225	mg/L	0.00218	-0.0225	mg/L	0.00218	9.67%
Se 196.026†	-34.1	-0.0096	mg/L	0.00330	-0.0096	mg/L	0.00330	34.25%
Sn 189.927†	-174.7	-0.0080	mg/L	0.00222	-0.0080	mg/L	0.00222	27.77%
Sr 407.771†	105708.9	0.0898	mg/L	0.00026	0.0898	mg/L	0.00026	0.29%
Ti 337.279†	2124860.1	2.181	mg/L	0.0029	2.181	mg/L	0.0029	0.13%
Tl 190.801†	8.3	-0.0342	mg/L	0.00331	-0.0342	mg/L	0.00331	9.67%
V 292.402†	58540.3	0.2271	mg/L	0.00048	0.2271	mg/L	0.00048	0.21%
Zn 213.857†	29766.3	0.1785	mg/L	0.00062	0.1785	mg/L	0.00062	0.35%

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Sequence No.: 174	Autosampler Location: 127
Sample ID: 1306374-06	Date Collected: 6/26/2013 3:27:23 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:58:03 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1306374-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3557352.5	3557352.5	1.05	mg/L			03:29:17
1	Ag 328.068†	-73.6	-806.8	-0.0010	mg/L	-0.0010	mg/L	03:29:19
1	Al 237.313†	510370.7	485480.9	44.51	mg/L	44.51	mg/L	03:29:17
1	As 188.979†	29.7	27.2	0.0189	mg/L	0.0189	mg/L	03:29:29
1	B 249.677†	-8.4	7.3	0.0055	mg/L	0.0055	mg/L	03:29:07
1	B 182.528†	33.0	38.3	0.0354	mg/L	0.0354	mg/L	03:29:29
1	Ba 233.527†	42978.3	40937.5	0.3109	mg/L	0.3109	mg/L	03:29:19
1	Be 313.107†	9821.9	10768.2	0.0034	mg/L	0.0034	mg/L	03:29:19
1	Ca 315.887†	2129289.5	2024549.6	18.13	mg/L	18.13	mg/L	03:29:17
1	Cd 228.802†	199.2	41.9	0.0011	mg/L	0.0011	mg/L	03:29:29
1	Co 228.616†	2858.0	2894.4	0.0389	mg/L	0.0389	mg/L	03:29:29
1	Cr 267.716†	10653.5	9415.0	0.0721	mg/L	0.0721	mg/L	03:29:19
1	Cu 324.752†	40174.6	34228.2	0.1504	mg/L	0.1504	mg/L	03:29:19
1	Fe 234.349†	188571.4	179233.6	88.73	mg/L	88.73	mg/L	03:29:05
1	K 766.490†	16939.8	15355.7	6.701	mg/L	6.701	mg/L	03:29:07
1	Li 670.784†	3213.4	3326.9	0.0800	mg/L	0.0800	mg/L	03:29:07

1	Mg	279.077†	336826.7	319856.8	20.77	mg/L	20.77	mg/L	03:29:17
1	Mn	257.610†	3805937.6	3601385.8	3.854	mg/L	3.854	mg/L	03:29:17
1	Mn	294.920†	1897163.4	1803842.8	3.847	mg/L	3.847	mg/L	03:29:17
1	Mo	202.031†	90.8	96.7	-0.0077	mg/L	-0.0077	mg/L	03:29:19
1	Na	589.592†	22062.7	16743.5	2.331	mg/L	2.331	mg/L	03:29:05
1	Ni	231.604†	3767.4	3403.7	0.0628	mg/L	0.0628	mg/L	03:29:29
1	P	214.914†	5424.5	5201.9	2.775	mg/L	2.775	mg/L	03:29:29
1	Pb	220.353†	1288.4	1041.5	0.0518	mg/L	0.0518	mg/L	03:29:29
1	Sb	206.836†	70.6	22.3	-0.0248	mg/L	-0.0248	mg/L	03:29:29
1	Se	196.026†	-9.3	-25.7	-0.0046	mg/L	-0.0046	mg/L	03:29:29
1	Sn	189.927†	-188.0	-216.2	-0.0138	mg/L	-0.0138	mg/L	03:29:29
1	Sr	407.771†	73544.8	69656.7	0.0593	mg/L	0.0593	mg/L	03:29:05
1	Ti	337.279†	2474879.3	2353603.2	2.415	mg/L	2.415	mg/L	03:29:17
1	Tl	190.801†	-1.1	6.1	-0.0388	mg/L	-0.0388	mg/L	03:29:29
1	V	292.402†	59746.9	57689.7	0.2233	mg/L	0.2233	mg/L	03:29:19
1	Zn	213.857†	28418.4	26141.5	0.1564	mg/L	0.1564	mg/L	03:29:19
2	Y	371.029	3595626.4	3595626.4	1.06	mg/L	1.06	mg/L	03:29:32
2	Ag	328.068†	-49.9	-783.7	-0.0008	mg/L	-0.0008	mg/L	03:29:34
2	Al	237.313†	513142.7	482924.0	44.28	mg/L	44.28	mg/L	03:29:32
2	As	188.979†	22.0	19.7	0.0143	mg/L	0.0143	mg/L	03:29:45
2	B	249.677†	5.7	20.6	0.0109	mg/L	0.0109	mg/L	03:29:12
2	B	182.528†	41.9	46.4	0.0420	mg/L	0.0420	mg/L	03:29:45
2	Ba	233.527†	42683.4	40225.4	0.3055	mg/L	0.3055	mg/L	03:29:34
2	Be	313.107†	9738.0	10589.9	0.0034	mg/L	0.0034	mg/L	03:29:34
2	Ca	315.887†	2140260.1	2013323.1	18.03	mg/L	18.03	mg/L	03:29:32
2	Cd	228.802†	193.4	34.4	0.0009	mg/L	0.0009	mg/L	03:29:45
2	Co	228.616†	2854.7	2862.3	0.0384	mg/L	0.0384	mg/L	03:29:45
2	Cr	267.716†	10539.4	9200.0	0.0705	mg/L	0.0705	mg/L	03:29:34
2	Cu	324.752†	39820.3	33488.6	0.1472	mg/L	0.1472	mg/L	03:29:34
2	Fe	234.349†	190605.3	179238.4	88.73	mg/L	88.73	mg/L	03:29:10
2	K	766.490†	16762.6	15017.7	6.556	mg/L	6.556	mg/L	03:29:12
2	Li	670.784†	3171.2	3254.7	0.0783	mg/L	0.0783	mg/L	03:29:12
2	Mg	279.077†	338696.4	318207.2	20.67	mg/L	20.67	mg/L	03:29:32
2	Mn	257.610†	3823785.5	3579663.2	3.831	mg/L	3.831	mg/L	03:29:32
2	Mn	294.920†	1905676.6	1792653.9	3.824	mg/L	3.824	mg/L	03:29:32
2	Mo	202.031†	140.5	142.5	-0.0060	mg/L	-0.0060	mg/L	03:29:34
2	Na	589.592†	22483.7	16916.2	2.354	mg/L	2.354	mg/L	03:29:10
2	Ni	231.604†	3817.8	3412.9	0.0630	mg/L	0.0630	mg/L	03:29:45
2	P	214.914†	5421.3	5144.0	2.745	mg/L	2.745	mg/L	03:29:45
2	Pb	220.353†	1289.5	1029.5	0.0511	mg/L	0.0511	mg/L	03:29:45
2	Sb	206.836†	65.4	16.7	-0.0271	mg/L	-0.0271	mg/L	03:29:45
2	Se	196.026†	-6.5	-23.0	-0.0030	mg/L	-0.0030	mg/L	03:29:45
2	Sn	189.927†	-157.3	-185.4	-0.0100	mg/L	-0.0100	mg/L	03:29:45
2	Sr	407.771†	74303.5	69626.0	0.0592	mg/L	0.0592	mg/L	03:29:10
2	Ti	337.279†	2485204.9	2338273.7	2.400	mg/L	2.400	mg/L	03:29:32
2	Tl	190.801†	-7.1	0.5	-0.0430	mg/L	-0.0430	mg/L	03:29:45
2	V	292.402†	59365.5	56726.5	0.2196	mg/L	0.2196	mg/L	03:29:34
2	Zn	213.857†	28281.4	25725.2	0.1539	mg/L	0.1539	mg/L	03:29:34

Mean Data: 1306374-06

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3576489.5	1.06	mg/L	0.008				0.76%
Ag 328.068†	-795.2	-0.0009	mg/L	0.00008	-0.0009	mg/L	0.00008	8.63%
Al 237.313†	484202.4	44.40	mg/L	0.166	44.40	mg/L	0.166	0.37%
As 188.979†	23.5	0.0166	mg/L	0.00326	0.0166	mg/L	0.00326	19.63%
B 249.677†	13.9	0.0082	mg/L	0.00384	0.0082	mg/L	0.00384	46.86%
B 182.528†	42.3	0.0387	mg/L	0.00467	0.0387	mg/L	0.00467	12.07%
Ba 233.527†	40581.4	0.3082	mg/L	0.00382	0.3082	mg/L	0.00382	1.24%
Be 313.107†	10679.1	0.0034	mg/L	0.00004	0.0034	mg/L	0.00004	1.23%
Ca 315.887†	2018936.3	18.08	mg/L	0.071	18.08	mg/L	0.071	0.39%
Cd 228.802†	38.2	0.0010	mg/L	0.00014	0.0010	mg/L	0.00014	14.05%
Co 228.616†	2878.3	0.0386	mg/L	0.00034	0.0386	mg/L	0.00034	0.87%
Cr 267.716†	9307.5	0.0713	mg/L	0.00116	0.0713	mg/L	0.00116	1.62%
Cu 324.752†	33858.4	0.1488	mg/L	0.00225	0.1488	mg/L	0.00225	1.51%
Fe 234.349†	179236.0	88.73	mg/L	0.002	88.73	mg/L	0.002	0.00%
K 766.490†	15186.7	6.629	mg/L	0.1021	6.629	mg/L	0.1021	1.54%
Li 670.784†	3290.8	0.0792	mg/L	0.00120	0.0792	mg/L	0.00120	1.51%
Mg 279.077†	319032.0	20.72	mg/L	0.076	20.72	mg/L	0.076	0.37%
Mn 257.610†	3590524.5	3.842	mg/L	0.0165	3.842	mg/L	0.0165	0.43%
Mn 294.920†	1798248.3	3.836	mg/L	0.0169	3.836	mg/L	0.0169	0.44%
Mo 202.031†	119.6	-0.0069	mg/L	0.00123	-0.0069	mg/L	0.00123	17.95%

Na 589.592†	16829.9	2.342 mg/L	0.0164	2.342 mg/L	0.0164	0.70%
Ni 231.604†	3408.3	0.0629 mg/L	0.00012	0.0629 mg/L	0.00012	0.20%
P 214.914†	5172.9	2.760 mg/L	0.0215	2.760 mg/L	0.0215	0.78%
Pb 220.353†	1035.5	0.0514 mg/L	0.00045	0.0514 mg/L	0.00045	0.87%
Sb 206.836†	19.5	-0.0259 mg/L	0.00159	-0.0259 mg/L	0.00159	6.13%
Se 196.026†	-24.3	-0.0038 mg/L	0.00107	-0.0038 mg/L	0.00107	28.17%
Sn 189.927†	-200.8	-0.0119 mg/L	0.00263	-0.0119 mg/L	0.00263	22.12%
Sr 407.771†	69641.4	0.0592 mg/L	0.00002	0.0592 mg/L	0.00002	0.03%
Ti 337.279†	2345938.5	2.407 mg/L	0.0111	2.407 mg/L	0.0111	0.46%
Tl 190.801†	3.3	-0.0409 mg/L	0.00297	-0.0409 mg/L	0.00297	7.26%
V 292.402†	57208.1	0.2214 mg/L	0.00263	0.2214 mg/L	0.00263	1.19%
Zn 213.857†	25933.3	0.1552 mg/L	0.00181	0.1552 mg/L	0.00181	1.16%

Sequence No.: 175
Sample ID: 1306374-07
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 6/26/2013 3:31:23 AM
Data Type: Reprocessed on 6/26/2013 10:58:04 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306374-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3530766.5	3530766.5	1.04 mg/L		03:33:16
1	Ag 328.068†	-76.6	-810.1	-0.0010 mg/L	-0.0010 mg/L	03:33:18
1	Al 237.313†	573749.8	549827.2	50.41 mg/L	50.41 mg/L	03:33:16
1	As 188.979†	33.0	30.6	0.0209 mg/L	0.0209 mg/L	03:33:28
1	B 249.677†	-25.6	-9.3	-0.0013 mg/L	-0.0013 mg/L	03:33:06
1	B 182.528†	40.1	45.3	0.0411 mg/L	0.0411 mg/L	03:33:28
1	Ba 233.527†	43572.8	41814.4	0.3176 mg/L	0.3176 mg/L	03:33:18
1	Be 313.107†	9760.6	10779.8	0.0035 mg/L	0.0035 mg/L	03:33:18
1	Ca 315.887†	1426341.8	1366625.1	12.24 mg/L	12.24 mg/L	03:33:16
1	Cd 228.802†	200.2	44.3	0.0012 mg/L	0.0012 mg/L	03:33:28
1	Co 228.616†	2727.0	2789.4	0.0374 mg/L	0.0374 mg/L	03:33:28
1	Cr 267.716†	11914.2	10698.6	0.0819 mg/L	0.0819 mg/L	03:33:18
1	Cu 324.752†	33333.4	27964.4	0.1236 mg/L	0.1236 mg/L	03:33:18
1	Fe 234.349†	180674.5	173020.9	85.66 mg/L	85.66 mg/L	03:33:04
1	K 766.490†	17225.2	15750.3	6.869 mg/L	6.869 mg/L	03:33:06
1	Li 670.784†	2940.3	3088.3	0.0744 mg/L	0.0744 mg/L	03:33:06
1	Mg 279.077†	352637.2	337408.0	21.91 mg/L	21.91 mg/L	03:33:16
1	Mn 257.610†	3559534.3	3392661.4	3.630 mg/L	3.630 mg/L	03:33:16
1	Mn 294.920†	1774317.5	1699779.7	3.626 mg/L	3.626 mg/L	03:33:16
1	Mo 202.031†	74.3	81.6	-0.0077 mg/L	-0.0077 mg/L	03:33:18
1	Na 589.592†	19678.2	14618.0	2.046 mg/L	2.046 mg/L	03:33:06
1	Ni 231.604†	3473.5	3149.2	0.0581 mg/L	0.0581 mg/L	03:33:28
1	P 214.914†	3845.9	3729.0	2.003 mg/L	2.003 mg/L	03:33:28
1	Pb 220.353†	1451.1	1206.5	0.0600 mg/L	0.0600 mg/L	03:33:28
1	Sb 206.836†	63.1	15.6	-0.0263 mg/L	-0.0263 mg/L	03:33:28
1	Se 196.026†	-1.8	-18.6	-0.0008 mg/L	-0.0008 mg/L	03:33:28
1	Sn 189.927†	-70.9	-105.4	-0.0038 mg/L	-0.0038 mg/L	03:33:28
1	Sr 407.771†	139473.5	133318.3	0.1131 mg/L	0.1131 mg/L	03:33:04
1	Ti 337.279†	2387228.6	2287378.8	2.347 mg/L	2.347 mg/L	03:33:16
1	Tl 190.801†	-7.9	-0.5	-0.0416 mg/L	-0.0416 mg/L	03:33:28
1	V 292.402†	68507.1	66506.2	0.2579 mg/L	0.2579 mg/L	03:33:18
1	Zn 213.857†	26521.6	24528.4	0.1467 mg/L	0.1467 mg/L	03:33:18
2	Y 371.029	3520887.4	3520887.4	1.04 mg/L		03:33:31
2	Ag 328.068†	84.5	-655.6	-0.0003 mg/L	-0.0003 mg/L	03:33:33
2	Al 237.313†	570333.4	548088.1	50.25 mg/L	50.25 mg/L	03:33:31
2	As 188.979†	36.4	33.9	0.0229 mg/L	0.0229 mg/L	03:33:44
2	B 249.677†	-12.3	3.4	0.0039 mg/L	0.0039 mg/L	03:33:11
2	B 182.528†	41.8	47.1	0.0426 mg/L	0.0426 mg/L	03:33:44
2	Ba 233.527†	43244.1	41615.7	0.3161 mg/L	0.3161 mg/L	03:33:33
2	Be 313.107†	9653.9	10703.5	0.0034 mg/L	0.0034 mg/L	03:33:33
2	Ca 315.887†	1420216.9	1364575.9	12.22 mg/L	12.22 mg/L	03:33:31
2	Cd 228.802†	197.3	42.0	0.0012 mg/L	0.0012 mg/L	03:33:44
2	Co 228.616†	2723.7	2793.5	0.0374 mg/L	0.0374 mg/L	03:33:44
2	Cr 267.716†	11687.7	10513.1	0.0805 mg/L	0.0805 mg/L	03:33:33
2	Cu 324.752†	33036.9	27769.2	0.1227 mg/L	0.1227 mg/L	03:33:33
2	Fe 234.349†	180748.4	173577.4	85.94 mg/L	85.94 mg/L	03:33:09
2	K 766.490†	17767.1	16317.0	7.111 mg/L	7.111 mg/L	03:33:11
2	Li 670.784†	3056.8	3208.1	0.0772 mg/L	0.0772 mg/L	03:33:11

2	Mg	279.077†	350742.4	336535.9	21.86	mg/L	21.86	mg/L	03:33:31
2	Mn	257.610†	3542038.1	3385423.8	3.622	mg/L	3.622	mg/L	03:33:31
2	Mn	294.920†	1766541.3	1697079.6	3.620	mg/L	3.620	mg/L	03:33:31
2	Mo	202.031†	-32.5	-20.8	-0.0116	mg/L	-0.0116	mg/L	03:33:33
2	Na	589.592†	20311.5	15279.0	2.134	mg/L	2.134	mg/L	03:33:11
2	Ni	231.604†	3518.6	3201.8	0.0591	mg/L	0.0591	mg/L	03:33:44
2	P	214.914†	3854.9	3748.0	2.013	mg/L	2.013	mg/L	03:33:44
2	Pb	220.353†	1449.3	1208.7	0.0601	mg/L	0.0601	mg/L	03:33:44
2	Sb	206.836†	76.7	28.8	-0.0210	mg/L	-0.0210	mg/L	03:33:44
2	Se	196.026†	-17.4	-33.6	-0.0091	mg/L	-0.0091	mg/L	03:33:44
2	Sn	189.927†	-74.6	-109.1	-0.0043	mg/L	-0.0043	mg/L	03:33:44
2	Sr	407.771†	139658.1	133870.4	0.1136	mg/L	0.1136	mg/L	03:33:09
2	Ti	337.279†	2375189.1	2282231.4	2.342	mg/L	2.342	mg/L	03:33:31
2	Tl	190.801†	-11.8	-4.3	-0.0446	mg/L	-0.0446	mg/L	03:33:44
2	V	292.402†	68012.9	66215.7	0.2567	mg/L	0.2567	mg/L	03:33:33
2	Zn	213.857†	26237.9	24327.2	0.1455	mg/L	0.1455	mg/L	03:33:33

Mean Data: 1306374-07

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3525827.0	1.04	mg/L	0.002				0.20%
Ag 328.068†	-732.9	-0.0007	mg/L	0.00053	-0.0007	mg/L	0.00053	79.18%
Al 237.313†	548957.7	50.33	mg/L	0.113	50.33	mg/L	0.113	0.22%
As 188.979†	32.2	0.0219	mg/L	0.00144	0.0219	mg/L	0.00144	6.56%
B 249.677†	-2.9	0.0013	mg/L	0.00365	0.0013	mg/L	0.00365	275.80%
B 182.528†	46.2	0.0419	mg/L	0.00104	0.0419	mg/L	0.00104	2.48%
Ba 233.527†	41715.1	0.3168	mg/L	0.00106	0.3168	mg/L	0.00106	0.34%
Be 313.107†	10741.7	0.0034	mg/L	0.00002	0.0034	mg/L	0.00002	0.53%
Ca 315.887†	1365600.5	12.23	mg/L	0.013	12.23	mg/L	0.013	0.11%
Cd 228.802†	43.1	0.0012	mg/L	0.00005	0.0012	mg/L	0.00005	3.84%
Co 228.616†	2791.5	0.0374	mg/L	0.00005	0.0374	mg/L	0.00005	0.14%
Cr 267.716†	10605.8	0.0812	mg/L	0.00100	0.0812	mg/L	0.00100	1.23%
Cu 324.752†	27866.8	0.1232	mg/L	0.00059	0.1232	mg/L	0.00059	0.48%
Fe 234.349†	173299.1	85.80	mg/L	0.195	85.80	mg/L	0.195	0.23%
K 766.490†	16033.6	6.990	mg/L	0.1711	6.990	mg/L	0.1711	2.45%
Li 670.784†	3148.2	0.0758	mg/L	0.00199	0.0758	mg/L	0.00199	2.62%
Mg 279.077†	336971.9	21.89	mg/L	0.040	21.89	mg/L	0.040	0.18%
Mn 257.610†	3389042.6	3.626	mg/L	0.0055	3.626	mg/L	0.0055	0.15%
Mn 294.920†	1698429.6	3.623	mg/L	0.0041	3.623	mg/L	0.0041	0.11%
Mo 202.031†	30.4	-0.0096	mg/L	0.00274	-0.0096	mg/L	0.00274	28.52%
Na 589.592†	14948.5	2.090	mg/L	0.0626	2.090	mg/L	0.0626	3.00%
Ni 231.604†	3175.5	0.0586	mg/L	0.00069	0.0586	mg/L	0.00069	1.18%
P 214.914†	3738.5	2.008	mg/L	0.0071	2.008	mg/L	0.0071	0.35%
Pb 220.353†	1207.6	0.0600	mg/L	0.00011	0.0600	mg/L	0.00011	0.19%
Sb 206.836†	22.2	-0.0237	mg/L	0.00372	-0.0237	mg/L	0.00372	15.71%
Se 196.026†	-26.1	-0.0049	mg/L	0.00585	-0.0049	mg/L	0.00585	118.46%
Sn 189.927†	-107.2	-0.0040	mg/L	0.00033	-0.0040	mg/L	0.00033	8.16%
Sr 407.771†	133594.4	0.1134	mg/L	0.00033	0.1134	mg/L	0.00033	0.29%
Ti 337.279†	2284805.1	2.345	mg/L	0.0037	2.345	mg/L	0.0037	0.16%
Tl 190.801†	-2.4	-0.0431	mg/L	0.00211	-0.0431	mg/L	0.00211	4.88%
V 292.402†	66361.0	0.2573	mg/L	0.00084	0.2573	mg/L	0.00084	0.33%
Zn 213.857†	24427.8	0.1461	mg/L	0.00089	0.1461	mg/L	0.00089	0.61%

Sequence No.: 176

Sample ID: 1306374-08

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 129

Date Collected: 6/26/2013 3:35:22 AM

Data Type: Reprocessed on 6/26/2013 10:58:04 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306374-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3537044.2	3537044.2	1.05	mg/L			03:37:17
1	Ag 328.068†	196.5	-548.9	0.0000	mg/L	0.0000	mg/L	03:37:19
1	Al 237.313†	550387.2	526519.1	48.28	mg/L	48.28	mg/L	03:37:17
1	As 188.979†	27.8	25.5	0.0179	mg/L	0.0179	mg/L	03:37:29
1	B 249.677†	-1.4	13.8	0.0082	mg/L	0.0082	mg/L	03:37:07
1	B 182.528†	35.4	40.8	0.0374	mg/L	0.0374	mg/L	03:37:29
1	Ba 233.527†	44687.2	42805.6	0.3251	mg/L	0.3251	mg/L	03:37:19

1	Be	313.107†	9911.7	10907.7	0.0034	mg/L	0.0034	mg/L	03:37:19
1	Ca	315.887†	1740029.7	1664064.6	14.90	mg/L	14.90	mg/L	03:37:17
1	Cd	228.802†	260.4	101.5	0.0029	mg/L	0.0029	mg/L	03:37:29
1	Co	228.616†	2691.7	2751.0	0.0363	mg/L	0.0363	mg/L	03:37:29
1	Cr	267.716†	12428.2	11169.7	0.0855	mg/L	0.0855	mg/L	03:37:19
1	Cu	324.752†	105955.3	97329.2	0.4201	mg/L	0.4201	mg/L	03:37:19
1	Fe	234.349†	167185.0	159818.8	79.12	mg/L	79.12	mg/L	03:37:05
1	K	766.490†	17810.1	16280.1	7.096	mg/L	7.096	mg/L	03:37:07
1	Li	670.784†	2880.9	3026.5	0.0730	mg/L	0.0730	mg/L	03:37:07
1	Mg	279.077†	336993.1	321853.9	20.90	mg/L	20.90	mg/L	03:37:17
1	Mn	257.610†	3190235.2	3033587.3	3.245	mg/L	3.245	mg/L	03:37:17
1	Mn	294.920†	1589181.1	1519786.5	3.242	mg/L	3.242	mg/L	03:37:17
1	Mo	202.031†	67.5	74.9	-0.0086	mg/L	-0.0086	mg/L	03:37:29
1	Na	589.592†	18878.7	13820.3	1.939	mg/L	1.939	mg/L	03:37:07
1	Ni	231.604†	4019.8	3665.5	0.0677	mg/L	0.0677	mg/L	03:37:19
1	P	214.914†	3695.3	3578.5	1.921	mg/L	1.921	mg/L	03:37:29
1	Pb	220.353†	1359.6	1116.5	0.0551	mg/L	0.0551	mg/L	03:37:29
1	Sb	206.836†	68.0	20.2	-0.0217	mg/L	-0.0217	mg/L	03:37:29
1	Se	196.026†	-9.6	-26.1	-0.0053	mg/L	-0.0053	mg/L	03:37:29
1	Sn	189.927†	-148.3	-179.3	-0.0112	mg/L	-0.0112	mg/L	03:37:29
1	Sr	407.771†	79232.8	75495.4	0.0642	mg/L	0.0642	mg/L	03:37:05
1	Ti	337.279†	2626892.2	2512423.0	2.578	mg/L	2.578	mg/L	03:37:17
1	Tl	190.801†	-0.1	7.0	-0.0332	mg/L	-0.0332	mg/L	03:37:29
1	V	292.402†	54919.0	53400.5	0.2062	mg/L	0.2062	mg/L	03:37:19
1	Zn	213.857†	43515.4	40728.3	0.2461	mg/L	0.2461	mg/L	03:37:19
2	Y	371.029	3532257.9	3532257.9	1.04	mg/L			03:37:32
2	Ag	328.068†	137.5	-605.2	-0.0002	mg/L	-0.0002	mg/L	03:37:34
2	Al	237.313†	549279.6	526171.7	48.24	mg/L	48.24	mg/L	03:37:32
2	As	188.979†	27.3	25.1	0.0176	mg/L	0.0176	mg/L	03:37:45
2	B	249.677†	-7.4	8.2	0.0059	mg/L	0.0059	mg/L	03:37:12
2	B	182.528†	36.9	42.3	0.0387	mg/L	0.0387	mg/L	03:37:45
2	Ba	233.527†	44820.9	42991.4	0.3265	mg/L	0.3265	mg/L	03:37:34
2	Be	313.107†	9777.1	10791.7	0.0034	mg/L	0.0034	mg/L	03:37:34
2	Ca	315.887†	1735103.0	1661602.4	14.88	mg/L	14.88	mg/L	03:37:32
2	Cd	228.802†	257.4	99.0	0.0028	mg/L	0.0028	mg/L	03:37:45
2	Co	228.616†	2724.9	2786.3	0.0368	mg/L	0.0368	mg/L	03:37:45
2	Cr	267.716†	12428.3	11185.8	0.0856	mg/L	0.0856	mg/L	03:37:34
2	Cu	324.752†	105993.3	97502.8	0.4209	mg/L	0.4209	mg/L	03:37:34
2	Fe	234.349†	166188.3	159081.3	78.75	mg/L	78.75	mg/L	03:37:10
2	K	766.490†	17785.9	16280.0	7.095	mg/L	7.095	mg/L	03:37:12
2	Li	670.784†	3009.4	3153.3	0.0759	mg/L	0.0759	mg/L	03:37:12
2	Mg	279.077†	336015.0	321354.2	20.87	mg/L	20.87	mg/L	03:37:32
2	Mn	257.610†	3185435.0	3033124.7	3.245	mg/L	3.245	mg/L	03:37:32
2	Mn	294.920†	1585984.9	1518785.5	3.239	mg/L	3.239	mg/L	03:37:32
2	Mo	202.031†	101.7	107.8	-0.0073	mg/L	-0.0073	mg/L	03:37:45
2	Na	589.592†	18821.7	13790.1	1.935	mg/L	1.935	mg/L	03:37:12
2	Ni	231.604†	4078.1	3726.5	0.0688	mg/L	0.0688	mg/L	03:37:34
2	P	214.914†	3686.4	3574.8	1.919	mg/L	1.919	mg/L	03:37:45
2	Pb	220.353†	1377.9	1135.8	0.0562	mg/L	0.0562	mg/L	03:37:45
2	Sb	206.836†	72.4	24.5	-0.0198	mg/L	-0.0198	mg/L	03:37:45
2	Se	196.026†	-8.4	-24.9	-0.0047	mg/L	-0.0047	mg/L	03:37:45
2	Sn	189.927†	-152.5	-183.4	-0.0117	mg/L	-0.0117	mg/L	03:37:45
2	Sr	407.771†	78665.7	75055.2	0.0638	mg/L	0.0638	mg/L	03:37:10
2	Ti	337.279†	2624110.8	2513163.2	2.579	mg/L	2.579	mg/L	03:37:32
2	Tl	190.801†	0.3	7.5	-0.0328	mg/L	-0.0328	mg/L	03:37:45
2	V	292.402†	54886.0	53440.1	0.2063	mg/L	0.2063	mg/L	03:37:34
2	Zn	213.857†	43585.0	40851.2	0.2469	mg/L	0.2469	mg/L	03:37:34

Mean Data: 1306374-08

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3534651.0	1.05	mg/L	0.001				0.10%
Ag 328.068†	-577.1	-0.0001	mg/L	0.00020	-0.0001	mg/L	0.00020	192.92%
Al 237.313†	526345.4	48.26	mg/L	0.023	48.26	mg/L	0.023	0.05%
As 188.979†	25.3	0.0178	mg/L	0.00017	0.0178	mg/L	0.00017	0.93%
B 249.677†	11.0	0.0070	mg/L	0.00164	0.0070	mg/L	0.00164	23.34%
B 182.528†	41.6	0.0380	mg/L	0.00086	0.0380	mg/L	0.00086	2.26%
Ba 233.527†	42898.5	0.3258	mg/L	0.00100	0.3258	mg/L	0.00100	0.31%
Be 313.107†	10849.7	0.0034	mg/L	0.00003	0.0034	mg/L	0.00003	0.85%
Ca 315.887†	1662833.5	14.89	mg/L	0.016	14.89	mg/L	0.016	0.10%
Cd 228.802†	100.2	0.0028	mg/L	0.00004	0.0028	mg/L	0.00004	1.51%
Co 228.616†	2768.6	0.0365	mg/L	0.00040	0.0365	mg/L	0.00040	1.09%

Cr 267.716†	11177.7	0.0855 mg/L	0.00009	0.0855 mg/L	0.00009	0.10%
Cu 324.752†	97416.0	0.4205 mg/L	0.00052	0.4205 mg/L	0.00052	0.12%
Fe 234.349†	159450.0	78.94 mg/L	0.258	78.94 mg/L	0.258	0.33%
K 766.490†	16280.0	7.096 mg/L	0.0000	7.096 mg/L	0.0000	0.00%
Li 670.784†	3089.9	0.0745 mg/L	0.00210	0.0745 mg/L	0.00210	2.83%
Mg 279.077†	321604.1	20.89 mg/L	0.023	20.89 mg/L	0.023	0.11%
Mn 257.610†	3033356.0	3.245 mg/L	0.0003	3.245 mg/L	0.0003	0.01%
Mn 294.920†	1519286.0	3.241 mg/L	0.0015	3.241 mg/L	0.0015	0.05%
Mo 202.031†	91.4	-0.0080 mg/L	0.00091	-0.0080 mg/L	0.00091	11.40%
Na 589.592†	13805.2	1.937 mg/L	0.0029	1.937 mg/L	0.0029	0.15%
Ni 231.604†	3696.0	0.0683 mg/L	0.00080	0.0683 mg/L	0.00080	1.18%
P 214.914†	3576.6	1.920 mg/L	0.0014	1.920 mg/L	0.0014	0.07%
Pb 220.353†	1126.2	0.0556 mg/L	0.00081	0.0556 mg/L	0.00081	1.45%
Sb 206.836†	22.4	-0.0207 mg/L	0.00137	-0.0207 mg/L	0.00137	6.59%
Se 196.026†	-25.5	-0.0050 mg/L	0.00043	-0.0050 mg/L	0.00043	8.58%
Sn 189.927†	-181.4	-0.0115 mg/L	0.00037	-0.0115 mg/L	0.00037	3.22%
Sr 407.771†	75275.3	0.0640 mg/L	0.00026	0.0640 mg/L	0.00026	0.41%
Ti 337.279†	2512793.1	2.578 mg/L	0.0005	2.578 mg/L	0.0005	0.02%
Tl 190.801†	7.2	-0.0330 mg/L	0.00033	-0.0330 mg/L	0.00033	1.01%
V 292.402†	53420.3	0.2063 mg/L	0.00012	0.2063 mg/L	0.00012	0.06%
Zn 213.857†	40789.7	0.2465 mg/L	0.00054	0.2465 mg/L	0.00054	0.22%

Sequence No.: 177
Sample ID: CF32509-DUP1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 130
Date Collected: 6/26/2013 3:39:23 AM
Data Type: Reprocessed on 6/26/2013 10:58:05 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32509-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Analysis Time
1	Y 371.029	3561211.3	3561211.3	1.05	mg/L		03:41:17
1	Ag 328.068†	23.5	-714.5	-0.0008	mg/L	-0.0008 mg/L	03:41:19
1	Al 237.313†	531802.6	505303.6	46.33	mg/L	46.33 mg/L	03:41:17
1	As 188.979†	28.5	26.1	0.0182	mg/L	0.0182 mg/L	03:41:29
1	B 249.677†	5.9	20.8	0.0110	mg/L	0.0110 mg/L	03:41:07
1	B 182.528†	28.2	33.8	0.0316	mg/L	0.0316 mg/L	03:41:29
1	Ba 233.527†	40743.1	38771.0	0.2945	mg/L	0.2945 mg/L	03:41:19
1	Be 313.107†	9480.8	10434.2	0.0033	mg/L	0.0033 mg/L	03:41:19
1	Ca 315.887†	1716832.5	1630752.3	14.61	mg/L	14.61 mg/L	03:41:17
1	Cd 228.802†	260.6	99.9	0.0029	mg/L	0.0029 mg/L	03:41:29
1	Co 228.616†	2599.5	2646.0	0.0350	mg/L	0.0350 mg/L	03:41:29
1	Cr 267.716†	10105.9	8884.1	0.0681	mg/L	0.0681 mg/L	03:41:19
1	Cu 324.752†	114085.1	104360.6	0.4499	mg/L	0.4499 mg/L	03:41:19
1	Fe 234.349†	161933.2	153748.0	76.11	mg/L	76.11 mg/L	03:41:05
1	K 766.490†	17754.1	16111.4	7.023	mg/L	7.023 mg/L	03:41:07
1	Li 670.784†	2821.4	2951.4	0.0712	mg/L	0.0712 mg/L	03:41:07
1	Mg 279.077†	313309.0	297181.2	19.30	mg/L	19.30 mg/L	03:41:17
1	Mn 257.610†	3270472.9	3089073.0	3.306	mg/L	3.306 mg/L	03:41:17
1	Mn 294.920†	1627880.4	1546220.0	3.298	mg/L	3.298 mg/L	03:41:17
1	Mo 202.031†	88.6	94.5	-0.0076	mg/L	-0.0076 mg/L	03:41:29
1	Na 589.592†	19658.6	14438.3	2.022	mg/L	2.022 mg/L	03:41:07
1	Ni 231.604†	3945.9	3569.2	0.0659	mg/L	0.0659 mg/L	03:41:29
1	P 214.914†	4527.0	4344.2	2.322	mg/L	2.322 mg/L	03:41:29
1	Pb 220.353†	1362.7	1110.7	0.0552	mg/L	0.0552 mg/L	03:41:29
1	Sb 206.836†	70.0	21.6	-0.0197	mg/L	-0.0197 mg/L	03:41:29
1	Se 196.026†	-18.5	-34.4	-0.0101	mg/L	-0.0101 mg/L	03:41:29
1	Sn 189.927†	-114.0	-145.7	-0.0073	mg/L	-0.0073 mg/L	03:41:29
1	Sr 407.771†	76561.2	72444.8	0.0616	mg/L	0.0616 mg/L	03:41:05
1	Ti 337.279†	2429115.3	2307604.1	2.368	mg/L	2.368 mg/L	03:41:17
1	Tl 190.801†	-3.2	4.1	-0.0341	mg/L	-0.0341 mg/L	03:41:29
1	V 292.402†	55205.4	53316.2	0.2062	mg/L	0.2062 mg/L	03:41:19
1	Zn 213.857†	41348.9	38389.0	0.2318	mg/L	0.2318 mg/L	03:41:19
2	Y 371.029	3553749.7	3553749.7	1.05	mg/L		03:41:32
2	Ag 328.068†	-38.1	-773.0	-0.0011	mg/L	-0.0011 mg/L	03:41:34
2	Al 237.313†	532958.7	507463.7	46.53	mg/L	46.53 mg/L	03:41:32
2	As 188.979†	38.2	35.3	0.0239	mg/L	0.0239 mg/L	03:41:44
2	B 249.677†	-9.0	6.6	0.0052	mg/L	0.0052 mg/L	03:41:12
2	B 182.528†	32.2	37.6	0.0347	mg/L	0.0347 mg/L	03:41:44
2	Ba 233.527†	40881.6	38984.0	0.2961	mg/L	0.2961 mg/L	03:41:34

2	Be	313.107†	9386.2	10363.2	0.0033	mg/L	0.0033	mg/L	03:41:34
2	Ca	315.887†	1720775.7	1637926.5	14.67	mg/L	14.67	mg/L	03:41:32
2	Cd	228.802†	250.4	90.8	0.0026	mg/L	0.0026	mg/L	03:41:44
2	Co	228.616†	2601.5	2653.1	0.0351	mg/L	0.0351	mg/L	03:41:44
2	Cr	267.716†	10188.2	8982.6	0.0688	mg/L	0.0688	mg/L	03:41:34
2	Cu	324.752†	114212.7	104709.5	0.4514	mg/L	0.4514	mg/L	03:41:34
2	Fe	234.349†	162496.6	154606.9	76.54	mg/L	76.54	mg/L	03:41:10
2	K	766.490†	17757.5	16150.1	7.040	mg/L	7.040	mg/L	03:41:12
2	Li	670.784†	2910.2	3041.5	0.0733	mg/L	0.0733	mg/L	03:41:12
2	Mg	279.077†	314523.2	298961.0	19.42	mg/L	19.42	mg/L	03:41:32
2	Mn	257.610†	3278071.8	3102822.5	3.320	mg/L	3.320	mg/L	03:41:32
2	Mn	294.920†	1631701.9	1553101.1	3.313	mg/L	3.313	mg/L	03:41:32
2	Mo	202.031†	97.3	103.0	-0.0074	mg/L	-0.0074	mg/L	03:41:44
2	Na	589.592†	19867.9	14676.5	2.054	mg/L	2.054	mg/L	03:41:12
2	Ni	231.604†	3968.0	3598.2	0.0664	mg/L	0.0664	mg/L	03:41:44
2	P	214.914†	4520.6	4347.1	2.324	mg/L	2.324	mg/L	03:41:44
2	Pb	220.353†	1376.9	1126.9	0.0561	mg/L	0.0561	mg/L	03:41:44
2	Sb	206.836†	67.9	19.8	-0.0206	mg/L	-0.0206	mg/L	03:41:44
2	Se	196.026†	1.1	-15.8	0.0002	mg/L	0.0002	mg/L	03:41:44
2	Sn	189.927†	-161.4	-191.0	-0.0128	mg/L	-0.0128	mg/L	03:41:44
2	Sr	407.771†	76551.8	72588.5	0.0617	mg/L	0.0617	mg/L	03:41:10
2	Ti	337.279†	2433268.2	2316397.8	2.377	mg/L	2.377	mg/L	03:41:32
2	Tl	190.801†	-5.8	1.6	-0.0361	mg/L	-0.0361	mg/L	03:41:44
2	V	292.402†	55466.3	53674.6	0.2076	mg/L	0.2076	mg/L	03:41:34
2	Zn	213.857†	41347.3	38469.9	0.2323	mg/L	0.2323	mg/L	03:41:34

Mean Data: CF32509-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3557480.5	1.05	mg/L	0.002				0.15%
Ag 328.068†	-743.7	-0.0010	mg/L	0.00019	-0.0010	mg/L	0.00019	19.74%
Al 237.313†	506383.7	46.43	mg/L	0.140	46.43	mg/L	0.140	0.30%
As 188.979†	30.7	0.0211	mg/L	0.00401	0.0211	mg/L	0.00401	19.01%
B 249.677†	13.7	0.0081	mg/L	0.00408	0.0081	mg/L	0.00408	50.31%
B 182.528†	35.7	0.0332	mg/L	0.00220	0.0332	mg/L	0.00220	6.63%
Ba 233.527†	38877.5	0.2953	mg/L	0.00114	0.2953	mg/L	0.00114	0.39%
Be 313.107†	10398.7	0.0033	mg/L	0.00002	0.0033	mg/L	0.00002	0.58%
Ca 315.887†	1634339.4	14.64	mg/L	0.045	14.64	mg/L	0.045	0.31%
Cd 228.802†	95.4	0.0028	mg/L	0.00018	0.0028	mg/L	0.00018	6.47%
Co 228.616†	2649.6	0.0351	mg/L	0.00007	0.0351	mg/L	0.00007	0.19%
Cr 267.716†	8933.4	0.0685	mg/L	0.00053	0.0685	mg/L	0.00053	0.77%
Cu 324.752†	104535.0	0.4507	mg/L	0.00106	0.4507	mg/L	0.00106	0.24%
Fe 234.349†	154177.4	76.33	mg/L	0.301	76.33	mg/L	0.301	0.39%
K 766.490†	16130.7	7.032	mg/L	0.0117	7.032	mg/L	0.0117	0.17%
Li 670.784†	2996.5	0.0723	mg/L	0.00150	0.0723	mg/L	0.00150	2.07%
Mg 279.077†	298071.1	19.36	mg/L	0.082	19.36	mg/L	0.082	0.42%
Mn 257.610†	3095947.8	3.313	mg/L	0.0104	3.313	mg/L	0.0104	0.31%
Mn 294.920†	1549660.6	3.305	mg/L	0.0104	3.305	mg/L	0.0104	0.31%
Mo 202.031†	98.7	-0.0075	mg/L	0.00017	-0.0075	mg/L	0.00017	2.33%
Na 589.592†	14557.4	2.038	mg/L	0.0226	2.038	mg/L	0.0226	1.11%
Ni 231.604†	3583.7	0.0662	mg/L	0.00038	0.0662	mg/L	0.00038	0.58%
P 214.914†	4345.6	2.323	mg/L	0.0011	2.323	mg/L	0.0011	0.05%
Pb 220.353†	1118.8	0.0556	mg/L	0.00063	0.0556	mg/L	0.00063	1.14%
Sb 206.836†	20.7	-0.0201	mg/L	0.00067	-0.0201	mg/L	0.00067	3.32%
Se 196.026†	-25.1	-0.0050	mg/L	0.00728	-0.0050	mg/L	0.00728	146.67%
Sn 189.927†	-168.4	-0.0101	mg/L	0.00391	-0.0101	mg/L	0.00391	38.89%
Sr 407.771†	72516.7	0.0617	mg/L	0.00009	0.0617	mg/L	0.00009	0.14%
Ti 337.279†	2312001.0	2.373	mg/L	0.0064	2.373	mg/L	0.0064	0.27%
Tl 190.801†	2.9	-0.0351	mg/L	0.00145	-0.0351	mg/L	0.00145	4.12%
V 292.402†	53495.4	0.2069	mg/L	0.00098	0.2069	mg/L	0.00098	0.48%
Zn 213.857†	38429.5	0.2321	mg/L	0.00033	0.2321	mg/L	0.00033	0.14%

Sequence No.: 178

Sample ID: CF32509-MS1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 131

Date Collected: 6/26/2013 3:43:23 AM

Data Type: Reprocessed on 6/26/2013 10:58:05 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32509-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3499389.8	3499389.8	1.03	mg/L			03:45:16
1	Ag 328.068†	41656.6	39512.5	0.1926	mg/L	0.1926	mg/L	03:45:16
1	Al 237.313†	559073.9	540573.6	49.57	mg/L	49.57	mg/L	03:45:16
1	As 188.979†	659.0	635.7	0.3905	mg/L	0.3905	mg/L	03:45:26
1	B 249.677†	985.9	967.8	0.3981	mg/L	0.3981	mg/L	03:45:06
1	B 182.528†	468.7	459.8	0.3817	mg/L	0.3817	mg/L	03:45:26
1	Ba 233.527†	97027.0	93836.8	0.7120	mg/L	0.7120	mg/L	03:45:16
1	Be 313.107†	115135.9	112678.9	0.0393	mg/L	0.0393	mg/L	03:45:16
1	Ca 315.887†	2045910.1	1977509.2	17.71	mg/L	17.71	mg/L	03:45:16
1	Cd 228.802†	6895.1	6514.7	0.1743	mg/L	0.1743	mg/L	03:45:26
1	Co 228.616†	28750.6	27957.2	0.4379	mg/L	0.4379	mg/L	03:45:26
1	Cr 267.716†	70169.5	67088.1	0.5111	mg/L	0.5111	mg/L	03:45:16
1	Cu 324.752†	216878.7	205595.0	0.8826	mg/L	0.8826	mg/L	03:45:16
1	Fe 234.349†	181882.2	175739.2	86.99	mg/L	86.99	mg/L	03:45:04
1	K 766.490†	64018.1	61110.2	26.24	mg/L	26.24	mg/L	03:45:04
1	Li 670.784†	21125.3	20684.2	0.4876	mg/L	0.4876	mg/L	03:45:06
1	Mg 279.077†	414404.8	400116.7	25.99	mg/L	25.99	mg/L	03:45:16
1	Mn 257.610†	3821505.6	3676346.0	3.935	mg/L	3.935	mg/L	03:45:16
1	Mn 294.920†	1904460.2	1840760.7	3.926	mg/L	3.926	mg/L	03:45:16
1	Mo 202.031†	10747.2	10394.5	0.3753	mg/L	0.3753	mg/L	03:45:26
1	Na 589.592†	170437.7	160453.2	21.59	mg/L	21.59	mg/L	03:45:04
1	Ni 231.604†	26923.2	25836.5	0.4808	mg/L	0.4808	mg/L	03:45:16
1	P 214.914†	10907.0	10584.6	5.588	mg/L	5.588	mg/L	03:45:26
1	Pb 220.353†	8498.1	8027.9	0.4602	mg/L	0.4602	mg/L	03:45:26
1	Sb 206.836†	745.9	675.8	0.2435	mg/L	0.2435	mg/L	03:45:26
1	Se 196.026†	1395.2	1331.2	0.7464	mg/L	0.7464	mg/L	03:45:26
1	Sn 189.927†	3318.7	3169.1	0.4017	mg/L	0.4017	mg/L	03:45:26
1	Sr 407.771†	124305.1	119860.0	0.1018	mg/L	0.1018	mg/L	03:45:04
1	Ti 337.279†	2779489.8	2686885.7	2.757	mg/L	2.757	mg/L	03:45:16
1	Tl 190.801†	612.6	599.0	0.4075	mg/L	0.4075	mg/L	03:45:26
1	V 292.402†	162384.3	157800.2	0.6210	mg/L	0.6210	mg/L	03:45:16
1	Zn 213.857†	107758.8	103248.9	0.6263	mg/L	0.6263	mg/L	03:45:16
2	Y 371.029	3514323.8	3514323.8	1.04	mg/L			03:45:30
2	Ag 328.068†	41840.0	39517.9	0.1927	mg/L	0.1927	mg/L	03:45:30
2	Al 237.313†	561871.8	540970.0	49.60	mg/L	49.60	mg/L	03:45:30
2	As 188.979†	653.0	627.2	0.3853	mg/L	0.3853	mg/L	03:45:40
2	B 249.677†	981.3	959.3	0.3946	mg/L	0.3946	mg/L	03:45:10
2	B 182.528†	467.3	456.5	0.3790	mg/L	0.3790	mg/L	03:45:40
2	Ba 233.527†	97288.1	93689.6	0.7109	mg/L	0.7109	mg/L	03:45:30
2	Be 313.107†	115116.0	112187.1	0.0391	mg/L	0.0391	mg/L	03:45:30
2	Ca 315.887†	2059654.4	1982332.4	17.75	mg/L	17.75	mg/L	03:45:30
2	Cd 228.802†	6907.9	6498.7	0.1738	mg/L	0.1738	mg/L	03:45:40
2	Co 228.616†	28806.3	27892.7	0.4368	mg/L	0.4368	mg/L	03:45:40
2	Cr 267.716†	70463.6	67082.9	0.5111	mg/L	0.5111	mg/L	03:45:30
2	Cu 324.752†	218283.8	206056.4	0.8846	mg/L	0.8846	mg/L	03:45:30
2	Fe 234.349†	181757.4	174872.3	86.56	mg/L	86.56	mg/L	03:45:08
2	K 766.490†	63922.5	60755.4	26.09	mg/L	26.09	mg/L	03:45:08
2	Li 670.784†	21405.4	20867.0	0.4919	mg/L	0.4919	mg/L	03:45:10
2	Mg 279.077†	416788.8	400708.9	26.02	mg/L	26.02	mg/L	03:45:30
2	Mn 257.610†	3835879.1	3674484.1	3.933	mg/L	3.933	mg/L	03:45:30
2	Mn 294.920†	1910901.5	1839138.4	3.923	mg/L	3.923	mg/L	03:45:30
2	Mo 202.031†	10779.2	10381.2	0.3748	mg/L	0.3748	mg/L	03:45:40
2	Na 589.592†	170624.2	159932.9	21.52	mg/L	21.52	mg/L	03:45:08
2	Ni 231.604†	26971.8	25772.7	0.4796	mg/L	0.4796	mg/L	03:45:30
2	P 214.914†	10933.2	10565.0	5.577	mg/L	5.577	mg/L	03:45:40
2	Pb 220.353†	8616.7	8107.1	0.4648	mg/L	0.4648	mg/L	03:45:40
2	Sb 206.836†	734.0	661.4	0.2377	mg/L	0.2377	mg/L	03:45:40
2	Se 196.026†	1404.8	1334.7	0.7483	mg/L	0.7483	mg/L	03:45:40
2	Sn 189.927†	3316.7	3153.6	0.3998	mg/L	0.3998	mg/L	03:45:40
2	Sr 407.771†	124169.3	119218.9	0.1012	mg/L	0.1012	mg/L	03:45:08
2	Ti 337.279†	2789946.3	2685533.6	2.756	mg/L	2.756	mg/L	03:45:30
2	Tl 190.801†	619.7	603.3	0.4109	mg/L	0.4109	mg/L	03:45:40
2	V 292.402†	163417.5	158127.5	0.6222	mg/L	0.6222	mg/L	03:45:30
2	Zn 213.857†	108188.5	103219.8	0.6262	mg/L	0.6262	mg/L	03:45:30

Mean Data: CF32509-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3506856.8	1.04 mg/L	0.003			0.30%
Ag 328.068†	39515.2	0.1926 mg/L	0.00001	0.1926 mg/L	0.00001	0.01%

Al 237.313†	540771.8	49.58 mg/L	0.026	49.58 mg/L	0.026	0.05%
As 188.979†	631.5	0.3879 mg/L	0.00367	0.3879 mg/L	0.00367	0.95%
B 249.677†	963.6	0.3964 mg/L	0.00246	0.3964 mg/L	0.00246	0.62%
B 182.528†	458.2	0.3803 mg/L	0.00193	0.3803 mg/L	0.00193	0.51%
Ba 233.527†	93763.2	0.7114 mg/L	0.00079	0.7114 mg/L	0.00079	0.11%
Be 313.107†	112433.0	0.0392 mg/L	0.00012	0.0392 mg/L	0.00012	0.31%
Ca 315.887†	1979920.8	17.73 mg/L	0.031	17.73 mg/L	0.031	0.17%
Cd 228.802†	6506.7	0.1741 mg/L	0.00030	0.1741 mg/L	0.00030	0.17%
Co 228.616†	27925.0	0.4374 mg/L	0.00072	0.4374 mg/L	0.00072	0.17%
Cr 267.716†	67085.5	0.5111 mg/L	0.00003	0.5111 mg/L	0.00003	0.01%
Cu 324.752†	205825.7	0.8836 mg/L	0.00139	0.8836 mg/L	0.00139	0.16%
Fe 234.349†	175305.7	86.78 mg/L	0.304	86.78 mg/L	0.304	0.35%
K 766.490†	60932.8	26.16 mg/L	0.107	26.16 mg/L	0.107	0.41%
Li 670.784†	20775.6	0.4897 mg/L	0.00303	0.4897 mg/L	0.00303	0.62%
Mg 279.077†	400412.8	26.01 mg/L	0.027	26.01 mg/L	0.027	0.10%
Mn 257.610†	3675415.0	3.934 mg/L	0.0013	3.934 mg/L	0.0013	0.03%
Mn 294.920†	1839949.5	3.924 mg/L	0.0024	3.924 mg/L	0.0024	0.06%
Mo 202.031†	10387.9	0.3751 mg/L	0.00032	0.3751 mg/L	0.00032	0.08%
Na 589.592†	160193.0	21.55 mg/L	0.049	21.55 mg/L	0.049	0.23%
Ni 231.604†	25804.6	0.4802 mg/L	0.00084	0.4802 mg/L	0.00084	0.17%
P 214.914†	10574.8	5.583 mg/L	0.0073	5.583 mg/L	0.0073	0.13%
Pb 220.353†	8067.5	0.4625 mg/L	0.00326	0.4625 mg/L	0.00326	0.71%
Sb 206.836†	668.6	0.2406 mg/L	0.00405	0.2406 mg/L	0.00405	1.68%
Se 196.026†	1332.9	0.7474 mg/L	0.00136	0.7474 mg/L	0.00136	0.18%
Sn 189.927†	3161.3	0.4008 mg/L	0.00133	0.4008 mg/L	0.00133	0.33%
Sr 407.771†	119539.5	0.1015 mg/L	0.00038	0.1015 mg/L	0.00038	0.38%
Ti 337.279†	2686209.7	2.756 mg/L	0.0010	2.756 mg/L	0.0010	0.04%
Tl 190.801†	601.2	0.4092 mg/L	0.00241	0.4092 mg/L	0.00241	0.59%
V 292.402†	157963.9	0.6216 mg/L	0.00090	0.6216 mg/L	0.00090	0.15%
Zn 213.857†	103234.4	0.6263 mg/L	0.00011	0.6263 mg/L	0.00011	0.02%

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Sequence No.: 179                               Autosampler Location: 132
Sample ID: CF32509-SD1 @5                       Date Collected: 6/26/2013 3:47:18 AM
Analyst:                                         Data Type: Reprocessed on 6/26/2013 10:58:06 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt:                               Initial Sample Vol:
Dilution:                                       Sample Prep Vol:
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Replicate Data: CF32509-SD1 @5
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Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	Y 371.029	3451124.5	3451124.5	1.02 mg/L			03:49:22
1	Ag 328.068†	615.5	-133.7	0.0005 mg/L	0.0005 mg/L		03:49:24
1	Al 237.313†	131715.7	129433.1	11.87 mg/L	11.87 mg/L		03:49:24
1	As 188.979†	6.6	5.5	0.0059 mg/L	0.0059 mg/L		03:49:34
1	B 249.677†	-9.9	5.5	0.0048 mg/L	0.0048 mg/L		03:49:05
1	B 182.528†	4.7	11.6	0.0134 mg/L	0.0134 mg/L		03:49:34
1	Ba 233.527†	10565.3	10438.9	0.0797 mg/L	0.0797 mg/L		03:49:24
1	Be 313.107†	1354.9	2760.2	0.0010 mg/L	0.0010 mg/L		03:49:24
1	Ca 315.887†	414499.5	406815.2	3.650 mg/L	3.650 mg/L		03:49:22
1	Cd 228.802†	169.7	18.8	0.0017 mg/L	0.0017 mg/L		03:49:34
1	Co 228.616†	512.7	680.3	0.0074 mg/L	0.0074 mg/L		03:49:34
1	Cr 267.716†	3468.2	2687.1	0.0209 mg/L	0.0209 mg/L		03:49:24
1	Cu 324.752†	27954.0	23430.7	0.1022 mg/L	0.1022 mg/L		03:49:24
1	Fe 234.349†	40826.4	40000.5	19.81 mg/L	19.81 mg/L		03:49:05
1	K 766.490†	5001.0	4154.5	1.918 mg/L	1.918 mg/L		03:48:55
1	Li 670.784†	500.0	762.5	0.0198 mg/L	0.0198 mg/L		03:48:55
1	Mg 279.077†	82904.1	80935.7	5.255 mg/L	5.255 mg/L		03:49:24
1	Mn 257.610†	784863.4	752899.2	0.8054 mg/L	0.8054 mg/L		03:49:22
1	Mn 294.920†	387662.0	380444.3	0.8113 mg/L	0.8113 mg/L		03:49:24
1	Mo 202.031†	68.7	77.7	0.0022 mg/L	0.0022 mg/L		03:49:34
1	Na 589.592†	14098.6	9586.3	1.372 mg/L	1.372 mg/L		03:48:55
1	Ni 231.604†	1077.8	878.8	0.0158 mg/L	0.0158 mg/L		03:49:34
1	P 214.914†	896.6	924.5	0.5324 mg/L	0.5324 mg/L		03:49:34
1	Pb 220.353†	462.1	269.6	0.0147 mg/L	0.0147 mg/L		03:49:34
1	Sb 206.836†	54.4	8.5	-0.0007 mg/L	-0.0007 mg/L		03:49:34
1	Se 196.026†	10.0	-7.0	0.0017 mg/L	0.0017 mg/L		03:49:34
1	Sn 189.927†	-12.8	-50.0	-0.0023 mg/L	-0.0023 mg/L		03:49:34
1	Sr 407.771†	19129.4	18496.0	0.0160 mg/L	0.0160 mg/L		03:48:55
1	Ti 337.279†	623407.0	612067.8	0.6302 mg/L	0.6302 mg/L		03:49:22
1	Tl 190.801†	-6.7	0.6	-0.0094 mg/L	-0.0094 mg/L		03:49:34

1	V 292.402†	12331.0	12982.9	0.0519	mg/L	0.0519	mg/L	03:49:24
1	Zn 213.857†	11374.7	10274.7	0.0625	mg/L	0.0625	mg/L	03:49:24
2	Y 371.029	3431226.5	3431226.5	1.01	mg/L			03:49:37
2	Ag 328.068†	470.3	-273.4	-0.0002	mg/L	-0.0002	mg/L	03:49:39
2	Al 237.313†	131816.8	130281.1	11.95	mg/L	11.95	mg/L	03:49:39
2	As 188.979†	10.8	9.6	0.0084	mg/L	0.0084	mg/L	03:49:50
2	B 249.677†	-9.8	5.5	0.0048	mg/L	0.0048	mg/L	03:49:18
2	B 182.528†	12.1	18.9	0.0194	mg/L	0.0194	mg/L	03:49:50
2	Ba 233.527†	10651.9	10584.3	0.0808	mg/L	0.0808	mg/L	03:49:39
2	Be 313.107†	1534.8	2945.2	0.0011	mg/L	0.0011	mg/L	03:49:39
2	Ca 315.887†	408156.6	402919.8	3.615	mg/L	3.615	mg/L	03:49:37
2	Cd 228.802†	176.0	26.0	0.0019	mg/L	0.0019	mg/L	03:49:50
2	Co 228.616†	539.0	709.1	0.0079	mg/L	0.0079	mg/L	03:49:50
2	Cr 267.716†	3449.5	2688.3	0.0210	mg/L	0.0210	mg/L	03:49:39
2	Cu 324.752†	27907.8	23543.9	0.1026	mg/L	0.1026	mg/L	03:49:39
2	Fe 234.349†	40802.7	40209.1	19.91	mg/L	19.91	mg/L	03:49:18
2	K 766.490†	4866.9	4050.8	1.873	mg/L	1.873	mg/L	03:49:08
2	Li 670.784†	399.9	666.7	0.0176	mg/L	0.0176	mg/L	03:49:08
2	Mg 279.077†	82997.4	81498.6	5.291	mg/L	5.291	mg/L	03:49:39
2	Mn 257.610†	774893.9	747534.4	0.7996	mg/L	0.7996	mg/L	03:49:37
2	Mn 294.920†	388066.1	383045.0	0.8169	mg/L	0.8169	mg/L	03:49:39
2	Mo 202.031†	41.6	51.4	0.0012	mg/L	0.0012	mg/L	03:49:50
2	Na 589.592†	14627.7	10187.8	1.452	mg/L	1.452	mg/L	03:49:08
2	Ni 231.604†	1088.7	895.7	0.0161	mg/L	0.0161	mg/L	03:49:50
2	P 214.914†	889.2	922.3	0.5312	mg/L	0.5312	mg/L	03:49:50
2	Pb 220.353†	466.0	276.1	0.0151	mg/L	0.0151	mg/L	03:49:50
2	Sb 206.836†	43.0	-2.5	-0.0053	mg/L	-0.0053	mg/L	03:49:50
2	Se 196.026†	19.5	2.3	0.0069	mg/L	0.0069	mg/L	03:49:50
2	Sn 189.927†	-13.2	-50.5	-0.0024	mg/L	-0.0024	mg/L	03:49:50
2	Sr 407.771†	18974.7	18452.3	0.0159	mg/L	0.0159	mg/L	03:49:08
2	Ti 337.279†	614530.5	606862.7	0.6248	mg/L	0.6248	mg/L	03:49:37
2	Tl 190.801†	-6.6	0.6	-0.0095	mg/L	-0.0095	mg/L	03:49:50
2	V 292.402†	12327.3	13049.3	0.0522	mg/L	0.0522	mg/L	03:49:39
2	Zn 213.857†	11383.6	10348.1	0.0629	mg/L	0.0629	mg/L	03:49:39

Mean Data: CF32509-SD1 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3441175.5	1.02	mg/L	0.004				0.41%
Ag 328.068†	-203.6	0.0002	mg/L	0.00047	0.0002	mg/L	0.00047	261.42%
Al 237.313†	129857.1	11.91	mg/L	0.055	11.91	mg/L	0.055	0.46%
As 188.979†	7.6	0.0072	mg/L	0.00180	0.0072	mg/L	0.00180	25.16%
B 249.677†	5.5	0.0048	mg/L	0.00001	0.0048	mg/L	0.00001	0.23%
B 182.528†	15.2	0.0164	mg/L	0.00425	0.0164	mg/L	0.00425	25.95%
Ba 233.527†	10511.6	0.0803	mg/L	0.00078	0.0803	mg/L	0.00078	0.97%
Be 313.107†	2852.7	0.0011	mg/L	0.00005	0.0011	mg/L	0.00005	4.39%
Ca 315.887†	404867.5	3.632	mg/L	0.0246	3.632	mg/L	0.0246	0.68%
Cd 228.802†	22.4	0.0018	mg/L	0.00014	0.0018	mg/L	0.00014	7.69%
Co 228.616†	694.7	0.0077	mg/L	0.00033	0.0077	mg/L	0.00033	4.34%
Cr 267.716†	2687.7	0.0210	mg/L	0.00001	0.0210	mg/L	0.00001	0.03%
Cu 324.752†	23487.3	0.1024	mg/L	0.00034	0.1024	mg/L	0.00034	0.33%
Fe 234.349†	40104.8	19.86	mg/L	0.073	19.86	mg/L	0.073	0.37%
K 766.490†	4102.7	1.895	mg/L	0.0313	1.895	mg/L	0.0313	1.65%
Li 670.784†	714.6	0.0187	mg/L	0.00159	0.0187	mg/L	0.00159	8.52%
Mg 279.077†	81217.2	5.273	mg/L	0.0258	5.273	mg/L	0.0258	0.49%
Mn 257.610†	750216.8	0.8025	mg/L	0.00410	0.8025	mg/L	0.00410	0.51%
Mn 294.920†	381744.6	0.8141	mg/L	0.00392	0.8141	mg/L	0.00392	0.48%
Mo 202.031†	64.6	0.0017	mg/L	0.00071	0.0017	mg/L	0.00071	42.98%
Na 589.592†	9887.1	1.412	mg/L	0.0570	1.412	mg/L	0.0570	4.04%
Ni 231.604†	887.3	0.0160	mg/L	0.00022	0.0160	mg/L	0.00022	1.38%
P 214.914†	923.4	0.5318	mg/L	0.00082	0.5318	mg/L	0.00082	0.15%
Pb 220.353†	272.9	0.0149	mg/L	0.00025	0.0149	mg/L	0.00025	1.69%
Sb 206.836†	3.0	-0.0030	mg/L	0.00321	-0.0030	mg/L	0.00321	107.56%
Se 196.026†	-2.4	0.0043	mg/L	0.00367	0.0043	mg/L	0.00367	85.26%
Sn 189.927†	-50.3	-0.0023	mg/L	0.00005	-0.0023	mg/L	0.00005	2.19%
Sr 407.771†	18474.1	0.0159	mg/L	0.00003	0.0159	mg/L	0.00003	0.16%
Ti 337.279†	609465.3	0.6275	mg/L	0.00377	0.6275	mg/L	0.00377	0.60%
Tl 190.801†	0.6	-0.0095	mg/L	0.00002	-0.0095	mg/L	0.00002	0.19%
V 292.402†	13016.1	0.0521	mg/L	0.00018	0.0521	mg/L	0.00018	0.35%
Zn 213.857†	10311.4	0.0627	mg/L	0.00031	0.0627	mg/L	0.00031	0.50%

Sequence No.: 180
Sample ID: CF32509-PDS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 133
Date Collected: 6/26/2013 3:51:25 AM
Data Type: Reprocessed on 6/26/2013 10:58:07 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32509-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3507083.1	3507083.1	1.04 mg/L		03:53:18
1	Ag 328.068†	46728.5	44314.0	0.2156 mg/L	0.2156 mg/L	03:53:18
1	Al 237.313†	571734.7	551594.9	50.58 mg/L	50.58 mg/L	03:53:18
1	As 188.979†	747.3	719.4	0.4416 mg/L	0.4416 mg/L	03:53:28
1	B 249.677†	1164.0	1137.4	0.4674 mg/L	0.4674 mg/L	03:53:08
1	B 182.528†	544.4	531.8	0.4408 mg/L	0.4408 mg/L	03:53:28
1	Ba 233.527†	104632.2	100963.3	0.7660 mg/L	0.7660 mg/L	03:53:18
1	Be 313.107†	128418.2	125240.3	0.0437 mg/L	0.0437 mg/L	03:53:18
1	Ca 315.887†	2337761.3	2254545.5	20.19 mg/L	20.19 mg/L	03:53:18
1	Cd 228.802†	7639.8	7218.0	0.1931 mg/L	0.1931 mg/L	03:53:28
1	Co 228.616†	31718.8	30757.9	0.4820 mg/L	0.4820 mg/L	03:53:28
1	Cr 267.716†	77391.7	73902.3	0.5630 mg/L	0.5630 mg/L	03:53:18
1	Cu 324.752†	218915.4	207098.9	0.8893 mg/L	0.8893 mg/L	03:53:18
1	Fe 234.349†	173922.9	167680.1	83.00 mg/L	83.00 mg/L	03:53:06
1	K 766.490†	71341.3	68034.8	29.20 mg/L	29.20 mg/L	03:53:06
1	Li 670.784†	23838.6	23255.3	0.5480 mg/L	0.5480 mg/L	03:53:06
1	Mg 279.077†	409217.6	394237.4	25.60 mg/L	25.60 mg/L	03:53:18
1	Mn 257.610†	3566272.5	3422176.7	3.663 mg/L	3.663 mg/L	03:53:18
1	Mn 294.920†	1776543.9	1713400.4	3.655 mg/L	3.655 mg/L	03:53:18
1	Mo 202.031†	12556.7	12116.3	0.4405 mg/L	0.4405 mg/L	03:53:28
1	Na 589.592†	189470.7	178441.6	24.00 mg/L	24.00 mg/L	03:53:06
1	Ni 231.604†	29568.3	28329.5	0.5273 mg/L	0.5273 mg/L	03:53:18
1	P 214.914†	11707.5	11333.2	5.980 mg/L	5.980 mg/L	03:53:28
1	Pb 220.353†	9420.9	8899.6	0.5112 mg/L	0.5112 mg/L	03:53:28
1	Sb 206.836†	1143.1	1057.2	0.4014 mg/L	0.4014 mg/L	03:53:28
1	Se 196.026†	1612.3	1537.6	0.8604 mg/L	0.8604 mg/L	03:53:28
1	Sn 189.927†	3710.5	3539.8	0.4488 mg/L	0.4488 mg/L	03:53:28
1	Sr 407.771†	132803.1	127789.4	0.1085 mg/L	0.1085 mg/L	03:53:06
1	Ti 337.279†	3045427.0	2937383.5	3.014 mg/L	3.014 mg/L	03:53:18
1	Tl 190.801†	693.9	676.1	0.4668 mg/L	0.4668 mg/L	03:53:28
1	V 292.402†	173439.8	168114.6	0.6619 mg/L	0.6619 mg/L	03:53:18
1	Zn 213.857†	116639.7	111582.5	0.6774 mg/L	0.6774 mg/L	03:53:18
2	Y 371.029	3539965.8	3539965.8	1.05 mg/L		03:53:32
2	Ag 328.068†	47028.5	44182.1	0.2149 mg/L	0.2149 mg/L	03:53:32
2	Al 237.313†	574324.4	548948.3	50.33 mg/L	50.33 mg/L	03:53:32
2	As 188.979†	756.4	721.4	0.4429 mg/L	0.4429 mg/L	03:53:42
2	B 249.677†	1154.5	1117.9	0.4594 mg/L	0.4594 mg/L	03:53:12
2	B 182.528†	543.2	525.8	0.4359 mg/L	0.4359 mg/L	03:53:42
2	Ba 233.527†	104846.9	100231.3	0.7604 mg/L	0.7604 mg/L	03:53:32
2	Be 313.107†	128931.8	124580.9	0.0434 mg/L	0.0434 mg/L	03:53:32
2	Ca 315.887†	2350032.9	2245330.9	20.11 mg/L	20.11 mg/L	03:53:32
2	Cd 228.802†	7676.5	7184.7	0.1923 mg/L	0.1923 mg/L	03:53:42
2	Co 228.616†	31928.8	30674.4	0.4807 mg/L	0.4807 mg/L	03:53:42
2	Cr 267.716†	78026.7	73815.7	0.5623 mg/L	0.5623 mg/L	03:53:32
2	Cu 324.752†	219670.5	205859.6	0.8840 mg/L	0.8840 mg/L	03:53:32
2	Fe 234.349†	171996.2	164282.3	81.31 mg/L	81.31 mg/L	03:53:10
2	K 766.490†	70819.4	66897.4	28.71 mg/L	28.71 mg/L	03:53:10
2	Li 670.784†	23673.1	22883.7	0.5393 mg/L	0.5393 mg/L	03:53:10
2	Mg 279.077†	411355.0	392614.2	25.50 mg/L	25.50 mg/L	03:53:32
2	Mn 257.610†	3584584.3	3407729.5	3.647 mg/L	3.647 mg/L	03:53:32
2	Mn 294.920†	1785380.3	1705930.6	3.639 mg/L	3.639 mg/L	03:53:32
2	Mo 202.031†	12601.2	12046.3	0.4382 mg/L	0.4382 mg/L	03:53:42
2	Na 589.592†	188294.8	175621.6	23.62 mg/L	23.62 mg/L	03:53:10
2	Ni 231.604†	29772.6	28259.9	0.5260 mg/L	0.5260 mg/L	03:53:32
2	P 214.914†	11772.8	11290.7	5.957 mg/L	5.957 mg/L	03:53:42
2	Pb 220.353†	9396.1	8791.5	0.5049 mg/L	0.5049 mg/L	03:53:42
2	Sb 206.836†	1162.4	1065.5	0.4055 mg/L	0.4055 mg/L	03:53:42
2	Se 196.026†	1623.7	1534.0	0.8584 mg/L	0.8584 mg/L	03:53:42
2	Sn 189.927†	3714.0	3509.9	0.4451 mg/L	0.4451 mg/L	03:53:42
2	Sr 407.771†	131438.2	125296.4	0.1064 mg/L	0.1064 mg/L	03:53:10
2	Ti 337.279†	3059670.3	2923714.7	3.000 mg/L	3.000 mg/L	03:53:32
2	Tl 190.801†	708.3	683.6	0.4733 mg/L	0.4733 mg/L	03:53:42

2	V 292.402†	174056.4	167150.3	0.6581 mg/L	0.6581 mg/L	03:53:32
2	Zn 213.857†	117151.1	111026.4	0.6741 mg/L	0.6741 mg/L	03:53:32

Mean Data: CF32509-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3523524.5	1.04	mg/L	0.007			0.66%
Ag 328.068†	44248.1	0.2153	mg/L	0.00048	0.2153 mg/L	0.00048	0.22%
Al 237.313†	550271.6	50.46	mg/L	0.172	50.46 mg/L	0.172	0.34%
As 188.979†	720.4	0.4423	mg/L	0.00086	0.4423 mg/L	0.00086	0.19%
B 249.677†	1127.7	0.4634	mg/L	0.00564	0.4634 mg/L	0.00564	1.22%
B 182.528†	528.8	0.4384	mg/L	0.00349	0.4384 mg/L	0.00349	0.80%
Ba 233.527†	100597.3	0.7632	mg/L	0.00392	0.7632 mg/L	0.00392	0.51%
Be 313.107†	124910.6	0.0435	mg/L	0.00016	0.0435 mg/L	0.00016	0.37%
Ca 315.887†	2249938.2	20.15	mg/L	0.058	20.15 mg/L	0.058	0.29%
Cd 228.802†	7201.4	0.1927	mg/L	0.00061	0.1927 mg/L	0.00061	0.32%
Co 228.616†	30716.2	0.4813	mg/L	0.00092	0.4813 mg/L	0.00092	0.19%
Cr 267.716†	73859.0	0.5627	mg/L	0.00047	0.5627 mg/L	0.00047	0.08%
Cu 324.752†	206479.3	0.8866	mg/L	0.00375	0.8866 mg/L	0.00375	0.42%
Fe 234.349†	165981.2	82.15	mg/L	1.190	82.15 mg/L	1.190	1.45%
K 766.490†	67466.1	28.95	mg/L	0.343	28.95 mg/L	0.343	1.19%
Li 670.784†	23069.5	0.5436	mg/L	0.00617	0.5436 mg/L	0.00617	1.14%
Mg 279.077†	393425.8	25.55	mg/L	0.075	25.55 mg/L	0.075	0.29%
Mn 257.610†	3414953.1	3.655	mg/L	0.0107	3.655 mg/L	0.0107	0.29%
Mn 294.920†	1709665.5	3.647	mg/L	0.0113	3.647 mg/L	0.0113	0.31%
Mo 202.031†	12081.3	0.4394	mg/L	0.00166	0.4394 mg/L	0.00166	0.38%
Na 589.592†	177031.6	23.81	mg/L	0.267	23.81 mg/L	0.267	1.12%
Ni 231.604†	28294.7	0.5267	mg/L	0.00092	0.5267 mg/L	0.00092	0.17%
P 214.914†	11311.9	5.969	mg/L	0.0157	5.969 mg/L	0.0157	0.26%
Pb 220.353†	8845.5	0.5080	mg/L	0.00443	0.5080 mg/L	0.00443	0.87%
Sb 206.836†	1061.4	0.4035	mg/L	0.00288	0.4035 mg/L	0.00288	0.71%
Se 196.026†	1535.8	0.8594	mg/L	0.00145	0.8594 mg/L	0.00145	0.17%
Sn 189.927†	3524.8	0.4469	mg/L	0.00263	0.4469 mg/L	0.00263	0.59%
Sr 407.771†	126542.9	0.1074	mg/L	0.00149	0.1074 mg/L	0.00149	1.39%
Ti 337.279†	2930549.1	3.007	mg/L	0.0099	3.007 mg/L	0.0099	0.33%
Tl 190.801†	679.8	0.4701	mg/L	0.00458	0.4701 mg/L	0.00458	0.97%
V 292.402†	167632.4	0.6600	mg/L	0.00267	0.6600 mg/L	0.00267	0.40%
Zn 213.857†	111304.5	0.6757	mg/L	0.00235	0.6757 mg/L	0.00235	0.35%

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Sequence No.: 181	Autosampler Location: 134
Sample ID: 1306384-01	Date Collected: 6/26/2013 3:55:17 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:58:07 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1306384-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3477790.4	3477790.4	1.03 mg/L		03:57:09
1	Ag 328.068†	-263.8	-993.3	-0.0019 mg/L	-0.0019 mg/L	03:57:12
1	Al 237.313†	724412.2	704673.2	64.61 mg/L	64.61 mg/L	03:57:09
1	As 188.979†	55.1	52.5	0.0345 mg/L	0.0345 mg/L	03:57:22
1	B 249.677†	-15.1	0.6	0.0028 mg/L	0.0028 mg/L	03:56:59
1	B 182.528†	28.0	34.2	0.0320 mg/L	0.0320 mg/L	03:57:22
1	Ba 233.527†	19059.8	18618.0	0.1417 mg/L	0.1417 mg/L	03:57:12
1	Be 313.107†	11718.4	12825.6	0.0034 mg/L	0.0034 mg/L	03:57:12
1	Ca 315.887†	1409994.9	1371538.8	12.28 mg/L	12.28 mg/L	03:57:09
1	Cd 228.802†	196.9	44.0	0.0012 mg/L	0.0012 mg/L	03:57:22
1	Co 228.616†	3255.2	3342.7	0.0394 mg/L	0.0394 mg/L	03:57:22
1	Cr 267.716†	12645.8	11583.7	0.0886 mg/L	0.0886 mg/L	03:57:12
1	Cu 324.752†	25979.5	21301.0	0.0989 mg/L	0.0989 mg/L	03:57:12
1	Fe 234.349†	183908.4	178800.5	88.52 mg/L	88.52 mg/L	03:56:57
1	K 766.490†	16536.6	15332.1	6.691 mg/L	6.691 mg/L	03:56:59
1	Li 670.784†	3162.3	3347.1	0.0805 mg/L	0.0805 mg/L	03:56:59
1	Mg 279.077†	379856.5	369015.0	23.96 mg/L	23.96 mg/L	03:57:09
1	Mn 257.610†	1275783.1	1224283.7	1.297 mg/L	1.297 mg/L	03:57:09
1	Mn 294.920†	640266.4	623118.4	1.329 mg/L	1.329 mg/L	03:57:09
1	Mo 202.031†	93.9	101.8	-0.0072 mg/L	-0.0072 mg/L	03:57:12
1	Na 589.592†	16646.5	11957.6	1.689 mg/L	1.689 mg/L	03:56:59

1	Ni 231.604†	3635.2	3357.0	0.0619 mg/L	0.0619 mg/L	03:57:22
1	P 214.914†	5989.1	5868.8	3.125 mg/L	3.125 mg/L	03:57:22
1	Pb 220.353†	4089.6	3792.9	0.2077 mg/L	0.2077 mg/L	03:57:22
1	Sb 206.836†	70.8	24.1	-0.0241 mg/L	-0.0241 mg/L	03:57:22
1	Se 196.026†	-16.2	-32.6	-0.0084 mg/L	-0.0084 mg/L	03:57:22
1	Sn 189.927†	-98.2	-132.9	-0.0071 mg/L	-0.0071 mg/L	03:57:22
1	Sr 407.771†	87159.6	84492.4	0.0718 mg/L	0.0718 mg/L	03:56:57
1	Ti 337.279†	5516634.7	5364663.5	5.502 mg/L	5.502 mg/L	03:57:09
1	Tl 190.801†	-5.4	1.9	-0.0406 mg/L	-0.0406 mg/L	03:57:22
1	V 292.402†	39830.9	39626.1	0.1465 mg/L	0.1465 mg/L	03:57:12
1	Zn 213.857†	40388.7	38397.1	0.2318 mg/L	0.2318 mg/L	03:57:12
2	Y 371.029	3472978.3	3472978.3	1.03 mg/L		03:57:25
2	Ag 328.068†	-294.3	-1023.3	-0.0020 mg/L	-0.0020 mg/L	03:57:28
2	Al 237.313†	724084.2	705329.8	64.67 mg/L	64.67 mg/L	03:57:25
2	As 188.979†	49.8	47.5	0.0314 mg/L	0.0314 mg/L	03:57:38
2	B 249.677†	-34.2	-18.1	-0.0049 mg/L	-0.0049 mg/L	03:57:04
2	B 182.528†	23.5	29.9	0.0284 mg/L	0.0284 mg/L	03:57:38
2	Ba 233.527†	19009.5	18594.7	0.1416 mg/L	0.1416 mg/L	03:57:28
2	Be 313.107†	11730.8	12853.5	0.0034 mg/L	0.0034 mg/L	03:57:28
2	Ca 315.887†	1408200.8	1371691.6	12.29 mg/L	12.29 mg/L	03:57:25
2	Cd 228.802†	201.0	48.2	0.0013 mg/L	0.0013 mg/L	03:57:38
2	Co 228.616†	3246.6	3338.7	0.0394 mg/L	0.0394 mg/L	03:57:38
2	Cr 267.716†	12626.9	11582.3	0.0886 mg/L	0.0886 mg/L	03:57:28
2	Cu 324.752†	25764.2	21126.4	0.0981 mg/L	0.0981 mg/L	03:57:28
2	Fe 234.349†	183330.4	178485.6	88.37 mg/L	88.37 mg/L	03:57:02
2	K 766.490†	16315.8	15139.4	6.608 mg/L	6.608 mg/L	03:57:04
2	Li 670.784†	3162.3	3351.3	0.0806 mg/L	0.0806 mg/L	03:57:04
2	Mg 279.077†	379273.7	368959.4	23.96 mg/L	23.96 mg/L	03:57:25
2	Mn 257.610†	1274053.0	1224317.9	1.297 mg/L	1.297 mg/L	03:57:25
2	Mn 294.920†	639068.9	622815.1	1.328 mg/L	1.328 mg/L	03:57:25
2	Mo 202.031†	148.5	155.0	-0.0052 mg/L	-0.0052 mg/L	03:57:28
2	Na 589.592†	16599.6	11934.3	1.686 mg/L	1.686 mg/L	03:57:04
2	Ni 231.604†	3638.4	3365.1	0.0621 mg/L	0.0621 mg/L	03:57:38
2	P 214.914†	5985.6	5873.4	3.128 mg/L	3.128 mg/L	03:57:38
2	Pb 220.353†	4037.3	3747.4	0.2050 mg/L	0.2050 mg/L	03:57:38
2	Sb 206.836†	73.3	26.6	-0.0230 mg/L	-0.0230 mg/L	03:57:38
2	Se 196.026†	-3.1	-19.9	-0.0013 mg/L	-0.0013 mg/L	03:57:38
2	Sn 189.927†	-122.3	-156.6	-0.0101 mg/L	-0.0101 mg/L	03:57:38
2	Sr 407.771†	86971.2	84426.4	0.0718 mg/L	0.0718 mg/L	03:57:02
2	Ti 337.279†	5509620.4	5365266.0	5.502 mg/L	5.502 mg/L	03:57:25
2	Tl 190.801†	0.4	7.6	-0.0362 mg/L	-0.0362 mg/L	03:57:38
2	V 292.402†	39739.5	39590.8	0.1464 mg/L	0.1464 mg/L	03:57:28
2	Zn 213.857†	40214.6	38282.1	0.2311 mg/L	0.2311 mg/L	03:57:28

Mean Data: 1306384-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3475384.4	1.03	mg/L	0.001				0.10%
Ag 328.068†	-1008.3	-0.0019	mg/L	0.00010	-0.0019	mg/L	0.00010	5.38%
Al 237.313†	705001.5	64.64	mg/L	0.043	64.64	mg/L	0.043	0.07%
As 188.979†	50.0	0.0330	mg/L	0.00217	0.0330	mg/L	0.00217	6.60%
B 249.677†	-8.8	-0.0011	mg/L	0.00539	-0.0011	mg/L	0.00539	508.72%
B 182.528†	32.0	0.0302	mg/L	0.00249	0.0302	mg/L	0.00249	8.25%
Ba 233.527†	18606.3	0.1417	mg/L	0.00012	0.1417	mg/L	0.00012	0.09%
Be 313.107†	12839.6	0.0034	mg/L	0.00001	0.0034	mg/L	0.00001	0.20%
Ca 315.887†	1371615.2	12.29	mg/L	0.001	12.29	mg/L	0.001	0.01%
Cd 228.802†	46.1	0.0012	mg/L	0.00008	0.0012	mg/L	0.00008	6.69%
Co 228.616†	3340.7	0.0394	mg/L	0.00004	0.0394	mg/L	0.00004	0.11%
Cr 267.716†	11583.0	0.0886	mg/L	0.00001	0.0886	mg/L	0.00001	0.01%
Cu 324.752†	21213.7	0.0985	mg/L	0.00053	0.0985	mg/L	0.00053	0.54%
Fe 234.349†	178643.0	88.44	mg/L	0.110	88.44	mg/L	0.110	0.12%
K 766.490†	15235.7	6.650	mg/L	0.0582	6.650	mg/L	0.0582	0.87%
Li 670.784†	3349.2	0.0805	mg/L	0.00007	0.0805	mg/L	0.00007	0.09%
Mg 279.077†	368987.2	23.96	mg/L	0.003	23.96	mg/L	0.003	0.01%
Mn 257.610†	1224300.8	1.297	mg/L	0.0001	1.297	mg/L	0.0001	0.00%
Mn 294.920†	622966.7	1.329	mg/L	0.0005	1.329	mg/L	0.0005	0.03%
Mo 202.031†	128.4	-0.0062	mg/L	0.00143	-0.0062	mg/L	0.00143	23.19%
Na 589.592†	11946.0	1.688	mg/L	0.0022	1.688	mg/L	0.0022	0.13%
Ni 231.604†	3361.1	0.0620	mg/L	0.00011	0.0620	mg/L	0.00011	0.17%
P 214.914†	5871.1	3.126	mg/L	0.0017	3.126	mg/L	0.0017	0.05%
Pb 220.353†	3770.2	0.2064	mg/L	0.00188	0.2064	mg/L	0.00188	0.91%
Sb 206.836†	25.3	-0.0236	mg/L	0.00078	-0.0236	mg/L	0.00078	3.33%

2	Ni 231.604†	5785.5	5362.8	0.0993 mg/L	0.0993 mg/L	04:01:24
2	P 214.914†	9943.3	9567.4	5.064 mg/L	5.064 mg/L	04:01:24
2	Pb 220.353†	2261.8	1982.7	0.0919 mg/L	0.0919 mg/L	04:01:34
2	Sb 206.836†	80.8	32.6	-0.0319 mg/L	-0.0319 mg/L	04:01:34
2	Se 196.026†	-13.5	-29.8	-0.0053 mg/L	-0.0053 mg/L	04:01:34
2	Sn 189.927†	-240.3	-267.6	-0.0210 mg/L	-0.0210 mg/L	04:01:34
2	Sr 407.771†	120477.4	115119.4	0.0977 mg/L	0.0977 mg/L	04:00:58
2	Ti 337.279†	8264221.4	7914834.0	8.116 mg/L	8.116 mg/L	04:01:22
2	Tl 190.801†	-14.6	-6.9	-0.0593 mg/L	-0.0593 mg/L	04:01:34
2	V 292.402†	58901.2	57303.6	0.2107 mg/L	0.2107 mg/L	04:01:24
2	Zn 213.857†	44211.6	41466.1	0.2492 mg/L	0.2492 mg/L	04:01:24

Mean Data: CF32509-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3527564.9	1.04 mg/L	0.001			0.14%
Ag 328.068†	-1195.9	-0.0022 mg/L	0.00013	-0.0022 mg/L	0.00013	5.71%
Al 237.313†	1143207.9	104.8 mg/L	0.03	104.8 mg/L	0.03	0.03%
As 188.979†	49.3	0.0324 mg/L	0.00315	0.0324 mg/L	0.00315	9.71%
B 249.677†	-13.8	-0.0031 mg/L	0.00071	-0.0031 mg/L	0.00071	22.93%
B 182.528†	35.3	0.0328 mg/L	0.00169	0.0328 mg/L	0.00169	5.16%
Ba 233.527†	77397.0	0.5873 mg/L	0.00241	0.5873 mg/L	0.00241	0.41%
Be 313.107†	21964.6	0.0060 mg/L	0.00006	0.0060 mg/L	0.00006	1.05%
Ca 315.887†	1865886.5	16.71 mg/L	0.006	16.71 mg/L	0.006	0.03%
Cd 228.802†	40.4	0.0007 mg/L	0.00034	0.0007 mg/L	0.00034	51.14%
Co 228.616†	4130.1	0.0464 mg/L	0.00001	0.0464 mg/L	0.00001	0.02%
Cr 267.716†	22003.6	0.1679 mg/L	0.00094	0.1679 mg/L	0.00094	0.56%
Cu 324.752†	30621.3	0.1418 mg/L	0.00014	0.1418 mg/L	0.00014	0.10%
Fe 234.349†	227242.6	112.5 mg/L	1.47	112.5 mg/L	1.47	1.30%
K 766.490†	56295.5	24.18 mg/L	0.266	24.18 mg/L	0.266	1.10%
Li 670.784†	6404.4	0.1523 mg/L	0.00309	0.1523 mg/L	0.00309	2.03%
Mg 279.077†	682090.7	44.29 mg/L	0.032	44.29 mg/L	0.032	0.07%
Mn 257.610†	2920483.5	3.116 mg/L	0.0003	3.116 mg/L	0.0003	0.01%
Mn 294.920†	1467103.7	3.129 mg/L	0.0010	3.129 mg/L	0.0010	0.03%
Mo 202.031†	146.0	-0.0093 mg/L	0.00007	-0.0093 mg/L	0.00007	0.76%
Na 589.592†	13803.2	1.937 mg/L	0.0315	1.937 mg/L	0.0315	1.63%
Ni 231.604†	5393.7	0.0998 mg/L	0.00081	0.0998 mg/L	0.00081	0.81%
P 214.914†	9586.9	5.074 mg/L	0.0145	5.074 mg/L	0.0145	0.29%
Pb 220.353†	1985.2	0.0920 mg/L	0.00021	0.0920 mg/L	0.00021	0.23%
Sb 206.836†	26.2	-0.0341 mg/L	0.00306	-0.0341 mg/L	0.00306	8.99%
Se 196.026†	-29.7	-0.0054 mg/L	0.00007	-0.0054 mg/L	0.00007	1.26%
Sn 189.927†	-255.7	-0.0195 mg/L	0.00206	-0.0195 mg/L	0.00206	10.56%
Sr 407.771†	114182.9	0.0970 mg/L	0.00112	0.0970 mg/L	0.00112	1.16%
Ti 337.279†	7917572.2	8.119 mg/L	0.0040	8.119 mg/L	0.0040	0.05%
Tl 190.801†	2.7	-0.0515 mg/L	0.01090	-0.0515 mg/L	0.01090	21.15%
V 292.402†	57383.5	0.2110 mg/L	0.00043	0.2110 mg/L	0.00043	0.21%
Zn 213.857†	41565.1	0.2499 mg/L	0.00092	0.2499 mg/L	0.00092	0.37%

Sequence No.: 183

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 4:03:10 AM

Data Type: Reprocessed on 6/26/2013 10:58:08 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3402513.2	3402513.2	1.01 mg/L		04:05:02
1	Ag 328.068†	50693.6	49638.7	0.2391 mg/L	0.2391 mg/L	04:05:02
1	Al 237.313†	26170.3	26393.5	2.429 mg/L	2.429 mg/L	04:05:13
1	As 188.979†	762.6	756.8	0.4648 mg/L	0.4648 mg/L	04:05:13
1	B 249.677†	1150.0	1158.0	0.4758 mg/L	0.4758 mg/L	04:04:53
1	B 182.528†	543.0	546.6	0.4530 mg/L	0.4530 mg/L	04:05:13
1	Ba 233.527†	63043.8	62736.0	0.4762 mg/L	0.4762 mg/L	04:05:02
1	Be 313.107†	122446.5	123111.0	0.0435 mg/L	0.0435 mg/L	04:05:02
1	Ca 315.887†	619789.0	616618.6	5.529 mg/L	5.529 mg/L	04:05:02
1	Cd 228.802†	8098.0	7899.7	0.2127 mg/L	0.2127 mg/L	04:05:13
1	Co 228.616†	30687.1	30672.5	0.4861 mg/L	0.4861 mg/L	04:05:13
1	Cr 267.716†	67273.4	66140.5	0.5040 mg/L	0.5040 mg/L	04:05:02

1	Cu 324.752†	122644.1	117918.0	0.5053 mg/L	0.5053 mg/L	04:05:02
1	Fe 234.349†	4858.8	4830.0	2.386 mg/L	2.386 mg/L	04:04:53
1	K 766.490†	55158.7	54067.6	23.23 mg/L	23.23 mg/L	04:04:50
1	Li 670.784†	20074.1	20220.8	0.4767 mg/L	0.4767 mg/L	04:04:53
1	Mg 279.077†	83083.2	82274.1	5.341 mg/L	5.341 mg/L	04:05:02
1	Mn 257.610†	478352.2	459296.9	0.4935 mg/L	0.4935 mg/L	04:05:02
1	Mn 294.920†	227882.9	227093.9	0.4842 mg/L	0.4842 mg/L	04:05:02
1	Mo 202.031†	12834.8	12764.7	0.4791 mg/L	0.4791 mg/L	04:05:13
1	Na 589.592†	186287.5	180892.3	24.32 mg/L	24.32 mg/L	04:04:50
1	Ni 231.604†	27200.2	26852.4	0.4999 mg/L	0.4999 mg/L	04:05:02
1	P 214.914†	8503.3	8496.0	4.495 mg/L	4.495 mg/L	04:05:13
1	Pb 220.353†	8582.2	8345.3	0.4910 mg/L	0.4910 mg/L	04:05:13
1	Sb 206.836†	1166.7	1114.5	0.4599 mg/L	0.4599 mg/L	04:05:13
1	Se 196.026†	1765.6	1737.7	0.9665 mg/L	0.9665 mg/L	04:05:13
1	Sn 189.927†	4059.0	3996.1	0.4957 mg/L	0.4957 mg/L	04:05:13
1	Sr 407.771†	54383.5	53796.6	0.0458 mg/L	0.0458 mg/L	04:04:50
1	Ti 337.279†	473584.4	471911.1	0.4865 mg/L	0.4865 mg/L	04:05:02
1	Tl 190.801†	731.4	733.9	0.5492 mg/L	0.5492 mg/L	04:05:13
1	V 292.402†	122189.0	122324.3	0.4881 mg/L	0.4881 mg/L	04:05:02
1	Zn 213.857†	80004.8	78633.4	0.4793 mg/L	0.4793 mg/L	04:05:02
2	Y 371.029	3385950.8	3385950.8	1.00 mg/L		04:05:16
2	Ag 328.068†	50711.8	49903.3	0.2404 mg/L	0.2404 mg/L	04:05:16
2	Al 237.313†	26177.5	26527.9	2.441 mg/L	2.441 mg/L	04:05:27
2	As 188.979†	772.5	770.4	0.4731 mg/L	0.4731 mg/L	04:05:27
2	B 249.677†	1151.9	1165.5	0.4789 mg/L	0.4789 mg/L	04:04:57
2	B 182.528†	539.7	545.9	0.4524 mg/L	0.4524 mg/L	04:05:27
2	Ba 233.527†	63088.9	63087.5	0.4789 mg/L	0.4789 mg/L	04:05:16
2	Be 313.107†	122679.2	123938.6	0.0438 mg/L	0.0438 mg/L	04:05:16
2	Ca 315.887†	619441.4	619284.1	5.553 mg/L	5.553 mg/L	04:05:16
2	Cd 228.802†	8153.4	7994.4	0.2153 mg/L	0.2153 mg/L	04:05:27
2	Co 228.616†	30887.7	31022.0	0.4916 mg/L	0.4916 mg/L	04:05:27
2	Cr 267.716†	67326.9	66520.9	0.5069 mg/L	0.5069 mg/L	04:05:16
2	Cu 324.752†	122700.5	118570.4	0.5081 mg/L	0.5081 mg/L	04:05:16
2	Fe 234.349†	4842.2	4837.0	2.389 mg/L	2.389 mg/L	04:04:57
2	K 766.490†	54846.0	54023.4	23.21 mg/L	23.21 mg/L	04:04:55
2	Li 670.784†	19891.0	20135.5	0.4747 mg/L	0.4747 mg/L	04:04:57
2	Mg 279.077†	82830.1	82425.2	5.351 mg/L	5.351 mg/L	04:05:16
2	Mn 257.610†	478634.3	461903.8	0.4963 mg/L	0.4963 mg/L	04:05:16
2	Mn 294.920†	228435.1	228752.9	0.4878 mg/L	0.4878 mg/L	04:05:16
2	Mo 202.031†	12945.6	12937.8	0.4856 mg/L	0.4856 mg/L	04:05:27
2	Na 589.592†	185825.6	181336.6	24.38 mg/L	24.38 mg/L	04:04:55
2	Ni 231.604†	27152.5	26937.0	0.5015 mg/L	0.5015 mg/L	04:05:16
2	P 214.914†	8568.8	8602.7	4.551 mg/L	4.551 mg/L	04:05:27
2	Pb 220.353†	8587.7	8392.5	0.4937 mg/L	0.4937 mg/L	04:05:27
2	Sb 206.836†	1168.9	1122.5	0.4631 mg/L	0.4631 mg/L	04:05:27
2	Se 196.026†	1763.6	1744.2	0.9701 mg/L	0.9701 mg/L	04:05:27
2	Sn 189.927†	4060.4	4017.2	0.4984 mg/L	0.4984 mg/L	04:05:27
2	Sr 407.771†	54076.8	53754.7	0.0458 mg/L	0.0458 mg/L	04:04:55
2	Ti 337.279†	472590.2	473220.3	0.4879 mg/L	0.4879 mg/L	04:05:16
2	Tl 190.801†	736.7	742.7	0.5558 mg/L	0.5558 mg/L	04:05:27
2	V 292.402†	122223.5	122952.7	0.4907 mg/L	0.4907 mg/L	04:05:16
2	Zn 213.857†	80078.5	79096.0	0.4821 mg/L	0.4821 mg/L	04:05:16

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3394232.0	1.00 mg/L	0.003			0.35%
Ag 328.068†	49771.0	0.2397 mg/L	0.00090	0.2397 mg/L	0.00090	0.37%
QC value within limits for Ag 328.068 Recovery = 95.89%						
Al 237.313†	26460.7	2.435 mg/L	0.0087	2.435 mg/L	0.0087	0.36%
QC value within limits for Al 237.313 Recovery = 97.39%						
As 188.979†	763.6	0.4690 mg/L	0.00588	0.4690 mg/L	0.00588	1.25%
QC value within limits for As 188.979 Recovery = 93.79%						
B 249.677†	1161.7	0.4774 mg/L	0.00217	0.4774 mg/L	0.00217	0.46%
QC value within limits for B 249.677 Recovery = 95.47%						
B 182.528†	546.2	0.4527 mg/L	0.00042	0.4527 mg/L	0.00042	0.09%
QC value within limits for B 182.528 Recovery = 90.53%						
Ba 233.527†	62911.7	0.4775 mg/L	0.00188	0.4775 mg/L	0.00188	0.39%
QC value within limits for Ba 233.527 Recovery = 95.51%						
Be 313.107†	123524.8	0.0437 mg/L	0.00021	0.0437 mg/L	0.00021	0.47%
QC value less than the lower limit for Be 313.107 Recovery = 87.33%						
Ca 315.887†	617951.4	5.541 mg/L	0.0169	5.541 mg/L	0.0169	0.30%

1	Cu 324.752†	3384.7	-630.2	-0.0014 mg/L	-0.0014 mg/L	04:09:12
1	Fe 234.349†	6.7	8.3	0.0147 mg/L	0.0147 mg/L	04:08:54
1	K 766.490†	816.2	57.0	0.1678 mg/L	0.1678 mg/L	04:08:44
1	Li 670.784†	-154.9	120.3	0.0047 mg/L	0.0047 mg/L	04:08:44
1	Mg 279.077†	566.1	268.5	0.0154 mg/L	0.0154 mg/L	04:09:12
1	Mn 257.610†	16673.3	332.2	0.0003 mg/L	0.0003 mg/L	04:09:12
1	Mn 294.920†	77.0	716.3	0.0014 mg/L	0.0014 mg/L	04:09:12
1	Mo 202.031†	-1.3	9.2	0.0031 mg/L	0.0031 mg/L	04:09:22
1	Na 589.592†	11593.8	7167.9	1.048 mg/L	1.048 mg/L	04:08:44
1	Ni 231.604†	133.9	-45.5	-0.0014 mg/L	-0.0014 mg/L	04:09:12
1	P 214.914†	0.3	46.3	0.0728 mg/L	0.0728 mg/L	04:09:22
1	Pb 220.353†	175.4	-10.7	0.0013 mg/L	0.0013 mg/L	04:09:22
1	Sb 206.836†	37.9	-7.6	0.0013 mg/L	0.0013 mg/L	04:09:22
1	Se 196.026†	23.0	5.8	0.0076 mg/L	0.0076 mg/L	04:09:22
1	Sn 189.927†	46.5	8.2	0.0026 mg/L	0.0026 mg/L	04:09:22
1	Sr 407.771†	329.9	78.6	0.0004 mg/L	0.0004 mg/L	04:08:44
1	Ti 337.279†	-770.2	541.0	0.0033 mg/L	0.0033 mg/L	04:09:12
1	Tl 190.801†	0.4	7.6	0.0053 mg/L	0.0053 mg/L	04:09:22
1	V 292.402†	-853.6	62.9	0.0026 mg/L	0.0026 mg/L	04:09:12
1	Zn 213.857†	798.0	-85.2	0.0000 mg/L	0.0000 mg/L	04:09:22
2	Y 371.029	3383049.7	3383049.7	1.00 mg/L		04:09:24
2	Ag 328.068†	816.3	79.0	0.0010 mg/L	0.0010 mg/L	04:09:27
2	Al 237.313†	-356.4	31.2	0.0100 mg/L	0.0100 mg/L	04:09:27
2	As 188.979†	3.3	2.2	0.0040 mg/L	0.0040 mg/L	04:09:37
2	B 249.677†	-10.4	4.8	0.0045 mg/L	0.0045 mg/L	04:09:06
2	B 182.528†	-1.8	5.1	0.0081 mg/L	0.0081 mg/L	04:09:37
2	Ba 233.527†	-31.5	56.3	0.0010 mg/L	0.0010 mg/L	04:09:37
2	Be 313.107†	-1222.0	211.5	0.0003 mg/L	0.0003 mg/L	04:09:27
2	Ca 315.887†	523.1	1240.7	0.0194 mg/L	0.0194 mg/L	04:09:27
2	Cd 228.802†	141.8	-5.7	0.0013 mg/L	0.0013 mg/L	04:09:37
2	Co 228.616†	-196.5	-18.5	-0.0024 mg/L	-0.0024 mg/L	04:09:37
2	Cr 267.716†	723.5	12.2	0.0006 mg/L	0.0006 mg/L	04:09:27
2	Cu 324.752†	3464.9	-493.7	-0.0008 mg/L	-0.0008 mg/L	04:09:27
2	Fe 234.349†	17.4	19.0	0.0200 mg/L	0.0200 mg/L	04:09:06
2	K 766.490†	786.5	41.0	0.1609 mg/L	0.1609 mg/L	04:08:56
2	Li 670.784†	-221.3	51.4	0.0031 mg/L	0.0031 mg/L	04:08:56
2	Mg 279.077†	307.5	19.5	-0.0007 mg/L	-0.0007 mg/L	04:09:27
2	Mn 257.610†	16682.3	618.8	0.0006 mg/L	0.0006 mg/L	04:09:27
2	Mn 294.920†	-231.7	409.0	0.0007 mg/L	0.0007 mg/L	04:09:27
2	Mo 202.031†	-15.2	-4.7	0.0026 mg/L	0.0026 mg/L	04:09:37
2	Na 589.592†	11813.1	7580.1	1.103 mg/L	1.103 mg/L	04:08:56
2	Ni 231.604†	144.1	-33.1	-0.0011 mg/L	-0.0011 mg/L	04:09:27
2	P 214.914†	-23.6	22.5	0.0603 mg/L	0.0603 mg/L	04:09:37
2	Pb 220.353†	137.6	-45.6	-0.0007 mg/L	-0.0007 mg/L	04:09:37
2	Sb 206.836†	40.5	-4.4	0.0026 mg/L	0.0026 mg/L	04:09:37
2	Se 196.026†	18.1	1.3	0.0051 mg/L	0.0051 mg/L	04:09:37
2	Sn 189.927†	40.8	3.3	0.0020 mg/L	0.0020 mg/L	04:09:37
2	Sr 407.771†	230.5	-15.3	0.0003 mg/L	0.0003 mg/L	04:08:56
2	Ti 337.279†	-936.2	362.2	0.0032 mg/L	0.0032 mg/L	04:09:27
2	Tl 190.801†	-2.9	4.3	0.0029 mg/L	0.0029 mg/L	04:09:37
2	V 292.402†	-902.7	-0.4	0.0023 mg/L	0.0023 mg/L	04:09:27
2	Zn 213.857†	850.1	-19.8	0.0004 mg/L	0.0004 mg/L	04:09:37

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3411699.8	1.01 mg/L	0.012			1.19%
Ag 328.068†	24.7	0.0008 mg/L	0.00037	0.0008 mg/L	0.00037	47.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	19.9	0.0089 mg/L	0.00148	0.0089 mg/L	0.00148	16.56%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.0	0.0032 mg/L	0.00108	0.0032 mg/L	0.00108	33.25%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	3.1	0.0038 mg/L	0.00099	0.0038 mg/L	0.00099	26.17%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	4.9	0.0079 mg/L	0.00025	0.0079 mg/L	0.00025	3.18%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	59.0	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	212.9	0.0003 mg/L	0.00000	0.0003 mg/L	0.00000	0.20%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	1493.6	0.0217 mg/L	0.00320	0.0217 mg/L	0.00320	14.78%

1	Cu 324.752†	114891.0	107472.2	0.4669 mg/L	0.4669 mg/L	04:13:06
1	Fe 234.349†	176866.3	171538.3	84.91 mg/L	84.91 mg/L	04:12:52
1	K 766.490†	78502.3	75391.7	32.34 mg/L	32.34 mg/L	04:12:52
1	Li 670.784†	19256.2	18948.6	0.4468 mg/L	0.4468 mg/L	04:12:54
1	Mg 279.077†	523563.6	507498.8	32.96 mg/L	32.96 mg/L	04:13:04
1	Mn 257.610†	2393303.3	2305129.8	2.460 mg/L	2.460 mg/L	04:13:04
1	Mn 294.920†	1191499.5	1156235.7	2.466 mg/L	2.466 mg/L	04:13:04
1	Mo 202.031†	9324.6	9054.0	0.3276 mg/L	0.3276 mg/L	04:13:16
1	Na 589.592†	143897.9	135335.2	18.22 mg/L	18.22 mg/L	04:12:52
1	Ni 231.604†	23158.9	22283.9	0.4146 mg/L	0.4146 mg/L	04:13:06
1	P 214.914†	14562.6	14169.8	7.472 mg/L	7.472 mg/L	04:13:16
1	Pb 220.353†	7817.4	7398.7	0.4174 mg/L	0.4174 mg/L	04:13:16
1	Sb 206.836†	501.0	441.1	0.1481 mg/L	0.1481 mg/L	04:13:16
1	Se 196.026†	1241.6	1187.3	0.6667 mg/L	0.6667 mg/L	04:13:16
1	Sn 189.927†	2714.8	2595.5	0.3316 mg/L	0.3316 mg/L	04:13:16
1	Sr 407.771†	136442.8	132085.6	0.1121 mg/L	0.1121 mg/L	04:12:52
1	Ti 337.279†	5623405.9	5455249.3	5.595 mg/L	5.595 mg/L	04:13:04
1	Tl 190.801†	528.0	519.2	0.3487 mg/L	0.3487 mg/L	04:13:16
1	V 292.402†	133399.5	130281.6	0.5069 mg/L	0.5069 mg/L	04:13:06
1	Zn 213.857†	87282.0	83782.5	0.5079 mg/L	0.5079 mg/L	04:13:06
2	Y 371.029	3491514.5	3491514.5	1.03 mg/L		04:13:20
2	Ag 328.068†	35512.5	33653.3	0.1644 mg/L	0.1644 mg/L	04:13:22
2	Al 237.313†	829600.3	803768.5	73.69 mg/L	73.69 mg/L	04:13:20
2	As 188.979†	572.7	553.5	0.3404 mg/L	0.3404 mg/L	04:13:33
2	B 249.677†	805.6	795.3	0.3276 mg/L	0.3276 mg/L	04:12:58
2	B 182.528†	405.1	399.2	0.3319 mg/L	0.3319 mg/L	04:13:33
2	Ba 233.527†	99016.4	95974.7	0.7282 mg/L	0.7282 mg/L	04:13:22
2	Be 313.107†	103519.7	101680.8	0.0347 mg/L	0.0347 mg/L	04:13:22
2	Ca 315.887†	2104704.5	2038904.2	18.26 mg/L	18.26 mg/L	04:13:20
2	Cd 228.802†	5832.3	5500.6	0.1472 mg/L	0.1472 mg/L	04:13:33
2	Co 228.616†	24591.5	23992.3	0.3686 mg/L	0.3686 mg/L	04:13:33
2	Cr 267.716†	64568.1	61816.7	0.4710 mg/L	0.4710 mg/L	04:13:22
2	Cu 324.752†	113548.8	106003.4	0.4606 mg/L	0.4606 mg/L	04:13:22
2	Fe 234.349†	177605.3	171993.8	85.14 mg/L	85.14 mg/L	04:12:56
2	K 766.490†	78890.9	75652.5	32.45 mg/L	32.45 mg/L	04:12:56
2	Li 670.784†	19317.6	18979.6	0.4476 mg/L	0.4476 mg/L	04:12:58
2	Mg 279.077†	525249.9	508361.7	33.01 mg/L	33.01 mg/L	04:13:20
2	Mn 257.610†	2397127.0	2305312.6	2.461 mg/L	2.461 mg/L	04:13:20
2	Mn 294.920†	1193027.6	1155963.1	2.466 mg/L	2.466 mg/L	04:13:20
2	Mo 202.031†	9353.8	9068.6	0.3281 mg/L	0.3281 mg/L	04:13:33
2	Na 589.592†	144817.1	136013.7	18.31 mg/L	18.31 mg/L	04:12:56
2	Ni 231.604†	22834.2	21935.4	0.4082 mg/L	0.4082 mg/L	04:13:22
2	P 214.914†	14600.4	14185.0	7.480 mg/L	7.480 mg/L	04:13:33
2	Pb 220.353†	7877.2	7445.2	0.4201 mg/L	0.4201 mg/L	04:13:33
2	Sb 206.836†	520.5	459.2	0.1554 mg/L	0.1554 mg/L	04:13:33
2	Se 196.026†	1247.3	1191.0	0.6687 mg/L	0.6687 mg/L	04:13:33
2	Sn 189.927†	2714.7	2591.4	0.3311 mg/L	0.3311 mg/L	04:13:33
2	Sr 407.771†	137055.6	132478.4	0.1124 mg/L	0.1124 mg/L	04:12:56
2	Ti 337.279†	5630672.1	5454015.0	5.593 mg/L	5.593 mg/L	04:13:20
2	Tl 190.801†	522.1	512.7	0.3437 mg/L	0.3437 mg/L	04:13:33
2	V 292.402†	131674.8	128415.2	0.4996 mg/L	0.4996 mg/L	04:13:22
2	Zn 213.857†	86262.8	82667.1	0.5011 mg/L	0.5011 mg/L	04:13:22

Mean Data: CF32509-MS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Std.Dev.	
Y 371.029	3488867.1	1.03	mg/L	0.001			0.11%
Ag 328.068†	33895.1	0.1656	mg/L	0.00164	0.1656 mg/L	0.00164	0.99%
Al 237.313†	804248.1	73.74	mg/L	0.062	73.74 mg/L	0.062	0.08%
As 188.979†	554.5	0.3410	mg/L	0.00080	0.3410 mg/L	0.00080	0.23%
B 249.677†	801.9	0.3303	mg/L	0.00377	0.3303 mg/L	0.00377	1.14%
B 182.528†	399.1	0.3318	mg/L	0.00014	0.3318 mg/L	0.00014	0.04%
Ba 233.527†	96629.8	0.7331	mg/L	0.00702	0.7331 mg/L	0.00702	0.96%
Be 313.107†	102403.9	0.0350	mg/L	0.00036	0.0350 mg/L	0.00036	1.03%
Ca 315.887†	2037768.2	18.25	mg/L	0.014	18.25 mg/L	0.014	0.08%
Cd 228.802†	5502.0	0.1472	mg/L	0.00005	0.1472 mg/L	0.00005	0.04%
Co 228.616†	23978.4	0.3683	mg/L	0.00032	0.3683 mg/L	0.00032	0.09%
Cr 267.716†	62145.3	0.4735	mg/L	0.00353	0.4735 mg/L	0.00353	0.75%
Cu 324.752†	106737.8	0.4638	mg/L	0.00444	0.4638 mg/L	0.00444	0.96%
Fe 234.349†	171766.1	85.02	mg/L	0.160	85.02 mg/L	0.160	0.19%
K 766.490†	75522.1	32.39	mg/L	0.079	32.39 mg/L	0.079	0.24%
Li 670.784†	18964.1	0.4472	mg/L	0.00052	0.4472 mg/L	0.00052	0.12%

Mg 279.077†	507930.3	32.98 mg/L	0.040	32.98 mg/L	0.040	0.12%
Mn 257.610†	2305221.2	2.461 mg/L	0.0001	2.461 mg/L	0.0001	0.00%
Mn 294.920†	1156099.4	2.466 mg/L	0.0004	2.466 mg/L	0.0004	0.02%
Mo 202.031†	9061.3	0.3279 mg/L	0.00039	0.3279 mg/L	0.00039	0.12%
Na 589.592†	135674.5	18.27 mg/L	0.064	18.27 mg/L	0.064	0.35%
Ni 231.604†	22109.6	0.4114 mg/L	0.00458	0.4114 mg/L	0.00458	1.11%
P 214.914†	14177.4	7.476 mg/L	0.0057	7.476 mg/L	0.0057	0.08%
Pb 220.353†	7421.9	0.4188 mg/L	0.00194	0.4188 mg/L	0.00194	0.46%
Sb 206.836†	450.1	0.1518 mg/L	0.00521	0.1518 mg/L	0.00521	3.43%
Se 196.026†	1189.1	0.6677 mg/L	0.00147	0.6677 mg/L	0.00147	0.22%
Sn 189.927†	2593.5	0.3314 mg/L	0.00034	0.3314 mg/L	0.00034	0.10%
Sr 407.771†	132282.0	0.1123 mg/L	0.00024	0.1123 mg/L	0.00024	0.21%
Ti 337.279†	5454632.2	5.594 mg/L	0.0009	5.594 mg/L	0.0009	0.02%
Tl 190.801†	516.0	0.3462 mg/L	0.00351	0.3462 mg/L	0.00351	1.01%
V 292.402†	129348.4	0.5032 mg/L	0.00516	0.5032 mg/L	0.00516	1.03%
Zn 213.857†	83224.8	0.5045 mg/L	0.00481	0.5045 mg/L	0.00481	0.95%

Sequence No.: 186
Sample ID: CF32509-SD2 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 137
Date Collected: 6/26/2013 4:15:09 AM
Data Type: Reprocessed on 6/26/2013 10:58:10 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32509-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3424878.1	3424878.1	1.01 mg/L		04:17:15
1	Ag 328.068†	534.5	-209.1	0.0002 mg/L	0.0002 mg/L	04:17:17
1	Al 237.313†	161066.3	159398.0	14.62 mg/L	14.62 mg/L	04:17:15
1	As 188.979†	15.7	14.5	0.0114 mg/L	0.0114 mg/L	04:17:28
1	B 249.677†	-15.2	0.2	0.0026 mg/L	0.0026 mg/L	04:16:58
1	B 182.528†	2.1	9.1	0.0113 mg/L	0.0113 mg/L	04:17:28
1	Ba 233.527†	4210.2	4244.2	0.0328 mg/L	0.0328 mg/L	04:17:17
1	Be 313.107†	1644.5	3056.3	0.0010 mg/L	0.0010 mg/L	04:17:17
1	Ca 315.887†	314815.6	311515.6	2.797 mg/L	2.797 mg/L	04:17:15
1	Cd 228.802†	163.0	13.5	0.0015 mg/L	0.0015 mg/L	04:17:28
1	Co 228.616†	579.1	749.6	0.0072 mg/L	0.0072 mg/L	04:17:28
1	Cr 267.716†	3354.6	2601.0	0.0203 mg/L	0.0203 mg/L	04:17:17
1	Cu 324.752†	8400.7	4336.8	0.0213 mg/L	0.0213 mg/L	04:17:17
1	Fe 234.349†	41780.7	41249.1	20.43 mg/L	20.43 mg/L	04:16:58
1	K 766.490†	4307.4	3507.3	1.641 mg/L	1.641 mg/L	04:16:48
1	Li 670.784†	599.6	864.6	0.0222 mg/L	0.0222 mg/L	04:16:48
1	Mg 279.077†	86094.9	84708.2	5.499 mg/L	5.499 mg/L	04:17:15
1	Mn 257.610†	302255.0	282343.2	0.2990 mg/L	0.2990 mg/L	04:17:15
1	Mn 294.920†	144873.4	143665.0	0.3063 mg/L	0.3063 mg/L	04:17:15
1	Mo 202.031†	46.3	56.1	0.0017 mg/L	0.0017 mg/L	04:17:28
1	Na 589.592†	11940.6	7561.7	1.100 mg/L	1.100 mg/L	04:16:48
1	Ni 231.604†	896.9	708.3	0.0127 mg/L	0.0127 mg/L	04:17:17
1	P 214.914†	1358.4	1387.1	0.7757 mg/L	0.7757 mg/L	04:17:28
1	Pb 220.353†	1071.8	875.0	0.0495 mg/L	0.0495 mg/L	04:17:28
1	Sb 206.836†	48.9	3.4	-0.0031 mg/L	-0.0031 mg/L	04:17:28
1	Se 196.026†	11.0	-6.0	0.0023 mg/L	0.0023 mg/L	04:17:28
1	Sn 189.927†	-11.3	-48.7	-0.0027 mg/L	-0.0027 mg/L	04:17:28
1	Sr 407.771†	19478.7	18984.5	0.0164 mg/L	0.0164 mg/L	04:16:48
1	Ti 337.279†	1234022.4	1219570.6	1.253 mg/L	1.253 mg/L	04:17:15
1	Tl 190.801†	-2.0	5.2	-0.0061 mg/L	-0.0061 mg/L	04:17:28
1	V 292.402†	8202.3	8999.5	0.0351 mg/L	0.0351 mg/L	04:17:17
1	Zn 213.857†	10075.5	9077.5	0.0552 mg/L	0.0552 mg/L	04:17:17
2	Y 371.029	3428345.2	3428345.2	1.01 mg/L		04:17:30
2	Ag 328.068†	515.5	-228.4	0.0001 mg/L	0.0001 mg/L	04:17:33
2	Al 237.313†	159391.3	157585.3	14.45 mg/L	14.45 mg/L	04:17:30
2	As 188.979†	17.8	16.5	0.0127 mg/L	0.0127 mg/L	04:17:43
2	B 249.677†	-17.4	-2.0	0.0017 mg/L	0.0017 mg/L	04:17:11
2	B 182.528†	3.5	10.4	0.0125 mg/L	0.0125 mg/L	04:17:43
2	Ba 233.527†	4145.2	4175.9	0.0323 mg/L	0.0323 mg/L	04:17:33
2	Be 313.107†	1566.7	2978.0	0.0010 mg/L	0.0010 mg/L	04:17:33
2	Ca 315.887†	310941.6	307380.6	2.760 mg/L	2.760 mg/L	04:17:30
2	Cd 228.802†	159.6	10.0	0.0014 mg/L	0.0014 mg/L	04:17:43
2	Co 228.616†	596.8	766.5	0.0075 mg/L	0.0075 mg/L	04:17:43
2	Cr 267.716†	3280.7	2524.7	0.0197 mg/L	0.0197 mg/L	04:17:33

2	Cu 324.752†	8469.9	4396.7	0.0216 mg/L	0.0216 mg/L	04:17:33
2	Fe 234.349†	41753.1	41180.2	20.40 mg/L	20.40 mg/L	04:17:11
2	K 766.490†	4273.7	3469.8	1.625 mg/L	1.625 mg/L	04:17:01
2	Li 670.784†	567.2	832.0	0.0214 mg/L	0.0214 mg/L	04:17:01
2	Mg 279.077†	85030.3	83572.3	5.425 mg/L	5.425 mg/L	04:17:30
2	Mn 257.610†	299212.4	279040.7	0.2955 mg/L	0.2955 mg/L	04:17:30
2	Mn 294.920†	143184.7	141854.9	0.3024 mg/L	0.3024 mg/L	04:17:30
2	Mo 202.031†	41.0	50.8	0.0015 mg/L	0.0015 mg/L	04:17:43
2	Na 589.592†	12346.2	7949.8	1.152 mg/L	1.152 mg/L	04:17:01
2	Ni 231.604†	887.2	697.8	0.0125 mg/L	0.0125 mg/L	04:17:33
2	P 214.914†	1317.4	1345.3	0.7538 mg/L	0.7538 mg/L	04:17:43
2	Pb 220.353†	1052.5	854.9	0.0483 mg/L	0.0483 mg/L	04:17:43
2	Sb 206.836†	48.0	2.6	-0.0034 mg/L	-0.0034 mg/L	04:17:43
2	Se 196.026†	16.0	-1.1	0.0050 mg/L	0.0050 mg/L	04:17:43
2	Sn 189.927†	4.6	-32.9	-0.0008 mg/L	-0.0008 mg/L	04:17:43
2	Sr 407.771†	19322.2	18810.6	0.0162 mg/L	0.0162 mg/L	04:17:01
2	Ti 337.279†	1221525.0	1206013.1	1.239 mg/L	1.239 mg/L	04:17:30
2	Tl 190.801†	-5.2	2.0	-0.0084 mg/L	-0.0084 mg/L	04:17:43
2	V 292.402†	8077.4	8868.1	0.0346 mg/L	0.0346 mg/L	04:17:33
2	Zn 213.857†	9889.6	8884.1	0.0540 mg/L	0.0540 mg/L	04:17:33

Mean Data: CF32509-SD2 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3426611.6	1.01 mg/L		0.001			0.07%
Ag 328.068†	-218.8	0.0001 mg/L		0.00007	0.0001 mg/L	0.00007	55.99%
Al 237.313†	158491.7	14.54 mg/L		0.118	14.54 mg/L	0.118	0.81%
As 188.979†	15.5	0.0121 mg/L		0.00090	0.0121 mg/L	0.00090	7.42%
B 249.677†	-0.9	0.0022 mg/L		0.00064	0.0022 mg/L	0.00064	29.67%
B 182.528†	9.7	0.0119 mg/L		0.00081	0.0119 mg/L	0.00081	6.81%
Ba 233.527†	4210.0	0.0325 mg/L		0.00037	0.0325 mg/L	0.00037	1.13%
Be 313.107†	3017.1	0.0010 mg/L		0.00002	0.0010 mg/L	0.00002	1.76%
Ca 315.887†	309448.1	2.778 mg/L		0.0262	2.778 mg/L	0.0262	0.94%
Cd 228.802†	11.7	0.0015 mg/L		0.00006	0.0015 mg/L	0.00006	4.42%
Co 228.616†	758.1	0.0073 mg/L		0.00021	0.0073 mg/L	0.00021	2.88%
Cr 267.716†	2562.9	0.0200 mg/L		0.00041	0.0200 mg/L	0.00041	2.05%
Cu 324.752†	4366.7	0.0215 mg/L		0.00017	0.0215 mg/L	0.00017	0.79%
Fe 234.349†	41214.6	20.41 mg/L		0.024	20.41 mg/L	0.024	0.12%
K 766.490†	3488.5	1.633 mg/L		0.0113	1.633 mg/L	0.0113	0.69%
Li 670.784†	848.3	0.0218 mg/L		0.00054	0.0218 mg/L	0.00054	2.48%
Mg 279.077†	84140.2	5.462 mg/L		0.0522	5.462 mg/L	0.0522	0.95%
Mn 257.610†	280691.9	0.2973 mg/L		0.00251	0.2973 mg/L	0.00251	0.84%
Mn 294.920†	142759.9	0.3043 mg/L		0.00273	0.3043 mg/L	0.00273	0.90%
Mo 202.031†	53.5	0.0016 mg/L		0.00014	0.0016 mg/L	0.00014	8.50%
Na 589.592†	7755.8	1.126 mg/L		0.0368	1.126 mg/L	0.0368	3.26%
Ni 231.604†	703.0	0.0126 mg/L		0.00014	0.0126 mg/L	0.00014	1.10%
P 214.914†	1366.2	0.7647 mg/L		0.01552	0.7647 mg/L	0.01552	2.03%
Pb 220.353†	865.0	0.0489 mg/L		0.00080	0.0489 mg/L	0.00080	1.64%
Sb 206.836†	3.0	-0.0032 mg/L		0.00024	-0.0032 mg/L	0.00024	7.36%
Se 196.026†	-3.5	0.0037 mg/L		0.00190	0.0037 mg/L	0.00190	51.63%
Sn 189.927†	-40.8	-0.0017 mg/L		0.00135	-0.0017 mg/L	0.00135	78.99%
Sr 407.771†	18897.6	0.0163 mg/L		0.00010	0.0163 mg/L	0.00010	0.64%
Ti 337.279†	1212791.9	1.246 mg/L		0.0098	1.246 mg/L	0.0098	0.79%
Tl 190.801†	3.6	-0.0073 mg/L		0.00169	-0.0073 mg/L	0.00169	23.29%
V 292.402†	8933.8	0.0348 mg/L		0.00035	0.0348 mg/L	0.00035	0.99%
Zn 213.857†	8980.8	0.0546 mg/L		0.00084	0.0546 mg/L	0.00084	1.54%

Sequence No.: 187

Sample ID: CF32509-PDS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 138

Date Collected: 6/26/2013 4:19:19 AM

Data Type: Reprocessed on 6/26/2013 10:58:11 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32509-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3501414.2	3501414.2	1.04 mg/L		04:21:12
1	Ag 328.068†	47164.1	44807.6	0.2181 mg/L	0.2181 mg/L	04:21:15
1	Al 237.313†	758422.0	732763.3	67.18 mg/L	67.18 mg/L	04:21:12

1	As	188.979†	781.5	753.6	0.4627	mg/L	0.4627	mg/L	04:21:25
1	B	249.677†	1119.3	1096.0	0.4505	mg/L	0.4505	mg/L	04:21:03
1	B	182.528†	538.2	526.7	0.4366	mg/L	0.4366	mg/L	04:21:25
1	Ba	233.527†	80378.8	77706.1	0.5897	mg/L	0.5897	mg/L	04:21:15
1	Be	313.107†	132038.7	128937.0	0.0443	mg/L	0.0443	mg/L	04:21:15
1	Ca	315.887†	2034265.1	1965121.1	17.60	mg/L	17.60	mg/L	04:21:12
1	Cd	228.802†	7696.6	7284.9	0.1948	mg/L	0.1948	mg/L	04:21:25
1	Co	228.616†	32550.6	31610.7	0.4893	mg/L	0.4893	mg/L	04:21:25
1	Cr	267.716†	78621.2	75210.3	0.5730	mg/L	0.5730	mg/L	04:21:15
1	Cu	324.752†	143042.1	134173.0	0.5813	mg/L	0.5813	mg/L	04:21:15
1	Fe	234.349†	189346.5	182845.5	90.51	mg/L	90.51	mg/L	04:21:00
1	K	766.490†	69749.8	66609.3	28.59	mg/L	28.59	mg/L	04:21:00
1	Li	670.784†	23880.7	23333.2	0.5498	mg/L	0.5498	mg/L	04:21:00
1	Mg	279.077†	464807.0	448556.5	29.13	mg/L	29.13	mg/L	04:21:15
1	Mn	257.610†	1713848.0	1638935.8	1.743	mg/L	1.743	mg/L	04:21:12
1	Mn	294.920†	863792.4	834768.1	1.780	mg/L	1.780	mg/L	04:21:15
1	Mo	202.031†	12690.2	12264.8	0.4467	mg/L	0.4467	mg/L	04:21:25
1	Na	589.592†	184736.1	174165.3	23.42	mg/L	23.42	mg/L	04:21:00
1	Ni	231.604†	29233.2	28052.1	0.5222	mg/L	0.5222	mg/L	04:21:15
1	P	214.914†	14165.4	13725.0	7.237	mg/L	7.237	mg/L	04:21:25
1	Pb	220.353†	12079.0	11481.1	0.6582	mg/L	0.6582	mg/L	04:21:25
1	Sb	206.836†	1172.3	1087.2	0.4105	mg/L	0.4105	mg/L	04:21:25
1	Se	196.026†	1633.7	1560.7	0.8737	mg/L	0.8737	mg/L	04:21:25
1	Sn	189.927†	3801.2	3633.2	0.4586	mg/L	0.4586	mg/L	04:21:25
1	Sr	407.771†	140101.3	135044.3	0.1146	mg/L	0.1146	mg/L	04:21:00
1	Ti	337.279†	6003129.9	5798265.0	5.946	mg/L	5.946	mg/L	04:21:12
1	Tl	190.801†	703.0	686.0	0.4717	mg/L	0.4717	mg/L	04:21:25
1	V	292.402†	160944.2	156318.8	0.6100	mg/L	0.6100	mg/L	04:21:15
1	Zn	213.857†	114509.0	109707.0	0.6660	mg/L	0.6660	mg/L	04:21:15
2	Y	371.029	3501942.0	3501942.0	1.04	mg/L			04:21:28
2	Ag	328.068†	47272.8	44905.6	0.2186	mg/L	0.2186	mg/L	04:21:31
2	Al	237.313†	756284.2	730588.9	66.99	mg/L	66.99	mg/L	04:21:28
2	As	188.979†	771.8	744.1	0.4569	mg/L	0.4569	mg/L	04:21:41
2	B	249.677†	1132.1	1108.3	0.4555	mg/L	0.4555	mg/L	04:21:07
2	B	182.528†	533.3	521.8	0.4326	mg/L	0.4326	mg/L	04:21:41
2	Ba	233.527†	80296.8	77615.3	0.5890	mg/L	0.5890	mg/L	04:21:31
2	Be	313.107†	132127.6	129003.6	0.0443	mg/L	0.0443	mg/L	04:21:31
2	Ca	315.887†	2028896.8	1959642.0	17.55	mg/L	17.55	mg/L	04:21:28
2	Cd	228.802†	7670.2	7258.2	0.1941	mg/L	0.1941	mg/L	04:21:41
2	Co	228.616†	32523.3	31579.6	0.4888	mg/L	0.4888	mg/L	04:21:41
2	Cr	267.716†	78611.2	75189.2	0.5728	mg/L	0.5728	mg/L	04:21:31
2	Cu	324.752†	142933.5	134047.3	0.5807	mg/L	0.5807	mg/L	04:21:31
2	Fe	234.349†	190684.4	184109.8	91.14	mg/L	91.14	mg/L	04:21:05
2	K	766.490†	70268.2	67099.7	28.80	mg/L	28.80	mg/L	04:21:05
2	Li	670.784†	23887.4	23336.2	0.5499	mg/L	0.5499	mg/L	04:21:05
2	Mg	279.077†	464080.1	447787.0	29.08	mg/L	29.08	mg/L	04:21:31
2	Mn	257.610†	1709494.9	1634483.4	1.738	mg/L	1.738	mg/L	04:21:28
2	Mn	294.920†	862754.6	833640.4	1.778	mg/L	1.778	mg/L	04:21:31
2	Mo	202.031†	12658.2	12232.0	0.4454	mg/L	0.4454	mg/L	04:21:41
2	Na	589.592†	185666.6	175036.8	23.54	mg/L	23.54	mg/L	04:21:05
2	Ni	231.604†	29261.6	28075.3	0.5226	mg/L	0.5226	mg/L	04:21:31
2	P	214.914†	14168.6	13726.0	7.237	mg/L	7.237	mg/L	04:21:41
2	Pb	220.353†	12049.5	11450.8	0.6565	mg/L	0.6565	mg/L	04:21:41
2	Sb	206.836†	1150.8	1066.3	0.4016	mg/L	0.4016	mg/L	04:21:41
2	Se	196.026†	1632.1	1558.9	0.8727	mg/L	0.8727	mg/L	04:21:41
2	Sn	189.927†	3790.3	3622.1	0.4573	mg/L	0.4573	mg/L	04:21:41
2	Sr	407.771†	140755.6	135655.6	0.1151	mg/L	0.1151	mg/L	04:21:05
2	Ti	337.279†	5988965.3	5783715.2	5.931	mg/L	5.931	mg/L	04:21:28
2	Tl	190.801†	701.7	684.6	0.4704	mg/L	0.4704	mg/L	04:21:41
2	V	292.402†	160740.3	156098.5	0.6091	mg/L	0.6091	mg/L	04:21:31
2	Zn	213.857†	114454.8	109638.1	0.6655	mg/L	0.6655	mg/L	04:21:31

Mean Data: CF32509-PDS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	3501678.1	1.04	mg/L	0.000				0.01%
Ag 328.068†	44856.6	0.2184	mg/L	0.00034	0.2184	mg/L	0.00034	0.16%
Al 237.313†	731676.1	67.09	mg/L	0.141	67.09	mg/L	0.141	0.21%
As 188.979†	748.9	0.4598	mg/L	0.00411	0.4598	mg/L	0.00411	0.89%
B 249.677†	1102.1	0.4530	mg/L	0.00352	0.4530	mg/L	0.00352	0.78%
B 182.528†	524.3	0.4346	mg/L	0.00285	0.4346	mg/L	0.00285	0.66%
Ba 233.527†	77660.7	0.5893	mg/L	0.00049	0.5893	mg/L	0.00049	0.08%

Be 313.107†	128970.3	0.0443 mg/L	0.00002	0.0443 mg/L	0.00002	0.04%
Ca 315.887†	1962381.6	17.57 mg/L	0.035	17.57 mg/L	0.035	0.20%
Cd 228.802†	7271.5	0.1944 mg/L	0.00051	0.1944 mg/L	0.00051	0.26%
Co 228.616†	31595.1	0.4891 mg/L	0.00033	0.4891 mg/L	0.00033	0.07%
Cr 267.716†	75199.7	0.5729 mg/L	0.00011	0.5729 mg/L	0.00011	0.02%
Cu 324.752†	134110.2	0.5810 mg/L	0.00039	0.5810 mg/L	0.00039	0.07%
Fe 234.349†	183477.7	90.82 mg/L	0.443	90.82 mg/L	0.443	0.49%
K 766.490†	66854.5	28.69 mg/L	0.148	28.69 mg/L	0.148	0.52%
Li 670.784†	23334.7	0.5498 mg/L	0.00005	0.5498 mg/L	0.00005	0.01%
Mg 279.077†	448171.7	29.10 mg/L	0.035	29.10 mg/L	0.035	0.12%
Mn 257.610†	1636709.6	1.740 mg/L	0.0035	1.740 mg/L	0.0035	0.20%
Mn 294.920†	834204.3	1.779 mg/L	0.0017	1.779 mg/L	0.0017	0.10%
Mo 202.031†	12248.4	0.4461 mg/L	0.00093	0.4461 mg/L	0.00093	0.21%
Na 589.592†	174601.1	23.48 mg/L	0.083	23.48 mg/L	0.083	0.35%
Ni 231.604†	28063.7	0.5224 mg/L	0.00030	0.5224 mg/L	0.00030	0.06%
P 214.914†	13725.5	7.237 mg/L	0.0004	7.237 mg/L	0.0004	0.01%
Pb 220.353†	11466.0	0.6573 mg/L	0.00122	0.6573 mg/L	0.00122	0.19%
Sb 206.836†	1076.8	0.4060 mg/L	0.00624	0.4060 mg/L	0.00624	1.54%
Se 196.026†	1559.8	0.8732 mg/L	0.00067	0.8732 mg/L	0.00067	0.08%
Sn 189.927†	3627.6	0.4579 mg/L	0.00098	0.4579 mg/L	0.00098	0.21%
Sr 407.771†	135349.9	0.1149 mg/L	0.00037	0.1149 mg/L	0.00037	0.32%
Ti 337.279†	5790990.1	5.939 mg/L	0.0105	5.939 mg/L	0.0105	0.18%
Tl 190.801†	685.3	0.4710 mg/L	0.00092	0.4710 mg/L	0.00092	0.19%
V 292.402†	156208.7	0.6095 mg/L	0.00060	0.6095 mg/L	0.00060	0.10%
Zn 213.857†	109672.6	0.6657 mg/L	0.00032	0.6657 mg/L	0.00032	0.05%

Sequence No.: 188
Sample ID: 1306384-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 139
Date Collected: 6/26/2013 4:23:17 AM
Data Type: Reprocessed on 6/26/2013 10:58:11 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306384-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3571601.5	3571601.5	1.06 mg/L			04:25:08
1	Ag 328.068†	-404.3	-1119.5	-0.0023 mg/L		-0.0023 mg/L	04:25:11
1	Al 237.313†	1035855.5	981012.0	89.94 mg/L		89.94 mg/L	04:25:08
1	As 188.979†	37.2	34.1	0.0232 mg/L		0.0232 mg/L	04:25:21
1	B 249.677†	-44.0	-26.4	-0.0083 mg/L		-0.0083 mg/L	04:24:58
1	B 182.528†	22.2	27.9	0.0268 mg/L		0.0268 mg/L	04:25:21
1	Ba 233.527†	68881.3	65296.3	0.4956 mg/L		0.4956 mg/L	04:25:11
1	Be 313.107†	18496.7	18943.3	0.0052 mg/L		0.0052 mg/L	04:25:11
1	Ca 315.887†	2105077.0	1993554.0	17.85 mg/L		17.85 mg/L	04:25:08
1	Cd 228.802†	189.4	31.8	0.0007 mg/L		0.0007 mg/L	04:25:21
1	Co 228.616†	3474.2	3466.8	0.0385 mg/L		0.0385 mg/L	04:25:21
1	Cr 267.716†	19098.3	17369.2	0.1326 mg/L		0.1326 mg/L	04:25:11
1	Cu 324.752†	32527.9	26836.9	0.1242 mg/L		0.1242 mg/L	04:25:11
1	Fe 234.349†	204037.4	193160.0	95.62 mg/L		95.62 mg/L	04:24:56
1	K 766.490†	48205.9	44890.5	19.31 mg/L		19.31 mg/L	04:24:56
1	Li 670.784†	5128.6	5127.7	0.1223 mg/L		0.1223 mg/L	04:24:58
1	Mg 279.077†	585141.8	553654.6	35.95 mg/L		35.95 mg/L	04:25:08
1	Mn 257.610†	2499214.5	2349904.3	2.506 mg/L		2.506 mg/L	04:25:08
1	Mn 294.920†	1245624.4	1179849.4	2.516 mg/L		2.516 mg/L	04:25:08
1	Mo 202.031†	134.7	137.9	-0.0070 mg/L		-0.0070 mg/L	04:25:11
1	Na 589.592†	17492.6	12333.5	1.740 mg/L		1.740 mg/L	04:24:58
1	Ni 231.604†	4703.5	4275.6	0.0790 mg/L		0.0790 mg/L	04:25:11
1	P 214.914†	10506.2	9992.0	5.287 mg/L		5.287 mg/L	04:25:11
1	Pb 220.353†	2230.5	1928.4	0.0924 mg/L		0.0924 mg/L	04:25:21
1	Sb 206.836†	73.1	24.4	-0.0273 mg/L		-0.0273 mg/L	04:25:21
1	Se 196.026†	-3.7	-20.4	-0.0012 mg/L		-0.0012 mg/L	04:25:21
1	Sn 189.927†	-235.2	-260.1	-0.0193 mg/L		-0.0193 mg/L	04:25:21
1	Sr 407.771†	119658.3	113032.6	0.0960 mg/L		0.0960 mg/L	04:24:56
1	Ti 337.279†	7079307.6	6703142.8	6.874 mg/L		6.874 mg/L	04:25:08
1	Tl 190.801†	1.9	8.9	-0.0394 mg/L		-0.0394 mg/L	04:25:21
1	V 292.402†	50593.1	48797.3	0.1798 mg/L		0.1798 mg/L	04:25:11
1	Zn 213.857†	37463.0	34596.1	0.2080 mg/L		0.2080 mg/L	04:25:11
2	Y 371.029	3565583.2	3565583.2	1.05 mg/L			04:25:24
2	Ag 328.068†	-532.0	-1241.2	-0.0029 mg/L		-0.0029 mg/L	04:25:27
2	Al 237.313†	1034324.6	981215.4	89.96 mg/L		89.96 mg/L	04:25:24

2	As	188.979†	44.3	41.0	0.0274	mg/L	0.0274	mg/L	04:25:37
2	B	249.677†	-7.3	8.3	0.0059	mg/L	0.0059	mg/L	04:25:03
2	B	182.528†	26.4	32.0	0.0302	mg/L	0.0302	mg/L	04:25:37
2	Ba	233.527†	69419.9	65917.2	0.5003	mg/L	0.5003	mg/L	04:25:27
2	Be	313.107†	18702.9	19168.3	0.0053	mg/L	0.0053	mg/L	04:25:27
2	Ca	315.887†	2100669.2	1992737.8	17.84	mg/L	17.84	mg/L	04:25:24
2	Cd	228.802†	188.4	31.2	0.0007	mg/L	0.0007	mg/L	04:25:37
2	Co	228.616†	3467.9	3466.5	0.0384	mg/L	0.0384	mg/L	04:25:37
2	Cr	267.716†	19202.2	17498.3	0.1336	mg/L	0.1336	mg/L	04:25:27
2	Cu	324.752†	32729.5	27080.0	0.1252	mg/L	0.1252	mg/L	04:25:27
2	Fe	234.349†	205217.1	194604.6	96.34	mg/L	96.34	mg/L	04:25:01
2	K	766.490†	48542.7	45287.0	19.48	mg/L	19.48	mg/L	04:25:01
2	Li	670.784†	5239.9	5241.5	0.1250	mg/L	0.1250	mg/L	04:25:03
2	Mg	279.077†	584189.0	553686.2	35.96	mg/L	35.96	mg/L	04:25:24
2	Mn	257.610†	2496184.5	2351024.4	2.507	mg/L	2.507	mg/L	04:25:24
2	Mn	294.920†	1244194.8	1180484.0	2.518	mg/L	2.518	mg/L	04:25:24
2	Mo	202.031†	125.5	129.4	-0.0075	mg/L	-0.0075	mg/L	04:25:27
2	Na	589.592†	17730.1	12586.6	1.774	mg/L	1.774	mg/L	04:25:03
2	Ni	231.604†	4773.0	4349.0	0.0804	mg/L	0.0804	mg/L	04:25:27
2	P	214.914†	10527.3	10028.9	5.306	mg/L	5.306	mg/L	04:25:27
2	Pb	220.353†	2151.7	1857.3	0.0882	mg/L	0.0882	mg/L	04:25:37
2	Sb	206.836†	79.9	31.0	-0.0250	mg/L	-0.0250	mg/L	04:25:37
2	Se	196.026†	-11.2	-27.5	-0.0051	mg/L	-0.0051	mg/L	04:25:37
2	Sn	189.927†	-204.8	-231.7	-0.0158	mg/L	-0.0158	mg/L	04:25:37
2	Sr	407.771†	119922.1	113473.9	0.0964	mg/L	0.0964	mg/L	04:25:01
2	Ti	337.279†	7070801.6	6706388.6	6.877	mg/L	6.877	mg/L	04:25:24
2	Tl	190.801†	-4.6	2.8	-0.0444	mg/L	-0.0444	mg/L	04:25:37
2	V	292.402†	50946.0	49212.9	0.1814	mg/L	0.1814	mg/L	04:25:27
2	Zn	213.857†	37622.9	34807.5	0.2093	mg/L	0.2093	mg/L	04:25:27

Mean Data: 1306384-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3568592.3	1.06	mg/L	0.001			0.12%
Ag 328.068†	-1180.4	-0.0026	mg/L	0.00040	-0.0026	mg/L	0.00040 15.54%
Al 237.313†	981113.7	89.95	mg/L	0.013	89.95	mg/L	0.013 0.01%
As 188.979†	37.6	0.0253	mg/L	0.00296	0.0253	mg/L	0.00296 11.71%
B 249.677†	-9.1	-0.0012	mg/L	0.01001	-0.0012	mg/L	0.01001 849.63%
B 182.528†	30.0	0.0285	mg/L	0.00238	0.0285	mg/L	0.00238 8.34%
Ba 233.527†	65606.7	0.4980	mg/L	0.00333	0.4980	mg/L	0.00333 0.67%
Be 313.107†	19055.8	0.0053	mg/L	0.00006	0.0053	mg/L	0.00006 1.05%
Ca 315.887†	1993145.9	17.85	mg/L	0.005	17.85	mg/L	0.005 0.03%
Cd 228.802†	31.5	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002 2.80%
Co 228.616†	3466.7	0.0384	mg/L	0.00001	0.0384	mg/L	0.00001 0.02%
Cr 267.716†	17433.7	0.1331	mg/L	0.00069	0.1331	mg/L	0.00069 0.52%
Cu 324.752†	26958.4	0.1247	mg/L	0.00074	0.1247	mg/L	0.00074 0.59%
Fe 234.349†	193882.3	95.98	mg/L	0.506	95.98	mg/L	0.506 0.53%
K 766.490†	45088.7	19.40	mg/L	0.120	19.40	mg/L	0.120 0.62%
Li 670.784†	5184.6	0.1236	mg/L	0.00189	0.1236	mg/L	0.00189 1.53%
Mg 279.077†	553670.4	35.95	mg/L	0.001	35.95	mg/L	0.001 0.00%
Mn 257.610†	2350464.4	2.507	mg/L	0.0007	2.507	mg/L	0.0007 0.03%
Mn 294.920†	1180166.7	2.517	mg/L	0.0010	2.517	mg/L	0.0010 0.04%
Mo 202.031†	133.7	-0.0072	mg/L	0.00031	-0.0072	mg/L	0.00031 4.22%
Na 589.592†	12460.0	1.757	mg/L	0.0240	1.757	mg/L	0.0240 1.37%
Ni 231.604†	4312.3	0.0797	mg/L	0.00097	0.0797	mg/L	0.00097 1.21%
P 214.914†	10010.4	5.296	mg/L	0.0137	5.296	mg/L	0.0137 0.26%
Pb 220.353†	1892.9	0.0903	mg/L	0.00295	0.0903	mg/L	0.00295 3.26%
Sb 206.836†	27.7	-0.0262	mg/L	0.00167	-0.0262	mg/L	0.00167 6.38%
Se 196.026†	-23.9	-0.0031	mg/L	0.00274	-0.0031	mg/L	0.00274 87.16%
Sn 189.927†	-245.9	-0.0176	mg/L	0.00246	-0.0176	mg/L	0.00246 14.01%
Sr 407.771†	113253.3	0.0962	mg/L	0.00026	0.0962	mg/L	0.00026 0.27%
Ti 337.279†	6704765.7	6.875	mg/L	0.0024	6.875	mg/L	0.0024 0.03%
Tl 190.801†	5.8	-0.0419	mg/L	0.00351	-0.0419	mg/L	0.00351 8.37%
V 292.402†	49005.1	0.1806	mg/L	0.00114	0.1806	mg/L	0.00114 0.63%
Zn 213.857†	34701.8	0.2086	mg/L	0.00089	0.2086	mg/L	0.00089 0.43%

Sequence No.: 189

Sample ID: 1306384-03

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Autosampler Location: 140

Date Collected: 6/26/2013 4:27:14 AM

Data Type: Reprocessed on 6/26/2013 10:58:12 AM

Initial Sample Vol:

Replicate Data: 1306384-03

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc.	Units	Conc.	Units	
1	Y 371.029	3499821.2	3499821.2			1.04	mg/L			04:29:10
1	Ag 328.068†	325.9	-422.0			0.0014	mg/L	0.0014	mg/L	04:29:10
1	Al 237.313†	1003564.6	969928.1			88.93	mg/L	88.93	mg/L	04:29:10
1	As 188.979†	102.0	97.5			0.0619	mg/L	0.0619	mg/L	04:29:20
1	B 249.677†	-12.2	3.4			0.0039	mg/L	0.0039	mg/L	04:28:57
1	B 182.528†	35.4	41.2			0.0377	mg/L	0.0377	mg/L	04:29:20
1	Ba 233.527†	239790.8	231748.9			1.757	mg/L	1.757	mg/L	04:29:10
1	Be 313.107†	12418.4	13430.1			0.0040	mg/L	0.0040	mg/L	04:29:10
1	Ca 315.887†	7174721.1	6932194.4			62.05	mg/L	62.05	mg/L	04:29:06
1	Cd 228.802†	230.3	75.1			0.0017	mg/L	0.0017	mg/L	04:29:20
1	Co 228.616†	3466.4	3526.8			0.0455	mg/L	0.0455	mg/L	04:29:20
1	Cr 267.716†	21506.3	20066.3			0.1532	mg/L	0.1532	mg/L	04:29:10
1	Cu 324.752†	252333.6	239822.0			1.031	mg/L	1.031	mg/L	04:29:10
1	Fe 234.349†	228302.9	220564.4			109.1	mg/L	109.1	mg/L	04:28:55
1	K 766.490†	35069.2	33135.2			14.29	mg/L	14.29	mg/L	04:28:55
1	Li 670.784†	6669.3	6715.8			0.1596	mg/L	0.1596	mg/L	04:28:57
1	Mg 279.077†	439801.3	424602.8			27.57	mg/L	27.57	mg/L	04:29:10
1	Mn 257.610†	1440312.5	1375427.3			1.455	mg/L	1.455	mg/L	04:29:10
1	Mn 294.920†	726563.6	702571.5			1.498	mg/L	1.498	mg/L	04:29:10
1	Mo 202.031†	479.6	473.8			-0.0016	mg/L	-0.0016	mg/L	04:29:20
1	Na 589.592†	21067.1	16126.4			2.248	mg/L	2.248	mg/L	04:28:57
1	Ni 231.604†	5958.9	5579.7			0.1033	mg/L	0.1033	mg/L	04:29:20
1	P 214.914†	16464.8	15952.6			8.403	mg/L	8.403	mg/L	04:29:20
1	Pb 220.353†	53327.6	51336.5			2.981	mg/L	2.981	mg/L	04:29:10
1	Sb 206.836†	75.4	28.0			-0.0317	mg/L	-0.0317	mg/L	04:29:20
1	Se 196.026†	-22.2	-38.3			-0.0103	mg/L	-0.0103	mg/L	04:29:20
1	Sn 189.927†	865.2	798.4			0.1380	mg/L	0.1380	mg/L	04:29:20
1	Sr 407.771†	608464.8	587590.4			0.4977	mg/L	0.4977	mg/L	04:28:55
1	Ti 337.279†	4059591.8	3923257.3			4.024	mg/L	4.024	mg/L	04:29:10
1	Tl 190.801†	8.1	15.0			-0.0478	mg/L	-0.0478	mg/L	04:29:20
1	V 292.402†	58909.3	57814.0			0.2207	mg/L	0.2207	mg/L	04:29:10
1	Zn 213.857†	146301.5	140472.0			0.8564	mg/L	0.8564	mg/L	04:29:10
2	Y 371.029	3527341.4	3527341.4			1.04	mg/L			04:29:26
2	Ag 328.068†	375.8	-376.6			0.0016	mg/L	0.0016	mg/L	04:29:26
2	Al 237.313†	1009097.2	967667.2			88.72	mg/L	88.72	mg/L	04:29:26
2	As 188.979†	102.4	97.1			0.0616	mg/L	0.0616	mg/L	04:29:37
2	B 249.677†	10.3	25.1			0.0128	mg/L	0.0128	mg/L	04:29:01
2	B 182.528†	35.7	41.2			0.0377	mg/L	0.0377	mg/L	04:29:37
2	Ba 233.527†	241551.6	231629.3			1.757	mg/L	1.757	mg/L	04:29:26
2	Be 313.107†	12398.7	13317.7			0.0040	mg/L	0.0040	mg/L	04:29:26
2	Ca 315.887†	7247802.3	6948167.8			62.20	mg/L	62.20	mg/L	04:29:23
2	Cd 228.802†	227.8	70.9			0.0016	mg/L	0.0016	mg/L	04:29:37
2	Co 228.616†	3474.2	3508.1			0.0452	mg/L	0.0452	mg/L	04:29:37
2	Cr 267.716†	21639.4	20031.8			0.1529	mg/L	0.1529	mg/L	04:29:26
2	Cu 324.752†	253804.6	239330.1			1.028	mg/L	1.028	mg/L	04:29:26
2	Fe 234.349†	226997.2	217592.0			107.6	mg/L	107.6	mg/L	04:28:59
2	K 766.490†	34782.3	32595.8			14.06	mg/L	14.06	mg/L	04:28:59
2	Li 670.784†	6704.2	6698.9			0.1592	mg/L	0.1592	mg/L	04:29:01
2	Mg 279.077†	442588.6	423959.6			27.53	mg/L	27.53	mg/L	04:29:26
2	Mn 257.610†	1448789.4	1372696.7			1.452	mg/L	1.452	mg/L	04:29:26
2	Mn 294.920†	731532.2	701857.8			1.497	mg/L	1.497	mg/L	04:29:26
2	Mo 202.031†	483.8	474.1			-0.0013	mg/L	-0.0013	mg/L	04:29:37
2	Na 589.592†	21145.6	16042.8			2.237	mg/L	2.237	mg/L	04:29:01
2	Ni 231.604†	5975.2	5550.4			0.1028	mg/L	0.1028	mg/L	04:29:37
2	P 214.914†	16473.7	15837.1			8.342	mg/L	8.342	mg/L	04:29:37
2	Pb 220.353†	53795.8	51383.4			2.984	mg/L	2.984	mg/L	04:29:26
2	Sb 206.836†	79.2	31.1			-0.0298	mg/L	-0.0298	mg/L	04:29:37
2	Se 196.026†	-9.2	-25.7			-0.0034	mg/L	-0.0034	mg/L	04:29:37
2	Sn 189.927†	881.8	807.8			0.1392	mg/L	0.1392	mg/L	04:29:37
2	Sr 407.771†	604365.3	579074.5			0.4905	mg/L	0.4905	mg/L	04:28:59
2	Ti 337.279†	4082378.4	3914500.6			4.015	mg/L	4.015	mg/L	04:29:26
2	Tl 190.801†	-0.9	6.3			-0.0538	mg/L	-0.0538	mg/L	04:29:37
2	V 292.402†	59357.9	57799.9			0.2206	mg/L	0.2206	mg/L	04:29:26
2	Zn 213.857†	147064.5	140100.7			0.8542	mg/L	0.8542	mg/L	04:29:26

Mean Data: 1306384-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3513581.3	1.04 mg/L		0.006				0.55%
Ag 328.068†	-399.3	0.0015 mg/L		0.00013	0.0015 mg/L		0.00013	8.57%
Al 237.313†	968797.6	88.82 mg/L		0.147	88.82 mg/L		0.147	0.17%
As 188.979†	97.3	0.0618 mg/L		0.00019	0.0618 mg/L		0.00019	0.30%
B 249.677†	14.3	0.0084 mg/L		0.00625	0.0084 mg/L		0.00625	74.70%
B 182.528†	41.2	0.0377 mg/L		0.00000	0.0377 mg/L		0.00000	0.01%
Ba 233.527†	231689.1	1.757 mg/L		0.0006	1.757 mg/L		0.0006	0.04%
Be 313.107†	13373.9	0.0040 mg/L		0.00003	0.0040 mg/L		0.00003	0.67%
Ca 315.887†	6940181.1	62.13 mg/L		0.101	62.13 mg/L		0.101	0.16%
Cd 228.802†	73.0	0.0016 mg/L		0.00006	0.0016 mg/L		0.00006	3.76%
Co 228.616†	3517.4	0.0454 mg/L		0.00020	0.0454 mg/L		0.00020	0.43%
Cr 267.716†	20049.1	0.1530 mg/L		0.00019	0.1530 mg/L		0.00019	0.12%
Cu 324.752†	239576.1	1.029 mg/L		0.0015	1.029 mg/L		0.0015	0.15%
Fe 234.349†	219078.2	108.4 mg/L		1.04	108.4 mg/L		1.04	0.96%
K 766.490†	32865.5	14.18 mg/L		0.163	14.18 mg/L		0.163	1.15%
Li 670.784†	6707.4	0.1594 mg/L		0.00028	0.1594 mg/L		0.00028	0.18%
Mg 279.077†	424281.2	27.55 mg/L		0.030	27.55 mg/L		0.030	0.11%
Mn 257.610†	1374062.0	1.454 mg/L		0.0018	1.454 mg/L		0.0018	0.13%
Mn 294.920†	702214.6	1.498 mg/L		0.0011	1.498 mg/L		0.0011	0.07%
Mo 202.031†	474.0	-0.0014 mg/L		0.00017	-0.0014 mg/L		0.00017	12.08%
Na 589.592†	16084.6	2.242 mg/L		0.0079	2.242 mg/L		0.0079	0.35%
Ni 231.604†	5565.1	0.1031 mg/L		0.00039	0.1031 mg/L		0.00039	0.37%
P 214.914†	15894.8	8.372 mg/L		0.0428	8.372 mg/L		0.0428	0.51%
Pb 220.353†	51359.9	2.983 mg/L		0.0020	2.983 mg/L		0.0020	0.07%
Sb 206.836†	29.5	-0.0308 mg/L		0.00134	-0.0308 mg/L		0.00134	4.36%
Se 196.026†	-32.0	-0.0069 mg/L		0.00488	-0.0069 mg/L		0.00488	71.00%
Sn 189.927†	803.1	0.1386 mg/L		0.00088	0.1386 mg/L		0.00088	0.63%
Sr 407.771†	583332.4	0.4941 mg/L		0.00510	0.4941 mg/L		0.00510	1.03%
Ti 337.279†	3918879.0	4.020 mg/L		0.0063	4.020 mg/L		0.0063	0.16%
Tl 190.801†	10.6	-0.0508 mg/L		0.00420	-0.0508 mg/L		0.00420	8.26%
V 292.402†	57806.9	0.2206 mg/L		0.00003	0.2206 mg/L		0.00003	0.01%
Zn 213.857†	140286.4	0.8553 mg/L		0.00156	0.8553 mg/L		0.00156	0.18%

Sequence No.: 190
Sample ID: 1306384-04
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 141
Date Collected: 6/26/2013 4:31:14 AM
Data Type: Reprocessed on 6/26/2013 10:58:13 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306384-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib	Sample Conc. Units	Analysis Time
1	Y 371.029	3562731.4	3562731.4	1.05 mg/L			04:33:06
1	Ag 328.068†	-362.7	-1081.1	-0.0022 mg/L		-0.0022 mg/L	04:33:09
1	Al 237.313†	895318.8	850078.8	77.94 mg/L		77.94 mg/L	04:33:06
1	As 188.979†	33.1	30.4	0.0209 mg/L		0.0209 mg/L	04:33:19
1	B 249.677†	-38.1	-21.0	-0.0060 mg/L		-0.0060 mg/L	04:32:56
1	B 182.528†	24.2	30.0	0.0285 mg/L		0.0285 mg/L	04:33:19
1	Ba 233.527†	62318.7	59230.5	0.4496 mg/L		0.4496 mg/L	04:33:09
1	Be 313.107†	14825.2	15502.4	0.0041 mg/L		0.0041 mg/L	04:33:09
1	Ca 315.887†	2845006.4	2700736.5	24.18 mg/L		24.18 mg/L	04:33:06
1	Cd 228.802†	189.8	32.7	0.0008 mg/L		0.0008 mg/L	04:33:19
1	Co 228.616†	3277.7	3288.6	0.0358 mg/L		0.0358 mg/L	04:33:19
1	Cr 267.716†	18453.6	16802.4	0.1283 mg/L		0.1283 mg/L	04:33:09
1	Cu 324.752†	39124.9	33174.4	0.1511 mg/L		0.1511 mg/L	04:33:09
1	Fe 234.349†	197444.1	187383.6	92.75 mg/L		92.75 mg/L	04:32:54
1	K 766.490†	47597.3	44426.6	19.11 mg/L		19.11 mg/L	04:32:54
1	Li 670.784†	4862.0	4886.8	0.1166 mg/L		0.1166 mg/L	04:32:56
1	Mg 279.077†	565730.9	536612.2	34.85 mg/L		34.85 mg/L	04:33:06
1	Mn 257.610†	1906054.1	1792863.1	1.908 mg/L		1.908 mg/L	04:33:06
1	Mn 294.920†	951730.4	903868.7	1.928 mg/L		1.928 mg/L	04:33:06
1	Mo 202.031†	71.9	78.7	-0.0090 mg/L		-0.0090 mg/L	04:33:09
1	Na 589.592†	17696.8	12568.5	1.771 mg/L		1.771 mg/L	04:32:56
1	Ni 231.604†	4158.4	3769.4	0.0696 mg/L		0.0696 mg/L	04:33:09
1	P 214.914†	11477.4	10938.5	5.783 mg/L		5.783 mg/L	04:33:09
1	Pb 220.353†	1324.1	1073.5	0.0453 mg/L		0.0453 mg/L	04:33:19
1	Sb 206.836†	84.0	34.9	-0.0218 mg/L		-0.0218 mg/L	04:33:19
1	Se 196.026†	-13.8	-29.9	-0.0066 mg/L		-0.0066 mg/L	04:33:19

1	Sn 189.927†	-252.4	-277.0	-0.0175 mg/L	-0.0175 mg/L	04:33:19
1	Sr 407.771†	125062.6	118443.5	0.1006 mg/L	0.1006 mg/L	04:32:54
1	Ti 337.279†	6971641.3	6617648.9	6.786 mg/L	6.786 mg/L	04:33:06
1	Tl 190.801†	-0.0	7.1	-0.0406 mg/L	-0.0406 mg/L	04:33:19
1	V 292.402†	55001.6	53100.5	0.1967 mg/L	0.1967 mg/L	04:33:09
1	Zn 213.857†	35922.2	33222.1	0.1997 mg/L	0.1997 mg/L	04:33:09
2	Y 371.029	3582670.2	3582670.2	1.06 mg/L		04:33:22
2	Ag 328.068†	-259.1	-981.3	-0.0017 mg/L	-0.0017 mg/L	04:33:25
2	Al 237.313†	902665.5	852283.4	78.14 mg/L	78.14 mg/L	04:33:22
2	As 188.979†	44.6	41.1	0.0274 mg/L	0.0274 mg/L	04:33:35
2	B 249.677†	-17.6	-1.4	0.0019 mg/L	0.0019 mg/L	04:33:01
2	B 182.528†	25.6	31.1	0.0295 mg/L	0.0295 mg/L	04:33:35
2	Ba 233.527†	62445.1	59020.7	0.4480 mg/L	0.4480 mg/L	04:33:25
2	Be 313.107†	14710.1	15315.5	0.0040 mg/L	0.0040 mg/L	04:33:25
2	Ca 315.887†	2868832.6	2708196.0	24.25 mg/L	24.25 mg/L	04:33:22
2	Cd 228.802†	184.2	26.4	0.0006 mg/L	0.0006 mg/L	04:33:35
2	Co 228.616†	3316.9	3308.3	0.0361 mg/L	0.0361 mg/L	04:33:35
2	Cr 267.716†	18442.1	16694.0	0.1275 mg/L	0.1275 mg/L	04:33:25
2	Cu 324.752†	38767.1	32630.0	0.1488 mg/L	0.1488 mg/L	04:33:25
2	Fe 234.349†	196850.2	185780.3	91.96 mg/L	91.96 mg/L	04:32:59
2	K 766.490†	47485.1	44069.2	18.96 mg/L	18.96 mg/L	04:32:59
2	Li 670.784†	4767.8	4772.2	0.1140 mg/L	0.1140 mg/L	04:33:01
2	Mg 279.077†	570896.1	538498.8	34.97 mg/L	34.97 mg/L	04:33:22
2	Mn 257.610†	1922303.9	1798131.7	1.913 mg/L	1.913 mg/L	04:33:22
2	Mn 294.920†	959960.7	906609.3	1.934 mg/L	1.934 mg/L	04:33:22
2	Mo 202.031†	157.3	158.9	-0.0058 mg/L	-0.0058 mg/L	04:33:25
2	Na 589.592†	17852.1	12621.5	1.778 mg/L	1.778 mg/L	04:33:01
2	Ni 231.604†	4173.4	3761.5	0.0695 mg/L	0.0695 mg/L	04:33:25
2	P 214.914†	11517.9	10916.1	5.771 mg/L	5.771 mg/L	04:33:25
2	Pb 220.353†	1300.3	1044.1	0.0436 mg/L	0.0436 mg/L	04:33:35
2	Sb 206.836†	83.4	33.9	-0.0219 mg/L	-0.0219 mg/L	04:33:35
2	Se 196.026†	-12.5	-28.6	-0.0060 mg/L	-0.0060 mg/L	04:33:35
2	Sn 189.927†	-286.0	-307.4	-0.0212 mg/L	-0.0212 mg/L	04:33:35
2	Sr 407.771†	124499.3	117251.4	0.0995 mg/L	0.0995 mg/L	04:32:59
2	Ti 337.279†	7026291.0	6632402.6	6.801 mg/L	6.801 mg/L	04:33:22
2	Tl 190.801†	-3.1	4.2	-0.0425 mg/L	-0.0425 mg/L	04:33:35
2	V 292.402†	54881.9	52697.0	0.1952 mg/L	0.1952 mg/L	04:33:25
2	Zn 213.857†	35867.4	32980.7	0.1983 mg/L	0.1983 mg/L	04:33:25

Mean Data: 1306384-04

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3572700.8	1.06 mg/L	0.004			0.39%
Ag 328.068†	-1031.2	-0.0019 mg/L	0.00032	-0.0019 mg/L	0.00032	16.66%
Al 237.313†	851181.1	78.04 mg/L	0.143	78.04 mg/L	0.143	0.18%
As 188.979†	35.7	0.0242 mg/L	0.00463	0.0242 mg/L	0.00463	19.15%
B 249.677†	-11.2	-0.0020 mg/L	0.00564	-0.0020 mg/L	0.00564	276.61%
B 182.528†	30.5	0.0290 mg/L	0.00069	0.0290 mg/L	0.00069	2.38%
Ba 233.527†	59125.6	0.4488 mg/L	0.00112	0.4488 mg/L	0.00112	0.25%
Be 313.107†	15409.0	0.0040 mg/L	0.00005	0.0040 mg/L	0.00005	1.22%
Ca 315.887†	2704466.3	24.22 mg/L	0.047	24.22 mg/L	0.047	0.19%
Cd 228.802†	29.5	0.0007 mg/L	0.00011	0.0007 mg/L	0.00011	15.19%
Co 228.616†	3298.4	0.0359 mg/L	0.00020	0.0359 mg/L	0.00020	0.56%
Cr 267.716†	16748.2	0.1279 mg/L	0.00058	0.1279 mg/L	0.00058	0.45%
Cu 324.752†	32902.2	0.1500 mg/L	0.00163	0.1500 mg/L	0.00163	1.09%
Fe 234.349†	186581.9	92.35 mg/L	0.561	92.35 mg/L	0.561	0.61%
K 766.490†	44247.9	19.04 mg/L	0.108	19.04 mg/L	0.108	0.57%
Li 670.784†	4829.5	0.1153 mg/L	0.00190	0.1153 mg/L	0.00190	1.65%
Mg 279.077†	537555.5	34.91 mg/L	0.087	34.91 mg/L	0.087	0.25%
Mn 257.610†	1795497.4	1.911 mg/L	0.0041	1.911 mg/L	0.0041	0.22%
Mn 294.920†	905239.0	1.931 mg/L	0.0041	1.931 mg/L	0.0041	0.21%
Mo 202.031†	118.8	-0.0074 mg/L	0.00222	-0.0074 mg/L	0.00222	30.04%
Na 589.592†	12595.0	1.775 mg/L	0.0050	1.775 mg/L	0.0050	0.28%
Ni 231.604†	3765.4	0.0695 mg/L	0.00010	0.0695 mg/L	0.00010	0.14%
P 214.914†	10927.3	5.777 mg/L	0.0083	5.777 mg/L	0.0083	0.14%
Pb 220.353†	1058.8	0.0445 mg/L	0.00125	0.0445 mg/L	0.00125	2.80%
Sb 206.836†	34.4	-0.0219 mg/L	0.00002	-0.0219 mg/L	0.00002	0.09%
Se 196.026†	-29.3	-0.0063 mg/L	0.00046	-0.0063 mg/L	0.00046	7.33%
Sn 189.927†	-292.2	-0.0193 mg/L	0.00261	-0.0193 mg/L	0.00261	13.48%
Sr 407.771†	117847.4	0.1001 mg/L	0.00071	0.1001 mg/L	0.00071	0.71%
Ti 337.279†	6625025.7	6.794 mg/L	0.0107	6.794 mg/L	0.0107	0.16%
Tl 190.801†	5.6	-0.0416 mg/L	0.00130	-0.0416 mg/L	0.00130	3.14%

V 292.402†	52898.7	0.1959 mg/L	0.00111	0.1959 mg/L	0.00111	0.57%
Zn 213.857†	33101.4	0.1990 mg/L	0.00102	0.1990 mg/L	0.00102	0.51%

Sequence No.: 191	Autosampler Location: 142
Sample ID: 1306384-06	Date Collected: 6/26/2013 4:35:12 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:58:13 AM
Logged In Analyst (Original) : ICP3	Initial Sample Vol:
Initial Sample Wt:	Sample Prep Vol:
Dilution:	

Replicate Data: 1306384-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 371.029	3684274.7	3684274.7	1.09	mg/L			04:37:05
1	Ag 328.068†	-375.1	-1081.0	-0.0020	mg/L	-0.0020	mg/L	04:37:08
1	Al 237.313†	1052977.9	966736.1	88.63	mg/L	88.63	mg/L	04:37:05
1	As 188.979†	191.2	174.5	0.1090	mg/L	0.1090	mg/L	04:37:18
1	B 249.677†	-41.8	-23.2	-0.0069	mg/L	-0.0069	mg/L	04:36:55
1	B 182.528†	25.8	30.6	0.0291	mg/L	0.0291	mg/L	04:37:18
1	Ba 233.527†	62211.6	57181.1	0.4341	mg/L	0.4341	mg/L	04:37:08
1	Be 313.107†	16487.1	16563.5	0.0044	mg/L	0.0044	mg/L	04:37:08
1	Ca 315.887†	3176752.5	2916116.7	26.11	mg/L	26.11	mg/L	04:37:05
1	Cd 228.802†	196.9	33.2	0.0007	mg/L	0.0007	mg/L	04:37:18
1	Co 228.616†	3977.6	3828.2	0.0445	mg/L	0.0445	mg/L	04:37:18
1	Cr 267.716†	19792.4	17453.3	0.1333	mg/L	0.1333	mg/L	04:37:08
1	Cu 324.752†	51603.5	43401.4	0.1948	mg/L	0.1948	mg/L	04:37:08
1	Fe 234.349†	220239.5	202121.9	100.0	mg/L	100.0	mg/L	04:36:53
1	K 766.490†	37532.7	33699.7	14.53	mg/L	14.53	mg/L	04:36:53
1	Li 670.784†	5201.5	5046.2	0.1204	mg/L	0.1204	mg/L	04:36:55
1	Mg 279.077†	668917.6	613597.4	39.85	mg/L	39.85	mg/L	04:37:05
1	Mn 257.610†	2407809.2	2193662.7	2.337	mg/L	2.337	mg/L	04:37:05
1	Mn 294.920†	1201721.9	1103495.9	2.354	mg/L	2.354	mg/L	04:37:05
1	Mo 202.031†	86.1	89.4	-0.0099	mg/L	-0.0099	mg/L	04:37:08
1	Na 589.592†	16964.1	11342.0	1.607	mg/L	1.607	mg/L	04:36:55
1	Ni 231.604†	5061.3	4467.7	0.0826	mg/L	0.0826	mg/L	04:37:08
1	P 214.914†	11785.4	10861.8	5.742	mg/L	5.742	mg/L	04:37:08
1	Pb 220.353†	12218.3	11030.0	0.6249	mg/L	0.6249	mg/L	04:37:08
1	Sb 206.836†	82.8	31.2	-0.0265	mg/L	-0.0265	mg/L	04:37:18
1	Se 196.026†	-12.5	-28.3	-0.0053	mg/L	-0.0053	mg/L	04:37:18
1	Sn 189.927†	-274.2	-289.1	-0.0178	mg/L	-0.0178	mg/L	04:37:18
1	Sr 407.771†	168026.4	153957.1	0.1306	mg/L	0.1306	mg/L	04:36:53
1	Ti 337.279†	7179795.7	6590406.5	6.758	mg/L	6.758	mg/L	04:37:05
1	Tl 190.801†	7.7	14.2	-0.0388	mg/L	-0.0388	mg/L	04:37:18
1	V 292.402†	56627.7	52870.7	0.1958	mg/L	0.1958	mg/L	04:37:08
1	Zn 213.857†	64567.6	58386.1	0.3538	mg/L	0.3538	mg/L	04:37:08
2	Y 371.029	3691825.3	3691825.3	1.09	mg/L			04:37:22
2	Ag 328.068†	-388.7	-1092.7	-0.0021	mg/L	-0.0021	mg/L	04:37:24
2	Al 237.313†	1055951.0	967482.6	88.70	mg/L	88.70	mg/L	04:37:22
2	As 188.979†	189.1	172.2	0.1076	mg/L	0.1076	mg/L	04:37:34
2	B 249.677†	-32.9	-14.9	-0.0036	mg/L	-0.0036	mg/L	04:37:00
2	B 182.528†	29.7	34.2	0.0320	mg/L	0.0320	mg/L	04:37:34
2	Ba 233.527†	62958.2	57748.2	0.4384	mg/L	0.4384	mg/L	04:37:24
2	Be 313.107†	16727.0	16752.2	0.0045	mg/L	0.0045	mg/L	04:37:24
2	Ca 315.887†	3182853.0	2915741.2	26.11	mg/L	26.11	mg/L	04:37:22
2	Cd 228.802†	217.2	51.5	0.0012	mg/L	0.0012	mg/L	04:37:34
2	Co 228.616†	3927.1	3774.6	0.0436	mg/L	0.0436	mg/L	04:37:34
2	Cr 267.716†	19999.1	17605.4	0.1344	mg/L	0.1344	mg/L	04:37:24
2	Cu 324.752†	52043.0	43707.0	0.1961	mg/L	0.1961	mg/L	04:37:24
2	Fe 234.349†	219077.4	200644.2	99.31	mg/L	99.31	mg/L	04:36:58
2	K 766.490†	37313.7	33428.8	14.42	mg/L	14.42	mg/L	04:36:58
2	Li 670.784†	5307.8	5133.7	0.1224	mg/L	0.1224	mg/L	04:37:00
2	Mg 279.077†	670889.6	614148.0	39.88	mg/L	39.88	mg/L	04:37:22
2	Mn 257.610†	2413301.0	2194173.1	2.338	mg/L	2.338	mg/L	04:37:22
2	Mn 294.920†	1204640.0	1103912.9	2.355	mg/L	2.355	mg/L	04:37:22
2	Mo 202.031†	160.0	156.9	-0.0073	mg/L	-0.0073	mg/L	04:37:24
2	Na 589.592†	17159.1	11488.7	1.627	mg/L	1.627	mg/L	04:37:00
2	Ni 231.604†	5159.4	4548.1	0.0841	mg/L	0.0841	mg/L	04:37:24
2	P 214.914†	12006.3	11042.1	5.837	mg/L	5.837	mg/L	04:37:24
2	Pb 220.353†	12434.9	11205.4	0.6351	mg/L	0.6351	mg/L	04:37:24
2	Sb 206.836†	87.6	35.4	-0.0244	mg/L	-0.0244	mg/L	04:37:34
2	Se 196.026†	-26.9	-41.5	-0.0127	mg/L	-0.0127	mg/L	04:37:34

2	Sn 189.927†	-256.1	-272.0	-0.0157 mg/L	-0.0157 mg/L	04:37:34
2	Sr 407.771†	167505.8	153164.9	0.1299 mg/L	0.1299 mg/L	04:36:58
2	Ti 337.279†	7194414.6	6590319.1	6.758 mg/L	6.758 mg/L	04:37:22
2	Tl 190.801†	7.7	14.2	-0.0385 mg/L	-0.0385 mg/L	04:37:34
2	V 292.402†	57196.2	53285.1	0.1975 mg/L	0.1975 mg/L	04:37:24
2	Zn 213.857†	65303.6	58939.0	0.3572 mg/L	0.3572 mg/L	04:37:24

Mean Data: 1306384-06

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3688050.0	1.09	mg/L	0.002			0.14%
Ag 328.068†	-1086.9	-0.0020	mg/L	0.00005	-0.0020	mg/L	2.59%
Al 237.313†	967109.3	88.67	mg/L	0.048	88.67	mg/L	0.05%
As 188.979†	173.3	0.1083	mg/L	0.00099	0.1083	mg/L	0.91%
B 249.677†	-19.0	-0.0052	mg/L	0.00239	-0.0052	mg/L	45.46%
B 182.528†	32.4	0.0305	mg/L	0.00205	0.0305	mg/L	6.71%
Ba 233.527†	57464.7	0.4362	mg/L	0.00304	0.4362	mg/L	0.70%
Be 313.107†	16657.9	0.0045	mg/L	0.00005	0.0045	mg/L	1.05%
Ca 315.887†	2915928.9	26.11	mg/L	0.002	26.11	mg/L	0.01%
Cd 228.802†	42.3	0.0009	mg/L	0.00035	0.0009	mg/L	37.74%
Co 228.616†	3801.4	0.0440	mg/L	0.00060	0.0440	mg/L	1.37%
Cr 267.716†	17529.3	0.1339	mg/L	0.00082	0.1339	mg/L	0.61%
Cu 324.752†	43554.2	0.1954	mg/L	0.00092	0.1954	mg/L	0.47%
Fe 234.349†	201383.1	99.68	mg/L	0.517	99.68	mg/L	0.52%
K 766.490†	33564.2	14.48	mg/L	0.082	14.48	mg/L	0.57%
Li 670.784†	5090.0	0.1214	mg/L	0.00145	0.1214	mg/L	1.20%
Mg 279.077†	613872.7	39.86	mg/L	0.025	39.86	mg/L	0.06%
Mn 257.610†	2193917.9	2.338	mg/L	0.0005	2.338	mg/L	0.02%
Mn 294.920†	1103704.4	2.354	mg/L	0.0006	2.354	mg/L	0.03%
Mo 202.031†	123.2	-0.0086	mg/L	0.00187	-0.0086	mg/L	21.71%
Na 589.592†	11415.4	1.617	mg/L	0.0139	1.617	mg/L	0.86%
Ni 231.604†	4507.9	0.0834	mg/L	0.00106	0.0834	mg/L	1.27%
P 214.914†	10951.9	5.789	mg/L	0.0668	5.789	mg/L	1.15%
Pb 220.353†	11117.7	0.6300	mg/L	0.00725	0.6300	mg/L	1.15%
Sb 206.836†	33.3	-0.0255	mg/L	0.00147	-0.0255	mg/L	5.77%
Se 196.026†	-34.9	-0.0090	mg/L	0.00519	-0.0090	mg/L	57.59%
Sn 189.927†	-280.6	-0.0167	mg/L	0.00148	-0.0167	mg/L	8.85%
Sr 407.771†	153561.0	0.1303	mg/L	0.00047	0.1303	mg/L	0.36%
Ti 337.279†	6590362.8	6.758	mg/L	0.0001	6.758	mg/L	0.00%
Tl 190.801†	14.2	-0.0386	mg/L	0.00021	-0.0386	mg/L	0.55%
V 292.402†	53077.9	0.1967	mg/L	0.00117	0.1967	mg/L	0.60%
Zn 213.857†	58662.6	0.3555	mg/L	0.00242	0.3555	mg/L	0.68%

Sequence No.: 192

Sample ID: 1306384-07

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 143

Date Collected: 6/26/2013 4:39:11 AM

Data Type: Reprocessed on 6/26/2013 10:58:14 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306384-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3717169.3	3717169.3	1.10 mg/L		04:41:03
1	Ag 328.068†	-496.1	-1188.1	-0.0025 mg/L	-0.0025 mg/L	04:41:06
1	Al 237.313†	979059.9	890948.1	81.68 mg/L	81.68 mg/L	04:41:03
1	As 188.979†	43.8	38.8	0.0260 mg/L	0.0260 mg/L	04:41:16
1	B 249.677†	-53.9	-33.8	-0.0113 mg/L	-0.0113 mg/L	04:40:53
1	B 182.528†	28.0	32.4	0.0305 mg/L	0.0305 mg/L	04:41:16
1	Ba 233.527†	92868.5	84561.7	0.6417 mg/L	0.6417 mg/L	04:41:06
1	Be 313.107†	14884.2	14971.6	0.0038 mg/L	0.0038 mg/L	04:41:06
1	Ca 315.887†	3092682.6	2813846.6	25.19 mg/L	25.19 mg/L	04:41:03
1	Cd 228.802†	189.2	24.6	0.0004 mg/L	0.0004 mg/L	04:41:16
1	Co 228.616†	3851.0	3680.9	0.0413 mg/L	0.0413 mg/L	04:41:16
1	Cr 267.716†	21037.7	18425.2	0.1407 mg/L	0.1407 mg/L	04:41:06
1	Cu 324.752†	33018.8	26077.5	0.1212 mg/L	0.1212 mg/L	04:41:06
1	Fe 234.349†	224843.1	204520.7	101.2 mg/L	101.2 mg/L	04:40:51
1	K 766.490†	57565.6	51617.0	22.19 mg/L	22.19 mg/L	04:40:51
1	Li 670.784†	5332.2	5122.8	0.1222 mg/L	0.1222 mg/L	04:40:53
1	Mg 279.077†	678296.6	616696.1	40.05 mg/L	40.05 mg/L	04:41:03

1	Mn 257.610†	2521520.3	2277540.6	2.427 mg/L	2.427 mg/L	04:41:03
1	Mn 294.920†	1257977.4	1144906.8	2.442 mg/L	2.442 mg/L	04:41:03
1	Mo 202.031†	220.7	211.2	-0.0051 mg/L	-0.0051 mg/L	04:41:06
1	Na 589.592†	17861.4	12020.4	1.698 mg/L	1.698 mg/L	04:40:53
1	Ni 231.604†	4851.8	4236.1	0.0783 mg/L	0.0783 mg/L	04:41:06
1	P 214.914†	11869.0	10842.2	5.733 mg/L	5.733 mg/L	04:41:06
1	Pb 220.353†	1207.6	915.3	0.0352 mg/L	0.0352 mg/L	04:41:16
1	Sb 206.836†	69.9	18.8	-0.0321 mg/L	-0.0321 mg/L	04:41:16
1	Se 196.026†	-20.2	-35.2	-0.0091 mg/L	-0.0091 mg/L	04:41:16
1	Sn 189.927†	-309.5	-319.0	-0.0220 mg/L	-0.0220 mg/L	04:41:16
1	Sr 407.771†	133466.9	121156.9	0.1029 mg/L	0.1029 mg/L	04:40:51
1	Ti 337.279†	7658693.0	6967705.9	7.145 mg/L	7.145 mg/L	04:41:03
1	Tl 190.801†	3.3	10.1	-0.0423 mg/L	-0.0423 mg/L	04:41:16
1	V 292.402†	63943.1	59065.0	0.2194 mg/L	0.2194 mg/L	04:41:06
1	Zn 213.857†	40387.2	35867.1	0.2156 mg/L	0.2156 mg/L	04:41:06
2	Y 371.029	3707542.7	3707542.7	1.10 mg/L		04:41:19
2	Ag 328.068†	-408.8	-1109.6	-0.0021 mg/L	-0.0021 mg/L	04:41:22
2	Al 237.313†	975533.7	890044.6	81.60 mg/L	81.60 mg/L	04:41:19
2	As 188.979†	48.6	43.2	0.0287 mg/L	0.0287 mg/L	04:41:32
2	B 249.677†	-31.4	-13.4	-0.0029 mg/L	-0.0029 mg/L	04:40:58
2	B 182.528†	24.9	29.7	0.0282 mg/L	0.0282 mg/L	04:41:32
2	Ba 233.527†	93036.4	84934.1	0.6445 mg/L	0.6445 mg/L	04:41:22
2	Be 313.107†	14955.0	15071.2	0.0038 mg/L	0.0038 mg/L	04:41:22
2	Ca 315.887†	3076936.1	2806790.6	25.13 mg/L	25.13 mg/L	04:41:19
2	Cd 228.802†	183.6	20.0	0.0003 mg/L	0.0003 mg/L	04:41:32
2	Co 228.616†	3829.0	3669.9	0.0411 mg/L	0.0411 mg/L	04:41:32
2	Cr 267.716†	21065.8	18500.6	0.1412 mg/L	0.1412 mg/L	04:41:22
2	Cu 324.752†	33101.8	26231.1	0.1219 mg/L	0.1219 mg/L	04:41:22
2	Fe 234.349†	224617.2	204845.8	101.4 mg/L	101.4 mg/L	04:40:56
2	K 766.490†	57636.7	51817.9	22.27 mg/L	22.27 mg/L	04:40:56
2	Li 670.784†	5254.7	5064.7	0.1208 mg/L	0.1208 mg/L	04:40:58
2	Mg 279.077†	674923.2	615221.7	39.95 mg/L	39.95 mg/L	04:41:19
2	Mn 257.610†	2512112.4	2274916.2	2.424 mg/L	2.424 mg/L	04:41:19
2	Mn 294.920†	1253366.8	1143673.2	2.439 mg/L	2.439 mg/L	04:41:19
2	Mo 202.031†	142.5	140.3	-0.0078 mg/L	-0.0078 mg/L	04:41:22
2	Na 589.592†	17814.4	12019.7	1.698 mg/L	1.698 mg/L	04:40:58
2	Ni 231.604†	4861.0	4255.9	0.0787 mg/L	0.0787 mg/L	04:41:22
2	P 214.914†	11921.8	10918.3	5.773 mg/L	5.773 mg/L	04:41:22
2	Pb 220.353†	1221.5	930.9	0.0361 mg/L	0.0361 mg/L	04:41:32
2	Sb 206.836†	79.8	28.0	-0.0284 mg/L	-0.0284 mg/L	04:41:32
2	Se 196.026†	-4.2	-20.7	-0.0010 mg/L	-0.0010 mg/L	04:41:32
2	Sn 189.927†	-276.8	-289.9	-0.0185 mg/L	-0.0185 mg/L	04:41:32
2	Sr 407.771†	133435.6	121443.6	0.1031 mg/L	0.1031 mg/L	04:40:56
2	Ti 337.279†	7635877.5	6964987.1	7.142 mg/L	7.142 mg/L	04:41:19
2	Tl 190.801†	0.9	7.9	-0.0441 mg/L	-0.0441 mg/L	04:41:32
2	V 292.402†	64080.4	59341.2	0.2205 mg/L	0.2205 mg/L	04:41:22
2	Zn 213.857†	40433.4	36004.6	0.2164 mg/L	0.2164 mg/L	04:41:22

Mean Data: 1306384-07

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3712356.0	1.10 mg/L	0.002			0.18%
Ag 328.068†	-1148.8	-0.0023 mg/L	0.00027	-0.0023 mg/L	0.00027	11.80%
Al 237.313†	890496.4	81.64 mg/L	0.059	81.64 mg/L	0.059	0.07%
As 188.979†	41.0	0.0273 mg/L	0.00192	0.0273 mg/L	0.00192	7.03%
B 249.677†	-23.6	-0.0071 mg/L	0.00589	-0.0071 mg/L	0.00589	82.97%
B 182.528†	31.0	0.0294 mg/L	0.00162	0.0294 mg/L	0.00162	5.51%
Ba 233.527†	84747.9	0.6431 mg/L	0.00200	0.6431 mg/L	0.00200	0.31%
Be 313.107†	15021.4	0.0038 mg/L	0.00003	0.0038 mg/L	0.00003	0.67%
Ca 315.887†	2810318.6	25.16 mg/L	0.045	25.16 mg/L	0.045	0.18%
Cd 228.802†	22.3	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	24.11%
Co 228.616†	3675.4	0.0412 mg/L	0.00012	0.0412 mg/L	0.00012	0.29%
Cr 267.716†	18462.9	0.1410 mg/L	0.00040	0.1410 mg/L	0.00040	0.29%
Cu 324.752†	26154.3	0.1216 mg/L	0.00046	0.1216 mg/L	0.00046	0.38%
Fe 234.349†	204683.3	101.3 mg/L	0.11	101.3 mg/L	0.11	0.11%
K 766.490†	51717.5	22.23 mg/L	0.061	22.23 mg/L	0.061	0.27%
Li 670.784†	5093.8	0.1215 mg/L	0.00096	0.1215 mg/L	0.00096	0.79%
Mg 279.077†	615958.9	40.00 mg/L	0.068	40.00 mg/L	0.068	0.17%
Mn 257.610†	2276228.4	2.426 mg/L	0.0020	2.426 mg/L	0.0020	0.08%
Mn 294.920†	1144290.0	2.441 mg/L	0.0019	2.441 mg/L	0.0019	0.08%
Mo 202.031†	175.8	-0.0065 mg/L	0.00190	-0.0065 mg/L	0.00190	29.48%
Na 589.592†	12020.0	1.698 mg/L	0.0001	1.698 mg/L	0.0001	0.00%

Ni 231.604†	4246.0	0.0785 mg/L	0.00026	0.0785 mg/L	0.00026	0.33%
P 214.914†	10880.2	5.753 mg/L	0.0283	5.753 mg/L	0.0283	0.49%
Pb 220.353†	923.1	0.0357 mg/L	0.00065	0.0357 mg/L	0.00065	1.83%
Sb 206.836†	23.4	-0.0303 mg/L	0.00259	-0.0303 mg/L	0.00259	8.56%
Se 196.026†	-28.0	-0.0051 mg/L	0.00569	-0.0051 mg/L	0.00569	112.43%
Sn 189.927†	-304.5	-0.0203 mg/L	0.00250	-0.0203 mg/L	0.00250	12.35%
Sr 407.771†	121300.3	0.1030 mg/L	0.00017	0.1030 mg/L	0.00017	0.17%
Ti 337.279†	6966346.5	7.144 mg/L	0.0020	7.144 mg/L	0.0020	0.03%
Tl 190.801†	9.0	-0.0432 mg/L	0.00122	-0.0432 mg/L	0.00122	2.82%
V 292.402†	59203.1	0.2200 mg/L	0.00074	0.2200 mg/L	0.00074	0.34%
Zn 213.857†	35935.9	0.2160 mg/L	0.00059	0.2160 mg/L	0.00059	0.27%

Sequence No.: 193
Sample ID: 1306384-08
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 144
Date Collected: 6/26/2013 4:43:10 AM
Data Type: Reprocessed on 6/26/2013 10:58:14 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306384-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3595367.7	3595367.7	1.06 mg/L			04:45:05
1	Ag 328.068†	-324.2	-1041.7	-0.0015 mg/L		-0.0015 mg/L	04:45:05
1	Al 237.313†	1054154.1	991738.2	90.92 mg/L		90.92 mg/L	04:45:05
1	As 188.979†	329.0	308.3	0.1908 mg/L		0.1908 mg/L	04:45:15
1	B 249.677†	-3.4	12.0	0.0074 mg/L		0.0074 mg/L	04:44:52
1	B 182.528†	34.9	39.8	0.0366 mg/L		0.0366 mg/L	04:45:15
1	Ba 233.527†	104955.2	98790.0	0.7495 mg/L		0.7495 mg/L	04:45:05
1	Be 313.107†	14835.8	15384.7	0.0045 mg/L		0.0045 mg/L	04:45:05
1	Ca 315.887†	9717183.2	9138981.0	81.80 mg/L		81.80 mg/L	04:45:01
1	Cd 228.802†	291.1	126.3	0.0030 mg/L		0.0030 mg/L	04:45:15
1	Co 228.616†	3356.1	3334.1	0.0406 mg/L		0.0406 mg/L	04:45:15
1	Cr 267.716†	18575.4	16758.0	0.1280 mg/L		0.1280 mg/L	04:45:05
1	Cu 324.752†	98723.4	88885.1	0.3868 mg/L		0.3868 mg/L	04:45:05
1	Fe 234.349†	240720.1	226380.4	112.0 mg/L		112.0 mg/L	04:44:49
1	K 766.490†	26201.5	23895.4	10.35 mg/L		10.35 mg/L	04:44:52
1	Li 670.784†	6261.0	6160.6	0.1466 mg/L		0.1466 mg/L	04:44:52
1	Mg 279.077†	472396.2	443964.5	28.83 mg/L		28.83 mg/L	04:45:05
1	Mn 257.610†	2479958.2	2316155.6	2.466 mg/L		2.466 mg/L	04:45:05
1	Mn 294.920†	1242516.1	1169131.4	2.494 mg/L		2.494 mg/L	04:45:05
1	Mo 202.031†	318.1	309.5	-0.0045 mg/L		-0.0045 mg/L	04:45:15
1	Na 589.592†	20551.8	15100.9	2.111 mg/L		2.111 mg/L	04:44:52
1	Ni 231.604†	5330.4	4835.7	0.0895 mg/L		0.0895 mg/L	04:45:15
1	P 214.914†	10205.1	9643.2	5.101 mg/L		5.101 mg/L	04:45:15
1	Pb 220.353†	49391.3	46265.6	2.685 mg/L		2.685 mg/L	04:45:05
1	Sb 206.836†	77.0	27.6	-0.0330 mg/L		-0.0330 mg/L	04:45:15
1	Se 196.026†	-33.6	-48.5	-0.0158 mg/L		-0.0158 mg/L	04:45:15
1	Sn 189.927†	-394.9	-408.8	0.0020 mg/L		0.0020 mg/L	04:45:15
1	Sr 407.771†	456228.6	428802.2	0.3633 mg/L		0.3633 mg/L	04:44:49
1	Ti 337.279†	5076959.1	4775787.2	4.898 mg/L		4.898 mg/L	04:45:01
1	Tl 190.801†	17.4	23.5	-0.0458 mg/L		-0.0458 mg/L	04:45:15
1	V 292.402†	65218.8	62235.1	0.2359 mg/L		0.2359 mg/L	04:45:05
1	Zn 213.857†	192095.5	179781.6	1.099 mg/L		1.099 mg/L	04:45:05
2	Y 371.029	3617875.2	3617875.2	1.07 mg/L			04:45:22
2	Ag 328.068†	-238.6	-959.8	-0.0011 mg/L		-0.0011 mg/L	04:45:22
2	Al 237.313†	1058473.9	989608.0	90.73 mg/L		90.73 mg/L	04:45:22
2	As 188.979†	330.3	307.6	0.1904 mg/L		0.1904 mg/L	04:45:32
2	B 249.677†	-8.8	7.0	0.0054 mg/L		0.0054 mg/L	04:44:56
2	B 182.528†	30.1	35.1	0.0327 mg/L		0.0327 mg/L	04:45:32
2	Ba 233.527†	105601.9	98780.4	0.7494 mg/L		0.7494 mg/L	04:45:22
2	Be 313.107†	14923.4	15379.8	0.0045 mg/L		0.0045 mg/L	04:45:22
2	Ca 315.887†	9616815.3	8988329.1	80.46 mg/L		80.46 mg/L	04:45:18
2	Cd 228.802†	289.2	122.8	0.0029 mg/L		0.0029 mg/L	04:45:32
2	Co 228.616†	3362.0	3319.9	0.0405 mg/L		0.0405 mg/L	04:45:32
2	Cr 267.716†	18687.6	16754.1	0.1280 mg/L		0.1280 mg/L	04:45:22
2	Cu 324.752†	99106.8	88665.8	0.3858 mg/L		0.3858 mg/L	04:45:22
2	Fe 234.349†	240167.8	224455.9	111.0 mg/L		111.0 mg/L	04:44:54
2	K 766.490†	26153.4	23697.2	10.26 mg/L		10.26 mg/L	04:44:56
2	Li 670.784†	6214.5	6080.5	0.1447 mg/L		0.1447 mg/L	04:44:56
2	Mg 279.077†	474473.7	443142.2	28.78 mg/L		28.78 mg/L	04:45:22

2	Mn 257.610†	2491630.7	2312555.3	2.463 mg/L	2.463 mg/L	04:45:22
2	Mn 294.920†	1248208.4	1167181.9	2.489 mg/L	2.489 mg/L	04:45:22
2	Mo 202.031†	325.7	314.8	-0.0042 mg/L	-0.0042 mg/L	04:45:32
2	Na 589.592†	20817.2	15228.7	2.128 mg/L	2.128 mg/L	04:44:56
2	Ni 231.604†	5336.1	4809.9	0.0890 mg/L	0.0890 mg/L	04:45:32
2	P 214.914†	10268.8	9643.0	5.101 mg/L	5.101 mg/L	04:45:32
2	Pb 220.353†	49647.1	46215.7	2.682 mg/L	2.682 mg/L	04:45:22
2	Sb 206.836†	98.3	47.0	-0.0246 mg/L	-0.0246 mg/L	04:45:32
2	Se 196.026†	-29.0	-44.0	-0.0133 mg/L	-0.0133 mg/L	04:45:32
2	Sn 189.927†	-343.5	-358.5	0.0073 mg/L	0.0073 mg/L	04:45:32
2	Sr 407.771†	455602.5	425548.0	0.3605 mg/L	0.3605 mg/L	04:44:54
2	Ti 337.279†	5043842.5	4715134.4	4.836 mg/L	4.836 mg/L	04:45:18
2	Tl 190.801†	15.2	21.3	-0.0468 mg/L	-0.0468 mg/L	04:45:32
2	V 292.402†	65507.2	62123.1	0.2355 mg/L	0.2355 mg/L	04:45:22
2	Zn 213.857†	192847.9	179360.9	1.096 mg/L	1.096 mg/L	04:45:22

Mean Data: 1306384-08

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3606621.5	1.07 mg/L		0.005			0.44%
Ag 328.068†	-1000.7	-0.0013 mg/L		0.00026	-0.0013 mg/L	0.00026	19.89%
Al 237.313†	990673.1	90.83 mg/L		0.138	90.83 mg/L	0.138	0.15%
As 188.979†	308.0	0.1906 mg/L		0.00031	0.1906 mg/L	0.00031	0.16%
B 249.677†	9.5	0.0064 mg/L		0.00145	0.0064 mg/L	0.00145	22.62%
B 182.528†	37.4	0.0346 mg/L		0.00270	0.0346 mg/L	0.00270	7.80%
Ba 233.527†	98785.2	0.7495 mg/L		0.00005	0.7495 mg/L	0.00005	0.01%
Be 313.107†	15382.3	0.0045 mg/L		0.00001	0.0045 mg/L	0.00001	0.21%
Ca 315.887†	9063655.1	81.13 mg/L		0.953	81.13 mg/L	0.953	1.18%
Cd 228.802†	124.5	0.0029 mg/L		0.00005	0.0029 mg/L	0.00005	1.86%
Co 228.616†	3327.0	0.0405 mg/L		0.00007	0.0405 mg/L	0.00007	0.16%
Cr 267.716†	16756.0	0.1280 mg/L		0.00002	0.1280 mg/L	0.00002	0.02%
Cu 324.752†	88775.5	0.3863 mg/L		0.00072	0.3863 mg/L	0.00072	0.19%
Fe 234.349†	225418.1	111.5 mg/L		0.67	111.5 mg/L	0.67	0.60%
K 766.490†	23796.3	10.31 mg/L		0.060	10.31 mg/L	0.060	0.58%
Li 670.784†	6120.6	0.1456 mg/L		0.00133	0.1456 mg/L	0.00133	0.91%
Mg 279.077†	443553.3	28.80 mg/L		0.038	28.80 mg/L	0.038	0.13%
Mn 257.610†	2314355.5	2.464 mg/L		0.0026	2.464 mg/L	0.0026	0.10%
Mn 294.920†	1168156.6	2.492 mg/L		0.0029	2.492 mg/L	0.0029	0.12%
Mo 202.031†	312.2	-0.0044 mg/L		0.00024	-0.0044 mg/L	0.00024	5.58%
Na 589.592†	15164.8	2.119 mg/L		0.0121	2.119 mg/L	0.0121	0.57%
Ni 231.604†	4822.8	0.0892 mg/L		0.00034	0.0892 mg/L	0.00034	0.38%
P 214.914†	9643.1	5.101 mg/L		0.0000	5.101 mg/L	0.0000	0.00%
Pb 220.353†	46240.7	2.683 mg/L		0.0020	2.683 mg/L	0.0020	0.08%
Sb 206.836†	37.3	-0.0288 mg/L		0.00592	-0.0288 mg/L	0.00592	20.57%
Se 196.026†	-46.2	-0.0146 mg/L		0.00173	-0.0146 mg/L	0.00173	11.86%
Sn 189.927†	-383.7	0.0046 mg/L		0.00378	0.0046 mg/L	0.00378	81.60%
Sr 407.771†	427175.1	0.3619 mg/L		0.00195	0.3619 mg/L	0.00195	0.54%
Ti 337.279†	4745460.8	4.867 mg/L		0.0440	4.867 mg/L	0.0440	0.90%
Tl 190.801†	22.4	-0.0463 mg/L		0.00072	-0.0463 mg/L	0.00072	1.55%
V 292.402†	62179.1	0.2357 mg/L		0.00022	0.2357 mg/L	0.00022	0.09%
Zn 213.857†	179571.3	1.097 mg/L		0.0018	1.097 mg/L	0.0018	0.16%

Sequence No.: 194

Sample ID: 1306384-09

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 145

Date Collected: 6/26/2013 4:47:10 AM

Data Type: Reprocessed on 6/26/2013 10:58:15 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306384-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3633931.9	3633931.9	1.07 mg/L		04:49:05
1	Ag 328.068†	-178.2	-902.6	-0.0016 mg/L	-0.0016 mg/L	04:49:08
1	Al 237.313†	756219.2	704006.3	64.55 mg/L	64.55 mg/L	04:49:05
1	As 188.979†	105.0	96.6	0.0615 mg/L	0.0615 mg/L	04:49:18
1	B 249.677†	-26.9	-9.8	-0.0015 mg/L	-0.0015 mg/L	04:48:55
1	B 182.528†	21.3	26.8	0.0259 mg/L	0.0259 mg/L	04:49:18
1	Ba 233.527†	69703.1	64942.5	0.4929 mg/L	0.4929 mg/L	04:49:08
1	Be 313.107†	12678.6	13229.5	0.0036 mg/L	0.0036 mg/L	04:49:08

1	Ca	315.887†	4004727.0	3726888.4	33.37	mg/L	33.37	mg/L	04:49:05
1	Cd	228.802†	226.7	63.5	0.0018	mg/L	0.0018	mg/L	04:49:18
1	Co	228.616†	2810.3	2792.8	0.0313	mg/L	0.0313	mg/L	04:49:18
1	Cr	267.716†	19881.9	17788.2	0.1358	mg/L	0.1358	mg/L	04:49:08
1	Cu	324.752†	45965.6	38811.7	0.1733	mg/L	0.1733	mg/L	04:49:08
1	Fe	234.349†	180100.6	167575.0	82.93	mg/L	82.93	mg/L	04:48:53
1	K	766.490†	35256.6	32059.2	13.83	mg/L	13.83	mg/L	04:48:53
1	Li	670.784†	4029.9	4022.2	0.0963	mg/L	0.0963	mg/L	04:48:55
1	Mg	279.077†	463447.4	430923.5	27.98	mg/L	27.98	mg/L	04:49:05
1	Mn	257.610†	2142748.6	1977651.4	2.109	mg/L	2.109	mg/L	04:49:05
1	Mn	294.920†	1065197.3	991746.0	2.115	mg/L	2.115	mg/L	04:49:05
1	Mo	202.031†	314.0	302.6	0.0008	mg/L	0.0008	mg/L	04:49:08
1	Na	589.592†	16443.9	11073.6	1.571	mg/L	1.571	mg/L	04:48:55
1	Ni	231.604†	3932.7	3482.0	0.0643	mg/L	0.0643	mg/L	04:49:08
1	P	214.914†	9659.2	9033.4	4.784	mg/L	4.784	mg/L	04:49:08
1	Pb	220.353†	7667.2	6950.7	0.3923	mg/L	0.3923	mg/L	04:49:18
1	Sb	206.836†	74.6	24.6	-0.0219	mg/L	-0.0219	mg/L	04:49:18
1	Se	196.026†	-8.3	-24.6	-0.0043	mg/L	-0.0043	mg/L	04:49:18
1	Sn	189.927†	-238.6	-259.5	-0.0097	mg/L	-0.0097	mg/L	04:49:18
1	Sr	407.771†	177369.0	164786.1	0.1398	mg/L	0.1398	mg/L	04:48:53
1	Ti	337.279†	5448612.8	5070921.9	5.201	mg/L	5.201	mg/L	04:49:05
1	Tl	190.801†	1.7	8.7	-0.0362	mg/L	-0.0362	mg/L	04:49:18
1	V	292.402†	41730.4	39729.6	0.1476	mg/L	0.1476	mg/L	04:49:08
1	Zn	213.857†	86072.7	79216.3	0.4827	mg/L	0.4827	mg/L	04:49:08
2	Y	371.029	3617009.8	3617009.8	1.07	mg/L	1.07	mg/L	04:49:21
2	Ag	328.068†	-244.0	-964.9	-0.0018	mg/L	-0.0018	mg/L	04:49:24
2	Al	237.313†	753511.3	704766.9	64.62	mg/L	64.62	mg/L	04:49:21
2	As	188.979†	107.3	99.2	0.0631	mg/L	0.0631	mg/L	04:49:34
2	B	249.677†	-41.6	-23.7	-0.0071	mg/L	-0.0071	mg/L	04:49:00
2	B	182.528†	17.1	23.0	0.0227	mg/L	0.0227	mg/L	04:49:34
2	Ba	233.527†	69450.4	65009.7	0.4934	mg/L	0.4934	mg/L	04:49:24
2	Be	313.107†	12637.6	13246.3	0.0036	mg/L	0.0036	mg/L	04:49:24
2	Ca	315.887†	3982494.8	3723538.6	33.34	mg/L	33.34	mg/L	04:49:21
2	Cd	228.802†	215.4	53.9	0.0015	mg/L	0.0015	mg/L	04:49:34
2	Co	228.616†	2794.2	2789.9	0.0312	mg/L	0.0312	mg/L	04:49:34
2	Cr	267.716†	19754.8	17755.9	0.1356	mg/L	0.1356	mg/L	04:49:24
2	Cu	324.752†	45774.1	38832.7	0.1734	mg/L	0.1734	mg/L	04:49:24
2	Fe	234.349†	182017.0	170150.5	84.20	mg/L	84.20	mg/L	04:48:58
2	K	766.490†	35513.5	32452.8	14.00	mg/L	14.00	mg/L	04:48:58
2	Li	670.784†	4101.3	4106.5	0.0983	mg/L	0.0983	mg/L	04:49:00
2	Mg	279.077†	460552.3	430234.7	27.94	mg/L	27.94	mg/L	04:49:21
2	Mn	257.610†	2134595.1	1979356.9	2.110	mg/L	2.110	mg/L	04:49:21
2	Mn	294.920†	1061764.3	993173.8	2.118	mg/L	2.118	mg/L	04:49:21
2	Mo	202.031†	323.7	313.0	0.0010	mg/L	0.0010	mg/L	04:49:24
2	Na	589.592†	16594.4	11285.9	1.599	mg/L	1.599	mg/L	04:49:00
2	Ni	231.604†	3857.7	3429.0	0.0633	mg/L	0.0633	mg/L	04:49:24
2	P	214.914†	9623.6	9042.2	4.788	mg/L	4.788	mg/L	04:49:24
2	Pb	220.353†	7698.4	7013.4	0.3960	mg/L	0.3960	mg/L	04:49:34
2	Sb	206.836†	80.1	30.0	-0.0202	mg/L	-0.0202	mg/L	04:49:34
2	Se	196.026†	-13.5	-29.5	-0.0069	mg/L	-0.0069	mg/L	04:49:34
2	Sn	189.927†	-240.9	-262.7	-0.0101	mg/L	-0.0101	mg/L	04:49:34
2	Sr	407.771†	179043.9	167123.9	0.1418	mg/L	0.1418	mg/L	04:48:58
2	Ti	337.279†	5433890.8	5080877.9	5.211	mg/L	5.211	mg/L	04:49:21
2	Tl	190.801†	1.2	8.2	-0.0372	mg/L	-0.0372	mg/L	04:49:34
2	V	292.402†	41614.6	39803.0	0.1479	mg/L	0.1479	mg/L	04:49:24
2	Zn	213.857†	85676.0	79220.2	0.4827	mg/L	0.4827	mg/L	04:49:24

Mean Data: 1306384-09

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3625470.8	1.07	mg/L	0.004				0.33%
Ag 328.068†	-933.7	-0.0017	mg/L	0.00019	-0.0017	mg/L	0.00019	11.03%
Al 237.313†	704386.6	64.58	mg/L	0.049	64.58	mg/L	0.049	0.08%
As 188.979†	97.9	0.0623	mg/L	0.00113	0.0623	mg/L	0.00113	1.81%
B 249.677†	-16.7	-0.0043	mg/L	0.00400	-0.0043	mg/L	0.00400	93.41%
B 182.528†	24.9	0.0243	mg/L	0.00223	0.0243	mg/L	0.00223	9.16%
Ba 233.527†	64976.1	0.4932	mg/L	0.00036	0.4932	mg/L	0.00036	0.07%
Be 313.107†	13237.9	0.0036	mg/L	0.00000	0.0036	mg/L	0.00000	0.07%
Ca 315.887†	3725213.5	33.35	mg/L	0.021	33.35	mg/L	0.021	0.06%
Cd 228.802†	58.7	0.0016	mg/L	0.00020	0.0016	mg/L	0.00020	11.92%
Co 228.616†	2791.3	0.0313	mg/L	0.00005	0.0313	mg/L	0.00005	0.15%
Cr 267.716†	17772.0	0.1357	mg/L	0.00017	0.1357	mg/L	0.00017	0.13%

2	Ca	315.887†	637368.1	630059.4	5.649 mg/L	5.649 mg/L	04:53:20
2	Cd	228.802†	8306.5	8054.4	0.2169 mg/L	0.2169 mg/L	04:53:31
2	Co	228.616†	31546.3	31327.0	0.4965 mg/L	0.4965 mg/L	04:53:31
2	Cr	267.716†	69139.3	67557.8	0.5148 mg/L	0.5148 mg/L	04:53:20
2	Cu	324.752†	125769.3	120228.7	0.5152 mg/L	0.5152 mg/L	04:53:20
2	Fe	234.349†	4891.4	4831.4	2.386 mg/L	2.386 mg/L	04:53:01
2	K	766.490†	55823.8	54375.7	23.36 mg/L	23.36 mg/L	04:52:59
2	Li	670.784†	20357.6	20373.8	0.4803 mg/L	0.4803 mg/L	04:53:01
2	Mg	279.077†	85195.2	83834.4	5.443 mg/L	5.443 mg/L	04:53:20
2	Mn	257.610†	492151.7	469899.6	0.5049 mg/L	0.5049 mg/L	04:53:20
2	Mn	294.920†	234584.5	232270.9	0.4953 mg/L	0.4953 mg/L	04:53:20
2	Mo	202.031†	13183.6	13028.0	0.4890 mg/L	0.4890 mg/L	04:53:31
2	Na	589.592†	185777.4	179211.3	24.10 mg/L	24.10 mg/L	04:52:59
2	Ni	231.604†	28036.4	27506.1	0.5120 mg/L	0.5120 mg/L	04:53:20
2	P	214.914†	8772.3	8707.8	4.606 mg/L	4.606 mg/L	04:53:31
2	Pb	220.353†	8816.0	8521.8	0.5013 mg/L	0.5013 mg/L	04:53:31
2	Sb	206.836†	1200.8	1140.9	0.4707 mg/L	0.4707 mg/L	04:53:31
2	Se	196.026†	1810.7	1771.0	0.9849 mg/L	0.9849 mg/L	04:53:31
2	Sn	189.927†	4179.0	4088.9	0.5072 mg/L	0.5072 mg/L	04:53:31
2	Sr	407.771†	54956.3	54018.5	0.0460 mg/L	0.0460 mg/L	04:52:59
2	Ti	337.279†	485554.0	480737.0	0.4956 mg/L	0.4956 mg/L	04:53:20
2	Tl	190.801†	756.3	753.9	0.5642 mg/L	0.5642 mg/L	04:53:31
2	V	292.402†	125594.2	124914.4	0.4984 mg/L	0.4984 mg/L	04:53:20
2	Zn	213.857†	82585.3	80675.9	0.4917 mg/L	0.4917 mg/L	04:53:20

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3416159.4	1.01 mg/L	0.003			0.34%
Ag 328.068†	50614.0	0.2438 mg/L	0.00129	0.2438 mg/L	0.00129	0.53%
QC value within limits for Ag 328.068		Recovery = 97.51%				
Al 237.313†	26893.0	2.474 mg/L	0.0086	2.474 mg/L	0.0086	0.35%
QC value within limits for Al 237.313		Recovery = 98.98%				
As 188.979†	768.4	0.4719 mg/L	0.00214	0.4719 mg/L	0.00214	0.45%
QC value within limits for As 188.979		Recovery = 94.38%				
B 249.677†	1186.2	0.4874 mg/L	0.00479	0.4874 mg/L	0.00479	0.98%
QC value within limits for B 249.677		Recovery = 97.47%				
B 182.528†	560.9	0.4647 mg/L	0.00490	0.4647 mg/L	0.00490	1.05%
QC value within limits for B 182.528		Recovery = 92.94%				
Ba 233.527†	64120.9	0.4867 mg/L	0.00092	0.4867 mg/L	0.00092	0.19%
QC value within limits for Ba 233.527		Recovery = 97.34%				
Be 313.107†	126183.3	0.0446 mg/L	0.00014	0.0446 mg/L	0.00014	0.30%
QC value less than the lower limit for Be 313.107		Recovery = 89.20%				
Ca 315.887†	628790.6	5.638 mg/L	0.0161	5.638 mg/L	0.0161	0.29%
QC value greater than the upper limit for Ca 315.887		Recovery = 112.75%				
Cd 228.802†	8070.6	0.2173 mg/L	0.00061	0.2173 mg/L	0.00061	0.28%
QC value less than the lower limit for Cd 228.802		Recovery = 86.93%				
Co 228.616†	31352.2	0.4969 mg/L	0.00057	0.4969 mg/L	0.00057	0.11%
QC value within limits for Co 228.616		Recovery = 99.38%				
Cr 267.716†	67434.5	0.5138 mg/L	0.00133	0.5138 mg/L	0.00133	0.26%
QC value within limits for Cr 267.716		Recovery = 102.77%				
Cu 324.752†	120166.4	0.5149 mg/L	0.00038	0.5149 mg/L	0.00038	0.07%
QC value within limits for Cu 324.752		Recovery = 102.99%				
Fe 234.349†	4855.1	2.398 mg/L	0.0166	2.398 mg/L	0.0166	0.69%
QC value within limits for Fe 234.349		Recovery = 95.91%				
K 766.490†	54304.5	23.33 mg/L	0.043	23.33 mg/L	0.043	0.18%
QC value within limits for K 766.490		Recovery = 93.33%				
Li 670.784†	20368.4	0.4802 mg/L	0.00018	0.4802 mg/L	0.00018	0.04%
QC value within limits for Li 670.784		Recovery = 96.04%				
Mg 279.077†	83634.1	5.430 mg/L	0.0184	5.430 mg/L	0.0184	0.34%
QC value within limits for Mg 279.077		Recovery = 108.59%				
Mn 257.610†	468980.4	0.5039 mg/L	0.00140	0.5039 mg/L	0.00140	0.28%
QC value within limits for Mn 257.610		Recovery = 100.78%				
Mn 294.920†	231889.7	0.4945 mg/L	0.00115	0.4945 mg/L	0.00115	0.23%
QC value within limits for Mn 294.920		Recovery = 98.89%				
Mo 202.031†	13057.2	0.4901 mg/L	0.00155	0.4901 mg/L	0.00155	0.32%
QC value within limits for Mo 202.031		Recovery = 98.01%				
Na 589.592†	179049.6	24.08 mg/L	0.031	24.08 mg/L	0.031	0.13%
QC value within limits for Na 589.592		Recovery = 96.31%				
Ni 231.604†	27380.9	0.5097 mg/L	0.00329	0.5097 mg/L	0.00329	0.65%
QC value within limits for Ni 231.604		Recovery = 101.94%				
P 214.914†	8697.6	4.601 mg/L	0.0076	4.601 mg/L	0.0076	0.17%

QC value within limits for P 214.914 Recovery = 92.01%
Pb 220.353† 8557.2 0.5034 mg/L 0.00293 0.5034 mg/L 0.00293 0.58%
QC value within limits for Pb 220.353 Recovery = 100.68%
Sb 206.836† 1144.1 0.4720 mg/L 0.00184 0.4720 mg/L 0.00184 0.39%
QC value within limits for Sb 206.836 Recovery = 94.39%
Se 196.026† 1772.1 0.9855 mg/L 0.00085 0.9855 mg/L 0.00085 0.09%
QC value within limits for Se 196.026 Recovery = 98.55%
Sn 189.927† 4077.4 0.5058 mg/L 0.00201 0.5058 mg/L 0.00201 0.40%
QC value within limits for Sn 189.927 Recovery = 101.16%
Sr 407.771† 54052.8 0.0461 mg/L 0.00004 0.0461 mg/L 0.00004 0.09%
QC value within limits for Sr 407.771 Recovery = 92.11%
Ti 337.279† 480061.3 0.4949 mg/L 0.00098 0.4949 mg/L 0.00098 0.20%
QC value within limits for Ti 337.279 Recovery = 98.97%
Tl 190.801† 752.8 0.5633 mg/L 0.00123 0.5633 mg/L 0.00123 0.22%
QC value greater than the upper limit for Tl 190.801 Recovery = 112.66%
V 292.402† 124644.2 0.4974 mg/L 0.00147 0.4974 mg/L 0.00147 0.30%
QC value within limits for V 292.402 Recovery = 99.48%
Zn 213.857† 80375.4 0.4899 mg/L 0.00259 0.4899 mg/L 0.00259 0.53%
QC value within limits for Zn 213.857 Recovery = 97.98%
QC Failed. Continue with analysis.

Sequence No.: 196 Autosampler Location: 1
Sample ID: CCB1 Date Collected: 6/26/2013 4:55:09 AM
Analyst: Data Type: Reprocessed on 6/26/2013 10:58:16 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3490402.2	3490402.2	1.03 mg/L			04:57:16
1	Ag 328.068†	782.3	21.0	0.0008 mg/L		0.0008 mg/L	04:57:19
1	Al 237.313†	-420.2	-19.7	0.0053 mg/L		0.0053 mg/L	04:57:19
1	As 188.979†	7.4	6.1	0.0064 mg/L		0.0064 mg/L	04:57:29
1	B 249.677†	-21.1	-5.3	0.0004 mg/L		0.0004 mg/L	04:57:00
1	B 182.528†	1.1	8.0	0.0105 mg/L		0.0105 mg/L	04:57:29
1	Ba 233.527†	-34.7	54.2	0.0010 mg/L		0.0010 mg/L	04:57:29
1	Be 313.107†	-1155.0	313.9	0.0003 mg/L		0.0003 mg/L	04:57:19
1	Ca 315.887†	683.1	1379.6	0.0206 mg/L		0.0206 mg/L	04:57:19
1	Cd 228.802†	149.5	-2.7	0.0014 mg/L		0.0014 mg/L	04:57:29
1	Co 228.616†	-170.7	12.6	-0.0019 mg/L		-0.0019 mg/L	04:57:29
1	Cr 267.716†	683.7	-48.6	0.0001 mg/L		0.0001 mg/L	04:57:19
1	Cu 324.752†	3621.2	-448.8	-0.0006 mg/L		-0.0006 mg/L	04:57:19
1	Fe 234.349†	12.6	13.8	0.0174 mg/L		0.0174 mg/L	04:57:00
1	K 766.490†	803.7	33.5	0.1577 mg/L		0.1577 mg/L	04:56:50
1	Li 670.784†	-173.2	104.8	0.0044 mg/L		0.0044 mg/L	04:56:50
1	Mg 279.077†	362.3	63.1	0.0021 mg/L		0.0021 mg/L	04:57:19
1	Mn 257.610†	16816.9	236.4	0.0002 mg/L		0.0002 mg/L	04:57:19
1	Mn 294.920†	-7.1	633.7	0.0012 mg/L		0.0012 mg/L	04:57:19
1	Mo 202.031†	16.7	26.6	0.0038 mg/L		0.0038 mg/L	04:57:29
1	Na 589.592†	9307.3	4789.5	0.7289 mg/L		0.7289 mg/L	04:56:50
1	Ni 231.604†	128.2	-52.9	-0.0015 mg/L		-0.0015 mg/L	04:57:19
1	P 214.914†	-1.7	44.4	0.0718 mg/L		0.0718 mg/L	04:57:29
1	Pb 220.353†	207.5	17.9	0.0030 mg/L		0.0030 mg/L	04:57:29
1	Sb 206.836†	45.3	-0.9	0.0040 mg/L		0.0040 mg/L	04:57:29
1	Se 196.026†	15.7	-1.7	0.0035 mg/L		0.0035 mg/L	04:57:29
1	Sn 189.927†	35.2	-3.4	0.0012 mg/L		0.0012 mg/L	04:57:29
1	Sr 407.771†	291.8	37.0	0.0003 mg/L		0.0003 mg/L	04:56:50
1	Ti 337.279†	-812.6	510.7	0.0033 mg/L		0.0033 mg/L	04:57:19
1	Tl 190.801†	-12.6	-5.1	-0.0042 mg/L		-0.0042 mg/L	04:57:29
1	V 292.402†	-837.6	90.5	0.0027 mg/L		0.0027 mg/L	04:57:19
1	Zn 213.857†	848.1	-47.9	0.0002 mg/L		0.0002 mg/L	04:57:29
2	Y 371.029	3476496.5	3476496.5	1.03 mg/L			04:57:31
2	Ag 328.068†	814.3	55.2	0.0009 mg/L		0.0009 mg/L	04:57:33
2	Al 237.313†	-342.9	53.9	0.0120 mg/L		0.0120 mg/L	04:57:33
2	As 188.979†	1.1	0.1	0.0027 mg/L		0.0027 mg/L	04:57:44
2	B 249.677†	-18.5	-2.8	0.0014 mg/L		0.0014 mg/L	04:57:13
2	B 182.528†	-5.4	1.7	0.0053 mg/L		0.0053 mg/L	04:57:44
2	Ba 233.527†	-22.8	65.5	0.0011 mg/L		0.0011 mg/L	04:57:44
2	Be 313.107†	-1245.0	221.9	0.0003 mg/L		0.0003 mg/L	04:57:33

2	Ca	315.887†	638.6	1339.1	0.0203 mg/L	0.0203 mg/L	04:57:33
2	Cd	228.802†	160.5	8.7	0.0017 mg/L	0.0017 mg/L	04:57:44
2	Co	228.616†	-192.6	-9.4	-0.0022 mg/L	-0.0022 mg/L	04:57:44
2	Cr	267.716†	648.3	-80.3	-0.0001 mg/L	-0.0001 mg/L	04:57:33
2	Cu	324.752†	3464.2	-587.5	-0.0012 mg/L	-0.0012 mg/L	04:57:33
2	Fe	234.349†	12.6	14.0	0.0175 mg/L	0.0175 mg/L	04:57:13
2	K	766.490†	805.6	38.4	0.1598 mg/L	0.1598 mg/L	04:57:03
2	Li	670.784†	-176.0	101.4	0.0043 mg/L	0.0043 mg/L	04:57:03
2	Mg	279.077†	362.4	64.6	0.0022 mg/L	0.0022 mg/L	04:57:33
2	Mn	257.610†	16763.7	249.8	0.0002 mg/L	0.0002 mg/L	04:57:33
2	Mn	294.920†	80.9	719.2	0.0014 mg/L	0.0014 mg/L	04:57:33
2	Mo	202.031†	9.8	19.9	0.0035 mg/L	0.0035 mg/L	04:57:44
2	Na	589.592†	9511.6	5024.3	0.7603 mg/L	0.7603 mg/L	04:57:03
2	Ni	231.604†	161.5	-20.1	-0.0009 mg/L	-0.0009 mg/L	04:57:33
2	P	214.914†	-17.4	29.1	0.0638 mg/L	0.0638 mg/L	04:57:44
2	Pb	220.353†	222.0	32.8	0.0039 mg/L	0.0039 mg/L	04:57:44
2	Sb	206.836†	43.7	-2.3	0.0034 mg/L	0.0034 mg/L	04:57:44
2	Se	196.026†	22.3	4.8	0.0071 mg/L	0.0071 mg/L	04:57:44
2	Sn	189.927†	43.8	5.2	0.0022 mg/L	0.0022 mg/L	04:57:44
2	Sr	407.771†	265.3	12.4	0.0003 mg/L	0.0003 mg/L	04:57:03
2	Ti	337.279†	-706.8	610.5	0.0034 mg/L	0.0034 mg/L	04:57:33
2	Tl	190.801†	-7.8	-0.4	-0.0007 mg/L	-0.0007 mg/L	04:57:44
2	V	292.402†	-804.9	119.1	0.0028 mg/L	0.0028 mg/L	04:57:33
2	Zn	213.857†	810.2	-81.4	0.0000 mg/L	0.0000 mg/L	04:57:44

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3483449.4	1.03 mg/L	0.003			0.28%
Ag 328.068†	38.1	0.0008 mg/L	0.00012	0.0008 mg/L	0.00012	13.91%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	17.1	0.0087 mg/L	0.00477	0.0087 mg/L	0.00477	55.03%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	3.1	0.0045 mg/L	0.00263	0.0045 mg/L	0.00263	57.82%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 249.677†	-4.0	0.0009 mg/L	0.00071	0.0009 mg/L	0.00071	81.25%
QC value within limits for B 249.677		Recovery =	Not calculated			
B 182.528†	4.9	0.0079 mg/L	0.00366	0.0079 mg/L	0.00366	46.56%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	59.9	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.80%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	267.9	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	7.47%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.887†	1359.3	0.0204 mg/L	0.00026	0.0204 mg/L	0.00026	1.25%
QC value within limits for Ca 315.887		Recovery =	Not calculated			
Cd 228.802†	3.0	0.0016 mg/L	0.00021	0.0016 mg/L	0.00021	13.55%
QC value greater than the upper limit for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	1.6	-0.0021 mg/L	0.00025	-0.0021 mg/L	0.00025	12.07%
QC value less than the lower limit for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-64.4	0.0000 mg/L	0.00017	0.0000 mg/L	0.00017	955.42%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	-518.2	-0.0009 mg/L	0.00042	-0.0009 mg/L	0.00042	46.67%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	13.9	0.0175 mg/L	0.00004	0.0175 mg/L	0.00004	0.21%
QC value greater than the upper limit for Fe 234.349		Recovery =	Not calculated			
K 766.490†	36.0	0.1588 mg/L	0.00150	0.1588 mg/L	0.00150	0.94%
QC value greater than the upper limit for K 766.490		Recovery =	Not calculated			
Li 670.784†	103.1	0.0043 mg/L	0.00006	0.0043 mg/L	0.00006	1.32%
QC value within limits for Li 670.784		Recovery =	Not calculated			
Mg 279.077†	63.8	0.0021 mg/L	0.00007	0.0021 mg/L	0.00007	3.28%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	243.1	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	5.25%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mn 294.920†	676.5	0.0013 mg/L	0.00013	0.0013 mg/L	0.00013	10.15%
QC value within limits for Mn 294.920		Recovery =	Not calculated			
Mo 202.031†	23.3	0.0037 mg/L	0.00018	0.0037 mg/L	0.00018	4.79%
QC value greater than the upper limit for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	4906.9	0.7446 mg/L	0.02224	0.7446 mg/L	0.02224	2.99%
QC value greater than the upper limit for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	-36.5	-0.0012 mg/L	0.00043	-0.0012 mg/L	0.00043	36.00%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
P 214.914†	36.8	0.0678 mg/L	0.00567	0.0678 mg/L	0.00567	8.36%

QC value greater than the upper limit for P 214.914 Recovery = Not calculated
Pb 220.353† 25.4 0.0034 mg/L 0.00062 0.0034 mg/L 0.00062 18.02%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† -1.6 0.0037 mg/L 0.00040 0.0037 mg/L 0.00040 10.69%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 1.6 0.0053 mg/L 0.00252 0.0053 mg/L 0.00252 47.56%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† 0.9 0.0017 mg/L 0.00074 0.0017 mg/L 0.00074 43.56%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 407.771† 24.7 0.0003 mg/L 0.00001 0.0003 mg/L 0.00001 4.62%
QC value within limits for Sr 407.771 Recovery = Not calculated
Ti 337.279† 560.6 0.0034 mg/L 0.00007 0.0034 mg/L 0.00007 2.15%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated
Tl 190.801† -2.8 -0.0024 mg/L 0.00249 -0.0024 mg/L 0.00249 101.98%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 104.8 0.0028 mg/L 0.00008 0.0028 mg/L 0.00008 2.74%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated
Zn 213.857† -64.7 0.0001 mg/L 0.00015 0.0001 mg/L 0.00015 161.01%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 197 Autosampler Location: 146
Sample ID: CF32510-BLK1 Date Collected: 6/26/2013 4:59:21 AM
Analyst: Data Type: Reprocessed on 6/26/2013 10:58:17 AM
Logged In Analyst (Original) : ICP3
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CF32510-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3467520.9	3467520.9	1.03 mg/L		05:01:24
1	Ag 328.068†	806.0	49.1	0.0009 mg/L	0.0009 mg/L	05:01:26
1	Al 237.313†	150.4	534.0	0.0561 mg/L	0.0561 mg/L	05:01:26
1	As 188.979†	-1.0	-2.0	0.0014 mg/L	0.0014 mg/L	05:01:36
1	B 249.677†	-26.7	-10.9	-0.0019 mg/L	-0.0019 mg/L	05:01:08
1	B 182.528†	-3.2	3.8	0.0070 mg/L	0.0070 mg/L	05:01:36
1	Ba 233.527†	10.8	98.3	0.0013 mg/L	0.0013 mg/L	05:01:36
1	Be 313.107†	-1418.0	50.1	0.0002 mg/L	0.0002 mg/L	05:01:26
1	Ca 315.887†	15709.3	16036.0	0.1518 mg/L	0.1518 mg/L	05:01:26
1	Cd 228.802†	147.3	-3.8	0.0014 mg/L	0.0014 mg/L	05:01:36
1	Co 228.616†	-193.6	-10.9	-0.0023 mg/L	-0.0023 mg/L	05:01:36
1	Cr 267.716†	608.8	-117.1	-0.0004 mg/L	-0.0004 mg/L	05:01:26
1	Cu 324.752†	3818.9	-232.8	0.0003 mg/L	0.0003 mg/L	05:01:26
1	Fe 234.349†	630.8	616.8	0.3158 mg/L	0.3158 mg/L	05:01:08
1	K 766.490†	956.4	187.5	0.2235 mg/L	0.2235 mg/L	05:00:58
1	Li 670.784†	-284.9	-5.2	0.0018 mg/L	0.0018 mg/L	05:00:58
1	Mg 279.077†	661.8	357.4	0.0212 mg/L	0.0212 mg/L	05:01:26
1	Mn 257.610†	18249.2	1740.5	0.0017 mg/L	0.0017 mg/L	05:01:26
1	Mn 294.920†	688.4	1311.9	0.0026 mg/L	0.0026 mg/L	05:01:26
1	Mo 202.031†	-1.2	9.2	0.0031 mg/L	0.0031 mg/L	05:01:36
1	Na 589.592†	9233.9	4777.5	0.7273 mg/L	0.7273 mg/L	05:00:58
1	Ni 231.604†	118.7	-61.4	-0.0017 mg/L	-0.0017 mg/L	05:01:26
1	P 214.914†	66.9	111.3	0.1069 mg/L	0.1069 mg/L	05:01:36
1	Pb 220.353†	221.0	32.3	0.0038 mg/L	0.0038 mg/L	05:01:36
1	Sb 206.836†	46.7	0.7	0.0045 mg/L	0.0045 mg/L	05:01:36
1	Se 196.026†	22.9	5.4	0.0075 mg/L	0.0075 mg/L	05:01:36
1	Sn 189.927†	158.5	117.1	0.0160 mg/L	0.0160 mg/L	05:01:36
1	Sr 407.771†	686.0	423.3	0.0007 mg/L	0.0007 mg/L	05:00:58
1	Ti 337.279†	562.6	1846.5	0.0047 mg/L	0.0047 mg/L	05:01:26
1	Tl 190.801†	-8.5	-1.1	-0.0014 mg/L	-0.0014 mg/L	05:01:36
1	V 292.402†	-877.6	46.1	0.0025 mg/L	0.0025 mg/L	05:01:26
1	Zn 213.857†	2227.0	1302.1	0.0085 mg/L	0.0085 mg/L	05:01:36
2	Y 371.029	3466811.2	3466811.2	1.03 mg/L		05:01:39
2	Ag 328.068†	669.1	-84.2	0.0003 mg/L	0.0003 mg/L	05:01:41
2	Al 237.313†	-42.6	345.8	0.0388 mg/L	0.0388 mg/L	05:01:41
2	As 188.979†	3.6	2.5	0.0041 mg/L	0.0041 mg/L	05:01:51
2	B 249.677†	-19.3	-3.7	0.0010 mg/L	0.0010 mg/L	05:01:20
2	B 182.528†	-4.2	2.8	0.0062 mg/L	0.0062 mg/L	05:01:51
2	Ba 233.527†	19.1	106.3	0.0014 mg/L	0.0014 mg/L	05:01:51
2	Be 313.107†	-1361.2	105.2	0.0002 mg/L	0.0002 mg/L	05:01:41

2	Ca	315.887†	16081.8	16402.5	0.1551 mg/L	0.1551 mg/L	05:01:41
2	Cd	228.802†	150.5	-0.7	0.0015 mg/L	0.0015 mg/L	05:01:51
2	Co	228.616†	-186.4	-3.9	-0.0021 mg/L	-0.0021 mg/L	05:01:51
2	Cr	267.716†	647.1	-79.7	-0.0001 mg/L	-0.0001 mg/L	05:01:41
2	Cu	324.752†	3885.3	-167.3	0.0006 mg/L	0.0006 mg/L	05:01:41
2	Fe	234.349†	626.1	612.3	0.3135 mg/L	0.3135 mg/L	05:01:20
2	K	766.490†	959.3	190.6	0.2248 mg/L	0.2248 mg/L	05:01:10
2	Li	670.784†	-443.3	-159.7	-0.0019 mg/L	-0.0019 mg/L	05:01:10
2	Mg	279.077†	693.0	388.0	0.0232 mg/L	0.0232 mg/L	05:01:41
2	Mn	257.610†	18464.2	1953.9	0.0020 mg/L	0.0020 mg/L	05:01:41
2	Mn	294.920†	767.6	1389.2	0.0028 mg/L	0.0028 mg/L	05:01:41
2	Mo	202.031†	17.2	27.2	0.0038 mg/L	0.0038 mg/L	05:01:51
2	Na	589.592†	9526.2	5064.4	0.7657 mg/L	0.7657 mg/L	05:01:10
2	Ni	231.604†	143.6	-37.1	-0.0012 mg/L	-0.0012 mg/L	05:01:41
2	P	214.914†	67.2	111.6	0.1070 mg/L	0.1070 mg/L	05:01:51
2	Pb	220.353†	218.8	30.2	0.0037 mg/L	0.0037 mg/L	05:01:51
2	Sb	206.836†	38.8	-7.0	0.0014 mg/L	0.0014 mg/L	05:01:51
2	Se	196.026†	19.6	2.3	0.0057 mg/L	0.0057 mg/L	05:01:51
2	Sn	189.927†	164.8	123.2	0.0168 mg/L	0.0168 mg/L	05:01:51
2	Sr	407.771†	681.1	418.7	0.0007 mg/L	0.0007 mg/L	05:01:10
2	Ti	337.279†	734.5	2014.2	0.0048 mg/L	0.0048 mg/L	05:01:41
2	Tl	190.801†	-2.8	4.4	0.0028 mg/L	0.0028 mg/L	05:01:51
2	V	292.402†	-1027.1	-99.9	0.0020 mg/L	0.0020 mg/L	05:01:41
2	Zn	213.857†	2219.7	1295.5	0.0084 mg/L	0.0084 mg/L	05:01:51

Mean Data: CF32510-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3467166.0	1.03	mg/L	0.000				0.01%
Ag 328.068†	-17.6	0.0006	mg/L	0.00045	0.0006	mg/L	0.00045	78.85%
Al 237.313†	439.9	0.0474	mg/L	0.01220	0.0474	mg/L	0.01220	25.72%
As 188.979†	0.2	0.0028	mg/L	0.00193	0.0028	mg/L	0.00193	69.46%
B 249.677†	-7.3	-0.0004	mg/L	0.00209	-0.0004	mg/L	0.00209	469.95%
Ba 182.528†	3.3	0.0066	mg/L	0.00057	0.0066	mg/L	0.00057	8.53%
Ba 233.527†	102.3	0.0014	mg/L	0.00004	0.0014	mg/L	0.00004	3.13%
Be 313.107†	77.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.72%
Ca 315.887†	16219.3	0.1534	mg/L	0.00231	0.1534	mg/L	0.00231	1.51%
Cd 228.802†	-2.2	0.0014	mg/L	0.00006	0.0014	mg/L	0.00006	4.06%
Co 228.616†	-7.4	-0.0022	mg/L	0.00008	-0.0022	mg/L	0.00008	3.57%
Cr 267.716†	-98.4	-0.0002	mg/L	0.00020	-0.0002	mg/L	0.00020	83.92%
Cu 324.752†	-200.1	0.0005	mg/L	0.00020	0.0005	mg/L	0.00020	42.67%
Fe 234.349†	614.5	0.3146	mg/L	0.00157	0.3146	mg/L	0.00157	0.50%
K 766.490†	189.0	0.2241	mg/L	0.00093	0.2241	mg/L	0.00093	0.42%
Li 670.784†	-82.5	0.0000	mg/L	0.00257	0.0000	mg/L	0.00257	>999.9%
Mg 279.077†	372.7	0.0222	mg/L	0.00140	0.0222	mg/L	0.00140	6.32%
Mn 257.610†	1847.2	0.0019	mg/L	0.00016	0.0019	mg/L	0.00016	8.78%
Mn 294.920†	1350.5	0.0027	mg/L	0.00012	0.0027	mg/L	0.00012	4.31%
Mo 202.031†	18.2	0.0034	mg/L	0.00048	0.0034	mg/L	0.00048	13.95%
Na 589.592†	4920.9	0.7465	mg/L	0.02718	0.7465	mg/L	0.02718	3.64%
Ni 231.604†	-49.2	-0.0014	mg/L	0.00032	-0.0014	mg/L	0.00032	22.27%
P 214.914†	111.5	0.1069	mg/L	0.00011	0.1069	mg/L	0.00011	0.10%
Pb 220.353†	31.3	0.0038	mg/L	0.00008	0.0038	mg/L	0.00008	2.21%
Sb 206.836†	-3.2	0.0030	mg/L	0.00223	0.0030	mg/L	0.00223	75.28%
Se 196.026†	3.8	0.0066	mg/L	0.00124	0.0066	mg/L	0.00124	18.89%
Sn 189.927†	120.1	0.0164	mg/L	0.00054	0.0164	mg/L	0.00054	3.28%
Sr 407.771†	421.0	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.42%
Ti 337.279†	1930.4	0.0048	mg/L	0.00012	0.0048	mg/L	0.00012	2.55%
Tl 190.801†	1.6	0.0007	mg/L	0.00297	0.0007	mg/L	0.00297	413.05%
V 292.402†	-26.9	0.0022	mg/L	0.00040	0.0022	mg/L	0.00040	17.74%
Zn 213.857†	1298.8	0.0085	mg/L	0.00003	0.0085	mg/L	0.00003	0.37%

Sequence No.: 198
Sample ID: CF32510-BS1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 147
Date Collected: 6/26/2013 5:03:31 AM
Data Type: Reprocessed on 6/26/2013 10:58:17 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32510-BS1

Net Corrected Calib. Sample Analysis
Page 408 of 722

Repl#	Analyte	Intensity	Intensity	Conc. Units	Conc. Units	Time
1	Y 371.029	3466614.4	3466614.4	1.03 mg/L		05:05:27
1	Ag 328.068†	88917.3	85988.8	0.4151 mg/L	0.4151 mg/L	05:05:27
1	Al 237.313†	485179.4	473607.7	43.43 mg/L	43.43 mg/L	05:05:27
1	As 188.979†	1472.3	1435.0	0.8794 mg/L	0.8794 mg/L	05:05:37
1	B 249.677†	1259.5	1243.7	0.5110 mg/L	0.5110 mg/L	05:05:14
1	B 182.528†	576.5	569.3	0.4716 mg/L	0.4716 mg/L	05:05:37
1	Ba 233.527†	287067.3	280079.2	2.124 mg/L	2.124 mg/L	05:05:27
1	Be 313.107†	2101996.4	2051617.6	0.7228 mg/L	0.7228 mg/L	05:05:24
1	Ca 315.887†	5953428.4	5807401.8	51.99 mg/L	51.99 mg/L	05:05:24
1	Cd 228.802†	26939.0	26127.6	0.6993 mg/L	0.6993 mg/L	05:05:27
1	Co 228.616†	38216.5	37452.4	0.5930 mg/L	0.5930 mg/L	05:05:37
1	Cr 267.716†	141924.1	137715.1	1.049 mg/L	1.049 mg/L	05:05:27
1	Cu 324.752†	231151.3	221497.0	0.9484 mg/L	0.9484 mg/L	05:05:27
1	Fe 234.349†	127534.9	124393.0	61.51 mg/L	61.51 mg/L	05:05:12
1	K 766.490†	32622.3	31073.1	13.41 mg/L	13.41 mg/L	05:05:12
1	Li 670.784†	1835.9	2063.3	0.0503 mg/L	0.0503 mg/L	05:05:14
1	Mg 279.077†	329263.5	320859.7	20.84 mg/L	20.84 mg/L	05:05:27
1	Mn 257.610†	2115123.6	2046934.3	2.188 mg/L	2.188 mg/L	05:05:27
1	Mn 294.920†	1048640.1	1023433.0	2.183 mg/L	2.183 mg/L	05:05:27
1	Mo 202.031†	17428.4	17009.3	0.6272 mg/L	0.6272 mg/L	05:05:37
1	Na 589.592†	30032.9	25066.1	3.446 mg/L	3.446 mg/L	05:05:12
1	Ni 231.604†	41871.9	40662.7	0.7571 mg/L	0.7571 mg/L	05:05:27
1	P 214.914†	5111.1	5031.1	2.673 mg/L	2.673 mg/L	05:05:37
1	Pb 220.353†	10554.5	10111.2	0.5844 mg/L	0.5844 mg/L	05:05:37
1	Sb 206.836†	718.8	656.3	0.2441 mg/L	0.2441 mg/L	05:05:37
1	Se 196.026†	1560.0	1504.7	0.8410 mg/L	0.8410 mg/L	05:05:37
1	Sn 189.927†	7028.5	6817.8	0.8710 mg/L	0.8710 mg/L	05:05:37
1	Sr 407.771†	697881.9	680434.4	0.5763 mg/L	0.5763 mg/L	05:05:12
1	Ti 337.279†	1074854.1	1049658.2	1.079 mg/L	1.079 mg/L	05:05:27
1	Tl 190.801†	1417.2	1389.4	1.009 mg/L	1.009 mg/L	05:05:37
1	V 292.402†	178802.5	175297.1	0.6978 mg/L	0.6978 mg/L	05:05:27
1	Zn 213.857†	315544.7	306897.5	1.877 mg/L	1.877 mg/L	05:05:27
2	Y 371.029	3459466.8	3459466.8	1.02 mg/L		05:05:44
2	Ag 328.068†	88832.5	86085.1	0.4156 mg/L	0.4156 mg/L	05:05:44
2	Al 237.313†	483813.8	473250.8	43.40 mg/L	43.40 mg/L	05:05:44
2	As 188.979†	1468.7	1434.5	0.8790 mg/L	0.8790 mg/L	05:05:55
2	B 249.677†	1216.1	1203.8	0.4948 mg/L	0.4948 mg/L	05:05:18
2	B 182.528†	578.4	572.3	0.4741 mg/L	0.4741 mg/L	05:05:55
2	Ba 233.527†	286628.1	280228.4	2.125 mg/L	2.125 mg/L	05:05:44
2	Be 313.107†	2120454.2	2073893.5	0.7307 mg/L	0.7307 mg/L	05:05:41
2	Ca 315.887†	6011878.9	5876526.5	52.61 mg/L	52.61 mg/L	05:05:41
2	Cd 228.802†	26920.9	26164.1	0.7002 mg/L	0.7002 mg/L	05:05:44
2	Co 228.616†	38449.5	37757.2	0.5978 mg/L	0.5978 mg/L	05:05:55
2	Cr 267.716†	141588.0	137672.6	1.048 mg/L	1.048 mg/L	05:05:44
2	Cu 324.752†	231515.3	222318.6	0.9519 mg/L	0.9519 mg/L	05:05:44
2	Fe 234.349†	127216.0	124338.3	61.48 mg/L	61.48 mg/L	05:05:16
2	K 766.490†	32569.4	31087.2	13.42 mg/L	13.42 mg/L	05:05:16
2	Li 670.784†	1708.1	1942.0	0.0475 mg/L	0.0475 mg/L	05:05:18
2	Mg 279.077†	328289.0	320570.8	20.82 mg/L	20.82 mg/L	05:05:44
2	Mn 257.610†	2112181.0	2048320.5	2.190 mg/L	2.190 mg/L	05:05:44
2	Mn 294.920†	1046799.3	1023747.1	2.184 mg/L	2.184 mg/L	05:05:44
2	Mo 202.031†	17469.6	17084.6	0.6300 mg/L	0.6300 mg/L	05:05:55
2	Na 589.592†	30007.1	25101.5	3.450 mg/L	3.450 mg/L	05:05:16
2	Ni 231.604†	41844.9	40720.7	0.7582 mg/L	0.7582 mg/L	05:05:44
2	P 214.914†	5168.0	5097.0	2.708 mg/L	2.708 mg/L	05:05:55
2	Pb 220.353†	10588.2	10165.5	0.5876 mg/L	0.5876 mg/L	05:05:55
2	Sb 206.836†	717.4	656.4	0.2442 mg/L	0.2442 mg/L	05:05:55
2	Se 196.026†	1548.9	1497.0	0.8367 mg/L	0.8367 mg/L	05:05:55
2	Sn 189.927†	7073.7	6876.1	0.8785 mg/L	0.8785 mg/L	05:05:55
2	Sr 407.771†	695085.6	679107.7	0.5751 mg/L	0.5751 mg/L	05:05:16
2	Ti 337.279†	1074171.8	1051157.3	1.080 mg/L	1.080 mg/L	05:05:44
2	Tl 190.801†	1425.6	1400.4	1.018 mg/L	1.018 mg/L	05:05:55
2	V 292.402†	178774.0	175629.6	0.6991 mg/L	0.6991 mg/L	05:05:44
2	Zn 213.857†	314992.8	306994.0	1.877 mg/L	1.877 mg/L	05:05:44

Mean Data: CF32510-BS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3463040.6	1.02 mg/L	0.001			0.15%
Ag 328.068†	86037.0	0.4154 mg/L	0.00033	0.4154 mg/L	0.00033	0.08%
Al 237.313†	473429.3	43.41 mg/L	0.023	43.41 mg/L	0.023	0.05%

As	188.979†	1434.7	0.8792 mg/L	0.00023	0.8792 mg/L	0.00023	0.03%
B	249.677†	1223.7	0.5029 mg/L	0.01151	0.5029 mg/L	0.01151	2.29%
B	182.528†	570.8	0.4729 mg/L	0.00175	0.4729 mg/L	0.00175	0.37%
Ba	233.527†	280153.8	2.124 mg/L	0.0008	2.124 mg/L	0.0008	0.04%
Be	313.107†	2062755.5	0.7267 mg/L	0.00555	0.7267 mg/L	0.00555	0.76%
Ca	315.887†	5841964.2	52.30 mg/L	0.437	52.30 mg/L	0.437	0.84%
Cd	228.802†	26145.8	0.6998 mg/L	0.00069	0.6998 mg/L	0.00069	0.10%
Co	228.616†	37604.8	0.5954 mg/L	0.00343	0.5954 mg/L	0.00343	0.58%
Cr	267.716†	137693.8	1.048 mg/L	0.0002	1.048 mg/L	0.0002	0.02%
Cu	324.752†	221907.8	0.9501 mg/L	0.00248	0.9501 mg/L	0.00248	0.26%
Fe	234.349†	124365.7	61.49 mg/L	0.020	61.49 mg/L	0.020	0.03%
K	766.490†	31080.1	13.42 mg/L	0.004	13.42 mg/L	0.004	0.03%
Li	670.784†	2002.6	0.0489 mg/L	0.00201	0.0489 mg/L	0.00201	4.12%
Mg	279.077†	320715.3	20.83 mg/L	0.013	20.83 mg/L	0.013	0.06%
Mn	257.610†	2047627.4	2.189 mg/L	0.0011	2.189 mg/L	0.0011	0.05%
Mn	294.920†	1023590.1	2.183 mg/L	0.0005	2.183 mg/L	0.0005	0.02%
Mo	202.031†	17046.9	0.6286 mg/L	0.00199	0.6286 mg/L	0.00199	0.32%
Na	589.592†	25083.8	3.448 mg/L	0.0033	3.448 mg/L	0.0033	0.10%
Ni	231.604†	40691.7	0.7576 mg/L	0.00077	0.7576 mg/L	0.00077	0.10%
P	214.914†	5064.1	2.690 mg/L	0.0244	2.690 mg/L	0.0244	0.91%
Pb	220.353†	10138.3	0.5860 mg/L	0.00226	0.5860 mg/L	0.00226	0.39%
Sb	206.836†	656.3	0.2442 mg/L	0.00004	0.2442 mg/L	0.00004	0.02%
Se	196.026†	1500.8	0.8388 mg/L	0.00301	0.8388 mg/L	0.00301	0.36%
Sn	189.927†	6846.9	0.8748 mg/L	0.00533	0.8748 mg/L	0.00533	0.61%
Sr	407.771†	679771.1	0.5757 mg/L	0.00079	0.5757 mg/L	0.00079	0.14%
Ti	337.279†	1050407.8	1.079 mg/L	0.0011	1.079 mg/L	0.0011	0.10%
Tl	190.801†	1394.9	1.014 mg/L	0.0058	1.014 mg/L	0.0058	0.57%
V	292.402†	175463.3	0.6984 mg/L	0.00094	0.6984 mg/L	0.00094	0.14%
Zn	213.857†	306945.8	1.877 mg/L	0.0004	1.877 mg/L	0.0004	0.02%

Sequence No.: 199
Sample ID: CF32510-BSD1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 148
Date Collected: 6/26/2013 5:07:30 AM
Data Type: Reprocessed on 6/26/2013 10:58:18 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32510-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3505879.6	3505879.6	1.04 mg/L		05:09:24
1	Ag 328.068†	85475.1	81697.8	0.3943 mg/L	0.3943 mg/L	05:09:26
1	Al 237.313†	460405.8	444415.5	40.75 mg/L	40.75 mg/L	05:09:26
1	As 188.979†	1394.0	1343.4	0.8234 mg/L	0.8234 mg/L	05:09:36
1	B 249.677†	1203.6	1175.9	0.4834 mg/L	0.4834 mg/L	05:09:14
1	B 182.528†	555.4	542.6	0.4497 mg/L	0.4497 mg/L	05:09:36
1	Ba 233.527†	280225.2	270344.7	2.050 mg/L	2.050 mg/L	05:09:26
1	Be 313.107†	2049816.1	1978331.8	0.6970 mg/L	0.6970 mg/L	05:09:24
1	Ca 315.887†	5634210.6	5434505.6	48.65 mg/L	48.65 mg/L	05:09:24
1	Cd 228.802†	26236.3	25155.6	0.6734 mg/L	0.6734 mg/L	05:09:26
1	Co 228.616†	37560.3	36402.1	0.5764 mg/L	0.5764 mg/L	05:09:36
1	Cr 267.716†	139605.4	133928.5	1.020 mg/L	1.020 mg/L	05:09:26
1	Cu 324.752†	231046.3	218870.7	0.9371 mg/L	0.9371 mg/L	05:09:26
1	Fe 234.349†	113175.6	109151.4	53.97 mg/L	53.97 mg/L	05:09:12
1	K 766.490†	30301.7	28478.7	12.30 mg/L	12.30 mg/L	05:09:14
1	Li 670.784†	1390.3	1613.4	0.0398 mg/L	0.0398 mg/L	05:09:14
1	Mg 279.077†	317060.5	305494.0	19.84 mg/L	19.84 mg/L	05:09:26
1	Mn 257.610†	1985794.1	1899100.2	2.031 mg/L	2.031 mg/L	05:09:24
1	Mn 294.920†	981276.9	947011.0	2.020 mg/L	2.020 mg/L	05:09:24
1	Mo 202.031†	17013.9	16419.1	0.6062 mg/L	0.6062 mg/L	05:09:36
1	Na 589.592†	28601.0	23357.1	3.217 mg/L	3.217 mg/L	05:09:12
1	Ni 231.604†	41544.3	39889.3	0.7427 mg/L	0.7427 mg/L	05:09:26
1	P 214.914†	4962.5	4832.1	2.569 mg/L	2.569 mg/L	05:09:36
1	Pb 220.353†	10223.4	9676.6	0.5596 mg/L	0.5596 mg/L	05:09:36
1	Sb 206.836†	620.1	553.2	0.2052 mg/L	0.2052 mg/L	05:09:36
1	Se 196.026†	1473.3	1404.0	0.7848 mg/L	0.7848 mg/L	05:09:36
1	Sn 189.927†	6753.5	6475.7	0.8269 mg/L	0.8269 mg/L	05:09:36
1	Sr 407.771†	623368.4	600948.0	0.5090 mg/L	0.5090 mg/L	05:09:12
1	Ti 337.279†	985082.9	951339.0	0.9779 mg/L	0.9779 mg/L	05:09:24
1	Tl 190.801†	1337.9	1297.5	0.9440 mg/L	0.9440 mg/L	05:09:36
1	V 292.402†	174366.5	169065.7	0.6732 mg/L	0.6732 mg/L	05:09:26

1	Zn 213.857†	307540.7	295731.3	1.808 mg/L	1.808 mg/L	05:09:26
2	Y 371.029	3516700.9	3516700.9	1.04 mg/L	1.04 mg/L	05:09:40
2	Ag 328.068†	85657.3	81619.2	0.3940 mg/L	0.3940 mg/L	05:09:42
2	Al 237.313†	460480.0	443120.4	40.63 mg/L	40.63 mg/L	05:09:42
2	As 188.979†	1382.7	1328.4	0.8142 mg/L	0.8142 mg/L	05:09:53
2	B 249.677†	1186.0	1155.5	0.4750 mg/L	0.4750 mg/L	05:09:18
2	B 182.528†	554.5	540.1	0.4476 mg/L	0.4476 mg/L	05:09:53
2	Ba 233.527†	280295.4	269580.6	2.044 mg/L	2.044 mg/L	05:09:42
2	Be 313.107†	2053470.8	1975762.5	0.6961 mg/L	0.6961 mg/L	05:09:40
2	Ca 315.887†	5638419.2	5421831.5	48.54 mg/L	48.54 mg/L	05:09:40
2	Cd 228.802†	26212.6	25054.9	0.6707 mg/L	0.6707 mg/L	05:09:42
2	Co 228.616†	37404.2	36140.6	0.5723 mg/L	0.5723 mg/L	05:09:53
2	Cr 267.716†	139742.3	133645.8	1.018 mg/L	1.018 mg/L	05:09:42
2	Cu 324.752†	231227.8	218359.5	0.9349 mg/L	0.9349 mg/L	05:09:42
2	Fe 234.349†	114855.1	110430.2	54.60 mg/L	54.60 mg/L	05:09:16
2	K 766.490†	30333.9	28419.8	12.28 mg/L	12.28 mg/L	05:09:18
2	Li 670.784†	1499.8	1714.6	0.0422 mg/L	0.0422 mg/L	05:09:18
2	Mg 279.077†	317339.9	304821.7	19.79 mg/L	19.79 mg/L	05:09:42
2	Mn 257.610†	1989750.7	1897011.1	2.028 mg/L	2.028 mg/L	05:09:40
2	Mn 294.920†	982860.0	945621.0	2.017 mg/L	2.017 mg/L	05:09:40
2	Mo 202.031†	16928.9	16286.9	0.6012 mg/L	0.6012 mg/L	05:09:53
2	Na 589.592†	29112.1	23763.7	3.271 mg/L	3.271 mg/L	05:09:16
2	Ni 231.604†	41556.2	39777.5	0.7406 mg/L	0.7406 mg/L	05:09:42
2	P 214.914†	4945.8	4801.2	2.553 mg/L	2.553 mg/L	05:09:53
2	Pb 220.353†	10265.0	9686.3	0.5601 mg/L	0.5601 mg/L	05:09:53
2	Sb 206.836†	633.4	564.2	0.2094 mg/L	0.2094 mg/L	05:09:53
2	Se 196.026†	1482.5	1408.5	0.7873 mg/L	0.7873 mg/L	05:09:53
2	Sn 189.927†	6734.1	6437.1	0.8221 mg/L	0.8221 mg/L	05:09:53
2	Sr 407.771†	631962.0	607360.4	0.5144 mg/L	0.5144 mg/L	05:09:16
2	Ti 337.279†	985029.9	948364.5	0.9749 mg/L	0.9749 mg/L	05:09:40
2	Tl 190.801†	1337.6	1293.2	0.9406 mg/L	0.9406 mg/L	05:09:53
2	V 292.402†	174466.7	168644.6	0.6715 mg/L	0.6715 mg/L	05:09:42
2	Zn 213.857†	307628.3	294902.8	1.803 mg/L	1.803 mg/L	05:09:42

Mean Data: CF32510-BSD1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3511290.3	1.04 mg/L	0.002			0.22%
Ag 328.068†	81658.5	0.3942 mg/L	0.00026	0.3942 mg/L	0.00026	0.06%
Al 237.313†	443767.9	40.69 mg/L	0.084	40.69 mg/L	0.084	0.21%
As 188.979†	1335.9	0.8188 mg/L	0.00647	0.8188 mg/L	0.00647	0.79%
B 249.677†	1165.7	0.4792 mg/L	0.00592	0.4792 mg/L	0.00592	1.23%
B 182.528†	541.4	0.4487 mg/L	0.00148	0.4487 mg/L	0.00148	0.33%
Ba 233.527†	269962.6	2.047 mg/L	0.0041	2.047 mg/L	0.0041	0.20%
Be 313.107†	1977047.1	0.6966 mg/L	0.00064	0.6966 mg/L	0.00064	0.09%
Ca 315.887†	5428168.6	48.59 mg/L	0.080	48.59 mg/L	0.080	0.17%
Cd 228.802†	25105.2	0.6720 mg/L	0.00191	0.6720 mg/L	0.00191	0.28%
Co 228.616†	36271.3	0.5743 mg/L	0.00294	0.5743 mg/L	0.00294	0.51%
Cr 267.716†	133787.2	1.019 mg/L	0.0015	1.019 mg/L	0.0015	0.15%
Cu 324.752†	218615.1	0.9360 mg/L	0.00154	0.9360 mg/L	0.00154	0.17%
Fe 234.349†	109790.8	54.28 mg/L	0.448	54.28 mg/L	0.448	0.83%
K 766.490†	28449.3	12.29 mg/L	0.018	12.29 mg/L	0.018	0.14%
Li 670.784†	1664.0	0.0410 mg/L	0.00168	0.0410 mg/L	0.00168	4.10%
Mg 279.077†	305157.9	19.82 mg/L	0.031	19.82 mg/L	0.031	0.16%
Mn 257.610†	1898055.7	2.029 mg/L	0.0017	2.029 mg/L	0.0017	0.08%
Mn 294.920†	946316.0	2.018 mg/L	0.0021	2.018 mg/L	0.0021	0.10%
Mo 202.031†	16353.0	0.6037 mg/L	0.00357	0.6037 mg/L	0.00357	0.59%
Na 589.592†	23560.4	3.244 mg/L	0.0385	3.244 mg/L	0.0385	1.19%
Ni 231.604†	39833.4	0.7416 mg/L	0.00148	0.7416 mg/L	0.00148	0.20%
P 214.914†	4816.6	2.561 mg/L	0.0114	2.561 mg/L	0.0114	0.45%
Pb 220.353†	9681.4	0.5599 mg/L	0.00041	0.5599 mg/L	0.00041	0.07%
Sb 206.836†	558.7	0.2073 mg/L	0.00296	0.2073 mg/L	0.00296	1.43%
Se 196.026†	1406.2	0.7861 mg/L	0.00177	0.7861 mg/L	0.00177	0.23%
Sn 189.927†	6456.4	0.8245 mg/L	0.00340	0.8245 mg/L	0.00340	0.41%
Sr 407.771†	604154.2	0.5117 mg/L	0.00384	0.5117 mg/L	0.00384	0.75%
Ti 337.279†	949851.8	0.9764 mg/L	0.00216	0.9764 mg/L	0.00216	0.22%
Tl 190.801†	1295.3	0.9423 mg/L	0.00245	0.9423 mg/L	0.00245	0.26%
V 292.402†	168855.2	0.6724 mg/L	0.00121	0.6724 mg/L	0.00121	0.18%
Zn 213.857†	295317.0	1.806 mg/L	0.0036	1.806 mg/L	0.0036	0.20%

Analyst:

Data Type: Reprocessed on 6/26/2013 10:58:19 AM

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1306385-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3625288.5	3625288.5	1.07 mg/L		05:13:18
1	Ag 328.068†	3404.1	2438.1	0.0164 mg/L	0.0164 mg/L	05:13:20
1	Al 237.313†	743700.2	694007.9	63.63 mg/L	63.63 mg/L	05:13:18
1	As 188.979†	334.9	311.3	0.1927 mg/L	0.1927 mg/L	05:13:30
1	B 249.677†	-41.5	-23.5	-0.0071 mg/L	-0.0071 mg/L	05:13:08
1	B 182.528†	41.4	45.6	0.0413 mg/L	0.0413 mg/L	05:13:30
1	Ba 233.527†	96706.2	90281.8	0.6850 mg/L	0.6850 mg/L	05:13:20
1	Be 313.107†	14033.8	14521.5	0.0044 mg/L	0.0044 mg/L	05:13:20
1	Ca 315.887†	3042802.9	2838622.9	25.42 mg/L	25.42 mg/L	05:13:18
1	Cd 228.802†	391.8	218.0	0.0046 mg/L	0.0046 mg/L	05:13:30
1	Co 228.616†	3989.1	3898.4	0.0514 mg/L	0.0514 mg/L	05:13:30
1	Cr 267.716†	19252.2	17245.0	0.1317 mg/L	0.1317 mg/L	05:13:20
1	Cu 324.752†	159290.6	144607.6	0.6238 mg/L	0.6238 mg/L	05:13:20
1	Fe 234.349†	344840.1	321620.8	159.2 mg/L	159.2 mg/L	05:13:06
1	K 766.490†	25697.7	23222.2	10.06 mg/L	10.06 mg/L	05:13:08
1	Li 670.784†	3939.9	3947.2	0.0946 mg/L	0.0946 mg/L	05:13:08
1	Mg 279.077†	357038.9	332708.5	21.61 mg/L	21.61 mg/L	05:13:20
1	Mn 257.610†	2389508.4	2212548.1	2.344 mg/L	2.344 mg/L	05:13:18
1	Mn 294.920†	1210820.7	1129926.3	2.410 mg/L	2.410 mg/L	05:13:18
1	Mo 202.031†	350.7	337.5	-0.0119 mg/L	-0.0119 mg/L	05:13:30
1	Na 589.592†	12953.6	7854.9	1.140 mg/L	1.140 mg/L	05:13:08
1	Ni 231.604†	7252.9	6587.4	0.1221 mg/L	0.1221 mg/L	05:13:30
1	P 214.914†	11527.3	10797.1	5.704 mg/L	5.704 mg/L	05:13:30
1	Pb 220.353†	41762.7	38767.3	2.253 mg/L	2.253 mg/L	05:13:20
1	Sb 206.836†	119.2	66.4	-0.0371 mg/L	-0.0371 mg/L	05:13:30
1	Se 196.026†	-44.4	-58.3	-0.0184 mg/L	-0.0184 mg/L	05:13:30
1	Sn 189.927†	456.4	388.2	0.0650 mg/L	0.0650 mg/L	05:13:30
1	Sr 407.771†	170043.2	158347.2	0.1343 mg/L	0.1343 mg/L	05:13:06
1	Ti 337.279†	4230348.0	3946780.2	4.048 mg/L	4.048 mg/L	05:13:18
1	Tl 190.801†	-0.3	6.8	-0.0704 mg/L	-0.0704 mg/L	05:13:30
1	V 292.402†	64909.5	61440.5	0.2344 mg/L	0.2344 mg/L	05:13:20
1	Zn 213.857†	222349.0	206506.9	1.260 mg/L	1.260 mg/L	05:13:20
2	Y 371.029	3641903.3	3641903.3	1.08 mg/L		05:13:34
2	Ag 328.068†	3351.0	2374.3	0.0161 mg/L	0.0161 mg/L	05:13:36
2	Al 237.313†	748001.2	694836.6	63.71 mg/L	63.71 mg/L	05:13:34
2	As 188.979†	336.4	311.3	0.1927 mg/L	0.1927 mg/L	05:13:46
2	B 249.677†	-45.8	-27.3	-0.0086 mg/L	-0.0086 mg/L	05:13:12
2	B 182.528†	32.9	37.5	0.0347 mg/L	0.0347 mg/L	05:13:46
2	Ba 233.527†	96577.1	89750.5	0.6810 mg/L	0.6810 mg/L	05:13:36
2	Be 313.107†	13883.4	14322.2	0.0043 mg/L	0.0043 mg/L	05:13:36
2	Ca 315.887†	3057022.6	2838877.6	25.42 mg/L	25.42 mg/L	05:13:34
2	Cd 228.802†	390.7	215.3	0.0045 mg/L	0.0045 mg/L	05:13:46
2	Co 228.616†	3990.9	3883.1	0.0511 mg/L	0.0511 mg/L	05:13:46
2	Cr 267.716†	19251.3	17162.2	0.1311 mg/L	0.1311 mg/L	05:13:36
2	Cu 324.752†	159417.2	144047.2	0.6215 mg/L	0.6215 mg/L	05:13:36
2	Fe 234.349†	348533.8	323582.7	160.2 mg/L	160.2 mg/L	05:13:10
2	K 766.490†	26051.8	23441.6	10.15 mg/L	10.15 mg/L	05:13:12
2	Li 670.784†	4000.3	3986.5	0.0955 mg/L	0.0955 mg/L	05:13:12
2	Mg 279.077†	358059.4	332136.8	21.57 mg/L	21.57 mg/L	05:13:36
2	Mn 257.610†	2403211.9	2215103.3	2.347 mg/L	2.347 mg/L	05:13:34
2	Mn 294.920†	1217807.0	1131260.6	2.413 mg/L	2.413 mg/L	05:13:34
2	Mo 202.031†	346.5	332.1	-0.0122 mg/L	-0.0122 mg/L	05:13:46
2	Na 589.592†	13236.1	8062.0	1.167 mg/L	1.167 mg/L	05:13:12
2	Ni 231.604†	7195.4	6503.1	0.1205 mg/L	0.1205 mg/L	05:13:46
2	P 214.914†	11433.8	10661.2	5.633 mg/L	5.633 mg/L	05:13:46
2	Pb 220.353†	41738.6	38567.3	2.241 mg/L	2.241 mg/L	05:13:36
2	Sb 206.836†	111.9	59.1	-0.0405 mg/L	-0.0405 mg/L	05:13:46
2	Se 196.026†	-49.6	-62.9	-0.0209 mg/L	-0.0209 mg/L	05:13:46
2	Sn 189.927†	462.7	392.1	0.0655 mg/L	0.0655 mg/L	05:13:46
2	Sr 407.771†	171405.7	158888.6	0.1348 mg/L	0.1348 mg/L	05:13:10
2	Ti 337.279†	4253414.6	3950195.6	4.052 mg/L	4.052 mg/L	05:13:34
2	Tl 190.801†	2.3	9.2	-0.0690 mg/L	-0.0690 mg/L	05:13:46
2	V 292.402†	65007.6	61255.3	0.2337 mg/L	0.2337 mg/L	05:13:36

Mean Data: 1306385-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3633595.9	1.07 mg/L	0.003			0.32%
Ag 328.068†	2406.2	0.0162 mg/L	0.00020	0.0162 mg/L	0.00020	1.23%
Al 237.313†	694422.3	63.67 mg/L	0.054	63.67 mg/L	0.054	0.08%
As 188.979†	311.3	0.1927 mg/L	0.00002	0.1927 mg/L	0.00002	0.01%
B 249.677†	-25.4	-0.0078 mg/L	0.00109	-0.0078 mg/L	0.00109	13.91%
B 182.528†	41.6	0.0380 mg/L	0.00466	0.0380 mg/L	0.00466	12.26%
Ba 233.527†	90016.2	0.6830 mg/L	0.00285	0.6830 mg/L	0.00285	0.42%
Be 313.107†	14421.9	0.0043 mg/L	0.00005	0.0043 mg/L	0.00005	1.16%
Ca 315.887†	2838750.2	25.42 mg/L	0.002	25.42 mg/L	0.002	0.01%
Cd 228.802†	216.6	0.0046 mg/L	0.00006	0.0046 mg/L	0.00006	1.35%
Co 228.616†	3890.8	0.0513 mg/L	0.00018	0.0513 mg/L	0.00018	0.35%
Cr 267.716†	17203.6	0.1314 mg/L	0.00044	0.1314 mg/L	0.00044	0.34%
Cu 324.752†	144327.4	0.6227 mg/L	0.00169	0.6227 mg/L	0.00169	0.27%
Fe 234.349†	322601.7	159.7 mg/L	0.69	159.7 mg/L	0.69	0.43%
K 766.490†	23331.9	10.11 mg/L	0.066	10.11 mg/L	0.066	0.66%
Li 670.784†	3966.8	0.0950 mg/L	0.00065	0.0950 mg/L	0.00065	0.69%
Mg 279.077†	332422.7	21.59 mg/L	0.026	21.59 mg/L	0.026	0.12%
Mn 257.610†	2213825.7	2.345 mg/L	0.0018	2.345 mg/L	0.0018	0.08%
Mn 294.920†	1130593.4	2.411 mg/L	0.0020	2.411 mg/L	0.0020	0.08%
Mo 202.031†	334.8	-0.0121 mg/L	0.00024	-0.0121 mg/L	0.00024	1.95%
Na 589.592†	7958.4	1.153 mg/L	0.0196	1.153 mg/L	0.0196	1.70%
Ni 231.604†	6545.2	0.1213 mg/L	0.00111	0.1213 mg/L	0.00111	0.91%
P 214.914†	10729.2	5.668 mg/L	0.0504	5.668 mg/L	0.0504	0.89%
Pb 220.353†	38667.3	2.247 mg/L	0.0083	2.247 mg/L	0.0083	0.37%
Sb 206.836†	62.7	-0.0388 mg/L	0.00239	-0.0388 mg/L	0.00239	6.15%
Se 196.026†	-60.6	-0.0197 mg/L	0.00176	-0.0197 mg/L	0.00176	8.97%
Sn 189.927†	390.2	0.0652 mg/L	0.00034	0.0652 mg/L	0.00034	0.52%
Sr 407.771†	158617.9	0.1346 mg/L	0.00032	0.1346 mg/L	0.00032	0.24%
Ti 337.279†	3948487.9	4.050 mg/L	0.0025	4.050 mg/L	0.0025	0.06%
Tl 190.801†	8.0	-0.0697 mg/L	0.00098	-0.0697 mg/L	0.00098	1.41%
V 292.402†	61347.9	0.2340 mg/L	0.00052	0.2340 mg/L	0.00052	0.22%
Zn 213.857†	206176.4	1.258 mg/L	0.0029	1.258 mg/L	0.0029	0.23%

Sequence No.: 201	Autosampler Location: 150
Sample ID: CF32510-DUP1	Date Collected: 6/26/2013 5:15:22 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:58:19 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CF32510-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3621018.1	3621018.1	1.07 mg/L		05:17:14
1	Ag 328.068†	3099.3	2157.2	0.0159 mg/L	0.0159 mg/L	05:17:17
1	Al 237.313†	768930.9	718385.4	65.87 mg/L	65.87 mg/L	05:17:14
1	As 188.979†	310.4	288.8	0.1789 mg/L	0.1789 mg/L	05:17:27
1	B 249.677†	-36.9	-19.3	-0.0053 mg/L	-0.0053 mg/L	05:17:04
1	B 182.528†	31.3	36.2	0.0336 mg/L	0.0336 mg/L	05:17:27
1	Ba 233.527†	102912.0	96182.9	0.7298 mg/L	0.7298 mg/L	05:17:17
1	Be 313.107†	13578.8	14112.1	0.0041 mg/L	0.0041 mg/L	05:17:17
1	Ca 315.887†	3138070.9	2930927.2	26.24 mg/L	26.24 mg/L	05:17:14
1	Cd 228.802†	395.2	221.6	0.0041 mg/L	0.0041 mg/L	05:17:27
1	Co 228.616†	4014.6	3926.6	0.0512 mg/L	0.0512 mg/L	05:17:27
1	Cr 267.716†	20771.0	18684.3	0.1426 mg/L	0.1426 mg/L	05:17:17
1	Cu 324.752†	156162.8	141862.1	0.6125 mg/L	0.6125 mg/L	05:17:17
1	Fe 234.349†	418519.2	390798.8	193.5 mg/L	193.5 mg/L	05:17:02
1	K 766.490†	28054.6	25451.2	11.01 mg/L	11.01 mg/L	05:17:04
1	Li 670.784†	4141.4	4139.7	0.0991 mg/L	0.0991 mg/L	05:17:04
1	Mg 279.077†	381860.8	356279.0	23.14 mg/L	23.14 mg/L	05:17:17
1	Mn 257.610†	2649189.3	2457656.4	2.600 mg/L	2.600 mg/L	05:17:14
1	Mn 294.920†	1348300.9	1259631.9	2.687 mg/L	2.687 mg/L	05:17:14
1	Mo 202.031†	333.5	321.8	-0.0176 mg/L	-0.0176 mg/L	05:17:27
1	Na 589.592†	13890.4	8743.9	1.259 mg/L	1.259 mg/L	05:17:04
1	Ni 231.604†	7275.8	6616.7	0.1226 mg/L	0.1226 mg/L	05:17:27

1	P 214.914†	11025.5	10341.2	5.465 mg/L	5.465 mg/L	05:17:27
1	Pb 220.353†	40822.7	37935.6	2.204 mg/L	2.204 mg/L	05:17:17
1	Sb 206.836†	131.4	77.9	-0.0471 mg/L	-0.0471 mg/L	05:17:27
1	Se 196.026†	-48.4	-62.1	-0.0185 mg/L	-0.0185 mg/L	05:17:27
1	Sn 189.927†	813.0	721.7	0.1064 mg/L	0.1064 mg/L	05:17:27
1	Sr 407.771†	183694.8	171281.4	0.1453 mg/L	0.1453 mg/L	05:17:02
1	Ti 337.279†	4560685.7	4259889.9	4.369 mg/L	4.369 mg/L	05:17:14
1	Tl 190.801†	-6.8	0.8	-0.0902 mg/L	-0.0902 mg/L	05:17:27
1	V 292.402†	66290.9	62801.8	0.2391 mg/L	0.2391 mg/L	05:17:17
1	Zn 213.857†	221538.0	205994.2	1.256 mg/L	1.256 mg/L	05:17:17
2	Y 371.029	3612477.4	3612477.4	1.07 mg/L		05:17:30
2	Ag 328.068†	3071.2	2137.8	0.0158 mg/L	0.0158 mg/L	05:17:33
2	Al 237.313†	767028.4	718302.2	65.86 mg/L	65.86 mg/L	05:17:30
2	As 188.979†	314.8	293.6	0.1818 mg/L	0.1818 mg/L	05:17:43
2	B 249.677†	-39.6	-21.8	-0.0064 mg/L	-0.0064 mg/L	05:17:09
2	B 182.528†	37.4	41.9	0.0383 mg/L	0.0383 mg/L	05:17:43
2	Ba 233.527†	102131.2	95679.4	0.7259 mg/L	0.7259 mg/L	05:17:33
2	Be 313.107†	13329.1	13908.4	0.0041 mg/L	0.0041 mg/L	05:17:33
2	Ca 315.887†	3130948.1	2931188.1	26.24 mg/L	26.24 mg/L	05:17:30
2	Cd 228.802†	383.8	211.8	0.0038 mg/L	0.0038 mg/L	05:17:43
2	Co 228.616†	4009.7	3930.8	0.0512 mg/L	0.0512 mg/L	05:17:43
2	Cr 267.716†	20611.6	18581.0	0.1419 mg/L	0.1419 mg/L	05:17:33
2	Cu 324.752†	155014.3	141131.8	0.6094 mg/L	0.6094 mg/L	05:17:33
2	Fe 234.349†	421493.3	394506.3	195.3 mg/L	195.3 mg/L	05:17:07
2	K 766.490†	28019.3	25480.3	11.02 mg/L	11.02 mg/L	05:17:09
2	Li 670.784†	4092.8	4103.1	0.0983 mg/L	0.0983 mg/L	05:17:09
2	Mg 279.077†	377309.2	352861.8	22.92 mg/L	22.92 mg/L	05:17:33
2	Mn 257.610†	2642706.6	2457437.1	2.599 mg/L	2.599 mg/L	05:17:30
2	Mn 294.920†	1345303.4	1259802.8	2.687 mg/L	2.687 mg/L	05:17:30
2	Mo 202.031†	303.4	294.4	-0.0189 mg/L	-0.0189 mg/L	05:17:43
2	Na 589.592†	13820.4	8709.0	1.254 mg/L	1.254 mg/L	05:17:09
2	Ni 231.604†	7280.2	6636.9	0.1230 mg/L	0.1230 mg/L	05:17:43
2	P 214.914†	11075.6	10412.4	5.502 mg/L	5.502 mg/L	05:17:43
2	Pb 220.353†	40532.7	37754.3	2.193 mg/L	2.193 mg/L	05:17:33
2	Sb 206.836†	122.8	70.1	-0.0511 mg/L	-0.0511 mg/L	05:17:43
2	Se 196.026†	-58.5	-71.6	-0.0237 mg/L	-0.0237 mg/L	05:17:43
2	Sn 189.927†	853.2	761.1	0.1113 mg/L	0.1113 mg/L	05:17:43
2	Sr 407.771†	184774.3	172697.4	0.1465 mg/L	0.1465 mg/L	05:17:07
2	Ti 337.279†	4548571.2	4258619.3	4.368 mg/L	4.368 mg/L	05:17:30
2	Tl 190.801†	-10.8	-3.0	-0.0938 mg/L	-0.0938 mg/L	05:17:43
2	V 292.402†	65979.2	62656.3	0.2385 mg/L	0.2385 mg/L	05:17:33
2	Zn 213.857†	219897.3	204947.6	1.249 mg/L	1.249 mg/L	05:17:33

Mean Data: CF32510-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3616747.7	1.07 mg/L	0.002			0.17%
Ag 328.068†	2147.5	0.0159 mg/L	0.00003	0.0159 mg/L	0.00003	0.21%
Al 237.313†	718343.8	65.86 mg/L	0.005	65.86 mg/L	0.005	0.01%
As 188.979†	291.2	0.1803 mg/L	0.00208	0.1803 mg/L	0.00208	1.15%
B 249.677†	-20.5	-0.0058 mg/L	0.00073	-0.0058 mg/L	0.00073	12.52%
B 182.528†	39.1	0.0360 mg/L	0.00333	0.0360 mg/L	0.00333	9.25%
Ba 233.527†	95931.2	0.7278 mg/L	0.00270	0.7278 mg/L	0.00270	0.37%
Be 313.107†	14010.3	0.0041 mg/L	0.00005	0.0041 mg/L	0.00005	1.23%
Ca 315.887†	2931057.7	26.24 mg/L	0.002	26.24 mg/L	0.002	0.01%
Cd 228.802†	216.7	0.0040 mg/L	0.00021	0.0040 mg/L	0.00021	5.20%
Co 228.616†	3928.7	0.0512 mg/L	0.00005	0.0512 mg/L	0.00005	0.10%
Cr 267.716†	18632.7	0.1422 mg/L	0.00056	0.1422 mg/L	0.00056	0.39%
Cu 324.752†	141497.0	0.6109 mg/L	0.00221	0.6109 mg/L	0.00221	0.36%
Fe 234.349†	392652.6	194.4 mg/L	1.30	194.4 mg/L	1.30	0.67%
K 766.490†	25465.7	11.02 mg/L	0.009	11.02 mg/L	0.009	0.08%
Li 670.784†	4121.5	0.0987 mg/L	0.00060	0.0987 mg/L	0.00060	0.61%
Mg 279.077†	354570.4	23.03 mg/L	0.157	23.03 mg/L	0.157	0.68%
Mn 257.610†	2457546.7	2.600 mg/L	0.0005	2.600 mg/L	0.0005	0.02%
Mn 294.920†	1259717.3	2.687 mg/L	0.0003	2.687 mg/L	0.0003	0.01%
Mo 202.031†	308.1	-0.0182 mg/L	0.00091	-0.0182 mg/L	0.00091	5.00%
Na 589.592†	8726.5	1.256 mg/L	0.0033	1.256 mg/L	0.0033	0.26%
Ni 231.604†	6626.8	0.1228 mg/L	0.00026	0.1228 mg/L	0.00026	0.22%
P 214.914†	10376.8	5.484 mg/L	0.0264	5.484 mg/L	0.0264	0.48%
Pb 220.353†	37844.9	2.198 mg/L	0.0075	2.198 mg/L	0.0075	0.34%
Sb 206.836†	74.0	-0.0491 mg/L	0.00280	-0.0491 mg/L	0.00280	5.71%
Se 196.026†	-66.8	-0.0211 mg/L	0.00365	-0.0211 mg/L	0.00365	17.31%

2	P 214.914†	20914.6	19916.8	10.47 mg/L	10.47 mg/L	05:21:42
2	Pb 220.353†	43764.3	41396.9	2.405 mg/L	2.405 mg/L	05:21:31
2	Sb 206.836†	671.5	593.2	0.1860 mg/L	0.1860 mg/L	05:21:42
2	Se 196.026†	1452.9	1363.6	0.7676 mg/L	0.7676 mg/L	05:21:42
2	Sn 189.927†	4302.7	4050.5	0.5203 mg/L	0.5203 mg/L	05:21:42
2	Sr 407.771†	234450.2	222503.4	0.1886 mg/L	0.1886 mg/L	05:21:05
2	Ti 337.279†	4273857.9	4061852.2	4.166 mg/L	4.166 mg/L	05:21:29
2	Tl 190.801†	611.8	588.4	0.3727 mg/L	0.3727 mg/L	05:21:42
2	V 292.402†	170208.1	162615.1	0.6369 mg/L	0.6369 mg/L	05:21:31
2	Zn 213.857†	263021.6	249025.1	1.517 mg/L	1.517 mg/L	05:21:31

Mean Data: CF32510-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3546584.9	1.05	mg/L	0.005			0.49%
Ag 328.068†	43762.1	0.2144	mg/L	0.00142	0.2144 mg/L	0.00142	0.66%
Al 237.313†	794689.3	72.86	mg/L	0.049	72.86 mg/L	0.049	0.07%
As 188.979†	913.4	0.5603	mg/L	0.01002	0.5603 mg/L	0.01002	1.79%
B 249.677†	987.0	0.4059	mg/L	0.00886	0.4059 mg/L	0.00886	2.18%
B 182.528†	478.6	0.3971	mg/L	0.00058	0.3971 mg/L	0.00058	0.15%
Ba 233.527†	142725.4	1.083	mg/L	0.0086	1.083 mg/L	0.0086	0.80%
Be 313.107†	118608.8	0.0411	mg/L	0.00026	0.0411 mg/L	0.00026	0.64%
Ca 315.887†	3842073.2	34.40	mg/L	0.007	34.40 mg/L	0.007	0.02%
Cd 228.802†	6762.7	0.1800	mg/L	0.00084	0.1800 mg/L	0.00084	0.47%
Co 228.616†	29442.2	0.4585	mg/L	0.00408	0.4585 mg/L	0.00408	0.89%
Cr 267.716†	74732.9	0.5693	mg/L	0.00463	0.5693 mg/L	0.00463	0.81%
Cu 324.752†	533121.5	2.283	mg/L	0.0013	2.283 mg/L	0.0013	0.06%
Fe 234.349†	285920.8	141.5	mg/L	0.33	141.5 mg/L	0.33	0.23%
K 766.490†	71100.8	30.51	mg/L	0.221	30.51 mg/L	0.221	0.72%
Li 670.784†	22420.2	0.5284	mg/L	0.00432	0.5284 mg/L	0.00432	0.82%
Mg 279.077†	398272.0	25.86	mg/L	0.217	25.86 mg/L	0.217	0.84%
Mn 257.610†	2334601.9	2.479	mg/L	0.0012	2.479 mg/L	0.0012	0.05%
Mn 294.920†	1184885.3	2.527	mg/L	0.0006	2.527 mg/L	0.0006	0.02%
Mo 202.031†	10853.1	0.3765	mg/L	0.00489	0.3765 mg/L	0.00489	1.30%
Na 589.592†	161564.4	21.74	mg/L	0.012	21.74 mg/L	0.012	0.06%
Ni 231.604†	28731.4	0.5347	mg/L	0.00487	0.5347 mg/L	0.00487	0.91%
P 214.914†	20026.3	10.52	mg/L	0.081	10.52 mg/L	0.081	0.77%
Pb 220.353†	41655.2	2.420	mg/L	0.0214	2.420 mg/L	0.0214	0.88%
Sb 206.836†	592.2	0.1857	mg/L	0.00041	0.1857 mg/L	0.00041	0.22%
Se 196.026†	1371.0	0.7717	mg/L	0.00584	0.7717 mg/L	0.00584	0.76%
Sn 189.927†	4089.2	0.5250	mg/L	0.00673	0.5250 mg/L	0.00673	1.28%
Sr 407.771†	222440.7	0.1886	mg/L	0.00008	0.1886 mg/L	0.00008	0.04%
Ti 337.279†	4059952.9	4.164	mg/L	0.0028	4.164 mg/L	0.0028	0.07%
Tl 190.801†	599.2	0.3810	mg/L	0.01172	0.3810 mg/L	0.01172	3.08%
V 292.402†	163530.8	0.6405	mg/L	0.00515	0.6405 mg/L	0.00515	0.80%
Zn 213.857†	250421.3	1.526	mg/L	0.0121	1.526 mg/L	0.0121	0.79%

Sequence No.: 203

Sample ID: CF32510-SD1 @5

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 152

Date Collected: 6/26/2013 5:23:18 AM

Data Type: Reprocessed on 6/26/2013 10:58:20 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32510-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3519333.8	3519333.8	1.04 mg/L		05:25:23
1	Ag 328.068†	1419.8	627.3	0.0047 mg/L	0.0047 mg/L	05:25:25
1	Al 237.313†	177225.6	170655.3	15.65 mg/L	15.65 mg/L	05:25:25
1	As 188.979†	81.1	76.9	0.0496 mg/L	0.0496 mg/L	05:25:35
1	B 249.677†	-17.4	-1.5	0.0019 mg/L	0.0019 mg/L	05:25:06
1	B 182.528†	9.8	16.4	0.0174 mg/L	0.0174 mg/L	05:25:35
1	Ba 233.527†	22727.4	21922.8	0.1668 mg/L	0.1668 mg/L	05:25:25
1	Be 313.107†	2330.7	3671.9	0.0013 mg/L	0.0013 mg/L	05:25:25
1	Ca 315.887†	726697.6	698885.8	6.264 mg/L	6.264 mg/L	05:25:23
1	Cd 228.802†	200.1	44.8	0.0020 mg/L	0.0020 mg/L	05:25:35
1	Co 228.616†	795.1	941.8	0.0108 mg/L	0.0108 mg/L	05:25:35
1	Cr 267.716†	4992.7	4085.9	0.0316 mg/L	0.0316 mg/L	05:25:25
1	Cu 324.752†	40607.2	35056.3	0.1522 mg/L	0.1522 mg/L	05:25:25

1	Fe 234.349†	85107.3	81767.7	40.49	mg/L	40.49	mg/L	05:24:56
1	K 766.490†	6767.5	5756.8	2.602	mg/L	2.602	mg/L	05:24:56
1	Li 670.784†	814.8	1055.4	0.0267	mg/L	0.0267	mg/L	05:24:56
1	Mg 279.077†	85689.0	82037.1	5.326	mg/L	5.326	mg/L	05:25:25
1	Mn 257.610†	592432.0	553119.2	0.5858	mg/L	0.5858	mg/L	05:25:23
1	Mn 294.920†	294544.7	283621.6	0.6048	mg/L	0.6048	mg/L	05:25:25
1	Mo 202.031†	109.2	115.3	0.0002	mg/L	0.0002	mg/L	05:25:35
1	Na 589.592†	9218.0	4629.7	0.7075	mg/L	0.7075	mg/L	05:24:56
1	Ni 231.604†	1843.3	1593.8	0.0291	mg/L	0.0291	mg/L	05:25:35
1	P 214.914†	2724.4	2663.5	1.444	mg/L	1.444	mg/L	05:25:35
1	Pb 220.353†	10255.3	9669.6	0.5634	mg/L	0.5634	mg/L	05:25:25
1	Sb 206.836†	62.4	15.2	-0.0069	mg/L	-0.0069	mg/L	05:25:35
1	Se 196.026†	-0.5	-17.4	-0.0028	mg/L	-0.0028	mg/L	05:25:35
1	Sn 189.927†	126.3	83.9	0.0157	mg/L	0.0157	mg/L	05:25:35
1	Sr 407.771†	40981.7	39127.1	0.0334	mg/L	0.0334	mg/L	05:24:56
1	Ti 337.279†	1005005.3	966847.3	0.9938	mg/L	0.9938	mg/L	05:25:23
1	Tl 190.801†	-5.1	2.2	-0.0178	mg/L	-0.0178	mg/L	05:25:35
1	V 292.402†	14625.4	14953.1	0.0588	mg/L	0.0588	mg/L	05:25:25
1	Zn 213.857†	54667.0	51651.4	0.3156	mg/L	0.3156	mg/L	05:25:25
2	Y 371.029	3556221.9	3556221.9	1.05	mg/L			05:25:38
2	Ag 328.068†	1396.6	591.0	0.0045	mg/L	0.0045	mg/L	05:25:40
2	Al 237.313†	176379.3	168084.5	15.42	mg/L	15.42	mg/L	05:25:40
2	As 188.979†	79.4	74.4	0.0481	mg/L	0.0481	mg/L	05:25:51
2	B 249.677†	-20.5	-4.2	0.0008	mg/L	0.0008	mg/L	05:25:19
2	B 182.528†	7.5	14.1	0.0154	mg/L	0.0154	mg/L	05:25:51
2	Ba 233.527†	22611.0	21585.7	0.1642	mg/L	0.1642	mg/L	05:25:40
2	Be 313.107†	2079.2	3409.6	0.0012	mg/L	0.0012	mg/L	05:25:40
2	Ca 315.887†	725211.5	690230.9	6.186	mg/L	6.186	mg/L	05:25:38
2	Cd 228.802†	200.7	43.4	0.0020	mg/L	0.0020	mg/L	05:25:51
2	Co 228.616†	819.0	956.6	0.0111	mg/L	0.0111	mg/L	05:25:51
2	Cr 267.716†	4962.7	4007.5	0.0310	mg/L	0.0310	mg/L	05:25:40
2	Cu 324.752†	40325.1	34383.4	0.1494	mg/L	0.1494	mg/L	05:25:40
2	Fe 234.349†	85622.2	81409.1	40.31	mg/L	40.31	mg/L	05:25:08
2	K 766.490†	6803.7	5723.7	2.588	mg/L	2.588	mg/L	05:25:08
2	Li 670.784†	813.5	1046.1	0.0265	mg/L	0.0265	mg/L	05:25:08
2	Mg 279.077†	85443.7	80949.9	5.255	mg/L	5.255	mg/L	05:25:40
2	Mn 257.610†	591878.5	546689.0	0.5789	mg/L	0.5789	mg/L	05:25:38
2	Mn 294.920†	293221.7	279428.5	0.5959	mg/L	0.5959	mg/L	05:25:40
2	Mo 202.031†	104.4	109.7	0.0000	mg/L	0.0000	mg/L	05:25:51
2	Na 589.592†	9570.0	4872.4	0.7400	mg/L	0.7400	mg/L	05:25:08
2	Ni 231.604†	1850.1	1581.9	0.0289	mg/L	0.0289	mg/L	05:25:51
2	P 214.914†	2717.8	2630.0	1.426	mg/L	1.426	mg/L	05:25:51
2	Pb 220.353†	10184.9	9500.4	0.5536	mg/L	0.5536	mg/L	05:25:40
2	Sb 206.836†	62.9	15.0	-0.0068	mg/L	-0.0068	mg/L	05:25:51
2	Se 196.026†	2.5	-14.5	-0.0012	mg/L	-0.0012	mg/L	05:25:51
2	Sn 189.927†	127.2	83.5	0.0157	mg/L	0.0157	mg/L	05:25:51
2	Sr 407.771†	41323.2	39043.5	0.0333	mg/L	0.0333	mg/L	05:25:08
2	Ti 337.279†	1004457.6	956311.0	0.9830	mg/L	0.9830	mg/L	05:25:38
2	Tl 190.801†	-8.6	-1.1	-0.0201	mg/L	-0.0201	mg/L	05:25:51
2	V 292.402†	14595.0	14778.4	0.0581	mg/L	0.0581	mg/L	05:25:40
2	Zn 213.857†	54162.7	50627.1	0.3093	mg/L	0.3093	mg/L	05:25:40

Mean Data: CF32510-SD1 @5

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Std.Dev.	
Y 371.029	3537777.9	1.05	mg/L	0.008			0.74%
Ag 328.068†	609.2	0.0046	mg/L	0.00013	0.0046	mg/L	2.75%
Al 237.313†	169369.9	15.53	mg/L	0.167	15.53	mg/L	1.07%
As 188.979†	75.6	0.0488	mg/L	0.00105	0.0488	mg/L	2.15%
B 249.677†	-2.9	0.0013	mg/L	0.00078	0.0013	mg/L	58.08%
B 182.528†	15.2	0.0164	mg/L	0.00138	0.0164	mg/L	8.39%
Ba 233.527†	21754.3	0.1655	mg/L	0.00181	0.1655	mg/L	1.09%
Be 313.107†	3540.8	0.0012	mg/L	0.00006	0.0012	mg/L	5.18%
Ca 315.887†	694558.4	6.225	mg/L	0.0548	6.225	mg/L	0.88%
Cd 228.802†	44.1	0.0020	mg/L	0.00003	0.0020	mg/L	1.31%
Co 228.616†	949.2	0.0109	mg/L	0.00018	0.0109	mg/L	1.67%
Cr 267.716†	4046.7	0.0313	mg/L	0.00042	0.0313	mg/L	1.35%
Cu 324.752†	34719.9	0.1508	mg/L	0.00204	0.1508	mg/L	1.35%
Fe 234.349†	81588.4	40.40	mg/L	0.125	40.40	mg/L	0.31%
K 766.490†	5740.2	2.595	mg/L	0.0100	2.595	mg/L	0.38%
Li 670.784†	1050.7	0.0266	mg/L	0.00015	0.0266	mg/L	0.58%
Mg 279.077†	81493.5	5.291	mg/L	0.0499	5.291	mg/L	0.94%

2	Fe 234.349†	351705.3	329451.5	163.1 mg/L	163.1 mg/L	05:29:13
2	K 766.490†	79790.1	73996.0	31.74 mg/L	31.74 mg/L	05:29:15
2	Li 670.784†	24972.3	23664.7	0.5576 mg/L	0.5576 mg/L	05:29:15
2	Mg 279.077†	435629.0	407775.2	26.48 mg/L	26.48 mg/L	05:29:39
2	Mn 257.610†	2818226.5	2623838.9	2.786 mg/L	2.786 mg/L	05:29:37
2	Mn 294.920†	1424265.8	1334780.8	2.847 mg/L	2.847 mg/L	05:29:37
2	Mo 202.031†	13154.8	12332.8	0.4355 mg/L	0.4355 mg/L	05:29:49
2	Na 589.592†	184971.8	169040.6	22.74 mg/L	22.74 mg/L	05:29:13
2	Ni 231.604†	33832.5	31514.4	0.5866 mg/L	0.5866 mg/L	05:29:39
2	P 214.914†	19813.4	18605.7	9.791 mg/L	9.791 mg/L	05:29:49
2	Pb 220.353†	49073.2	45784.8	2.664 mg/L	2.664 mg/L	05:29:39
2	Sb 206.836†	1222.7	1100.5	0.3847 mg/L	0.3847 mg/L	05:29:49
2	Se 196.026†	1635.4	1515.1	0.8527 mg/L	0.8527 mg/L	05:29:49
2	Sn 189.927†	4446.8	4127.9	0.5275 mg/L	0.5275 mg/L	05:29:49
2	Sr 407.771†	223609.3	209214.0	0.1774 mg/L	0.1774 mg/L	05:29:13
2	Ti 337.279†	4668836.3	4374696.8	4.487 mg/L	4.487 mg/L	05:29:37
2	Tl 190.801†	706.8	669.2	0.4246 mg/L	0.4246 mg/L	05:29:49
2	V 292.402†	190212.2	179077.7	0.7015 mg/L	0.7015 mg/L	05:29:39
2	Zn 213.857†	296762.9	277114.8	1.690 mg/L	1.690 mg/L	05:29:39

Mean Data: CF32510-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3616560.6	1.07	mg/L	0.003			0.27%
Ag 328.068†	47685.1	0.2338	mg/L	0.00194	0.2338 mg/L	0.00194	0.83%
Al 237.313†	719644.8	65.98	mg/L	0.120	65.98 mg/L	0.120	0.18%
As 188.979†	997.9	0.6119	mg/L	0.00057	0.6119 mg/L	0.00057	0.09%
B 249.677†	1063.7	0.4373	mg/L	0.00190	0.4373 mg/L	0.00190	0.43%
B 182.528†	517.4	0.4290	mg/L	0.00043	0.4290 mg/L	0.00043	0.10%
Ba 233.527†	147589.8	1.119	mg/L	0.0145	1.119 mg/L	0.0145	1.29%
Be 313.107†	128994.4	0.0446	mg/L	0.00048	0.0446 mg/L	0.00048	1.07%
Ca 315.887†	3419562.5	30.62	mg/L	0.013	30.62 mg/L	0.013	0.04%
Cd 228.802†	7374.6	0.1960	mg/L	0.00082	0.1960 mg/L	0.00082	0.42%
Co 228.616†	31908.8	0.4972	mg/L	0.00246	0.4972 mg/L	0.00246	0.49%
Cr 267.716†	80190.0	0.6108	mg/L	0.00712	0.6108 mg/L	0.00712	1.17%
Cu 324.752†	253196.9	1.088	mg/L	0.0111	1.088 mg/L	0.0111	1.02%
Fe 234.349†	327380.6	162.1	mg/L	1.45	162.1 mg/L	1.45	0.89%
K 766.490†	73733.4	31.63	mg/L	0.159	31.63 mg/L	0.159	0.50%
Li 670.784†	23479.4	0.5532	mg/L	0.00615	0.5532 mg/L	0.00615	1.11%
Mg 279.077†	403714.3	26.22	mg/L	0.373	26.22 mg/L	0.373	1.42%
Mn 257.610†	2621145.6	2.783	mg/L	0.0038	2.783 mg/L	0.0038	0.14%
Mn 294.920†	1333659.6	2.845	mg/L	0.0034	2.845 mg/L	0.0034	0.12%
Mo 202.031†	12299.3	0.4344	mg/L	0.00150	0.4344 mg/L	0.00150	0.35%
Na 589.592†	168122.2	22.61	mg/L	0.174	22.61 mg/L	0.174	0.77%
Ni 231.604†	31209.0	0.5809	mg/L	0.00804	0.5809 mg/L	0.00804	1.38%
P 214.914†	18542.6	9.758	mg/L	0.0466	9.758 mg/L	0.0466	0.48%
Pb 220.353†	45383.1	2.641	mg/L	0.0332	2.641 mg/L	0.0332	1.26%
Sb 206.836†	1099.8	0.3849	mg/L	0.00025	0.3849 mg/L	0.00025	0.07%
Se 196.026†	1512.3	0.8511	mg/L	0.00223	0.8511 mg/L	0.00223	0.26%
Sn 189.927†	4131.0	0.5278	mg/L	0.00053	0.5278 mg/L	0.00053	0.10%
Sr 407.771†	207788.9	0.1762	mg/L	0.00171	0.1762 mg/L	0.00171	0.97%
Ti 337.279†	4370039.5	4.482	mg/L	0.0068	4.482 mg/L	0.0068	0.15%
Tl 190.801†	667.3	0.4236	mg/L	0.00135	0.4236 mg/L	0.00135	0.32%
V 292.402†	177694.6	0.6961	mg/L	0.00768	0.6961 mg/L	0.00768	1.10%
Zn 213.857†	274956.0	1.677	mg/L	0.0186	1.677 mg/L	0.0186	1.11%

Sequence No.: 205

Sample ID: 1306385-02

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 154

Date Collected: 6/26/2013 5:31:26 AM

Data Type: Reprocessed on 6/26/2013 10:58:22 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306385-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3660090.1	3660090.1	1.08 mg/L		05:33:20
1	Ag 328.068†	2584.2	1650.4	0.0133 mg/L	0.0133 mg/L	05:33:23
1	Al 237.313†	790818.1	730939.9	67.02 mg/L	67.02 mg/L	05:33:20
1	As 188.979†	414.3	381.7	0.2357 mg/L	0.2357 mg/L	05:33:33

1	B 249.677†	-32.4	-14.7	-0.0035 mg/L	-0.0035 mg/L	05:33:10
1	B 182.528†	36.3	40.5	0.0371 mg/L	0.0371 mg/L	05:33:33
1	Ba 233.527†	113450.1	104892.2	0.7958 mg/L	0.7958 mg/L	05:33:23
1	Be 313.107†	14983.5	15274.4	0.0045 mg/L	0.0045 mg/L	05:33:23
1	Ca 315.887†	2845633.1	2629494.7	23.54 mg/L	23.54 mg/L	05:33:20
1	Cd 228.802†	542.1	353.4	0.0078 mg/L	0.0078 mg/L	05:33:33
1	Co 228.616†	4242.0	4096.6	0.0533 mg/L	0.0533 mg/L	05:33:33
1	Cr 267.716†	23866.8	21337.2	0.1628 mg/L	0.1628 mg/L	05:33:23
1	Cu 324.752†	189570.8	171167.6	0.7380 mg/L	0.7380 mg/L	05:33:23
1	Fe 234.349†	404443.4	373623.8	185.0 mg/L	185.0 mg/L	05:33:08
1	K 766.490†	26832.0	24042.2	10.41 mg/L	10.41 mg/L	05:33:10
1	Li 670.784†	4096.4	4056.9	0.0972 mg/L	0.0972 mg/L	05:33:10
1	Mg 279.077†	371803.9	343182.1	22.29 mg/L	22.29 mg/L	05:33:23
1	Mn 257.610†	3127179.0	2872812.8	3.049 mg/L	3.049 mg/L	05:33:20
1	Mn 294.920†	1584233.0	1464144.4	3.123 mg/L	3.123 mg/L	05:33:20
1	Mo 202.031†	465.8	440.7	-0.0125 mg/L	-0.0125 mg/L	05:33:33
1	Na 589.592†	13195.8	7963.7	1.154 mg/L	1.154 mg/L	05:33:10
1	Ni 231.604†	8271.9	7464.4	0.1384 mg/L	0.1384 mg/L	05:33:33
1	P 214.914†	11696.8	10851.5	5.731 mg/L	5.731 mg/L	05:33:33
1	Pb 220.353†	82349.9	75891.2	4.423 mg/L	4.423 mg/L	05:33:23
1	Sb 206.836†	125.0	70.7	-0.0465 mg/L	-0.0465 mg/L	05:33:33
1	Se 196.026†	-37.5	-51.5	-0.0132 mg/L	-0.0132 mg/L	05:33:33
1	Sn 189.927†	2525.6	2295.7	0.2981 mg/L	0.2981 mg/L	05:33:33
1	Sr 407.771†	184968.2	170626.8	0.1447 mg/L	0.1447 mg/L	05:33:08
1	Ti 337.279†	4880359.8	4509741.6	4.625 mg/L	4.625 mg/L	05:33:20
1	Tl 190.801†	-17.0	-8.6	-0.0934 mg/L	-0.0934 mg/L	05:33:33
1	V 292.402†	82092.9	76738.7	0.2931 mg/L	0.2931 mg/L	05:33:23
1	Zn 213.857†	249689.2	229791.8	1.402 mg/L	1.402 mg/L	05:33:23
2	Y 371.029	3644732.8	3644732.8	1.08 mg/L		05:33:36
2	Ag 328.068†	2679.0	1748.5	0.0137 mg/L	0.0137 mg/L	05:33:39
2	Al 237.313†	788018.5	731420.9	67.06 mg/L	67.06 mg/L	05:33:36
2	As 188.979†	417.0	385.8	0.2382 mg/L	0.2382 mg/L	05:33:49
2	B 249.677†	-13.8	2.4	0.0035 mg/L	0.0035 mg/L	05:33:15
2	B 182.528†	40.2	44.2	0.0402 mg/L	0.0402 mg/L	05:33:49
2	Ba 233.527†	114287.4	106110.6	0.8050 mg/L	0.8050 mg/L	05:33:39
2	Be 313.107†	15019.5	15366.2	0.0045 mg/L	0.0045 mg/L	05:33:39
2	Ca 315.887†	2833907.0	2629693.1	23.55 mg/L	23.55 mg/L	05:33:36
2	Cd 228.802†	534.9	348.8	0.0077 mg/L	0.0077 mg/L	05:33:49
2	Co 228.616†	4235.7	4107.3	0.0535 mg/L	0.0535 mg/L	05:33:49
2	Cr 267.716†	24154.4	21696.9	0.1656 mg/L	0.1656 mg/L	05:33:39
2	Cu 324.752†	191310.2	173519.1	0.7480 mg/L	0.7480 mg/L	05:33:39
2	Fe 234.349†	402792.2	373666.3	185.0 mg/L	185.0 mg/L	05:33:13
2	K 766.490†	26839.4	24153.4	10.46 mg/L	10.46 mg/L	05:33:15
2	Li 670.784†	4221.2	4188.6	0.1003 mg/L	0.1003 mg/L	05:33:15
2	Mg 279.077†	375224.0	347802.1	22.59 mg/L	22.59 mg/L	05:33:39
2	Mn 257.610†	3115573.0	2874218.5	3.050 mg/L	3.050 mg/L	05:33:36
2	Mn 294.920†	1579055.2	1465507.6	3.126 mg/L	3.126 mg/L	05:33:36
2	Mo 202.031†	450.1	428.0	-0.0131 mg/L	-0.0131 mg/L	05:33:49
2	Na 589.592†	13337.3	8146.3	1.179 mg/L	1.179 mg/L	05:33:15
2	Ni 231.604†	8252.2	7478.3	0.1387 mg/L	0.1387 mg/L	05:33:49
2	P 214.914†	11662.2	10864.9	5.738 mg/L	5.738 mg/L	05:33:49
2	Pb 220.353†	82923.8	76744.1	4.472 mg/L	4.472 mg/L	05:33:39
2	Sb 206.836†	113.7	60.7	-0.0507 mg/L	-0.0507 mg/L	05:33:49
2	Se 196.026†	-43.6	-57.3	-0.0164 mg/L	-0.0164 mg/L	05:33:49
2	Sn 189.927†	2553.1	2331.0	0.3024 mg/L	0.3024 mg/L	05:33:49
2	Sr 407.771†	184101.0	170542.3	0.1447 mg/L	0.1447 mg/L	05:33:13
2	Ti 337.279†	4861928.7	4511640.0	4.627 mg/L	4.627 mg/L	05:33:36
2	Tl 190.801†	-4.7	2.7	-0.0849 mg/L	-0.0849 mg/L	05:33:49
2	V 292.402†	82700.7	77622.1	0.2966 mg/L	0.2966 mg/L	05:33:39
2	Zn 213.857†	251541.9	232482.5	1.418 mg/L	1.418 mg/L	05:33:39

Mean Data: 1306385-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3652411.4	1.08 mg/L	0.003			0.30%
Ag 328.068†	1699.5	0.0135 mg/L	0.00033	0.0135 mg/L	0.00033	2.47%
Al 237.313†	731180.4	67.04 mg/L	0.031	67.04 mg/L	0.031	0.05%
As 188.979†	383.8	0.2369 mg/L	0.00177	0.2369 mg/L	0.00177	0.75%
B 249.677†	-6.1	0.0000 mg/L	0.00494	0.0000 mg/L	0.00494	>999.9%
B 182.528†	42.4	0.0387 mg/L	0.00219	0.0387 mg/L	0.00219	5.67%
Ba 233.527†	105501.4	0.8004 mg/L	0.00653	0.8004 mg/L	0.00653	0.82%
Be 313.107†	15320.3	0.0045 mg/L	0.00002	0.0045 mg/L	0.00002	0.50%

Ca 315.887†	2629593.9	23.55 mg/L	0.001	23.55 mg/L	0.001	0.01%
Cd 228.802†	351.1	0.0077 mg/L	0.00009	0.0077 mg/L	0.00009	1.12%
Co 228.616†	4102.0	0.0534 mg/L	0.00012	0.0534 mg/L	0.00012	0.22%
Cr 267.716†	21517.1	0.1642 mg/L	0.00193	0.1642 mg/L	0.00193	1.18%
Cu 324.752†	172343.3	0.7430 mg/L	0.00710	0.7430 mg/L	0.00710	0.96%
Fe 234.349†	373645.0	185.0 mg/L	0.01	185.0 mg/L	0.01	0.01%
K 766.490†	24097.8	10.43 mg/L	0.034	10.43 mg/L	0.034	0.32%
Li 670.784†	4122.7	0.0987 mg/L	0.00219	0.0987 mg/L	0.00219	2.22%
Mg 279.077†	345492.1	22.44 mg/L	0.212	22.44 mg/L	0.212	0.95%
Mn 257.610†	2873515.6	3.049 mg/L	0.0011	3.049 mg/L	0.0011	0.03%
Mn 294.920†	1464826.0	3.124 mg/L	0.0021	3.124 mg/L	0.0021	0.07%
Mo 202.031†	434.3	-0.0128 mg/L	0.00038	-0.0128 mg/L	0.00038	2.96%
Na 589.592†	8055.0	1.166 mg/L	0.0173	1.166 mg/L	0.0173	1.48%
Ni 231.604†	7471.4	0.1385 mg/L	0.00018	0.1385 mg/L	0.00018	0.13%
P 214.914†	10858.2	5.735 mg/L	0.0049	5.735 mg/L	0.0049	0.09%
Pb 220.353†	76317.6	4.448 mg/L	0.0353	4.448 mg/L	0.0353	0.79%
Sb 206.836†	65.7	-0.0486 mg/L	0.00291	-0.0486 mg/L	0.00291	6.00%
Se 196.026†	-54.4	-0.0148 mg/L	0.00228	-0.0148 mg/L	0.00228	15.42%
Sn 189.927†	2313.4	0.3002 mg/L	0.00307	0.3002 mg/L	0.00307	1.02%
Sr 407.771†	170584.5	0.1447 mg/L	0.00005	0.1447 mg/L	0.00005	0.03%
Ti 337.279†	4510690.8	4.626 mg/L	0.0014	4.626 mg/L	0.0014	0.03%
Tl 190.801†	-2.9	-0.0892 mg/L	0.00602	-0.0892 mg/L	0.00602	6.75%
V 292.402†	77180.4	0.2949 mg/L	0.00244	0.2949 mg/L	0.00244	0.83%
Zn 213.857†	231137.1	1.410 mg/L	0.0117	1.410 mg/L	0.0117	0.83%

Sequence No.: 206
Sample ID: 1306385-03
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 155
Date Collected: 6/26/2013 5:35:25 AM
Data Type: Reprocessed on 6/26/2013 10:58:22 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306385-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3551898.0	3551898.0	1.05 mg/L		05:37:22
1	Ag 328.068†	3457.6	2554.6	0.0171 mg/L	0.0171 mg/L	05:37:22
1	Al 237.313†	698289.1	665111.4	60.98 mg/L	60.98 mg/L	05:37:22
1	As 188.979†	163.8	154.9	0.0969 mg/L	0.0969 mg/L	05:37:32
1	B 249.677†	22.5	36.6	0.0175 mg/L	0.0175 mg/L	05:37:09
1	B 182.528†	41.7	46.7	0.0422 mg/L	0.0422 mg/L	05:37:32
1	Ba 233.527†	287805.8	274059.4	2.078 mg/L	2.078 mg/L	05:37:22
1	Be 313.107†	12616.6	13442.9	0.0042 mg/L	0.0042 mg/L	05:37:22
1	Ca 315.887†	8223874.2	7829290.0	70.08 mg/L	70.08 mg/L	05:37:18
1	Cd 228.802†	601.7	425.3	0.0101 mg/L	0.0101 mg/L	05:37:32
1	Co 228.616†	3335.9	3353.5	0.0443 mg/L	0.0443 mg/L	05:37:32
1	Cr 267.716†	19130.3	17500.0	0.1336 mg/L	0.1336 mg/L	05:37:22
1	Cu 324.752†	347868.2	327190.3	1.403 mg/L	1.403 mg/L	05:37:22
1	Fe 234.349†	347313.8	330620.9	163.6 mg/L	163.6 mg/L	05:37:06
1	K 766.490†	20447.5	18719.6	8.137 mg/L	8.137 mg/L	05:37:09
1	Li 670.784†	3737.1	3830.1	0.0918 mg/L	0.0918 mg/L	05:37:09
1	Mg 279.077†	243669.6	231669.1	15.04 mg/L	15.04 mg/L	05:37:22
1	Mn 257.610†	2073780.9	1958044.9	2.069 mg/L	2.069 mg/L	05:37:22
1	Mn 294.920†	1054558.0	1004508.5	2.142 mg/L	2.142 mg/L	05:37:22
1	Mo 202.031†	461.1	449.4	-0.0128 mg/L	-0.0128 mg/L	05:37:32
1	Na 589.592†	15782.2	10797.1	1.534 mg/L	1.534 mg/L	05:37:09
1	Ni 231.604†	8593.9	8003.6	0.1484 mg/L	0.1484 mg/L	05:37:32
1	P 214.914†	12993.3	12414.8	6.544 mg/L	6.544 mg/L	05:37:32
1	Pb 220.353†	60502.9	57411.6	3.343 mg/L	3.343 mg/L	05:37:22
1	Sb 206.836†	147.9	96.0	-0.0269 mg/L	-0.0269 mg/L	05:37:32
1	Se 196.026†	-41.9	-56.8	-0.0173 mg/L	-0.0173 mg/L	05:37:32
1	Sn 189.927†	2148.1	2007.4	0.2914 mg/L	0.2914 mg/L	05:37:32
1	Sr 407.771†	355953.3	338597.8	0.2869 mg/L	0.2869 mg/L	05:37:06
1	Ti 337.279†	3380685.5	3219481.8	3.303 mg/L	3.303 mg/L	05:37:22
1	Tl 190.801†	-0.2	6.9	-0.0795 mg/L	-0.0795 mg/L	05:37:32
1	V 292.402†	80320.4	77361.4	0.2965 mg/L	0.2965 mg/L	05:37:22
1	Zn 213.857†	733316.3	697198.1	4.273 mg/L	4.273 mg/L	05:37:22
2	Y 371.029	3568841.4	3568841.4	1.06 mg/L		05:37:38
2	Ag 328.068†	3308.1	2397.4	0.0163 mg/L	0.0163 mg/L	05:37:38
2	Al 237.313†	700747.1	664284.4	60.91 mg/L	60.91 mg/L	05:37:38
2	As 188.979†	174.5	164.2	0.1026 mg/L	0.1026 mg/L	05:37:49

2	B	249.677†	23.3	37.3	0.0178	mg/L	0.0178	mg/L	05:37:13
2	B	182.528†	38.8	43.7	0.0398	mg/L	0.0398	mg/L	05:37:49
2	Ba	233.527†	288900.7	273796.0	2.076	mg/L	2.076	mg/L	05:37:38
2	Be	313.107†	12706.0	13470.6	0.0042	mg/L	0.0042	mg/L	05:37:38
2	Ca	315.887†	8315813.6	7879227.8	70.53	mg/L	70.53	mg/L	05:37:35
2	Cd	228.802†	600.8	421.8	0.0100	mg/L	0.0100	mg/L	05:37:49
2	Co	228.616†	3300.9	3305.2	0.0435	mg/L	0.0435	mg/L	05:37:49
2	Cr	267.716†	19099.6	17384.4	0.1328	mg/L	0.1328	mg/L	05:37:38
2	Cu	324.752†	349936.8	327577.9	1.405	mg/L	1.405	mg/L	05:37:38
2	Fe	234.349†	348137.2	329831.4	163.2	mg/L	163.2	mg/L	05:37:11
2	K	766.490†	20605.2	18776.5	8.162	mg/L	8.162	mg/L	05:37:13
2	Li	670.784†	3934.6	4000.3	0.0958	mg/L	0.0958	mg/L	05:37:13
2	Mg	279.077†	244004.2	230884.9	14.99	mg/L	14.99	mg/L	05:37:38
2	Mn	257.610†	2080882.3	1955400.7	2.067	mg/L	2.067	mg/L	05:37:38
2	Mn	294.920†	1058753.2	1003717.1	2.141	mg/L	2.141	mg/L	05:37:38
2	Mo	202.031†	459.8	446.1	-0.0128	mg/L	-0.0128	mg/L	05:37:49
2	Na	589.592†	15791.8	10734.9	1.526	mg/L	1.526	mg/L	05:37:13
2	Ni	231.604†	8660.0	8027.4	0.1489	mg/L	0.1489	mg/L	05:37:49
2	P	214.914†	13054.0	12413.6	6.544	mg/L	6.544	mg/L	05:37:49
2	Pb	220.353†	60594.6	57225.0	3.332	mg/L	3.332	mg/L	05:37:38
2	Sb	206.836†	148.1	95.5	-0.0269	mg/L	-0.0269	mg/L	05:37:49
2	Se	196.026†	-55.5	-69.5	-0.0244	mg/L	-0.0244	mg/L	05:37:49
2	Sn	189.927†	2149.8	1999.3	0.2907	mg/L	0.2907	mg/L	05:37:49
2	Sr	407.771†	356998.6	337979.5	0.2864	mg/L	0.2864	mg/L	05:37:11
2	Ti	337.279†	3395668.2	3218398.0	3.302	mg/L	3.302	mg/L	05:37:38
2	Tl	190.801†	-2.9	4.4	-0.0813	mg/L	-0.0813	mg/L	05:37:49
2	V	292.402†	80700.9	77359.0	0.2965	mg/L	0.2965	mg/L	05:37:38
2	Zn	213.857†	736580.8	696976.8	4.272	mg/L	4.272	mg/L	05:37:38

Mean Data: 1306385-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3560369.7	1.05	mg/L	0.004			0.34%
Ag 328.068†	2476.0	0.0167	mg/L	0.00054	0.0167	0.00054	3.24%
Al 237.313†	664697.9	60.94	mg/L	0.054	60.94	0.054	0.09%
As 188.979†	159.6	0.0997	mg/L	0.00405	0.0997	0.00405	4.06%
B 249.677†	37.0	0.0176	mg/L	0.00019	0.0176	0.00019	1.09%
B 182.528†	45.2	0.0410	mg/L	0.00174	0.0410	0.00174	4.24%
Ba 233.527†	273927.7	2.077	mg/L	0.0014	2.077	0.0014	0.07%
Be 313.107†	13456.8	0.0042	mg/L	0.00001	0.0042	0.00001	0.17%
Ca 315.887†	7854258.9	70.31	mg/L	0.316	70.31	0.316	0.45%
Cd 228.802†	423.5	0.0100	mg/L	0.00006	0.0100	0.00006	0.63%
Co 228.616†	3329.3	0.0439	mg/L	0.00054	0.0439	0.00054	1.23%
Cr 267.716†	17442.2	0.1332	mg/L	0.00062	0.1332	0.00062	0.47%
Cu 324.752†	327384.1	1.404	mg/L	0.0012	1.404	0.0012	0.08%
Fe 234.349†	330226.1	163.4	mg/L	0.28	163.4	0.28	0.17%
K 766.490†	18748.1	8.149	mg/L	0.0172	8.149	0.0172	0.21%
Li 670.784†	3915.2	0.0938	mg/L	0.00283	0.0938	0.00283	3.01%
Mg 279.077†	231277.0	15.02	mg/L	0.036	15.02	0.036	0.24%
Mn 257.610†	1956722.8	2.068	mg/L	0.0019	2.068	0.0019	0.09%
Mn 294.920†	1004112.8	2.142	mg/L	0.0012	2.142	0.0012	0.06%
Mo 202.031†	447.7	-0.0128	mg/L	0.00005	-0.0128	0.00005	0.41%
Na 589.592†	10766.0	1.530	mg/L	0.0059	1.530	0.0059	0.39%
Ni 231.604†	8015.5	0.1487	mg/L	0.00031	0.1487	0.00031	0.21%
P 214.914†	12414.2	6.544	mg/L	0.0005	6.544	0.0005	0.01%
Pb 220.353†	57318.3	3.338	mg/L	0.0077	3.338	0.0077	0.23%
Sb 206.836†	95.7	-0.0269	mg/L	0.00001	-0.0269	0.00001	0.04%
Se 196.026†	-63.1	-0.0209	mg/L	0.00499	-0.0209	0.00499	23.92%
Sn 189.927†	2003.3	0.2911	mg/L	0.00051	0.2911	0.00051	0.18%
Sr 407.771†	338288.7	0.2867	mg/L	0.00037	0.2867	0.00037	0.13%
Ti 337.279†	3218939.9	3.302	mg/L	0.0008	3.302	0.0008	0.02%
Tl 190.801†	5.7	-0.0804	mg/L	0.00127	-0.0804	0.00127	1.58%
V 292.402†	77360.2	0.2965	mg/L	0.00001	0.2965	0.00001	0.00%
Zn 213.857†	697087.4	4.273	mg/L	0.0010	4.273	0.0010	0.02%

Sequence No.: 207

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 5:39:26 AM

Data Type: Reprocessed on 6/26/2013 10:58:23 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3469548.5	3469548.5	1.03	mg/L			05:41:18
1	Ag 328.068†	51561.0	49510.7	0.2385	mg/L	0.2385	mg/L	05:41:18
1	Al 237.313†	26713.1	26420.1	2.431	mg/L	2.431	mg/L	05:41:29
1	As 188.979†	778.8	758.0	0.4655	mg/L	0.4655	mg/L	05:41:29
1	B 249.677†	1156.8	1142.6	0.4695	mg/L	0.4695	mg/L	05:41:09
1	B 182.528†	564.5	557.1	0.4616	mg/L	0.4616	mg/L	05:41:29
1	Ba 233.527†	64514.4	62958.7	0.4779	mg/L	0.4779	mg/L	05:41:18
1	Be 313.107†	125195.7	123439.3	0.0436	mg/L	0.0436	mg/L	05:41:18
1	Ca 315.887†	633407.1	617989.9	5.541	mg/L	5.541	mg/L	05:41:18
1	Cd 228.802†	8275.7	7917.5	0.2132	mg/L	0.2132	mg/L	05:41:29
1	Co 228.616†	31186.9	30570.4	0.4844	mg/L	0.4844	mg/L	05:41:29
1	Cr 267.716†	68216.1	65767.5	0.5011	mg/L	0.5011	mg/L	05:41:18
1	Cu 324.752†	125121.0	117977.1	0.5056	mg/L	0.5056	mg/L	05:41:18
1	Fe 234.349†	5049.3	4922.3	2.431	mg/L	2.431	mg/L	05:41:09
1	K 766.490†	54875.7	52732.7	22.66	mg/L	22.66	mg/L	05:41:06
1	Li 670.784†	20008.8	19771.7	0.4662	mg/L	0.4662	mg/L	05:41:09
1	Mg 279.077†	84161.6	81729.8	5.306	mg/L	5.306	mg/L	05:41:18
1	Mn 257.610†	487220.3	458754.8	0.4929	mg/L	0.4929	mg/L	05:41:18
1	Mn 294.920†	231901.6	226634.8	0.4832	mg/L	0.4832	mg/L	05:41:18
1	Mo 202.031†	13014.0	12692.9	0.4764	mg/L	0.4764	mg/L	05:41:29
1	Na 589.592†	180610.6	171783.3	23.10	mg/L	23.10	mg/L	05:41:06
1	Ni 231.604†	27719.8	26836.5	0.4996	mg/L	0.4996	mg/L	05:41:18
1	P 214.914†	8675.6	8500.6	4.498	mg/L	4.498	mg/L	05:41:29
1	Pb 220.353†	8739.0	8333.3	0.4903	mg/L	0.4903	mg/L	05:41:29
1	Sb 206.836†	1177.1	1102.3	0.4548	mg/L	0.4548	mg/L	05:41:29
1	Se 196.026†	1800.2	1737.5	0.9663	mg/L	0.9663	mg/L	05:41:29
1	Sn 189.927†	4115.5	3973.2	0.4929	mg/L	0.4929	mg/L	05:41:29
1	Sr 407.771†	53961.5	52341.2	0.0446	mg/L	0.0446	mg/L	05:41:06
1	Ti 337.279†	481474.3	470507.3	0.4851	mg/L	0.4851	mg/L	05:41:18
1	Tl 190.801†	740.1	728.4	0.5449	mg/L	0.5449	mg/L	05:41:29
1	V 292.402†	124403.5	122136.3	0.4874	mg/L	0.4874	mg/L	05:41:18
1	Zn 213.857†	82340.5	79373.5	0.4838	mg/L	0.4838	mg/L	05:41:18
2	Y 371.029	3460876.9	3460876.9	1.02	mg/L			05:41:32
2	Ag 328.068†	51641.6	49715.4	0.2395	mg/L	0.2395	mg/L	05:41:32
2	Al 237.313†	26785.5	26556.0	2.444	mg/L	2.444	mg/L	05:41:43
2	As 188.979†	778.8	759.8	0.4667	mg/L	0.4667	mg/L	05:41:43
2	B 249.677†	1151.3	1140.0	0.4685	mg/L	0.4685	mg/L	05:41:13
2	B 182.528†	563.5	557.5	0.4619	mg/L	0.4619	mg/L	05:41:43
2	Ba 233.527†	64514.4	63116.3	0.4791	mg/L	0.4791	mg/L	05:41:32
2	Be 313.107†	125246.9	123795.0	0.0438	mg/L	0.0438	mg/L	05:41:32
2	Ca 315.887†	632115.5	618274.7	5.544	mg/L	5.544	mg/L	05:41:32
2	Cd 228.802†	8314.5	7975.6	0.2148	mg/L	0.2148	mg/L	05:41:43
2	Co 228.616†	31355.5	30811.2	0.4883	mg/L	0.4883	mg/L	05:41:43
2	Cr 267.716†	68250.2	65967.5	0.5027	mg/L	0.5027	mg/L	05:41:32
2	Cu 324.752†	125023.9	118187.7	0.5065	mg/L	0.5065	mg/L	05:41:32
2	Fe 234.349†	4988.2	4875.0	2.408	mg/L	2.408	mg/L	05:41:13
2	K 766.490†	54826.1	52818.3	22.70	mg/L	22.70	mg/L	05:41:11
2	Li 670.784†	20152.5	19960.9	0.4706	mg/L	0.4706	mg/L	05:41:13
2	Mg 279.077†	84268.3	82039.6	5.326	mg/L	5.326	mg/L	05:41:32
2	Mn 257.610†	487119.5	459846.1	0.4941	mg/L	0.4941	mg/L	05:41:32
2	Mn 294.920†	231880.4	227180.3	0.4844	mg/L	0.4844	mg/L	05:41:32
2	Mo 202.031†	13115.1	12823.5	0.4813	mg/L	0.4813	mg/L	05:41:43
2	Na 589.592†	180847.8	172456.1	23.19	mg/L	23.19	mg/L	05:41:11
2	Ni 231.604†	27606.3	26793.3	0.4988	mg/L	0.4988	mg/L	05:41:32
2	P 214.914†	8713.7	8559.0	4.528	mg/L	4.528	mg/L	05:41:43
2	Pb 220.353†	8732.2	8348.0	0.4911	mg/L	0.4911	mg/L	05:41:43
2	Sb 206.836†	1197.3	1125.0	0.4642	mg/L	0.4642	mg/L	05:41:43
2	Se 196.026†	1782.2	1724.3	0.9591	mg/L	0.9591	mg/L	05:41:43
2	Sn 189.927†	4147.9	4014.9	0.4981	mg/L	0.4981	mg/L	05:41:43
2	Sr 407.771†	53886.1	52399.4	0.0447	mg/L	0.0447	mg/L	05:41:11
2	Ti 337.279†	479766.2	470014.2	0.4846	mg/L	0.4846	mg/L	05:41:32
2	Tl 190.801†	744.5	734.4	0.5495	mg/L	0.5495	mg/L	05:41:43
2	V 292.402†	124296.4	122335.4	0.4882	mg/L	0.4882	mg/L	05:41:32
2	Zn 213.857†	82324.2	79558.7	0.4850	mg/L	0.4850	mg/L	05:41:32

Mean Data: CCV1

Mean Corrected

Calib

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Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3465212.7	1.02 mg/L	0.002			0.18%
Ag 328.068†	49613.1	0.2390 mg/L	0.00069	0.2390 mg/L	0.00069	0.29%
QC value within limits for Ag 328.068		Recovery = 95.59%				
Al 237.313†	26488.1	2.437 mg/L	0.0088	2.437 mg/L	0.0088	0.36%
QC value within limits for Al 237.313		Recovery = 97.49%				
As 188.979†	758.9	0.4661 mg/L	0.00081	0.4661 mg/L	0.00081	0.17%
QC value within limits for As 188.979		Recovery = 93.22%				
B 249.677†	1141.3	0.4690 mg/L	0.00074	0.4690 mg/L	0.00074	0.16%
QC value within limits for B 249.677		Recovery = 93.80%				
B 182.528†	557.3	0.4618 mg/L	0.00024	0.4618 mg/L	0.00024	0.05%
QC value within limits for B 182.528		Recovery = 92.35%				
Ba 233.527†	63037.5	0.4785 mg/L	0.00084	0.4785 mg/L	0.00084	0.18%
QC value within limits for Ba 233.527		Recovery = 95.70%				
Be 313.107†	123617.1	0.0437 mg/L	0.00009	0.0437 mg/L	0.00009	0.20%
QC value less than the lower limit for Be 313.107		Recovery = 87.39%				
Ca 315.887†	618132.3	5.542 mg/L	0.0018	5.542 mg/L	0.0018	0.03%
QC value greater than the upper limit for Ca 315.887		Recovery = 110.85%				
Cd 228.802†	7946.5	0.2140 mg/L	0.00110	0.2140 mg/L	0.00110	0.51%
QC value less than the lower limit for Cd 228.802		Recovery = 85.60%				
Co 228.616†	30690.8	0.4864 mg/L	0.00272	0.4864 mg/L	0.00272	0.56%
QC value within limits for Co 228.616		Recovery = 97.27%				
Cr 267.716†	65867.5	0.5019 mg/L	0.00108	0.5019 mg/L	0.00108	0.21%
QC value within limits for Cr 267.716		Recovery = 100.38%				
Cu 324.752†	118082.4	0.5060 mg/L	0.00063	0.5060 mg/L	0.00063	0.13%
QC value within limits for Cu 324.752		Recovery = 101.20%				
Fe 234.349†	4898.7	2.420 mg/L	0.0166	2.420 mg/L	0.0166	0.68%
QC value within limits for Fe 234.349		Recovery = 96.78%				
K 766.490†	52775.5	22.68 mg/L	0.026	22.68 mg/L	0.026	0.11%
QC value within limits for K 766.490		Recovery = 90.72%				
Li 670.784†	19866.3	0.4684 mg/L	0.00314	0.4684 mg/L	0.00314	0.67%
QC value within limits for Li 670.784		Recovery = 93.68%				
Mg 279.077†	81884.7	5.316 mg/L	0.0142	5.316 mg/L	0.0142	0.27%
QC value within limits for Mg 279.077		Recovery = 106.32%				
Mn 257.610†	459300.4	0.4935 mg/L	0.00083	0.4935 mg/L	0.00083	0.17%
QC value within limits for Mn 257.610		Recovery = 98.70%				
Mn 294.920†	226907.6	0.4838 mg/L	0.00082	0.4838 mg/L	0.00082	0.17%
QC value within limits for Mn 294.920		Recovery = 96.77%				
Mo 202.031†	12758.2	0.4789 mg/L	0.00347	0.4789 mg/L	0.00347	0.72%
QC value within limits for Mo 202.031		Recovery = 95.77%				
Na 589.592†	172119.7	23.15 mg/L	0.064	23.15 mg/L	0.064	0.28%
QC value within limits for Na 589.592		Recovery = 92.60%				
Ni 231.604†	26814.9	0.4992 mg/L	0.00056	0.4992 mg/L	0.00056	0.11%
QC value within limits for Ni 231.604		Recovery = 99.83%				
P 214.914†	8529.8	4.513 mg/L	0.0216	4.513 mg/L	0.0216	0.48%
QC value within limits for P 214.914		Recovery = 90.26%				
Pb 220.353†	8340.6	0.4907 mg/L	0.00062	0.4907 mg/L	0.00062	0.13%
QC value within limits for Pb 220.353		Recovery = 98.14%				
Sb 206.836†	1113.6	0.4595 mg/L	0.00659	0.4595 mg/L	0.00659	1.43%
QC value within limits for Sb 206.836		Recovery = 91.90%				
Se 196.026†	1730.9	0.9627 mg/L	0.00515	0.9627 mg/L	0.00515	0.53%
QC value within limits for Se 196.026		Recovery = 96.27%				
Sn 189.927†	3994.0	0.4955 mg/L	0.00363	0.4955 mg/L	0.00363	0.73%
QC value within limits for Sn 189.927		Recovery = 99.10%				
Sr 407.771†	52370.3	0.0446 mg/L	0.00003	0.0446 mg/L	0.00003	0.08%
QC value less than the lower limit for Sr 407.771		Recovery = 89.26%				
Ti 337.279†	470260.7	0.4848 mg/L	0.00036	0.4848 mg/L	0.00036	0.07%
QC value within limits for Ti 337.279		Recovery = 96.96%				
Tl 190.801†	731.4	0.5472 mg/L	0.00324	0.5472 mg/L	0.00324	0.59%
QC value within limits for Tl 190.801		Recovery = 109.45%				
V 292.402†	122235.9	0.4878 mg/L	0.00060	0.4878 mg/L	0.00060	0.12%
QC value within limits for V 292.402		Recovery = 97.56%				
Zn 213.857†	79466.1	0.4844 mg/L	0.00081	0.4844 mg/L	0.00081	0.17%
QC value within limits for Zn 213.857		Recovery = 96.88%				
QC Failed. Continue with analysis.						

Sequence No.: 208

Sample ID: CCB1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/26/2013 5:43:21 AM

Data Type: Reprocessed on 6/26/2013 10:58:23 AM

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: CCB1

Repl#	Analyte	Net	Corrected	Calib.	Sample		Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time	
1	Y 371.029	3537737.5	3537737.5	1.05 mg/L			05:45:26
1	Ag 328.068†	835.2	61.4	0.0009 mg/L	0.0009 mg/L		05:45:28
1	Al 237.313†	-360.8	42.6	0.0110 mg/L	0.0110 mg/L		05:45:28
1	As 188.979†	4.6	3.3	0.0047 mg/L	0.0047 mg/L		05:45:38
1	B 249.677†	-7.0	8.5	0.0060 mg/L	0.0060 mg/L		05:45:10
1	B 182.528†	-0.3	6.6	0.0093 mg/L	0.0093 mg/L		05:45:38
1	Ba 233.527†	-12.4	75.9	0.0012 mg/L	0.0012 mg/L		05:45:38
1	Be 313.107†	-1202.8	283.2	0.0003 mg/L	0.0003 mg/L		05:45:28
1	Ca 315.887†	784.8	1468.0	0.0214 mg/L	0.0214 mg/L		05:45:28
1	Cd 228.802†	151.0	-3.1	0.0014 mg/L	0.0014 mg/L		05:45:38
1	Co 228.616†	-161.5	23.6	-0.0017 mg/L	-0.0017 mg/L		05:45:38
1	Cr 267.716†	678.5	-62.3	0.0000 mg/L	0.0000 mg/L		05:45:28
1	Cu 324.752†	3728.2	-393.5	-0.0004 mg/L	-0.0004 mg/L		05:45:28
1	Fe 234.349†	32.8	33.0	0.0269 mg/L	0.0269 mg/L		05:45:10
1	K 766.490†	819.9	38.5	0.1599 mg/L	0.1599 mg/L		05:45:00
1	Li 670.784†	-243.8	39.6	0.0028 mg/L	0.0028 mg/L		05:45:00
1	Mg 279.077†	380.6	75.9	0.0029 mg/L	0.0029 mg/L		05:45:28
1	Mn 257.610†	16796.8	-0.8	-0.0001 mg/L	-0.0001 mg/L		05:45:28
1	Mn 294.920†	-31.6	610.4	0.0011 mg/L	0.0011 mg/L		05:45:28
1	Mo 202.031†	25.1	34.4	0.0041 mg/L	0.0041 mg/L		05:45:38
1	Na 589.592†	7392.1	2838.5	0.4675 mg/L	0.4675 mg/L		05:45:00
1	Ni 231.604†	165.9	-18.6	-0.0009 mg/L	-0.0009 mg/L		05:45:28
1	P 214.914†	-0.7	45.4	0.0723 mg/L	0.0723 mg/L		05:45:38
1	Pb 220.353†	210.0	17.6	0.0030 mg/L	0.0030 mg/L		05:45:38
1	Sb 206.836†	44.9	-1.9	0.0036 mg/L	0.0036 mg/L		05:45:38
1	Se 196.026†	11.2	-6.2	0.0010 mg/L	0.0010 mg/L		05:45:38
1	Sn 189.927†	32.3	-6.6	0.0008 mg/L	0.0008 mg/L		05:45:38
1	Sr 407.771†	256.4	-0.6	0.0003 mg/L	0.0003 mg/L		05:45:00
1	Ti 337.279†	-804.5	529.0	0.0033 mg/L	0.0033 mg/L		05:45:28
1	Tl 190.801†	-5.3	2.1	0.0012 mg/L	0.0012 mg/L		05:45:38
1	V 292.402†	-864.8	75.4	0.0027 mg/L	0.0027 mg/L		05:45:28
1	Zn 213.857†	936.3	25.5	0.0006 mg/L	0.0006 mg/L		05:45:38
2	Y 371.029	3590330.4	3590330.4	1.06 mg/L			05:45:40
2	Ag 328.068†	856.2	69.5	0.0010 mg/L	0.0010 mg/L		05:45:43
2	Al 237.313†	-405.4	5.6	0.0076 mg/L	0.0076 mg/L		05:45:43
2	As 188.979†	6.8	5.4	0.0059 mg/L	0.0059 mg/L		05:45:53
2	B 249.677†	-10.7	5.2	0.0046 mg/L	0.0046 mg/L		05:45:22
2	B 182.528†	1.6	8.5	0.0109 mg/L	0.0109 mg/L		05:45:53
2	Ba 233.527†	-11.4	77.0	0.0012 mg/L	0.0012 mg/L		05:45:53
2	Be 313.107†	-1157.2	343.0	0.0003 mg/L	0.0003 mg/L		05:45:43
2	Ca 315.887†	641.2	1321.8	0.0201 mg/L	0.0201 mg/L		05:45:43
2	Cd 228.802†	153.5	-2.8	0.0014 mg/L	0.0014 mg/L		05:45:53
2	Co 228.616†	-158.9	28.3	-0.0016 mg/L	-0.0016 mg/L		05:45:53
2	Cr 267.716†	686.9	-64.0	0.0000 mg/L	0.0000 mg/L		05:45:43
2	Cu 324.752†	3731.0	-443.1	-0.0006 mg/L	-0.0006 mg/L		05:45:43
2	Fe 234.349†	20.7	21.1	0.0210 mg/L	0.0210 mg/L		05:45:22
2	K 766.490†	906.6	108.7	0.1898 mg/L	0.1898 mg/L		05:45:12
2	Li 670.784†	-155.4	126.3	0.0049 mg/L	0.0049 mg/L		05:45:12
2	Mg 279.077†	443.6	129.9	0.0064 mg/L	0.0064 mg/L		05:45:43
2	Mn 257.610†	17002.1	-42.6	-0.0001 mg/L	-0.0001 mg/L		05:45:43
2	Mn 294.920†	47.3	685.1	0.0013 mg/L	0.0013 mg/L		05:45:43
2	Mo 202.031†	12.2	21.9	0.0036 mg/L	0.0036 mg/L		05:45:53
2	Na 589.592†	7692.8	3018.1	0.4915 mg/L	0.4915 mg/L		05:45:12
2	Ni 231.604†	166.9	-19.9	-0.0009 mg/L	-0.0009 mg/L		05:45:43
2	P 214.914†	-28.0	19.7	0.0588 mg/L	0.0588 mg/L		05:45:53
2	Pb 220.353†	200.6	5.8	0.0023 mg/L	0.0023 mg/L		05:45:53
2	Sb 206.836†	45.3	-2.1	0.0035 mg/L	0.0035 mg/L		05:45:53
2	Se 196.026†	23.7	5.5	0.0075 mg/L	0.0075 mg/L		05:45:53
2	Sn 189.927†	46.8	6.6	0.0024 mg/L	0.0024 mg/L		05:45:53
2	Sr 407.771†	319.4	55.1	0.0003 mg/L	0.0003 mg/L		05:45:12
2	Ti 337.279†	-1095.9	265.9	0.0031 mg/L	0.0031 mg/L		05:45:43
2	Tl 190.801†	-3.7	3.7	0.0024 mg/L	0.0024 mg/L		05:45:53
2	V 292.402†	-838.7	112.1	0.0028 mg/L	0.0028 mg/L		05:45:43
2	Zn 213.857†	918.9	-4.0	0.0005 mg/L	0.0005 mg/L		05:45:53

 Mean Data: CCB1

Mean Corrected

Calib

Sample
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Replicate Data: 1306385-04

Repl#	Analyte	Net	Corrected	Calib.	Sample		Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time	
1	Y 371.029	3665208.4	3665208.4	1.08 mg/L			05:49:27
1	Ag 328.068†	10192.1	8665.5	0.0465 mg/L	0.0465 mg/L		05:49:27
1	Al 237.313†	892968.6	824153.9	75.56 mg/L	75.56 mg/L		05:49:27
1	As 188.979†	159.2	145.8	0.0913 mg/L	0.0913 mg/L		05:49:37
1	B 249.677†	-5.5	10.2	0.0067 mg/L	0.0067 mg/L		05:49:14
1	B 182.528†	40.9	44.7	0.0406 mg/L	0.0406 mg/L		05:49:37
1	Ba 233.527†	224256.3	206964.9	1.570 mg/L	1.570 mg/L		05:49:27
1	Be 313.107†	15631.4	15852.8	0.0048 mg/L	0.0048 mg/L		05:49:27
1	Ca 315.887†	6815319.4	6287872.3	56.29 mg/L	56.29 mg/L		05:49:23
1	Cd 228.802†	447.8	265.7	0.0058 mg/L	0.0058 mg/L		05:49:37
1	Co 228.616†	5356.4	5119.2	0.0703 mg/L	0.0703 mg/L		05:49:37
1	Cr 267.716†	25647.7	22949.3	0.1751 mg/L	0.1751 mg/L		05:49:27
1	Cu 324.752†	278914.5	253342.8	1.089 mg/L	1.089 mg/L		05:49:27
1	Fe 234.349†	364583.5	336331.1	166.4 mg/L	166.4 mg/L		05:49:11
1	K 766.490†	31643.5	28446.2	12.29 mg/L	12.29 mg/L		05:49:14
1	Li 670.784†	5500.4	5346.7	0.1274 mg/L	0.1274 mg/L		05:49:14
1	Mg 279.077†	439080.0	404764.9	26.29 mg/L	26.29 mg/L		05:49:27
1	Mn 257.610†	2664714.0	2442153.1	2.589 mg/L	2.589 mg/L		05:49:27
1	Mn 294.920†	1351585.6	1247482.7	2.661 mg/L	2.661 mg/L		05:49:27
1	Mo 202.031†	517.7	488.0	-0.0100 mg/L	-0.0100 mg/L		05:49:37
1	Na 589.592†	14887.6	9507.4	1.361 mg/L	1.361 mg/L		05:49:14
1	Ni 231.604†	9683.4	8755.8	0.1624 mg/L	0.1624 mg/L		05:49:37
1	P 214.914†	12476.9	11556.0	6.097 mg/L	6.097 mg/L		05:49:37
1	Pb 220.353†	100823.2	92826.6	5.411 mg/L	5.411 mg/L		05:49:27
1	Sb 206.836†	110.6	57.2	-0.0443 mg/L	-0.0443 mg/L		05:49:37
1	Se 196.026†	-45.7	-59.0	-0.0184 mg/L	-0.0184 mg/L		05:49:37
1	Sn 189.927†	507.1	430.3	0.0892 mg/L	0.0892 mg/L		05:49:37
1	Sr 407.771†	333375.5	307294.3	0.2604 mg/L	0.2604 mg/L		05:49:11
1	Ti 337.279†	4530178.9	4180402.7	4.288 mg/L	4.288 mg/L		05:49:23
1	Tl 190.801†	-2.8	4.5	-0.0804 mg/L	-0.0804 mg/L		05:49:37
1	V 292.402†	82023.2	76568.5	0.2925 mg/L	0.2925 mg/L		05:49:27
1	Zn 213.857†	476932.7	439102.6	2.688 mg/L	2.688 mg/L		05:49:27
2	Y 371.029	3675241.6	3675241.6	1.09 mg/L			05:49:44
2	Ag 328.068†	10056.4	8515.0	0.0458 mg/L	0.0458 mg/L		05:49:44
2	Al 237.313†	895844.1	824550.5	75.60 mg/L	75.60 mg/L		05:49:44
2	As 188.979†	168.5	154.0	0.0963 mg/L	0.0963 mg/L		05:49:54
2	B 249.677†	-35.7	-17.6	-0.0046 mg/L	-0.0046 mg/L		05:49:18
2	B 182.528†	39.6	43.4	0.0395 mg/L	0.0395 mg/L		05:49:54
2	Ba 233.527†	225046.8	207127.4	1.571 mg/L	1.571 mg/L		05:49:44
2	Be 313.107†	15726.2	15900.6	0.0048 mg/L	0.0048 mg/L		05:49:44
2	Ca 315.887†	6742726.9	6203924.7	55.54 mg/L	55.54 mg/L		05:49:40
2	Cd 228.802†	448.4	265.1	0.0058 mg/L	0.0058 mg/L		05:49:54
2	Co 228.616†	5326.5	5078.2	0.0698 mg/L	0.0698 mg/L		05:49:54
2	Cr 267.716†	25712.4	22944.2	0.1750 mg/L	0.1750 mg/L		05:49:44
2	Cu 324.752†	279658.0	253324.5	1.088 mg/L	1.088 mg/L		05:49:44
2	Fe 234.349†	365688.0	336429.1	166.5 mg/L	166.5 mg/L		05:49:16
2	K 766.490†	31893.7	28596.6	12.36 mg/L	12.36 mg/L		05:49:18
2	Li 670.784†	5506.0	5338.1	0.1272 mg/L	0.1272 mg/L		05:49:18
2	Mg 279.077†	439897.1	404410.8	26.26 mg/L	26.26 mg/L		05:49:44
2	Mn 257.610†	2672532.2	2442635.0	2.590 mg/L	2.590 mg/L		05:49:44
2	Mn 294.920†	1355934.0	1248079.4	2.662 mg/L	2.662 mg/L		05:49:44
2	Mo 202.031†	496.2	466.9	-0.0107 mg/L	-0.0107 mg/L		05:49:54
2	Na 589.592†	14894.5	9476.2	1.357 mg/L	1.357 mg/L		05:49:18
2	Ni 231.604†	9632.6	8684.7	0.1611 mg/L	0.1611 mg/L		05:49:54
2	P 214.914†	12392.3	11446.8	6.040 mg/L	6.040 mg/L		05:49:54
2	Pb 220.353†	101061.9	92792.3	5.409 mg/L	5.409 mg/L		05:49:44
2	Sb 206.836†	128.9	73.8	-0.0375 mg/L	-0.0375 mg/L		05:49:54
2	Se 196.026†	-44.1	-57.4	-0.0175 mg/L	-0.0175 mg/L		05:49:54
2	Sn 189.927†	503.5	425.7	0.0882 mg/L	0.0882 mg/L		05:49:54
2	Sr 407.771†	334530.2	307517.1	0.2606 mg/L	0.2606 mg/L		05:49:16
2	Ti 337.279†	4488664.2	4130801.1	4.237 mg/L	4.237 mg/L		05:49:40
2	Tl 190.801†	-0.3	6.9	-0.0785 mg/L	-0.0785 mg/L		05:49:54
2	V 292.402†	82070.1	76405.1	0.2919 mg/L	0.2919 mg/L		05:49:44
2	Zn 213.857†	478257.3	439120.0	2.688 mg/L	2.688 mg/L		05:49:44

Mean Data: 1306385-04

Mean Corrected

Calib

Sample Page 427 of 722

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	3670225.0	1.09 mg/L	0.002			0.19%
Ag 328.068†	8590.2	0.0461 mg/L	0.00051	0.0461 mg/L	0.00051	1.11%
Al 237.313†	824352.2	75.58 mg/L	0.026	75.58 mg/L	0.026	0.03%
As 188.979†	149.9	0.0938 mg/L	0.00354	0.0938 mg/L	0.00354	3.77%
B 249.677†	-3.7	0.0010 mg/L	0.00802	0.0010 mg/L	0.00802	781.12%
B 182.528†	44.0	0.0401 mg/L	0.00075	0.0401 mg/L	0.00075	1.88%
Ba 233.527†	207046.2	1.570 mg/L	0.0009	1.570 mg/L	0.0009	0.06%
Be 313.107†	15876.7	0.0048 mg/L	0.00002	0.0048 mg/L	0.00002	0.43%
Ca 315.887†	6245898.5	55.91 mg/L	0.531	55.91 mg/L	0.531	0.95%
Cd 228.802†	265.4	0.0058 mg/L	0.00001	0.0058 mg/L	0.00001	0.21%
Co 228.616†	5098.7	0.0701 mg/L	0.00038	0.0701 mg/L	0.00038	0.55%
Cr 267.716†	22946.7	0.1751 mg/L	0.00003	0.1751 mg/L	0.00003	0.02%
Cu 324.752†	253333.7	1.089 mg/L	0.0001	1.089 mg/L	0.0001	0.01%
Fe 234.349†	336380.1	166.5 mg/L	0.04	166.5 mg/L	0.04	0.02%
K 766.490†	28521.4	12.32 mg/L	0.045	12.32 mg/L	0.045	0.37%
Li 670.784†	5342.4	0.1273 mg/L	0.00014	0.1273 mg/L	0.00014	0.11%
Mg 279.077†	404587.8	26.27 mg/L	0.016	26.27 mg/L	0.016	0.06%
Mn 257.610†	2442394.0	2.590 mg/L	0.0004	2.590 mg/L	0.0004	0.01%
Mn 294.920†	1247781.1	2.661 mg/L	0.0009	2.661 mg/L	0.0009	0.03%
Mo 202.031†	477.5	-0.0103 mg/L	0.00057	-0.0103 mg/L	0.00057	5.46%
Na 589.592†	9491.8	1.359 mg/L	0.0030	1.359 mg/L	0.0030	0.22%
Ni 231.604†	8720.3	0.1618 mg/L	0.00094	0.1618 mg/L	0.00094	0.58%
P 214.914†	11501.4	6.069 mg/L	0.0405	6.069 mg/L	0.0405	0.67%
Pb 220.353†	92809.5	5.410 mg/L	0.0014	5.410 mg/L	0.0014	0.03%
Sb 206.836†	65.5	-0.0409 mg/L	0.00477	-0.0409 mg/L	0.00477	11.66%
Se 196.026†	-58.2	-0.0180 mg/L	0.00061	-0.0180 mg/L	0.00061	3.41%
Sn 189.927†	428.0	0.0887 mg/L	0.00073	0.0887 mg/L	0.00073	0.82%
Sr 407.771†	307405.7	0.2605 mg/L	0.00013	0.2605 mg/L	0.00013	0.05%
Ti 337.279†	4155601.9	4.262 mg/L	0.0360	4.262 mg/L	0.0360	0.84%
Tl 190.801†	5.7	-0.0795 mg/L	0.00134	-0.0795 mg/L	0.00134	1.69%
V 292.402†	76486.8	0.2922 mg/L	0.00039	0.2922 mg/L	0.00039	0.13%
Zn 213.857†	439111.3	2.688 mg/L	0.0001	2.688 mg/L	0.0001	0.00%

Sequence No.: 210
Sample ID: 1306385-05
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 157
Date Collected: 6/26/2013 5:51:35 AM
Data Type: Reprocessed on 6/26/2013 10:58:25 AM

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306385-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3533061.3	3533061.3	1.04 mg/L		05:53:29
1	Ag 328.068†	8058.3	6975.0	0.0373 mg/L	0.0373 mg/L	05:53:32
1	Al 237.313†	1575431.8	1508087.7	138.3 mg/L	138.3 mg/L	05:53:29
1	As 188.979†	133.4	126.6	0.0795 mg/L	0.0795 mg/L	05:53:42
1	B 249.677†	-10.9	4.8	0.0045 mg/L	0.0045 mg/L	05:53:19
1	B 182.528†	15.1	21.4	0.0215 mg/L	0.0215 mg/L	05:53:42
1	Ba 233.527†	37548.7	36022.2	0.2737 mg/L	0.2737 mg/L	05:53:32
1	Be 313.107†	15555.0	16319.0	0.0047 mg/L	0.0047 mg/L	05:53:32
1	Ca 315.887†	1061527.6	1016608.0	9.110 mg/L	9.110 mg/L	05:53:29
1	Cd 228.802†	259.3	100.7	0.0021 mg/L	0.0021 mg/L	05:53:42
1	Co 228.616†	2703.7	2765.4	0.0308 mg/L	0.0308 mg/L	05:53:42
1	Cr 267.716†	18271.3	16774.9	0.1281 mg/L	0.1281 mg/L	05:53:32
1	Cu 324.752†	73265.4	66158.9	0.2902 mg/L	0.2902 mg/L	05:53:32
1	Fe 234.349†	262101.7	250835.0	124.2 mg/L	124.2 mg/L	05:53:17
1	K 766.490†	11740.7	10490.9	4.623 mg/L	4.623 mg/L	05:53:19
1	Li 670.784†	4106.1	4202.2	0.1006 mg/L	0.1006 mg/L	05:53:19
1	Mg 279.077†	271557.9	259595.1	16.86 mg/L	16.86 mg/L	05:53:29
1	Mn 257.610†	1734505.5	1643880.9	1.740 mg/L	1.740 mg/L	05:53:29
1	Mn 294.920†	876157.4	839129.9	1.790 mg/L	1.790 mg/L	05:53:29
1	Mo 202.031†	231.9	232.4	-0.0087 mg/L	-0.0087 mg/L	05:53:32
1	Na 589.592†	11299.2	6586.9	0.9697 mg/L	0.9697 mg/L	05:53:19
1	Ni 231.604†	5339.9	4933.2	0.0913 mg/L	0.0913 mg/L	05:53:32
1	P 214.914†	10732.7	10317.3	5.456 mg/L	5.456 mg/L	05:53:32
1	Pb 220.353†	12952.6	12212.7	0.6816 mg/L	0.6816 mg/L	05:53:32
1	Sb 206.836†	97.2	48.2	-0.0297 mg/L	-0.0297 mg/L	05:53:42
1	Se 196.026†	-20.0	-36.0	-0.0082 mg/L	-0.0082 mg/L	05:53:42
1	Sn 189.927†	43.2	3.9	0.0077 mg/L	0.0077 mg/L	05:53:42

1	Sr 407.771†	72058.2	68714.6	0.0585 mg/L	0.0585 mg/L	05:53:17
1	Ti 337.279†	5332384.1	5104430.4	5.235 mg/L	5.235 mg/L	05:53:29
1	Tl 190.801†	-5.4	2.0	-0.0567 mg/L	-0.0567 mg/L	05:53:42
1	V 292.402†	90710.9	87712.9	0.3350 mg/L	0.3350 mg/L	05:53:32
1	Zn 213.857†	121331.5	115245.8	0.7018 mg/L	0.7018 mg/L	05:53:32
2	Y 371.029	3552416.5	3552416.5	1.05 mg/L		05:53:45
2	Ag 328.068†	8115.7	6987.7	0.0373 mg/L	0.0373 mg/L	05:53:48
2	Al 237.313†	1583594.3	1507642.1	138.2 mg/L	138.2 mg/L	05:53:45
2	As 188.979†	135.4	127.9	0.0803 mg/L	0.0803 mg/L	05:53:58
2	B 249.677†	-49.8	-32.2	-0.0106 mg/L	-0.0106 mg/L	05:53:24
2	B 182.528†	26.0	31.7	0.0299 mg/L	0.0299 mg/L	05:53:58
2	Ba 233.527†	37751.3	36019.2	0.2737 mg/L	0.2737 mg/L	05:53:48
2	Be 313.107†	15615.1	16295.1	0.0047 mg/L	0.0047 mg/L	05:53:48
2	Ca 315.887†	1068405.5	1017619.3	9.119 mg/L	9.119 mg/L	05:53:45
2	Cd 228.802†	254.7	95.0	0.0019 mg/L	0.0019 mg/L	05:53:58
2	Co 228.616†	2718.6	2765.5	0.0308 mg/L	0.0308 mg/L	05:53:58
2	Cr 267.716†	18430.6	16831.3	0.1285 mg/L	0.1285 mg/L	05:53:48
2	Cu 324.752†	73768.9	66256.1	0.2906 mg/L	0.2906 mg/L	05:53:48
2	Fe 234.349†	261149.3	248561.8	123.1 mg/L	123.1 mg/L	05:53:22
2	K 766.490†	11734.6	10423.9	4.595 mg/L	4.595 mg/L	05:53:24
2	Li 670.784†	3963.0	4044.5	0.0969 mg/L	0.0969 mg/L	05:53:24
2	Mg 279.077†	273076.3	259624.4	16.86 mg/L	16.86 mg/L	05:53:45
2	Mn 257.610†	1742954.4	1642878.3	1.739 mg/L	1.739 mg/L	05:53:45
2	Mn 294.920†	880963.5	839135.9	1.790 mg/L	1.790 mg/L	05:53:45
2	Mo 202.031†	118.6	123.4	-0.0126 mg/L	-0.0126 mg/L	05:53:48
2	Na 589.592†	11267.9	6498.3	0.9578 mg/L	0.9578 mg/L	05:53:24
2	Ni 231.604†	5452.1	5012.1	0.0927 mg/L	0.0927 mg/L	05:53:48
2	P 214.914†	10776.3	10302.9	5.449 mg/L	5.449 mg/L	05:53:48
2	Pb 220.353†	13074.3	12260.9	0.6845 mg/L	0.6845 mg/L	05:53:48
2	Sb 206.836†	82.0	33.3	-0.0354 mg/L	-0.0354 mg/L	05:53:58
2	Se 196.026†	-23.9	-39.6	-0.0102 mg/L	-0.0102 mg/L	05:53:58
2	Sn 189.927†	50.2	10.3	0.0085 mg/L	0.0085 mg/L	05:53:58
2	Sr 407.771†	71860.1	68150.3	0.0580 mg/L	0.0580 mg/L	05:53:22
2	Ti 337.279†	5357024.2	5100078.4	5.231 mg/L	5.231 mg/L	05:53:45
2	Tl 190.801†	-12.7	-5.0	-0.0615 mg/L	-0.0615 mg/L	05:53:58
2	V 292.402†	91698.5	88179.8	0.3367 mg/L	0.3367 mg/L	05:53:48
2	Zn 213.857†	122310.8	115545.2	0.7037 mg/L	0.7037 mg/L	05:53:48

Mean Data: 1306385-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3542738.9	1.05 mg/L		0.004			0.39%
Ag 328.068†	6981.4	0.0373 mg/L		0.00002	0.0373 mg/L	0.00002	0.06%
Al 237.313†	1507864.9	138.2 mg/L		0.03	138.2 mg/L	0.03	0.02%
As 188.979†	127.2	0.0799 mg/L		0.00054	0.0799 mg/L	0.00054	0.67%
B 249.677†	-13.7	-0.0031 mg/L		0.01068	-0.0031 mg/L	0.01068	348.14%
B 182.528†	26.6	0.0257 mg/L		0.00598	0.0257 mg/L	0.00598	23.24%
Ba 233.527†	36020.7	0.2737 mg/L		0.00002	0.2737 mg/L	0.00002	0.01%
Be 313.107†	16307.0	0.0047 mg/L		0.00001	0.0047 mg/L	0.00001	0.11%
Ca 315.887†	1017113.7	9.114 mg/L		0.0064	9.114 mg/L	0.0064	0.07%
Cd 228.802†	97.8	0.0020 mg/L		0.00009	0.0020 mg/L	0.00009	4.67%
Co 228.616†	2765.4	0.0308 mg/L		0.00001	0.0308 mg/L	0.00001	0.02%
Cr 267.716†	16803.1	0.1283 mg/L		0.00030	0.1283 mg/L	0.00030	0.23%
Cu 324.752†	66207.5	0.2904 mg/L		0.00029	0.2904 mg/L	0.00029	0.10%
Fe 234.349†	249698.4	123.6 mg/L		0.80	123.6 mg/L	0.80	0.64%
K 766.490†	10457.4	4.609 mg/L		0.0202	4.609 mg/L	0.0202	0.44%
Li 670.784†	4123.4	0.0987 mg/L		0.00262	0.0987 mg/L	0.00262	2.65%
Mg 279.077†	259609.8	16.86 mg/L		0.001	16.86 mg/L	0.001	0.01%
Mn 257.610†	1643379.6	1.740 mg/L		0.0006	1.740 mg/L	0.0006	0.03%
Mn 294.920†	839132.9	1.790 mg/L		0.0000	1.790 mg/L	0.0000	0.00%
Mo 202.031†	177.9	-0.0107 mg/L		0.00278	-0.0107 mg/L	0.00278	26.02%
Na 589.592†	6542.6	0.9638 mg/L		0.00840	0.9638 mg/L	0.00840	0.87%
Ni 231.604†	4972.7	0.0920 mg/L		0.00103	0.0920 mg/L	0.00103	1.12%
P 214.914†	10310.1	5.452 mg/L		0.0053	5.452 mg/L	0.0053	0.10%
Pb 220.353†	12236.8	0.6830 mg/L		0.00199	0.6830 mg/L	0.00199	0.29%
Sb 206.836†	40.7	-0.0325 mg/L		0.00402	-0.0325 mg/L	0.00402	12.36%
Se 196.026†	-37.8	-0.0092 mg/L		0.00146	-0.0092 mg/L	0.00146	15.84%
Sn 189.927†	7.1	0.0081 mg/L		0.00056	0.0081 mg/L	0.00056	6.93%
Sr 407.771†	68432.5	0.0582 mg/L		0.00034	0.0582 mg/L	0.00034	0.58%
Ti 337.279†	5102254.4	5.233 mg/L		0.0032	5.233 mg/L	0.0032	0.06%
Tl 190.801†	-1.5	-0.0591 mg/L		0.00338	-0.0591 mg/L	0.00338	5.72%
V 292.402†	87946.4	0.3359 mg/L		0.00126	0.3359 mg/L	0.00126	0.37%

Sequence No.: 211 Autosampler Location: 158
 Sample ID: 1306385-06 Date Collected: 6/26/2013 5:55:35 AM
 Analyst: Data Type: Reprocessed on 6/26/2013 10:58:25 AM
 Logged In Analyst (Original) : ICP3 Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Replicate Data: 1306385-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3827172.5	3827172.5	1.13 mg/L		05:57:31
1	Ag 328.068†	322.9	-451.5	0.0013 mg/L	0.0013 mg/L	05:57:34
1	Al 237.313†	1022789.9	903984.9	82.88 mg/L	82.88 mg/L	05:57:31
1	As 188.979†	105.5	92.2	0.0588 mg/L	0.0588 mg/L	05:57:44
1	B 249.677†	-57.0	-35.1	-0.0118 mg/L	-0.0118 mg/L	05:57:21
1	B 182.528†	20.1	24.7	0.0242 mg/L	0.0242 mg/L	05:57:44
1	Ba 233.527†	29794.9	26410.4	0.2008 mg/L	0.2008 mg/L	05:57:34
1	Be 313.107†	15988.2	15557.7	0.0046 mg/L	0.0046 mg/L	05:57:34
1	Ca 315.887†	964495.8	852814.6	7.642 mg/L	7.642 mg/L	05:57:31
1	Cd 228.802†	225.9	52.1	0.0010 mg/L	0.0010 mg/L	05:57:44
1	Co 228.616†	3259.3	3057.4	0.0366 mg/L	0.0366 mg/L	05:57:44
1	Cr 267.716†	12430.0	10270.6	0.0786 mg/L	0.0786 mg/L	05:57:34
1	Cu 324.752†	38160.3	29756.6	0.1340 mg/L	0.1340 mg/L	05:57:34
1	Fe 234.349†	255191.0	225453.6	111.6 mg/L	111.6 mg/L	05:57:19
1	K 766.490†	23607.6	20111.4	8.732 mg/L	8.732 mg/L	05:57:21
1	Li 670.784†	3814.5	3642.5	0.0874 mg/L	0.0874 mg/L	05:57:21
1	Mg 279.077†	325878.2	287613.6	18.68 mg/L	18.68 mg/L	05:57:31
1	Mn 257.610†	1745824.3	1526317.5	1.617 mg/L	1.617 mg/L	05:57:31
1	Mn 294.920†	879886.3	777987.9	1.659 mg/L	1.659 mg/L	05:57:31
1	Mo 202.031†	203.6	190.3	-0.0075 mg/L	-0.0075 mg/L	05:57:34
1	Na 589.592†	10840.3	5350.6	0.8041 mg/L	0.8041 mg/L	05:57:21
1	Ni 231.604†	4345.1	3661.6	0.0676 mg/L	0.0676 mg/L	05:57:34
1	P 214.914†	7439.1	6618.2	3.518 mg/L	3.518 mg/L	05:57:34
1	Pb 220.353†	2689.1	2192.6	0.1096 mg/L	0.1096 mg/L	05:57:44
1	Sb 206.836†	78.8	24.8	-0.0335 mg/L	-0.0335 mg/L	05:57:44
1	Se 196.026†	-13.4	-28.7	-0.0049 mg/L	-0.0049 mg/L	05:57:44
1	Sn 189.927†	-33.6	-67.1	-0.0019 mg/L	-0.0019 mg/L	05:57:44
1	Sr 407.771†	54374.9	47792.6	0.0408 mg/L	0.0408 mg/L	05:57:19
1	Ti 337.279†	5162019.3	4561752.9	4.679 mg/L	4.679 mg/L	05:57:31
1	Tl 190.801†	-4.7	2.9	-0.0492 mg/L	-0.0492 mg/L	05:57:44
1	V 292.402†	43137.8	39012.5	0.1456 mg/L	0.1456 mg/L	05:57:34
1	Zn 213.857†	73060.4	63676.7	0.3860 mg/L	0.3860 mg/L	05:57:34
2	Y 371.029	3832390.1	3832390.1	1.13 mg/L		05:57:47
2	Ag 328.068†	139.1	-614.1	0.0005 mg/L	0.0005 mg/L	05:57:50
2	Al 237.313†	1025081.0	904775.9	82.95 mg/L	82.95 mg/L	05:57:47
2	As 188.979†	102.2	89.1	0.0569 mg/L	0.0569 mg/L	05:58:00
2	B 249.677†	-36.8	-17.3	-0.0045 mg/L	-0.0045 mg/L	05:57:26
2	B 182.528†	19.4	24.1	0.0237 mg/L	0.0237 mg/L	05:58:00
2	Ba 233.527†	29994.3	26550.6	0.2019 mg/L	0.2019 mg/L	05:57:50
2	Be 313.107†	16200.0	15725.4	0.0046 mg/L	0.0046 mg/L	05:57:50
2	Ca 315.887†	964788.1	851912.5	7.634 mg/L	7.634 mg/L	05:57:47
2	Cd 228.802†	214.9	42.1	0.0007 mg/L	0.0007 mg/L	05:58:00
2	Co 228.616†	3219.1	3018.0	0.0360 mg/L	0.0360 mg/L	05:58:00
2	Cr 267.716†	12472.2	10292.9	0.0788 mg/L	0.0788 mg/L	05:57:50
2	Cu 324.752†	38546.5	30051.4	0.1353 mg/L	0.1353 mg/L	05:57:50
2	Fe 234.349†	253957.1	224058.0	110.9 mg/L	110.9 mg/L	05:57:24
2	K 766.490†	23564.4	20044.8	8.703 mg/L	8.703 mg/L	05:57:26
2	Li 670.784†	3928.3	3738.4	0.0897 mg/L	0.0897 mg/L	05:57:26
2	Mg 279.077†	326049.2	287372.5	18.66 mg/L	18.66 mg/L	05:57:47
2	Mn 257.610†	1749195.5	1527192.0	1.618 mg/L	1.618 mg/L	05:57:47
2	Mn 294.920†	881326.0	778199.8	1.660 mg/L	1.660 mg/L	05:57:47
2	Mo 202.031†	247.9	229.1	-0.0060 mg/L	-0.0060 mg/L	05:57:50
2	Na 589.592†	10663.7	5181.6	0.7814 mg/L	0.7814 mg/L	05:57:26
2	Ni 231.604†	4442.6	3742.4	0.0691 mg/L	0.0691 mg/L	05:57:50
2	P 214.914†	7484.4	6649.2	3.534 mg/L	3.534 mg/L	05:57:50
2	Pb 220.353†	2694.8	2194.4	0.1097 mg/L	0.1097 mg/L	05:58:00
2	Sb 206.836†	85.9	31.0	-0.0307 mg/L	-0.0307 mg/L	05:58:00
2	Se 196.026†	-28.1	-41.6	-0.0121 mg/L	-0.0121 mg/L	05:58:00
2	Sn 189.927†	-36.1	-69.3	-0.0022 mg/L	-0.0022 mg/L	05:58:00

2	Sr 407.771†	54223.5	47593.7	0.0406 mg/L	0.0406 mg/L	05:57:24
2	Ti 337.279†	5169981.8	4562569.0	4.680 mg/L	4.680 mg/L	05:57:47
2	Tl 190.801†	1.9	8.8	-0.0445 mg/L	-0.0445 mg/L	05:58:00
2	V 292.402†	43283.0	39088.7	0.1460 mg/L	0.1460 mg/L	05:57:50
2	Zn 213.857†	73408.9	63896.4	0.3874 mg/L	0.3874 mg/L	05:57:50

Mean Data: 1306385-06

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3829781.3	1.13 mg/L	0.001			0.10%
Ag 328.068†	-532.8	0.0009 mg/L	0.00056	0.0009 mg/L	0.00056	62.20%
Al 237.313†	904380.4	82.92 mg/L	0.051	82.92 mg/L	0.051	0.06%
As 188.979†	90.7	0.0579 mg/L	0.00132	0.0579 mg/L	0.00132	2.28%
B 249.677†	-26.2	-0.0082 mg/L	0.00515	-0.0082 mg/L	0.00515	63.14%
B 182.528†	24.4	0.0239 mg/L	0.00037	0.0239 mg/L	0.00037	1.56%
Ba 233.527†	26480.5	0.2013 mg/L	0.00075	0.2013 mg/L	0.00075	0.37%
Be 313.107†	15641.6	0.0046 mg/L	0.00004	0.0046 mg/L	0.00004	0.90%
Ca 315.887†	852363.5	7.638 mg/L	0.0057	7.638 mg/L	0.0057	0.07%
Cd 228.802†	47.1	0.0009 mg/L	0.00018	0.0009 mg/L	0.00018	20.78%
Co 228.616†	3037.7	0.0363 mg/L	0.00044	0.0363 mg/L	0.00044	1.22%
Cr 267.716†	10281.8	0.0787 mg/L	0.00012	0.0787 mg/L	0.00012	0.15%
Cu 324.752†	29904.0	0.1346 mg/L	0.00089	0.1346 mg/L	0.00089	0.66%
Fe 234.349†	224755.8	111.3 mg/L	0.49	111.3 mg/L	0.49	0.44%
K 766.490†	20078.1	8.717 mg/L	0.0201	8.717 mg/L	0.0201	0.23%
Li 670.784†	3690.5	0.0886 mg/L	0.00159	0.0886 mg/L	0.00159	1.80%
Mg 279.077†	287493.1	18.67 mg/L	0.011	18.67 mg/L	0.011	0.06%
Mn 257.610†	1526754.8	1.617 mg/L	0.0008	1.617 mg/L	0.0008	0.05%
Mn 294.920†	778093.8	1.660 mg/L	0.0003	1.660 mg/L	0.0003	0.02%
Mo 202.031†	209.7	-0.0068 mg/L	0.00110	-0.0068 mg/L	0.00110	16.26%
Na 589.592†	5266.1	0.7927 mg/L	0.01600	0.7927 mg/L	0.01600	2.02%
Ni 231.604†	3702.0	0.0684 mg/L	0.00106	0.0684 mg/L	0.00106	1.56%
P 214.914†	6633.7	3.526 mg/L	0.0115	3.526 mg/L	0.0115	0.33%
Pb 220.353†	2193.5	0.1096 mg/L	0.00007	0.1096 mg/L	0.00007	0.06%
Sb 206.836†	27.9	-0.0321 mg/L	0.00201	-0.0321 mg/L	0.00201	6.26%
Se 196.026†	-35.2	-0.0085 mg/L	0.00509	-0.0085 mg/L	0.00509	60.19%
Sn 189.927†	-68.2	-0.0021 mg/L	0.00019	-0.0021 mg/L	0.00019	9.22%
Sr 407.771†	47693.1	0.0407 mg/L	0.00012	0.0407 mg/L	0.00012	0.29%
Ti 337.279†	4562160.9	4.679 mg/L	0.0006	4.679 mg/L	0.0006	0.01%
Tl 190.801†	5.8	-0.0469 mg/L	0.00333	-0.0469 mg/L	0.00333	7.11%
V 292.402†	39050.6	0.1458 mg/L	0.00022	0.1458 mg/L	0.00022	0.15%
Zn 213.857†	63786.6	0.3867 mg/L	0.00097	0.3867 mg/L	0.00097	0.25%

Sequence No.: 212

Sample ID: 1306385-07

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 6/26/2013 5:59:37 AM

Data Type: Reprocessed on 6/26/2013 10:58:26 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306385-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3617619.4	3617619.4	1.07 mg/L		06:01:28
1	Ag 328.068†	123806.7	114977.7	0.5569 mg/L	0.5569 mg/L	06:01:30
1	Al 237.313†	997951.4	933111.3	85.55 mg/L	85.55 mg/L	06:01:28
1	As 188.979†	506.4	472.3	0.2908 mg/L	0.2908 mg/L	06:01:41
1	B 249.677†	-37.4	-19.8	-0.0055 mg/L	-0.0055 mg/L	06:01:18
1	B 182.528†	39.4	43.7	0.0398 mg/L	0.0398 mg/L	06:01:41
1	Ba 233.527†	101002.3	94488.4	0.7169 mg/L	0.7169 mg/L	06:01:30
1	Be 313.107†	17137.6	17450.2	0.0049 mg/L	0.0049 mg/L	06:01:30
1	Ca 315.887†	3630266.5	3393705.1	30.39 mg/L	30.39 mg/L	06:01:28
1	Cd 228.802†	391.3	218.3	0.0045 mg/L	0.0045 mg/L	06:01:41
1	Co 228.616†	5375.9	5202.4	0.0678 mg/L	0.0678 mg/L	06:01:41
1	Cr 267.716†	36019.8	32954.7	0.2512 mg/L	0.2512 mg/L	06:01:30
1	Cu 324.752†	359303.4	331862.2	1.426 mg/L	1.426 mg/L	06:01:30
1	Fe 234.349†	359750.7	336238.5	166.4 mg/L	166.4 mg/L	06:01:16
1	K 766.490†	28958.2	26320.4	11.38 mg/L	11.38 mg/L	06:01:18
1	Li 670.784†	5774.6	5669.8	0.1350 mg/L	0.1350 mg/L	06:01:18
1	Mg 279.077†	613892.2	573479.4	37.24 mg/L	37.24 mg/L	06:01:28
1	Mn 257.610†	2956028.2	2746763.8	2.917 mg/L	2.917 mg/L	06:01:28

1	Mn 294.920†	1491112.7	1394292.1	2.974 mg/L	2.974 mg/L	06:01:28
1	Mo 202.031†	261.1	254.4	-0.0206 mg/L	-0.0206 mg/L	06:01:41
1	Na 589.592†	16776.0	11453.1	1.622 mg/L	1.622 mg/L	06:01:18
1	Ni 231.604†	12967.9	11943.2	0.2217 mg/L	0.2217 mg/L	06:01:41
1	P 214.914†	13203.3	12386.4	6.530 mg/L	6.530 mg/L	06:01:41
1	Pb 220.353†	61865.2	57638.5	3.350 mg/L	3.350 mg/L	06:01:30
1	Sb 206.836†	113.8	61.6	-0.0432 mg/L	-0.0432 mg/L	06:01:41
1	Se 196.026†	-51.0	-64.6	-0.0215 mg/L	-0.0215 mg/L	06:01:41
1	Sn 189.927†	680.3	598.3	0.0938 mg/L	0.0938 mg/L	06:01:41
1	Sr 407.771†	181306.8	169210.7	0.1435 mg/L	0.1435 mg/L	06:01:16
1	Ti 337.279†	6331803.4	5919245.7	6.070 mg/L	6.070 mg/L	06:01:28
1	Tl 190.801†	-3.8	3.6	-0.0780 mg/L	-0.0780 mg/L	06:01:41
1	V 292.402†	126125.6	118783.7	0.4549 mg/L	0.4549 mg/L	06:01:30
1	Zn 213.857†	230445.5	214513.9	1.307 mg/L	1.307 mg/L	06:01:30
2	Y 371.029	3580434.1	3580434.1	1.06 mg/L		06:01:44
2	Ag 328.068†	123581.1	115966.4	0.5616 mg/L	0.5616 mg/L	06:01:47
2	Al 237.313†	989509.2	934826.0	85.71 mg/L	85.71 mg/L	06:01:44
2	As 188.979†	504.6	475.5	0.2927 mg/L	0.2927 mg/L	06:01:57
2	B 249.677†	-32.7	-15.6	-0.0038 mg/L	-0.0038 mg/L	06:01:22
2	B 182.528†	34.7	39.7	0.0365 mg/L	0.0365 mg/L	06:01:57
2	Ba 233.527†	100882.5	95355.7	0.7235 mg/L	0.7235 mg/L	06:01:47
2	Be 313.107†	17323.1	17791.7	0.0050 mg/L	0.0050 mg/L	06:01:47
2	Ca 315.887†	3597343.8	3397853.2	30.42 mg/L	30.42 mg/L	06:01:44
2	Cd 228.802†	391.1	221.9	0.0046 mg/L	0.0046 mg/L	06:01:57
2	Co 228.616†	5427.5	5303.4	0.0694 mg/L	0.0694 mg/L	06:01:57
2	Cr 267.716†	36006.6	33291.9	0.2538 mg/L	0.2538 mg/L	06:01:47
2	Cu 324.752†	358834.8	334907.4	1.439 mg/L	1.439 mg/L	06:01:47
2	Fe 234.349†	355398.9	335621.0	166.1 mg/L	166.1 mg/L	06:01:20
2	K 766.490†	29026.0	26665.5	11.53 mg/L	11.53 mg/L	06:01:22
2	Li 670.784†	5656.0	5613.9	0.1337 mg/L	0.1337 mg/L	06:01:22
2	Mg 279.077†	608190.5	574054.1	37.28 mg/L	37.28 mg/L	06:01:44
2	Mn 257.610†	2932004.3	2752770.7	2.924 mg/L	2.924 mg/L	06:01:44
2	Mn 294.920†	1478421.9	1396781.6	2.979 mg/L	2.979 mg/L	06:01:44
2	Mo 202.031†	284.8	279.3	-0.0197 mg/L	-0.0197 mg/L	06:01:57
2	Na 589.592†	16795.7	11634.4	1.646 mg/L	1.646 mg/L	06:01:22
2	Ni 231.604†	12992.7	12092.4	0.2245 mg/L	0.2245 mg/L	06:01:57
2	P 214.914†	13245.6	12554.5	6.618 mg/L	6.618 mg/L	06:01:57
2	Pb 220.353†	61634.9	58021.5	3.373 mg/L	3.373 mg/L	06:01:47
2	Sb 206.836†	99.0	48.7	-0.0484 mg/L	-0.0484 mg/L	06:01:57
2	Se 196.026†	-39.9	-54.6	-0.0160 mg/L	-0.0160 mg/L	06:01:57
2	Sn 189.927†	665.8	591.3	0.0930 mg/L	0.0930 mg/L	06:01:57
2	Sr 407.771†	179242.7	169021.4	0.1434 mg/L	0.1434 mg/L	06:01:20
2	Ti 337.279†	6276176.8	5928177.0	6.079 mg/L	6.079 mg/L	06:01:44
2	Tl 190.801†	-1.7	5.5	-0.0764 mg/L	-0.0764 mg/L	06:01:57
2	V 292.402†	126029.6	119917.3	0.4594 mg/L	0.4594 mg/L	06:01:47
2	Zn 213.857†	229978.6	216309.8	1.318 mg/L	1.318 mg/L	06:01:47

Mean Data: 1306385-07

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3599026.7	1.06 mg/L		0.008				0.73%
Ag 328.068†	115472.1	0.5592 mg/L		0.00335	0.5592 mg/L		0.00335	0.60%
Al 237.313†	933968.6	85.63 mg/L		0.111	85.63 mg/L		0.111	0.13%
As 188.979†	473.9	0.2918 mg/L		0.00138	0.2918 mg/L		0.00138	0.47%
B 249.677†	-17.7	-0.0047 mg/L		0.00120	-0.0047 mg/L		0.00120	25.52%
B 182.528†	41.7	0.0382 mg/L		0.00235	0.0382 mg/L		0.00235	6.16%
Ba 233.527†	94922.1	0.7202 mg/L		0.00465	0.7202 mg/L		0.00465	0.65%
Be 313.107†	17621.0	0.0050 mg/L		0.00008	0.0050 mg/L		0.00008	1.68%
Ca 315.887†	3395779.2	30.40 mg/L		0.026	30.40 mg/L		0.026	0.09%
Cd 228.802†	220.1	0.0046 mg/L		0.00007	0.0046 mg/L		0.00007	1.58%
Co 228.616†	5252.9	0.0686 mg/L		0.00112	0.0686 mg/L		0.00112	1.64%
Cr 267.716†	33123.3	0.2525 mg/L		0.00181	0.2525 mg/L		0.00181	0.72%
Cu 324.752†	333384.8	1.433 mg/L		0.0092	1.433 mg/L		0.0092	0.64%
Fe 234.349†	335929.7	166.3 mg/L		0.22	166.3 mg/L		0.22	0.13%
K 766.490†	26493.0	11.46 mg/L		0.104	11.46 mg/L		0.104	0.91%
Li 670.784†	5641.8	0.1344 mg/L		0.00093	0.1344 mg/L		0.00093	0.69%
Mg 279.077†	573766.8	37.26 mg/L		0.026	37.26 mg/L		0.026	0.07%
Mn 257.610†	2749767.3	2.920 mg/L		0.0046	2.920 mg/L		0.0046	0.16%
Mn 294.920†	1395536.8	2.977 mg/L		0.0038	2.977 mg/L		0.0038	0.13%
Mo 202.031†	266.9	-0.0202 mg/L		0.00064	-0.0202 mg/L		0.00064	3.19%
Na 589.592†	11543.8	1.634 mg/L		0.0172	1.634 mg/L		0.0172	1.05%
Ni 231.604†	12017.8	0.2231 mg/L		0.00197	0.2231 mg/L		0.00197	0.88%

2	Mn 294.920†	1102838.2	1039011.2	2.216 mg/L	2.216 mg/L	06:05:40
2	Mo 202.031†	135.9	138.3	-0.0099 mg/L	-0.0099 mg/L	06:05:42
2	Na 589.592†	11203.9	6322.5	0.9343 mg/L	0.9343 mg/L	06:05:20
2	Ni 231.604†	7562.5	6943.2	0.1287 mg/L	0.1287 mg/L	06:05:42
2	P 214.914†	9597.3	9082.3	4.807 mg/L	4.807 mg/L	06:05:42
2	Pb 220.353†	10888.2	10068.6	0.5685 mg/L	0.5685 mg/L	06:05:42
2	Sb 206.836†	77.8	28.4	-0.0291 mg/L	-0.0291 mg/L	06:05:53
2	Se 196.026†	-11.7	-27.9	-0.0048 mg/L	-0.0048 mg/L	06:05:53
2	Sn 189.927†	24.6	-14.3	0.0072 mg/L	0.0072 mg/L	06:05:53
2	Sr 407.771†	70474.8	66109.5	0.0563 mg/L	0.0563 mg/L	06:05:18
2	Ti 337.279†	4006835.7	3773909.7	3.871 mg/L	3.871 mg/L	06:05:40
2	Tl 190.801†	-10.5	-2.8	-0.0515 mg/L	-0.0515 mg/L	06:05:53
2	V 292.402†	61030.5	58364.8	0.2228 mg/L	0.2228 mg/L	06:05:42
2	Zn 213.857†	120398.2	112490.8	0.6854 mg/L	0.6854 mg/L	06:05:42

Mean Data: 1306385-08

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3565259.5	1.05 mg/L	0.011			1.02%
Ag 328.068†	12777.9	0.0647 mg/L	0.00115	0.0647 mg/L	0.00115	1.78%
Al 237.313†	966000.9	88.56 mg/L	0.042	88.56 mg/L	0.042	0.05%
As 188.979†	233.8	0.1453 mg/L	0.00367	0.1453 mg/L	0.00367	2.53%
B 249.677†	-18.7	-0.0051 mg/L	0.00121	-0.0051 mg/L	0.00121	23.69%
B 182.528†	26.8	0.0259 mg/L	0.00074	0.0259 mg/L	0.00074	2.84%
Ba 233.527†	51248.3	0.3891 mg/L	0.00674	0.3891 mg/L	0.00674	1.73%
Be 313.107†	14071.5	0.0042 mg/L	0.00007	0.0042 mg/L	0.00007	1.76%
Ca 315.887†	1336221.1	11.97 mg/L	0.003	11.97 mg/L	0.003	0.03%
Cd 228.802†	107.4	0.0026 mg/L	0.00011	0.0026 mg/L	0.00011	4.19%
Co 228.616†	3308.3	0.0424 mg/L	0.00030	0.0424 mg/L	0.00030	0.71%
Cr 267.716†	12388.9	0.0948 mg/L	0.00169	0.0948 mg/L	0.00169	1.78%
Cu 324.752†	91396.1	0.3963 mg/L	0.00640	0.3963 mg/L	0.00640	1.62%
Fe 234.349†	212425.9	105.2 mg/L	1.00	105.2 mg/L	1.00	0.95%
K 766.490†	15897.6	6.932 mg/L	0.0582	6.932 mg/L	0.0582	0.84%
Li 670.784†	5074.1	0.1210 mg/L	0.00113	0.1210 mg/L	0.00113	0.93%
Mg 279.077†	319105.9	20.72 mg/L	0.000	20.72 mg/L	0.000	0.00%
Mn 257.610†	2055528.5	2.187 mg/L	0.0006	2.187 mg/L	0.0006	0.03%
Mn 294.920†	1038197.1	2.214 mg/L	0.0025	2.214 mg/L	0.0025	0.11%
Mo 202.031†	164.7	-0.0090 mg/L	0.00121	-0.0090 mg/L	0.00121	13.48%
Na 589.592†	6384.1	0.9425 mg/L	0.01166	0.9425 mg/L	0.01166	1.24%
Ni 231.604†	7037.6	0.1304 mg/L	0.00248	0.1304 mg/L	0.00248	1.90%
P 214.914†	9153.8	4.845 mg/L	0.0530	4.845 mg/L	0.0530	1.09%
Pb 220.353†	10190.1	0.5757 mg/L	0.01006	0.5757 mg/L	0.01006	1.75%
Sb 206.836†	32.3	-0.0279 mg/L	0.00181	-0.0279 mg/L	0.00181	6.48%
Se 196.026†	-24.6	-0.0030 mg/L	0.00265	-0.0030 mg/L	0.00265	89.24%
Sn 189.927†	-15.1	0.0071 mg/L	0.00013	0.0071 mg/L	0.00013	1.82%
Sr 407.771†	66554.6	0.0566 mg/L	0.00053	0.0566 mg/L	0.00053	0.94%
Ti 337.279†	3775036.1	3.872 mg/L	0.0016	3.872 mg/L	0.0016	0.04%
Tl 190.801†	-3.2	-0.0521 mg/L	0.00090	-0.0521 mg/L	0.00090	1.72%
V 292.402†	58950.1	0.2251 mg/L	0.00325	0.2251 mg/L	0.00325	1.45%
Zn 213.857†	113585.6	0.6921 mg/L	0.00944	0.6921 mg/L	0.00944	1.36%

Sequence No.: 214

Sample ID: 1306385-09

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 6/26/2013 6:07:30 AM

Data Type: Reprocessed on 6/26/2013 10:58:27 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306385-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3586999.9	3586999.9	1.06 mg/L		06:09:21
1	Ag 328.068†	38883.3	35915.3	0.1769 mg/L	0.1769 mg/L	06:09:21
1	Al 237.313†	1621969.0	1529282.8	140.2 mg/L	140.2 mg/L	06:09:21
1	As 188.979†	1110.5	1045.7	0.6417 mg/L	0.6417 mg/L	06:09:32
1	B 249.677†	-32.2	-15.1	-0.0036 mg/L	-0.0036 mg/L	06:09:11
1	B 182.528†	33.1	38.1	0.0352 mg/L	0.0352 mg/L	06:09:32
1	Ba 233.527†	55541.3	52441.9	0.3982 mg/L	0.3982 mg/L	06:09:21
1	Be 313.107†	17384.0	17819.2	0.0056 mg/L	0.0056 mg/L	06:09:21
1	Ca 315.887†	2093907.8	1974470.8	17.68 mg/L	17.68 mg/L	06:09:21

1	Cd	228.802†	320.2	154.4	0.0031	mg/L	0.0031	mg/L	06:09:32
1	Co	228.616†	3953.1	3904.2	0.0521	mg/L	0.0521	mg/L	06:09:32
1	Cr	267.716†	43996.7	40761.2	0.3106	mg/L	0.3106	mg/L	06:09:21
1	Cu	324.752†	218230.1	201750.7	0.8676	mg/L	0.8676	mg/L	06:09:21
1	Fe	234.349†	324251.1	305646.2	151.3	mg/L	151.3	mg/L	06:09:09
1	K	766.490†	12288.5	10838.3	4.772	mg/L	4.772	mg/L	06:09:11
1	Li	670.784†	6518.2	6416.8	0.1526	mg/L	0.1526	mg/L	06:09:11
1	Mg	279.077†	424441.9	399798.3	25.96	mg/L	25.96	mg/L	06:09:21
1	Mn	257.610†	2728578.4	2555949.9	2.715	mg/L	2.715	mg/L	06:09:21
1	Mn	294.920†	1377562.6	1299154.4	2.771	mg/L	2.771	mg/L	06:09:21
1	Mo	202.031†	248.7	244.8	-0.0156	mg/L	-0.0156	mg/L	06:09:32
1	Na	589.592†	10556.8	5724.5	0.8542	mg/L	0.8542	mg/L	06:09:11
1	Ni	231.604†	10739.0	9945.6	0.1846	mg/L	0.1846	mg/L	06:09:32
1	P	214.914†	17439.5	16484.8	8.684	mg/L	8.684	mg/L	06:09:32
1	Pb	220.353†	29656.8	27771.8	1.591	mg/L	1.591	mg/L	06:09:32
1	Sb	206.836†	94.9	44.7	-0.0442	mg/L	-0.0442	mg/L	06:09:32
1	Se	196.026†	-29.0	-44.2	-0.0111	mg/L	-0.0111	mg/L	06:09:32
1	Sn	189.927†	88.8	46.2	0.0182	mg/L	0.0182	mg/L	06:09:32
1	Sr	407.771†	112230.9	105545.1	0.0896	mg/L	0.0896	mg/L	06:09:09
1	Ti	337.279†	3903400.6	3680709.3	3.776	mg/L	3.776	mg/L	06:09:21
1	Tl	190.801†	-5.1	2.3	-0.0700	mg/L	-0.0700	mg/L	06:09:32
1	V	292.402†	107646.3	102371.1	0.3960	mg/L	0.3960	mg/L	06:09:21
1	Zn	213.857†	121669.2	113818.1	0.6905	mg/L	0.6905	mg/L	06:09:21
2	Y	371.029	3562570.1	3562570.1	1.05	mg/L			06:09:35
2	Ag	328.068†	38620.2	35916.9	0.1770	mg/L	0.1770	mg/L	06:09:35
2	Al	237.313†	1609284.0	1527727.9	140.1	mg/L	140.1	mg/L	06:09:35
2	As	188.979†	1127.1	1068.7	0.6557	mg/L	0.6557	mg/L	06:09:46
2	B	249.677†	-36.7	-19.7	-0.0055	mg/L	-0.0055	mg/L	06:09:16
2	B	182.528†	27.0	32.6	0.0307	mg/L	0.0307	mg/L	06:09:46
2	Ba	233.527†	55078.7	52361.9	0.3976	mg/L	0.3976	mg/L	06:09:35
2	Be	313.107†	17055.2	17619.5	0.0055	mg/L	0.0055	mg/L	06:09:35
2	Ca	315.887†	2074782.7	1969854.3	17.64	mg/L	17.64	mg/L	06:09:35
2	Cd	228.802†	322.4	158.5	0.0031	mg/L	0.0031	mg/L	06:09:46
2	Co	228.616†	3973.5	3949.1	0.0528	mg/L	0.0528	mg/L	06:09:46
2	Cr	267.716†	43618.2	40686.4	0.3100	mg/L	0.3100	mg/L	06:09:35
2	Cu	324.752†	216720.4	201728.5	0.8675	mg/L	0.8675	mg/L	06:09:35
2	Fe	234.349†	324580.1	308054.4	152.5	mg/L	152.5	mg/L	06:09:14
2	K	766.490†	12252.9	10883.9	4.791	mg/L	4.791	mg/L	06:09:16
2	Li	670.784†	6695.9	6627.6	0.1575	mg/L	0.1575	mg/L	06:09:16
2	Mg	279.077†	420496.0	398796.8	25.90	mg/L	25.90	mg/L	06:09:35
2	Mn	257.610†	2707293.6	2553386.0	2.712	mg/L	2.712	mg/L	06:09:35
2	Mn	294.920†	1366337.4	1297405.1	2.767	mg/L	2.767	mg/L	06:09:35
2	Mo	202.031†	241.2	239.4	-0.0160	mg/L	-0.0160	mg/L	06:09:46
2	Na	589.592†	10681.1	5910.8	0.8791	mg/L	0.8791	mg/L	06:09:16
2	Ni	231.604†	10826.6	10098.2	0.1874	mg/L	0.1874	mg/L	06:09:46
2	P	214.914†	17567.8	16719.3	8.807	mg/L	8.807	mg/L	06:09:46
2	Pb	220.353†	29949.0	28240.9	1.618	mg/L	1.618	mg/L	06:09:46
2	Sb	206.836†	96.5	46.8	-0.0438	mg/L	-0.0438	mg/L	06:09:46
2	Se	196.026†	-31.5	-46.7	-0.0124	mg/L	-0.0124	mg/L	06:09:46
2	Sn	189.927†	60.0	19.5	0.0149	mg/L	0.0149	mg/L	06:09:46
2	Sr	407.771†	112173.7	106216.3	0.0902	mg/L	0.0902	mg/L	06:09:14
2	Ti	337.279†	3871997.7	3676136.4	3.771	mg/L	3.771	mg/L	06:09:35
2	Tl	190.801†	-10.8	-3.2	-0.0747	mg/L	-0.0747	mg/L	06:09:46
2	V	292.402†	106862.9	102323.4	0.3958	mg/L	0.3958	mg/L	06:09:35
2	Zn	213.857†	120569.4	113560.7	0.6888	mg/L	0.6888	mg/L	06:09:35

Mean Data: 1306385-09

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3574785.0	1.06 mg/L	0.005			0.48%
Ag 328.068†	35916.1	0.1769 mg/L	0.00003	0.1769 mg/L	0.00003	0.02%
Al 237.313†	1528505.3	140.1 mg/L	0.10	140.1 mg/L	0.10	0.07%
As 188.979†	1057.2	0.6487 mg/L	0.00993	0.6487 mg/L	0.00993	1.53%
B 249.677†	-17.4	-0.0046 mg/L	0.00132	-0.0046 mg/L	0.00132	28.90%
B 182.528†	35.4	0.0329 mg/L	0.00319	0.0329 mg/L	0.00319	9.69%
Ba 233.527†	52401.9	0.3979 mg/L	0.00043	0.3979 mg/L	0.00043	0.11%
Be 313.107†	17719.4	0.0056 mg/L	0.00005	0.0056 mg/L	0.00005	0.88%
Ca 315.887†	1972162.5	17.66 mg/L	0.029	17.66 mg/L	0.029	0.17%
Cd 228.802†	156.4	0.0031 mg/L	0.00006	0.0031 mg/L	0.00006	2.06%
Co 228.616†	3926.6	0.0524 mg/L	0.00051	0.0524 mg/L	0.00051	0.98%
Cr 267.716†	40723.8	0.3103 mg/L	0.00040	0.3103 mg/L	0.00040	0.13%
Cu 324.752†	201739.6	0.8676 mg/L	0.00007	0.8676 mg/L	0.00007	0.01%

2	Cd 228.802†	252.2	89.1	0.0018 mg/L	0.0018 mg/L	06:13:42
2	Co 228.616†	3425.8	3391.0	0.0446 mg/L	0.0446 mg/L	06:13:42
2	Cr 267.716†	21157.8	19132.8	0.1461 mg/L	0.1461 mg/L	06:13:31
2	Cu 324.752†	99852.4	89693.8	0.3885 mg/L	0.3885 mg/L	06:13:31
2	Fe 234.349†	260701.3	244510.5	121.1 mg/L	121.1 mg/L	06:13:07
2	K 766.490†	11396.3	9943.4	4.390 mg/L	4.390 mg/L	06:13:09
2	Li 670.784†	4416.7	4414.9	0.1056 mg/L	0.1056 mg/L	06:13:09
2	Mg 279.077†	398141.0	373124.1	24.23 mg/L	24.23 mg/L	06:13:29
2	Mn 257.610†	2504547.2	2332932.6	2.482 mg/L	2.482 mg/L	06:13:29
2	Mn 294.920†	1257557.3	1180089.5	2.517 mg/L	2.517 mg/L	06:13:29
2	Mo 202.031†	194.3	192.6	-0.0103 mg/L	-0.0103 mg/L	06:13:31
2	Na 589.592†	10416.5	5543.0	0.8299 mg/L	0.8299 mg/L	06:13:09
2	Ni 231.604†	7650.6	6998.2	0.1297 mg/L	0.1297 mg/L	06:13:31
2	P 214.914†	14136.7	13304.7	7.021 mg/L	7.021 mg/L	06:13:31
2	Pb 220.353†	11527.5	10628.4	0.5937 mg/L	0.5937 mg/L	06:13:31
2	Sb 206.836†	91.5	41.0	-0.0315 mg/L	-0.0315 mg/L	06:13:42
2	Se 196.026†	-11.7	-27.9	-0.0038 mg/L	-0.0038 mg/L	06:13:42
2	Sn 189.927†	-18.7	-55.0	0.0020 mg/L	0.0020 mg/L	06:13:42
2	Sr 407.771†	80754.4	75493.1	0.0642 mg/L	0.0642 mg/L	06:13:07
2	Ti 337.279†	3556999.8	3337368.2	3.424 mg/L	3.424 mg/L	06:13:29
2	Tl 190.801†	-17.2	-9.1	-0.0633 mg/L	-0.0633 mg/L	06:13:42
2	V 292.402†	53761.5	51324.2	0.1965 mg/L	0.1965 mg/L	06:13:31
2	Zn 213.857†	105097.1	97700.0	0.5938 mg/L	0.5938 mg/L	06:13:31

Mean Data: 1306385-10

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3607766.1	1.07 mg/L	0.001			0.11%
Ag 328.068†	11818.0	0.0605 mg/L	0.00029	0.0605 mg/L	0.00029	0.48%
Al 237.313†	1299619.6	119.1 mg/L	0.13	119.1 mg/L	0.13	0.11%
As 188.979†	199.8	0.1246 mg/L	0.00044	0.1246 mg/L	0.00044	0.36%
B 249.677†	-11.1	-0.0020 mg/L	0.00927	-0.0020 mg/L	0.00927	467.17%
B 182.528†	28.1	0.0270 mg/L	0.00073	0.0270 mg/L	0.00073	2.69%
Ba 233.527†	49567.6	0.3764 mg/L	0.00294	0.3764 mg/L	0.00294	0.78%
Be 313.107†	16316.6	0.0052 mg/L	0.00000	0.0052 mg/L	0.00000	0.05%
Ca 315.887†	1305657.1	11.70 mg/L	0.014	11.70 mg/L	0.014	0.12%
Cd 228.802†	90.8	0.0019 mg/L	0.00006	0.0019 mg/L	0.00006	3.43%
Co 228.616†	3400.5	0.0448 mg/L	0.00021	0.0448 mg/L	0.00021	0.47%
Cr 267.716†	19031.2	0.1453 mg/L	0.00109	0.1453 mg/L	0.00109	0.75%
Cu 324.752†	89139.3	0.3862 mg/L	0.00335	0.3862 mg/L	0.00335	0.87%
Fe 234.349†	244489.2	121.0 mg/L	0.01	121.0 mg/L	0.01	0.01%
K 766.490†	9919.8	4.379 mg/L	0.0143	4.379 mg/L	0.0143	0.33%
Li 670.784†	4398.1	0.1052 mg/L	0.00056	0.1052 mg/L	0.00056	0.53%
Mg 279.077†	373661.7	24.27 mg/L	0.049	24.27 mg/L	0.049	0.20%
Mn 257.610†	2334429.5	2.484 mg/L	0.0023	2.484 mg/L	0.0023	0.09%
Mn 294.920†	1181126.7	2.519 mg/L	0.0031	2.519 mg/L	0.0031	0.12%
Mo 202.031†	201.4	-0.0100 mg/L	0.00049	-0.0100 mg/L	0.00049	4.88%
Na 589.592†	5551.2	0.8310 mg/L	0.00155	0.8310 mg/L	0.00155	0.19%
Ni 231.604†	6913.0	0.1281 mg/L	0.00224	0.1281 mg/L	0.00224	1.75%
P 214.914†	13261.8	6.998 mg/L	0.0318	6.998 mg/L	0.0318	0.45%
Pb 220.353†	10571.1	0.5904 mg/L	0.00476	0.5904 mg/L	0.00476	0.81%
Sb 206.836†	36.8	-0.0332 mg/L	0.00244	-0.0332 mg/L	0.00244	7.36%
Se 196.026†	-30.3	-0.0052 mg/L	0.00190	-0.0052 mg/L	0.00190	36.60%
Sn 189.927†	-72.1	0.0000 mg/L	0.00297	0.0000 mg/L	0.00297	>999.9%
Sr 407.771†	75518.7	0.0642 mg/L	0.00003	0.0642 mg/L	0.00003	0.05%
Ti 337.279†	3338428.1	3.425 mg/L	0.0015	3.425 mg/L	0.0015	0.04%
Tl 190.801†	-4.0	-0.0595 mg/L	0.00536	-0.0595 mg/L	0.00536	9.01%
V 292.402†	51072.4	0.1955 mg/L	0.00139	0.1955 mg/L	0.00139	0.71%
Zn 213.857†	97056.8	0.5899 mg/L	0.00557	0.5899 mg/L	0.00557	0.94%

Sequence No.: 216

Sample ID: 1306385-11

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 6/26/2013 6:15:19 AM

Data Type: Reprocessed on 6/26/2013 10:58:28 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1306385-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
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1	Y 371.029	3571372.6	3571372.6	1.06	mg/L		06:17:15
1	Ag 328.068†	46943.3	43706.4	0.2136	mg/L	0.2136	06:17:17
1	Al 237.313†	1382878.6	1309616.0	120.1	mg/L	120.1	06:17:15
1	As 188.979†	912.3	862.7	0.5299	mg/L	0.5299	06:17:27
1	B 249.677†	-40.6	-23.2	-0.0070	mg/L	-0.0070	06:17:04
1	B 182.528†	18.3	24.2	0.0238	mg/L	0.0238	06:17:27
1	Ba 233.527†	68617.7	65051.0	0.4937	mg/L	0.4937	06:17:17
1	Be 313.107†	17288.1	17800.2	0.0054	mg/L	0.0054	06:17:17
1	Ca 315.887†	1755114.3	1662357.5	14.89	mg/L	14.89	06:17:15
1	Cd 228.802†	369.1	202.0	0.0048	mg/L	0.0048	06:17:27
1	Co 228.616†	2988.8	3007.5	0.0357	mg/L	0.0357	06:17:27
1	Cr 267.716†	39039.4	36249.4	0.2762	mg/L	0.2762	06:17:17
1	Cu 324.752†	287545.2	268274.3	1.153	mg/L	1.153	06:17:15
1	Fe 234.349†	259649.4	245822.5	121.7	mg/L	121.7	06:17:02
1	K 766.490†	13717.9	12242.2	5.371	mg/L	5.371	06:17:04
1	Li 670.784†	4427.8	4464.6	0.1067	mg/L	0.1067	06:17:04
1	Mg 279.077†	302842.9	286426.1	18.60	mg/L	18.60	06:17:15
1	Mn 257.610†	2102028.1	1974023.1	2.096	mg/L	2.096	06:17:15
1	Mn 294.920†	1055635.3	1000054.4	2.133	mg/L	2.133	06:17:15
1	Mo 202.031†	178.8	179.7	-0.0152	mg/L	-0.0152	06:17:17
1	Na 589.592†	11419.5	6584.9	0.9694	mg/L	0.9694	06:17:04
1	Ni 231.604†	11396.8	10612.7	0.1970	mg/L	0.1970	06:17:17
1	P 214.914†	16563.4	15727.3	8.284	mg/L	8.284	06:17:17
1	Pb 220.353†	28479.1	26779.2	1.537	mg/L	1.537	06:17:17
1	Sb 206.836†	89.4	39.8	-0.0333	mg/L	-0.0333	06:17:27
1	Se 196.026†	-15.2	-31.2	-0.0057	mg/L	-0.0057	06:17:27
1	Sn 189.927†	102.8	59.8	0.0181	mg/L	0.0181	06:17:27
1	Sr 407.771†	106321.9	100413.7	0.0853	mg/L	0.0853	06:17:02
1	Ti 337.279†	4885791.6	4626879.6	4.745	mg/L	4.745	06:17:15
1	Tl 190.801†	-6.2	1.3	-0.0569	mg/L	-0.0569	06:17:27
1	V 292.402†	84987.0	81362.6	0.3116	mg/L	0.3116	06:17:17
1	Zn 213.857†	162879.9	153335.8	0.9341	mg/L	0.9341	06:17:17
2	Y 371.029	3590578.9	3590578.9	1.06	mg/L		06:17:31
2	Ag 328.068†	46658.5	43200.4	0.2111	mg/L	0.2111	06:17:33
2	Al 237.313†	1392706.7	1311867.8	120.3	mg/L	120.3	06:17:31
2	As 188.979†	912.0	857.7	0.5268	mg/L	0.5268	06:17:43
2	B 249.677†	-20.0	-3.6	0.0011	mg/L	0.0011	06:17:09
2	B 182.528†	19.9	25.7	0.0250	mg/L	0.0250	06:17:43
2	Ba 233.527†	67862.9	63992.7	0.4857	mg/L	0.4857	06:17:33
2	Be 313.107†	17215.9	17644.6	0.0053	mg/L	0.0053	06:17:33
2	Ca 315.887†	1768150.7	1665745.4	14.92	mg/L	14.92	06:17:31
2	Cd 228.802†	349.9	182.1	0.0043	mg/L	0.0043	06:17:43
2	Co 228.616†	3032.9	3033.9	0.0361	mg/L	0.0361	06:17:43
2	Cr 267.716†	38681.5	35714.7	0.2722	mg/L	0.2722	06:17:33
2	Cu 324.752†	289336.0	268504.5	1.154	mg/L	1.154	06:17:31
2	Fe 234.349†	259341.5	244217.7	120.9	mg/L	120.9	06:17:07
2	K 766.490†	13729.8	12184.0	5.346	mg/L	5.346	06:17:09
2	Li 670.784†	4283.8	4306.5	0.1030	mg/L	0.1030	06:17:09
2	Mg 279.077†	304608.5	286555.1	18.61	mg/L	18.61	06:17:31
2	Mn 257.610†	2116145.3	1976671.9	2.099	mg/L	2.099	06:17:31
2	Mn 294.920†	1063341.2	1001964.9	2.137	mg/L	2.137	06:17:31
2	Mo 202.031†	197.0	195.9	-0.0144	mg/L	-0.0144	06:17:33
2	Na 589.592†	11302.6	6417.0	0.9470	mg/L	0.9470	06:17:09
2	Ni 231.604†	11233.1	10400.8	0.1930	mg/L	0.1930	06:17:33
2	P 214.914†	16479.3	15564.2	8.198	mg/L	8.198	06:17:33
2	Pb 220.353†	28246.8	26416.3	1.516	mg/L	1.516	06:17:33
2	Sb 206.836†	92.7	42.5	-0.0319	mg/L	-0.0319	06:17:43
2	Se 196.026†	-24.4	-39.8	-0.0105	mg/L	-0.0105	06:17:43
2	Sn 189.927†	98.1	54.9	0.0175	mg/L	0.0175	06:17:43
2	Sr 407.771†	105897.2	99475.3	0.0845	mg/L	0.0845	06:17:07
2	Ti 337.279†	4915985.7	4630570.1	4.749	mg/L	4.749	06:17:31
2	Tl 190.801†	-11.7	-3.9	-0.0604	mg/L	-0.0604	06:17:43
2	V 292.402†	84421.6	80399.8	0.3078	mg/L	0.3078	06:17:33
2	Zn 213.857†	161416.2	151132.6	0.9206	mg/L	0.9206	06:17:33

Mean Data: 1306385-11

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3580975.7	1.06	mg/L	0.004				0.38%
Ag 328.068†	43453.4	0.2123	mg/L	0.00173	0.2123	mg/L	0.00173	0.82%
Al 237.313†	1310741.9	120.2	mg/L	0.15	120.2	mg/L	0.15	0.12%
As 188.979†	860.2	0.5284	mg/L	0.00215	0.5284	mg/L	0.00215	0.41%

B 249.677†	-13.4	-0.0029 mg/L	0.00566	-0.0029 mg/L	0.00566	191.79%
B 182.528†	25.0	0.0244 mg/L	0.00086	0.0244 mg/L	0.00086	3.53%
Ba 233.527†	64521.9	0.4897 mg/L	0.00567	0.4897 mg/L	0.00567	1.16%
Be 313.107†	17722.4	0.0053 mg/L	0.00004	0.0053 mg/L	0.00004	0.74%
Ca 315.887†	1664051.4	14.90 mg/L	0.021	14.90 mg/L	0.021	0.14%
Cd 228.802†	192.0	0.0046 mg/L	0.00037	0.0046 mg/L	0.00037	8.04%
Co 228.616†	3020.7	0.0359 mg/L	0.00029	0.0359 mg/L	0.00029	0.81%
Cr 267.716†	35982.0	0.2742 mg/L	0.00288	0.2742 mg/L	0.00288	1.05%
Cu 324.752†	268389.4	1.153 mg/L	0.0007	1.153 mg/L	0.0007	0.06%
Fe 234.349†	245020.1	121.3 mg/L	0.56	121.3 mg/L	0.56	0.46%
K 766.490†	12213.1	5.359 mg/L	0.0176	5.359 mg/L	0.0176	0.33%
Li 670.784†	4385.5	0.1049 mg/L	0.00262	0.1049 mg/L	0.00262	2.50%
Mg 279.077†	286490.6	18.60 mg/L	0.006	18.60 mg/L	0.006	0.03%
Mn 257.610†	1975347.5	2.097 mg/L	0.0021	2.097 mg/L	0.0021	0.10%
Mn 294.920†	1001009.6	2.135 mg/L	0.0029	2.135 mg/L	0.0029	0.13%
Mo 202.031†	187.8	-0.0148 mg/L	0.00051	-0.0148 mg/L	0.00051	3.46%
Na 589.592†	6500.9	0.9582 mg/L	0.01591	0.9582 mg/L	0.01591	1.66%
Ni 231.604†	10506.8	0.1950 mg/L	0.00279	0.1950 mg/L	0.00279	1.43%
P 214.914†	15645.8	8.241 mg/L	0.0605	8.241 mg/L	0.0605	0.73%
Pb 220.353†	26597.7	1.527 mg/L	0.0150	1.527 mg/L	0.0150	0.99%
Sb 206.836†	41.1	-0.0326 mg/L	0.00104	-0.0326 mg/L	0.00104	3.19%
Se 196.026†	-35.5	-0.0081 mg/L	0.00340	-0.0081 mg/L	0.00340	42.08%
Sn 189.927†	57.4	0.0178 mg/L	0.00041	0.0178 mg/L	0.00041	2.32%
Sr 407.771†	99944.5	0.0849 mg/L	0.00056	0.0849 mg/L	0.00056	0.66%
Ti 337.279†	4628724.9	4.747 mg/L	0.0027	4.747 mg/L	0.0027	0.06%
Tl 190.801†	-1.3	-0.0587 mg/L	0.00248	-0.0587 mg/L	0.00248	4.23%
V 292.402†	80881.2	0.3097 mg/L	0.00267	0.3097 mg/L	0.00267	0.86%
Zn 213.857†	152234.2	0.9274 mg/L	0.00953	0.9274 mg/L	0.00953	1.03%

Sequence No.: 217
Sample ID: 1306385-12
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/26/2013 6:19:22 AM
Data Type: Reprocessed on 6/26/2013 10:58:29 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306385-12

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Conc. Units	Intensity	Conc. Units	Conc. Units	Conc. Units			
1	Y 371.029	3606087.7	1.07 mg/L	3606087.7	1.07 mg/L					06:21:15
1	Ag 328.068†	4961.8	0.0218 mg/L	3915.5	0.0218 mg/L		0.0218 mg/L			06:21:18
1	Al 237.313†	1135710.2	97.66 mg/L	1065260.4	97.66 mg/L		97.66 mg/L			06:21:15
1	As 188.979†	131.5	0.0772 mg/L	122.3	0.0772 mg/L		0.0772 mg/L			06:21:28
1	B 249.677†	-8.1	0.0056 mg/L	7.6	0.0056 mg/L		0.0056 mg/L			06:21:06
1	B 182.528†	9.6	0.0170 mg/L	16.0	0.0170 mg/L		0.0170 mg/L			06:21:28
1	Ba 233.527†	43372.4	0.3096 mg/L	40754.9	0.3096 mg/L		0.3096 mg/L			06:21:18
1	Be 313.107†	14658.6	0.0047 mg/L	15177.0	0.0047 mg/L		0.0047 mg/L			06:21:18
1	Ca 315.887†	1199967.0	10.09 mg/L	1125840.0	10.09 mg/L		10.09 mg/L			06:21:15
1	Cd 228.802†	203.7	0.0011 mg/L	43.6	0.0011 mg/L		0.0011 mg/L			06:21:28
1	Co 228.616†	1903.0	0.0218 mg/L	1962.2	0.0218 mg/L		0.0218 mg/L			06:21:28
1	Cr 267.716†	14229.7	0.0966 mg/L	12631.3	0.0966 mg/L		0.0966 mg/L			06:21:18
1	Cu 324.752†	60476.8	0.2308 mg/L	52748.0	0.2308 mg/L		0.2308 mg/L			06:21:18
1	Fe 234.349†	204021.7	94.71 mg/L	191298.0	94.71 mg/L		94.71 mg/L			06:21:04
1	K 766.490†	8464.8	3.215 mg/L	7191.7	3.215 mg/L		3.215 mg/L			06:21:06
1	Li 670.784†	2954.7	0.0734 mg/L	3043.0	0.0734 mg/L		0.0734 mg/L			06:21:06
1	Mg 279.077†	210175.5	12.78 mg/L	196778.5	12.78 mg/L		12.78 mg/L			06:21:18
1	Mn 257.610†	1394223.6	1.368 mg/L	1291208.1	1.368 mg/L		1.368 mg/L			06:21:15
1	Mn 294.920†	700798.6	1.403 mg/L	657728.6	1.403 mg/L		1.403 mg/L			06:21:15
1	Mo 202.031†	133.5	-0.0076 mg/L	135.6	-0.0076 mg/L		-0.0076 mg/L			06:21:18
1	Na 589.592†	9054.0	0.6583 mg/L	4262.8	0.6583 mg/L		0.6583 mg/L			06:21:06
1	Ni 231.604†	4365.5	0.0724 mg/L	3916.1	0.0724 mg/L		0.0724 mg/L			06:21:18
1	P 214.914†	9197.8	4.592 mg/L	8670.2	4.592 mg/L		4.592 mg/L			06:21:18
1	Pb 220.353†	7421.2	0.3738 mg/L	6775.2	0.3738 mg/L		0.3738 mg/L			06:21:28
1	Sb 206.836†	81.3	-0.0238 mg/L	31.4	-0.0238 mg/L		-0.0238 mg/L			06:21:28
1	Se 196.026†	-13.9	-0.0065 mg/L	-29.9	-0.0065 mg/L		-0.0065 mg/L			06:21:28
1	Sn 189.927†	-38.4	-0.0012 mg/L	-73.4	-0.0012 mg/L		-0.0012 mg/L			06:21:28
1	Sr 407.771†	58374.4	0.0464 mg/L	54487.8	0.0464 mg/L		0.0464 mg/L			06:21:04
1	Ti 337.279†	3611404.9	3.475 mg/L	3387450.2	3.475 mg/L		3.475 mg/L			06:21:15
1	Tl 190.801†	-0.9	-0.0396 mg/L	6.3	-0.0396 mg/L		-0.0396 mg/L			06:21:28
1	V 292.402†	39980.1	0.1458 mg/L	38388.2	0.1458 mg/L		0.1458 mg/L			06:21:18
1	Zn 213.857†	42277.4	0.2336 mg/L	38771.1	0.2336 mg/L		0.2336 mg/L			06:21:18

2	Y 371.029	3629463.4	3629463.4	1.07 mg/L			06:21:31
2	Ag 328.068†	4965.9	3889.4	0.0217 mg/L		0.0217 mg/L	06:21:33
2	Al 237.313†	1142054.1	1064312.1	97.58 mg/L		97.58 mg/L	06:21:31
2	As 188.979†	126.4	116.7	0.0738 mg/L		0.0738 mg/L	06:21:43
2	B 249.677†	-36.4	-18.7	-0.0051 mg/L		-0.0051 mg/L	06:21:11
2	B 182.528†	11.4	17.6	0.0183 mg/L		0.0183 mg/L	06:21:43
2	Ba 233.527†	43797.8	40889.3	0.3106 mg/L		0.3106 mg/L	06:21:33
2	Be 313.107†	14835.1	15253.0	0.0048 mg/L		0.0048 mg/L	06:21:33
2	Ca 315.887†	1206517.6	1124696.0	10.08 mg/L		10.08 mg/L	06:21:31
2	Cd 228.802†	204.8	43.3	0.0011 mg/L		0.0011 mg/L	06:21:43
2	Co 228.616†	1907.4	1954.9	0.0217 mg/L		0.0217 mg/L	06:21:43
2	Cr 267.716†	14352.0	12659.4	0.0968 mg/L		0.0968 mg/L	06:21:33
2	Cu 324.752†	60625.1	52521.0	0.2298 mg/L		0.2298 mg/L	06:21:33
2	Fe 234.349†	203096.8	189204.3	93.68 mg/L		93.68 mg/L	06:21:09
2	K 766.490†	8367.7	7050.1	3.154 mg/L		3.154 mg/L	06:21:11
2	Li 670.784†	2916.9	2990.0	0.0721 mg/L		0.0721 mg/L	06:21:11
2	Mg 279.077†	211597.1	196833.6	12.78 mg/L		12.78 mg/L	06:21:33
2	Mn 257.610†	1401975.1	1290009.8	1.366 mg/L		1.366 mg/L	06:21:31
2	Mn 294.920†	705147.0	657547.5	1.402 mg/L		1.402 mg/L	06:21:31
2	Mo 202.031†	196.4	193.4	-0.0053 mg/L		-0.0053 mg/L	06:21:33
2	Na 589.592†	8999.3	4157.2	0.6442 mg/L		0.6442 mg/L	06:21:11
2	Ni 231.604†	4442.6	3961.5	0.0732 mg/L		0.0732 mg/L	06:21:33
2	P 214.914†	9228.9	8643.6	4.579 mg/L		4.579 mg/L	06:21:33
2	Pb 220.353†	7351.2	6665.2	0.3674 mg/L		0.3674 mg/L	06:21:43
2	Sb 206.836†	70.1	20.5	-0.0278 mg/L		-0.0278 mg/L	06:21:43
2	Se 196.026†	-13.5	-29.4	-0.0063 mg/L		-0.0063 mg/L	06:21:43
2	Sn 189.927†	-55.7	-89.3	-0.0032 mg/L		-0.0032 mg/L	06:21:43
2	Sr 407.771†	58210.4	53982.5	0.0460 mg/L		0.0460 mg/L	06:21:09
2	Ti 337.279†	3630227.3	3383176.3	3.471 mg/L		3.471 mg/L	06:21:31
2	Tl 190.801†	-7.8	-0.1	-0.0440 mg/L		-0.0440 mg/L	06:21:43
2	V 292.402†	40150.1	38305.2	0.1455 mg/L		0.1455 mg/L	06:21:33
2	Zn 213.857†	42570.5	38788.7	0.2337 mg/L		0.2337 mg/L	06:21:33

Mean Data: 1306385-12

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3617775.5	1.07	mg/L	0.005				0.46%
Ag 328.068†	3902.5	0.0218	mg/L	0.00011	0.0218	mg/L	0.00011	0.49%
Al 237.313†	1064786.2	97.62	mg/L	0.061	97.62	mg/L	0.061	0.06%
As 188.979†	119.5	0.0755	mg/L	0.00242	0.0755	mg/L	0.00242	3.20%
B 249.677†	-5.6	0.0003	mg/L	0.00759	0.0003	mg/L	0.00759	>999.9%
B 182.528†	16.8	0.0177	mg/L	0.00095	0.0177	mg/L	0.00095	5.35%
Ba 233.527†	40822.1	0.3101	mg/L	0.00072	0.3101	mg/L	0.00072	0.23%
Be 313.107†	15215.0	0.0047	mg/L	0.00002	0.0047	mg/L	0.00002	0.41%
Ca 315.887†	1125268.0	10.08	mg/L	0.007	10.08	mg/L	0.007	0.07%
Cd 228.802†	43.4	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	0.75%
Co 228.616†	1958.5	0.0217	mg/L	0.00008	0.0217	mg/L	0.00008	0.35%
Cr 267.716†	12645.4	0.0967	mg/L	0.00015	0.0967	mg/L	0.00015	0.16%
Cu 324.752†	52634.5	0.2303	mg/L	0.00069	0.2303	mg/L	0.00069	0.30%
Fe 234.349†	190251.2	94.19	mg/L	0.733	94.19	mg/L	0.733	0.78%
K 766.490†	7120.9	3.184	mg/L	0.0428	3.184	mg/L	0.0428	1.34%
Li 670.784†	3016.5	0.0727	mg/L	0.00088	0.0727	mg/L	0.00088	1.21%
Mg 279.077†	196806.1	12.78	mg/L	0.003	12.78	mg/L	0.003	0.02%
Mn 257.610†	1290608.9	1.367	mg/L	0.0007	1.367	mg/L	0.0007	0.05%
Mn 294.920†	657638.1	1.403	mg/L	0.0003	1.403	mg/L	0.0003	0.02%
Mo 202.031†	164.5	-0.0064	mg/L	0.00165	-0.0064	mg/L	0.00165	25.61%
Na 589.592†	4210.0	0.6512	mg/L	0.01000	0.6512	mg/L	0.01000	1.54%
Ni 231.604†	3938.8	0.0728	mg/L	0.00060	0.0728	mg/L	0.00060	0.82%
P 214.914†	8656.9	4.586	mg/L	0.0099	4.586	mg/L	0.0099	0.22%
Pb 220.353†	6720.2	0.3706	mg/L	0.00453	0.3706	mg/L	0.00453	1.22%
Sb 206.836†	26.0	-0.0258	mg/L	0.00284	-0.0258	mg/L	0.00284	11.00%
Se 196.026†	-29.6	-0.0064	mg/L	0.00014	-0.0064	mg/L	0.00014	2.15%
Sn 189.927†	-81.4	-0.0022	mg/L	0.00139	-0.0022	mg/L	0.00139	63.38%
Sr 407.771†	54235.1	0.0462	mg/L	0.00030	0.0462	mg/L	0.00030	0.65%
Ti 337.279†	3385313.2	3.473	mg/L	0.0031	3.473	mg/L	0.0031	0.09%
Tl 190.801†	3.1	-0.0418	mg/L	0.00309	-0.0418	mg/L	0.00309	7.40%
V 292.402†	38346.7	0.1456	mg/L	0.00020	0.1456	mg/L	0.00020	0.14%
Zn 213.857†	38779.9	0.2337	mg/L	0.00011	0.2337	mg/L	0.00011	0.05%

Sequence No.: 218
Sample ID: 1306385-13

Autosampler Location: 15
Date Collected: 6/26/2013 6:23:22 AM
Page 440 of 722

Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Data Type: Reprocessed on 6/26/2013 10:58:29 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306385-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3546025.1	3546025.1	1.05	mg/L		06:25:18
1	Ag 328.068†	528.4	-233.0	0.0163	mg/L	0.0163 mg/L	06:25:18
1	Al 237.313†	826520.9	788482.5	72.29	mg/L	72.29 mg/L	06:25:14
1	As 188.979†	209.1	198.3	0.1232	mg/L	0.1232 mg/L	06:25:28
1	B 249.677†	-130.2	-108.9	-0.0419	mg/L	-0.0419 mg/L	06:25:04
1	B 182.528†	62.9	67.0	0.0589	mg/L	0.0589 mg/L	06:25:28
1	Ba 233.527†	304127.2	290075.7	2.200	mg/L	2.200 mg/L	06:25:18
1	Be 313.107†	13182.8	14002.7	0.0041	mg/L	0.0041 mg/L	06:25:18
1	Ca 315.887†	8124352.6	7747360.8	69.35	mg/L	69.35 mg/L	06:25:14
1	Cd 228.802†	786.3	602.3	0.0063	mg/L	0.0063 mg/L	06:25:28
1	Co 228.616†	4576.3	4541.5	0.0606	mg/L	0.0606 mg/L	06:25:28
1	Cr 267.716†	23076.7	21293.0	0.1625	mg/L	0.1625 mg/L	06:25:18
1	Cu 324.752†	400736.8	378149.5	1.622	mg/L	1.622 mg/L	06:25:18
1	Fe 234.349†	1410207.0	1344646.7	665.7	mg/L	665.7 mg/L	06:25:02
1	K 766.490†	30791.4	28614.7	12.36	mg/L	12.36 mg/L	06:25:04
1	Li 670.784†	4343.8	4414.5	0.1056	mg/L	0.1056 mg/L	06:25:04
1	Mg 279.077†	301751.2	287434.6	18.67	mg/L	18.67 mg/L	06:25:18
1	Mn 257.610†	3725326.2	3536077.7	3.653	mg/L	3.653 mg/L	06:25:18
1	Mn 294.920†	2010540.0	1917708.4	4.090	mg/L	4.090 mg/L	06:25:18
1	Mo 202.031†	512.0	498.6	-0.0874	mg/L	-0.0874 mg/L	06:25:18
1	Na 589.592†	15418.3	10475.0	1.491	mg/L	1.491 mg/L	06:25:04
1	Ni 231.604†	9753.8	9123.1	0.1693	mg/L	0.1693 mg/L	06:25:28
1	P 214.914†	11310.1	10830.3	5.712	mg/L	5.712 mg/L	06:25:28
1	Pb 220.353†	67676.0	64346.6	3.746	mg/L	3.746 mg/L	06:25:18
1	Sb 206.836†	209.3	154.8	-0.2164	mg/L	-0.2164 mg/L	06:25:28
1	Se 196.026†	-285.0	-288.6	-0.1161	mg/L	-0.1161 mg/L	06:25:28
1	Sn 189.927†	33759.8	32152.8	3.993	mg/L	3.993 mg/L	06:25:18
1	Sr 407.771†	473333.4	451082.0	0.3821	mg/L	0.3821 mg/L	06:25:02
1	Ti 337.279†	4639987.6	4425567.6	4.539	mg/L	4.539 mg/L	06:25:18
1	Tl 190.801†	-53.7	-44.1	-0.3396	mg/L	-0.3396 mg/L	06:25:28
1	V 292.402†	119049.3	114416.5	0.4385	mg/L	0.4385 mg/L	06:25:18
1	Zn 213.857†	887223.2	845105.8	5.159	mg/L	5.159 mg/L	06:25:18
2	Y 371.029	3584568.1	3584568.1	1.06	mg/L		06:25:35
2	Ag 328.068†	335.3	-420.5	0.0154	mg/L	0.0154 mg/L	06:25:35
2	Al 237.313†	821699.3	775460.5	71.10	mg/L	71.10 mg/L	06:25:31
2	As 188.979†	206.3	193.5	0.1203	mg/L	0.1203 mg/L	06:25:45
2	B 249.677†	-128.4	-105.9	-0.0407	mg/L	-0.0407 mg/L	06:25:09
2	B 182.528†	61.2	64.7	0.0570	mg/L	0.0570 mg/L	06:25:45
2	Ba 233.527†	307457.0	290098.5	2.200	mg/L	2.200 mg/L	06:25:35
2	Be 313.107†	13206.3	13889.7	0.0040	mg/L	0.0040 mg/L	06:25:35
2	Ca 315.887†	8086301.0	7628172.9	68.28	mg/L	68.28 mg/L	06:25:31
2	Cd 228.802†	793.9	601.4	0.0063	mg/L	0.0063 mg/L	06:25:45
2	Co 228.616†	4618.6	4534.4	0.0605	mg/L	0.0605 mg/L	06:25:45
2	Cr 267.716†	23391.2	21353.1	0.1629	mg/L	0.1629 mg/L	06:25:35
2	Cu 324.752†	405131.2	378185.9	1.622	mg/L	1.622 mg/L	06:25:35
2	Fe 234.349†	1424249.0	1343433.6	665.1	mg/L	665.1 mg/L	06:25:07
2	K 766.490†	30933.1	28432.8	12.29	mg/L	12.29 mg/L	06:25:09
2	Li 670.784†	4477.8	4496.3	0.1075	mg/L	0.1075 mg/L	06:25:09
2	Mg 279.077†	305119.0	287517.6	18.67	mg/L	18.67 mg/L	06:25:35
2	Mn 257.610†	3765663.4	3535931.8	3.653	mg/L	3.653 mg/L	06:25:35
2	Mn 294.920†	2033762.1	1918999.7	4.093	mg/L	4.093 mg/L	06:25:35
2	Mo 202.031†	437.5	423.1	-0.0902	mg/L	-0.0902 mg/L	06:25:35
2	Na 589.592†	15350.9	10253.4	1.461	mg/L	1.461 mg/L	06:25:09
2	Ni 231.604†	9786.8	9054.4	0.1680	mg/L	0.1680 mg/L	06:25:45
2	P 214.914†	11376.7	10777.2	5.684	mg/L	5.684 mg/L	06:25:45
2	Pb 220.353†	68549.5	64476.7	3.754	mg/L	3.754 mg/L	06:25:35
2	Sb 206.836†	226.9	169.2	-0.2103	mg/L	-0.2103 mg/L	06:25:45
2	Se 196.026†	-289.6	-290.1	-0.1169	mg/L	-0.1169 mg/L	06:25:45
2	Sn 189.927†	34173.9	32197.2	3.998	mg/L	3.998 mg/L	06:25:35
2	Sr 407.771†	477454.5	450116.4	0.3813	mg/L	0.3813 mg/L	06:25:07
2	Ti 337.279†	4686753.5	4422108.0	4.536	mg/L	4.536 mg/L	06:25:35
2	Tl 190.801†	-40.3	-30.9	-0.3292	mg/L	-0.3292 mg/L	06:25:45
2	V 292.402†	120158.5	114242.2	0.4378	mg/L	0.4378 mg/L	06:25:35
2	Zn 213.857†	897387.4	845597.0	5.162	mg/L	5.162 mg/L	06:25:35

Mean Data: 1306385-13

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3565296.6	1.05 mg/L	0.008			0.76%
Ag 328.068†	-326.7	0.0158 mg/L	0.00065	0.0158 mg/L	0.00065	4.09%
Al 237.313†	781971.5	71.69 mg/L	0.844	71.69 mg/L	0.844	1.18%
As 188.979†	195.9	0.1217 mg/L	0.00208	0.1217 mg/L	0.00208	1.71%
B 249.677†	-107.4	-0.0413 mg/L	0.00086	-0.0413 mg/L	0.00086	2.08%
B 182.528†	65.8	0.0580 mg/L	0.00132	0.0580 mg/L	0.00132	2.29%
Ba 233.527†	290087.1	2.200 mg/L	0.0001	2.200 mg/L	0.0001	0.01%
Be 313.107†	13946.2	0.0040 mg/L	0.00003	0.0040 mg/L	0.00003	0.68%
Ca 315.887†	7687766.9	68.82 mg/L	0.754	68.82 mg/L	0.754	1.10%
Cd 228.802†	601.9	0.0063 mg/L	0.00001	0.0063 mg/L	0.00001	0.15%
Co 228.616†	4537.9	0.0605 mg/L	0.00008	0.0605 mg/L	0.00008	0.12%
Cr 267.716†	21323.0	0.1627 mg/L	0.00032	0.1627 mg/L	0.00032	0.20%
Cu 324.752†	378167.7	1.622 mg/L	0.0001	1.622 mg/L	0.0001	0.01%
Fe 234.349†	1344040.1	665.4 mg/L	0.42	665.4 mg/L	0.42	0.06%
K 766.490†	28523.8	12.32 mg/L	0.055	12.32 mg/L	0.055	0.45%
Li 670.784†	4455.4	0.1065 mg/L	0.00136	0.1065 mg/L	0.00136	1.28%
Mg 279.077†	287476.1	18.67 mg/L	0.004	18.67 mg/L	0.004	0.02%
Mn 257.610†	3536004.7	3.653 mg/L	0.0000	3.653 mg/L	0.0000	0.00%
Mn 294.920†	1918354.0	4.092 mg/L	0.0019	4.092 mg/L	0.0019	0.05%
Mo 202.031†	460.8	-0.0888 mg/L	0.00194	-0.0888 mg/L	0.00194	2.19%
Na 589.592†	10364.2	1.476 mg/L	0.0210	1.476 mg/L	0.0210	1.42%
Ni 231.604†	9088.7	0.1686 mg/L	0.00091	0.1686 mg/L	0.00091	0.54%
P 214.914†	10803.8	5.698 mg/L	0.0197	5.698 mg/L	0.0197	0.35%
Pb 220.353†	64411.6	3.750 mg/L	0.0056	3.750 mg/L	0.0056	0.15%
Sb 206.836†	162.0	-0.2134 mg/L	0.00434	-0.2134 mg/L	0.00434	2.03%
Se 196.026†	-289.4	-0.1165 mg/L	0.00059	-0.1165 mg/L	0.00059	0.50%
Sn 189.927†	32175.0	3.995 mg/L	0.0034	3.995 mg/L	0.0034	0.08%
Sr 407.771†	450599.2	0.3817 mg/L	0.00058	0.3817 mg/L	0.00058	0.15%
Ti 337.279†	4423837.8	4.537 mg/L	0.0025	4.537 mg/L	0.0025	0.06%
Tl 190.801†	-37.5	-0.3344 mg/L	0.00736	-0.3344 mg/L	0.00736	2.20%
V 292.402†	114329.3	0.4381 mg/L	0.00050	0.4381 mg/L	0.00050	0.12%
Zn 213.857†	845351.4	5.160 mg/L	0.0022	5.160 mg/L	0.0022	0.04%

Sequence No.: 219

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 6:28:53 AM

Data Type: Reprocessed on 6/26/2013 10:58:30 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3474664.2	3474664.2	1.03 mg/L		06:30:46
1	Ag 328.068†	51961.7	49826.7	0.2400 mg/L	0.2400 mg/L	06:30:46
1	Al 237.313†	26561.4	26234.1	2.414 mg/L	2.414 mg/L	06:30:57
1	As 188.979†	787.2	765.0	0.4698 mg/L	0.4698 mg/L	06:30:57
1	B 249.677†	1193.5	1176.6	0.4834 mg/L	0.4834 mg/L	06:30:37
1	B 182.528†	555.8	547.8	0.4540 mg/L	0.4540 mg/L	06:30:57
1	Ba 233.527†	64828.0	63171.3	0.4795 mg/L	0.4795 mg/L	06:30:46
1	Be 313.107†	126128.1	124167.0	0.0439 mg/L	0.0439 mg/L	06:30:46
1	Ca 315.887†	635965.7	619570.9	5.555 mg/L	5.555 mg/L	06:30:46
1	Cd 228.802†	8337.1	7965.3	0.2145 mg/L	0.2145 mg/L	06:30:57
1	Co 228.616†	31376.9	30710.5	0.4867 mg/L	0.4867 mg/L	06:30:57
1	Cr 267.716†	68999.9	66432.4	0.5062 mg/L	0.5062 mg/L	06:30:46
1	Cu 324.752†	125251.7	117924.7	0.5053 mg/L	0.5053 mg/L	06:30:46
1	Fe 234.349†	5033.6	4899.8	2.420 mg/L	2.420 mg/L	06:30:37
1	K 766.490†	54637.5	52422.2	22.53 mg/L	22.53 mg/L	06:30:34
1	Li 670.784†	20033.9	19767.5	0.4661 mg/L	0.4661 mg/L	06:30:37
1	Mg 279.077†	85136.4	82557.6	5.360 mg/L	5.360 mg/L	06:30:46
1	Mn 257.610†	490035.7	460795.5	0.4951 mg/L	0.4951 mg/L	06:30:46
1	Mn 294.920†	233020.9	227391.3	0.4849 mg/L	0.4849 mg/L	06:30:46
1	Mo 202.031†	13106.8	12764.6	0.4791 mg/L	0.4791 mg/L	06:30:57
1	Na 589.592†	178707.7	169672.5	22.82 mg/L	22.82 mg/L	06:30:34
1	Ni 231.604†	28006.9	27076.1	0.5040 mg/L	0.5040 mg/L	06:30:46
1	P 214.914†	8782.5	8592.2	4.546 mg/L	4.546 mg/L	06:30:57

1	Pb 220.353†	8798.4	8378.5	0.4929 mg/L	0.4929 mg/L	06:30:57
1	Sb 206.836†	1195.6	1118.6	0.4615 mg/L	0.4615 mg/L	06:30:57
1	Se 196.026†	1812.8	1747.1	0.9717 mg/L	0.9717 mg/L	06:30:57
1	Sn 189.927†	4197.2	4046.8	0.5020 mg/L	0.5020 mg/L	06:30:57
1	Sr 407.771†	53808.2	52114.7	0.0444 mg/L	0.0444 mg/L	06:30:34
1	Ti 337.279†	483585.8	471871.2	0.4865 mg/L	0.4865 mg/L	06:30:46
1	Tl 190.801†	731.3	718.7	0.5376 mg/L	0.5376 mg/L	06:30:57
1	V 292.402†	125326.4	122856.0	0.4902 mg/L	0.4902 mg/L	06:30:46
1	Zn 213.857†	82616.5	79524.0	0.4847 mg/L	0.4847 mg/L	06:30:46
2	Y 371.029	3462832.4	3462832.4	1.02 mg/L		06:31:00
2	Ag 328.068†	51700.3	49744.3	0.2396 mg/L	0.2396 mg/L	06:31:00
2	Al 237.313†	26483.9	26246.8	2.415 mg/L	2.415 mg/L	06:31:11
2	As 188.979†	779.8	760.3	0.4670 mg/L	0.4670 mg/L	06:31:11
2	B 249.677†	1138.8	1127.2	0.4633 mg/L	0.4633 mg/L	06:30:41
2	B 182.528†	563.1	556.8	0.4613 mg/L	0.4613 mg/L	06:31:11
2	Ba 233.527†	64434.9	63003.1	0.4782 mg/L	0.4782 mg/L	06:31:00
2	Be 313.107†	125504.4	123977.3	0.0438 mg/L	0.0438 mg/L	06:31:00
2	Ca 315.887†	632709.5	618505.9	5.546 mg/L	5.546 mg/L	06:31:00
2	Cd 228.802†	8303.0	7959.8	0.2144 mg/L	0.2144 mg/L	06:31:11
2	Co 228.616†	31356.3	30794.7	0.4880 mg/L	0.4880 mg/L	06:31:11
2	Cr 267.716†	68666.4	66336.2	0.5055 mg/L	0.5055 mg/L	06:31:00
2	Cu 324.752†	124732.0	117833.7	0.5050 mg/L	0.5050 mg/L	06:31:00
2	Fe 234.349†	4865.2	4752.1	2.347 mg/L	2.347 mg/L	06:30:41
2	K 766.490†	55044.8	53001.6	22.78 mg/L	22.78 mg/L	06:30:39
2	Li 670.784†	19753.2	19560.0	0.4612 mg/L	0.4612 mg/L	06:30:41
2	Mg 279.077†	84719.6	82433.8	5.352 mg/L	5.352 mg/L	06:31:00
2	Mn 257.610†	488163.5	460596.7	0.4949 mg/L	0.4949 mg/L	06:31:00
2	Mn 294.920†	231994.3	227163.6	0.4844 mg/L	0.4844 mg/L	06:31:00
2	Mo 202.031†	13095.3	12796.9	0.4803 mg/L	0.4803 mg/L	06:31:11
2	Na 589.592†	180178.5	171702.8	23.09 mg/L	23.09 mg/L	06:30:39
2	Ni 231.604†	27768.9	26936.8	0.5014 mg/L	0.5014 mg/L	06:31:00
2	P 214.914†	8749.9	8589.6	4.544 mg/L	4.544 mg/L	06:31:11
2	Pb 220.353†	8809.1	8418.3	0.4952 mg/L	0.4952 mg/L	06:31:11
2	Sb 206.836†	1197.4	1124.4	0.4639 mg/L	0.4639 mg/L	06:31:11
2	Se 196.026†	1798.8	1739.6	0.9675 mg/L	0.9675 mg/L	06:31:11
2	Sn 189.927†	4181.5	4045.5	0.5018 mg/L	0.5018 mg/L	06:31:11
2	Sr 407.771†	54191.5	52667.8	0.0449 mg/L	0.0449 mg/L	06:30:39
2	Ti 337.279†	481410.0	471354.6	0.4859 mg/L	0.4859 mg/L	06:31:00
2	Tl 190.801†	740.0	729.6	0.5459 mg/L	0.5459 mg/L	06:31:11
2	V 292.402†	124846.1	122803.6	0.4900 mg/L	0.4900 mg/L	06:31:00
2	Zn 213.857†	82289.5	79479.4	0.4845 mg/L	0.4845 mg/L	06:31:00

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3468748.3	1.03 mg/L	0.002			0.24%
Ag 328.068†	49785.5	0.2398 mg/L	0.00028	0.2398 mg/L	0.00028	0.12%
QC value within limits for Ag 328.068 Recovery = 95.92%						
Al 237.313†	26240.4	2.415 mg/L	0.0008	2.415 mg/L	0.0008	0.03%
QC value within limits for Al 237.313 Recovery = 96.58%						
As 188.979†	762.7	0.4684 mg/L	0.00202	0.4684 mg/L	0.00202	0.43%
QC value within limits for As 188.979 Recovery = 93.68%						
B 249.677†	1151.9	0.4733 mg/L	0.01426	0.4733 mg/L	0.01426	3.01%
QC value within limits for B 249.677 Recovery = 94.67%						
B 182.528†	552.3	0.4577 mg/L	0.00520	0.4577 mg/L	0.00520	1.14%
QC value within limits for B 182.528 Recovery = 91.53%						
Ba 233.527†	63087.2	0.4789 mg/L	0.00090	0.4789 mg/L	0.00090	0.19%
QC value within limits for Ba 233.527 Recovery = 95.77%						
Be 313.107†	124072.1	0.0439 mg/L	0.00005	0.0439 mg/L	0.00005	0.11%
QC value less than the lower limit for Be 313.107 Recovery = 87.71%						
Ca 315.887†	619038.4	5.550 mg/L	0.0067	5.550 mg/L	0.0067	0.12%
QC value greater than the upper limit for Ca 315.887 Recovery = 111.01%						
Cd 228.802†	7962.6	0.2144 mg/L	0.00010	0.2144 mg/L	0.00010	0.05%
QC value less than the lower limit for Cd 228.802 Recovery = 85.77%						
Co 228.616†	30752.6	0.4873 mg/L	0.00095	0.4873 mg/L	0.00095	0.20%
QC value within limits for Co 228.616 Recovery = 97.47%						
Cr 267.716†	66384.3	0.5058 mg/L	0.00052	0.5058 mg/L	0.00052	0.10%
QC value within limits for Cr 267.716 Recovery = 101.17%						
Cu 324.752†	117879.2	0.5052 mg/L	0.00028	0.5052 mg/L	0.00028	0.05%
QC value within limits for Cu 324.752 Recovery = 101.03%						
Fe 234.349†	4826.0	2.384 mg/L	0.0517	2.384 mg/L	0.0517	2.17%
QC value within limits for Fe 234.349 Recovery = 95.34%						

K 766.490†	52711.9	22.65 mg/L	0.175	22.65 mg/L	0.175	0.77%
QC value within limits for K 766.490 Recovery = 90.61%						
Li 670.784†	19663.7	0.4636 mg/L	0.00344	0.4636 mg/L	0.00344	0.74%
QC value within limits for Li 670.784 Recovery = 92.73%						
Mg 279.077†	82495.7	5.356 mg/L	0.0057	5.356 mg/L	0.0057	0.11%
QC value within limits for Mg 279.077 Recovery = 107.11%						
Mn 257.610†	460696.1	0.4950 mg/L	0.00014	0.4950 mg/L	0.00014	0.03%
QC value within limits for Mn 257.610 Recovery = 99.00%						
Mn 294.920†	227277.5	0.4846 mg/L	0.00034	0.4846 mg/L	0.00034	0.07%
QC value within limits for Mn 294.920 Recovery = 96.92%						
Mo 202.031†	12780.7	0.4797 mg/L	0.00087	0.4797 mg/L	0.00087	0.18%
QC value within limits for Mo 202.031 Recovery = 95.94%						
Na 589.592†	170687.7	22.96 mg/L	0.192	22.96 mg/L	0.192	0.84%
QC value within limits for Na 589.592 Recovery = 91.83%						
Ni 231.604†	27006.5	0.5027 mg/L	0.00183	0.5027 mg/L	0.00183	0.36%
QC value within limits for Ni 231.604 Recovery = 100.55%						
P 214.914†	8590.9	4.545 mg/L	0.0010	4.545 mg/L	0.0010	0.02%
QC value within limits for P 214.914 Recovery = 90.90%						
Pb 220.353†	8398.4	0.4941 mg/L	0.00165	0.4941 mg/L	0.00165	0.33%
QC value within limits for Pb 220.353 Recovery = 98.82%						
Sb 206.836†	1121.5	0.4627 mg/L	0.00171	0.4627 mg/L	0.00171	0.37%
QC value within limits for Sb 206.836 Recovery = 92.54%						
Se 196.026†	1743.3	0.9696 mg/L	0.00296	0.9696 mg/L	0.00296	0.31%
QC value within limits for Se 196.026 Recovery = 96.96%						
Sn 189.927†	4046.1	0.5019 mg/L	0.00012	0.5019 mg/L	0.00012	0.02%
QC value within limits for Sn 189.927 Recovery = 100.38%						
Sr 407.771†	52391.3	0.0446 mg/L	0.00033	0.0446 mg/L	0.00033	0.74%
QC value less than the lower limit for Sr 407.771 Recovery = 89.29%						
Ti 337.279†	471612.9	0.4862 mg/L	0.00037	0.4862 mg/L	0.00037	0.08%
QC value within limits for Ti 337.279 Recovery = 97.24%						
Tl 190.801†	724.2	0.5418 mg/L	0.00586	0.5418 mg/L	0.00586	1.08%
QC value within limits for Tl 190.801 Recovery = 108.36%						
V 292.402†	122829.8	0.4901 mg/L	0.00013	0.4901 mg/L	0.00013	0.03%
QC value within limits for V 292.402 Recovery = 98.03%						
Zn 213.857†	79501.7	0.4846 mg/L	0.00018	0.4846 mg/L	0.00018	0.04%
QC value within limits for Zn 213.857 Recovery = 96.92%						
QC Failed. Continue with analysis.						

Sequence No.: 220
Sample ID: CCB1
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/26/2013 6:32:49 AM
Data Type: Reprocessed on 6/26/2013 10:58:31 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3483574.0	3483574.0	1.03 mg/L			06:34:54
1	Ag 328.068†	816.2	55.4	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	06:34:57
1	Al 237.313†	-328.5	68.6	0.0134 mg/L	0.0134 mg/L	0.0134 mg/L	06:34:57
1	As 188.979†	-1.8	-2.8	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	06:35:07
1	B 249.677†	-7.4	8.0	0.0058 mg/L	0.0058 mg/L	0.0058 mg/L	06:34:38
1	B 182.528†	-5.4	1.7	0.0053 mg/L	0.0053 mg/L	0.0053 mg/L	06:35:07
1	Ba 233.527†	-25.4	63.1	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	06:35:07
1	Be 313.107†	-1293.6	177.2	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	06:34:57
1	Ca 315.887†	684.4	1382.3	0.0207 mg/L	0.0207 mg/L	0.0207 mg/L	06:34:57
1	Cd 228.802†	147.0	-4.7	0.0014 mg/L	0.0014 mg/L	0.0014 mg/L	06:35:07
1	Co 228.616†	-152.9	29.5	-0.0016 mg/L	-0.0016 mg/L	-0.0016 mg/L	06:35:07
1	Cr 267.716†	716.3	-15.6	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	06:34:57
1	Cu 324.752†	3841.1	-228.5	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	06:34:57
1	Fe 234.349†	29.0	29.8	0.0254 mg/L	0.0254 mg/L	0.0254 mg/L	06:34:38
1	K 766.490†	734.6	-32.1	0.1297 mg/L	0.1297 mg/L	0.1297 mg/L	06:34:28
1	Li 670.784†	-289.6	-8.5	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	06:34:28
1	Mg 279.077†	349.5	51.4	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	06:34:57
1	Mn 257.610†	16906.7	355.5	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	06:34:57
1	Mn 294.920†	18.1	658.2	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	06:34:57
1	Mo 202.031†	16.9	26.9	0.0038 mg/L	0.0038 mg/L	0.0038 mg/L	06:35:07
1	Na 589.592†	6394.1	1979.6	0.3524 mg/L	0.3524 mg/L	0.3524 mg/L	06:34:28
1	Ni 231.604†	159.0	-22.8	-0.0009 mg/L	-0.0009 mg/L	-0.0009 mg/L	06:34:57
1	P 214.914†	-12.7	33.7	0.0662 mg/L	0.0662 mg/L	0.0662 mg/L	06:35:07

1	Pb 220.353†	243.7	53.4	0.0051 mg/L	0.0051 mg/L	06:35:07
1	Sb 206.836†	39.2	-6.8	0.0016 mg/L	0.0016 mg/L	06:35:07
1	Se 196.026†	15.3	-2.0	0.0033 mg/L	0.0033 mg/L	06:35:07
1	Sn 189.927†	54.8	15.7	0.0035 mg/L	0.0035 mg/L	06:35:07
1	Sr 407.771†	371.7	115.1	0.0004 mg/L	0.0004 mg/L	06:34:28
1	Ti 337.279†	-788.8	532.3	0.0033 mg/L	0.0033 mg/L	06:34:57
1	Tl 190.801†	-8.0	-0.7	-0.0009 mg/L	-0.0009 mg/L	06:35:07
1	V 292.402†	-829.1	97.1	0.0027 mg/L	0.0027 mg/L	06:34:57
1	Zn 213.857†	891.3	-4.3	0.0005 mg/L	0.0005 mg/L	06:35:07
2	Y 371.029	3514218.4	3514218.4	1.04 mg/L		06:35:09
2	Ag 328.068†	657.5	-104.2	0.0002 mg/L	0.0002 mg/L	06:35:11
2	Al 237.313†	-319.7	79.8	0.0144 mg/L	0.0144 mg/L	06:35:11
2	As 188.979†	7.4	6.1	0.0064 mg/L	0.0064 mg/L	06:35:22
2	B 249.677†	-12.9	2.8	0.0037 mg/L	0.0037 mg/L	06:34:51
2	B 182.528†	-3.0	4.1	0.0073 mg/L	0.0073 mg/L	06:35:22
2	Ba 233.527†	-38.3	50.9	0.0010 mg/L	0.0010 mg/L	06:35:22
2	Be 313.107†	-1297.2	184.7	0.0003 mg/L	0.0003 mg/L	06:35:11
2	Ca 315.887†	710.8	1401.8	0.0208 mg/L	0.0208 mg/L	06:35:11
2	Cd 228.802†	157.8	4.4	0.0016 mg/L	0.0016 mg/L	06:35:22
2	Co 228.616†	-171.4	13.0	-0.0019 mg/L	-0.0019 mg/L	06:35:22
2	Cr 267.716†	649.3	-86.1	-0.0001 mg/L	-0.0001 mg/L	06:35:11
2	Cu 324.752†	3848.9	-253.5	0.0002 mg/L	0.0002 mg/L	06:35:11
2	Fe 234.349†	41.4	41.5	0.0311 mg/L	0.0311 mg/L	06:34:51
2	K 766.490†	807.9	32.2	0.1572 mg/L	0.1572 mg/L	06:34:41
2	Li 670.784†	-177.2	102.1	0.0043 mg/L	0.0043 mg/L	06:34:41
2	Mg 279.077†	319.1	19.2	-0.0008 mg/L	-0.0008 mg/L	06:35:11
2	Mn 257.610†	16891.2	197.4	0.0001 mg/L	0.0001 mg/L	06:35:11
2	Mn 294.920†	61.4	699.7	0.0013 mg/L	0.0013 mg/L	06:35:11
2	Mo 202.031†	12.3	22.3	0.0036 mg/L	0.0036 mg/L	06:35:22
2	Na 589.592†	6249.3	1786.2	0.3265 mg/L	0.3265 mg/L	06:34:41
2	Ni 231.604†	119.4	-62.3	-0.0017 mg/L	-0.0017 mg/L	06:35:11
2	P 214.914†	-13.8	32.8	0.0657 mg/L	0.0657 mg/L	06:35:22
2	Pb 220.353†	208.2	17.2	0.0029 mg/L	0.0029 mg/L	06:35:22
2	Sb 206.836†	51.8	5.0	0.0064 mg/L	0.0064 mg/L	06:35:22
2	Se 196.026†	17.8	0.3	0.0046 mg/L	0.0046 mg/L	06:35:22
2	Sn 189.927†	42.1	3.0	0.0020 mg/L	0.0020 mg/L	06:35:22
2	Sr 407.771†	240.7	-14.0	0.0003 mg/L	0.0003 mg/L	06:34:41
2	Ti 337.279†	-1108.1	231.7	0.0030 mg/L	0.0030 mg/L	06:35:11
2	Tl 190.801†	-5.5	1.9	0.0010 mg/L	0.0010 mg/L	06:35:22
2	V 292.402†	-1009.0	-68.9	0.0021 mg/L	0.0021 mg/L	06:35:11
2	Zn 213.857†	924.2	19.8	0.0006 mg/L	0.0006 mg/L	06:35:22

Mean Data: CCBI

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3498896.2	1.03 mg/L	0.006			0.62%
Ag 328.068†	-24.4	0.0005 mg/L	0.00054	0.0005 mg/L	0.00054	101.39%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	74.2	0.0139 mg/L	0.00073	0.0139 mg/L	0.00073	5.24%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.7	0.0036 mg/L	0.00387	0.0036 mg/L	0.00387	106.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.4	0.0047 mg/L	0.00150	0.0047 mg/L	0.00150	31.79%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	2.9	0.0063 mg/L	0.00138	0.0063 mg/L	0.00138	21.88%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	57.0	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	6.36%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	180.9	0.0003 mg/L	0.00000	0.0003 mg/L	0.00000	0.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	1392.1	0.0207 mg/L	0.00012	0.0207 mg/L	0.00012	0.58%
QC value within limits for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	-0.1	0.0015 mg/L	0.00017	0.0015 mg/L	0.00017	11.56%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	21.3	-0.0017 mg/L	0.00019	-0.0017 mg/L	0.00019	10.69%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-50.9	0.0001 mg/L	0.00038	0.0001 mg/L	0.00038	312.99%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-241.0	0.0003 mg/L	0.00008	0.0003 mg/L	0.00008	26.40%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	35.7	0.0282 mg/L	0.00408	0.0282 mg/L	0.00408	14.45%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						

1	Pb 220.353†	4867.8	4414.2	0.2177 mg/L	0.2177 mg/L	06:39:08
1	Sb 206.836†	154.0	100.7	-0.1206 mg/L	-0.1206 mg/L	06:39:08
1	Se 196.026†	-122.7	-132.7	-0.0463 mg/L	-0.0463 mg/L	06:39:08
1	Sn 189.927†	-413.2	-427.7	-0.0302 mg/L	-0.0302 mg/L	06:39:08
1	Sr 407.771†	218592.8	206201.9	0.1748 mg/L	0.1748 mg/L	06:38:42
1	Ti 337.279†	2577405.8	2435499.7	2.499 mg/L	2.499 mg/L	06:38:58
1	Tl 190.801†	-39.3	-30.0	-0.1993 mg/L	-0.1993 mg/L	06:39:08
1	V 292.402†	78604.0	75138.5	0.2918 mg/L	0.2918 mg/L	06:38:58
1	Zn 213.857†	157560.4	147936.7	0.8890 mg/L	0.8890 mg/L	06:38:58
2	Y 371.029	3548899.9	3548899.9	1.05 mg/L	1.05 mg/L	06:39:16
2	Ag 328.068†	-1598.9	-2260.1	-0.0003 mg/L	-0.0003 mg/L	06:39:16
2	Al 237.313†	1954548.7	1862557.5	170.8 mg/L	170.8 mg/L	06:39:16
2	As 188.979†	260.2	246.9	0.1532 mg/L	0.1532 mg/L	06:39:26
2	B 249.677†	-88.4	-69.0	-0.0256 mg/L	-0.0256 mg/L	06:38:49
2	B 182.528†	56.5	60.8	0.0538 mg/L	0.0538 mg/L	06:39:26
2	Ba 233.527†	38599.4	36862.8	0.2801 mg/L	0.2801 mg/L	06:39:16
2	Be 313.107†	25059.2	25307.6	0.0086 mg/L	0.0086 mg/L	06:39:16
2	Ca 315.887†	4004023.4	3815497.4	34.16 mg/L	34.16 mg/L	06:39:12
2	Cd 228.802†	339.2	175.8	-0.0005 mg/L	-0.0005 mg/L	06:39:26
2	Co 228.616†	11290.2	10934.5	0.1669 mg/L	0.1669 mg/L	06:39:26
2	Cr 267.716†	39467.2	36891.0	0.2811 mg/L	0.2811 mg/L	06:39:16
2	Cu 324.752†	98516.4	89903.5	0.3883 mg/L	0.3883 mg/L	06:39:16
2	Fe 234.349†	833365.7	793979.6	393.1 mg/L	393.1 mg/L	06:38:47
2	K 766.490†	36835.0	34349.0	14.81 mg/L	14.81 mg/L	06:38:49
2	Li 670.784†	22921.2	22110.5	0.5211 mg/L	0.5211 mg/L	06:38:49
2	Mg 279.077†	1390333.1	1324333.3	86.01 mg/L	86.01 mg/L	06:39:16
2	Mn 257.610†	9719715.9	9244274.5	9.856 mg/L	9.856 mg/L	06:39:12
2	Mn 294.920†	4960402.2	4726597.1	10.08 mg/L	10.08 mg/L	06:39:12
2	Mo 202.031†	241.7	240.7	-0.0493 mg/L	-0.0493 mg/L	06:39:16
2	Na 589.592†	35847.8	29927.0	4.097 mg/L	4.097 mg/L	06:38:49
2	Ni 231.604†	19971.8	18850.7	0.3503 mg/L	0.3503 mg/L	06:39:16
2	P 214.914†	14029.6	13412.6	7.078 mg/L	7.078 mg/L	06:39:26
2	Pb 220.353†	4919.3	4503.7	0.2229 mg/L	0.2229 mg/L	06:39:26
2	Sb 206.836†	159.4	107.1	-0.1212 mg/L	-0.1212 mg/L	06:39:26
2	Se 196.026†	-144.8	-154.8	-0.0581 mg/L	-0.0581 mg/L	06:39:26
2	Sn 189.927†	-430.1	-447.3	-0.0322 mg/L	-0.0322 mg/L	06:39:26
2	Sr 407.771†	220556.4	209886.5	0.1780 mg/L	0.1780 mg/L	06:38:47
2	Ti 337.279†	2556242.6	2436723.7	2.501 mg/L	2.501 mg/L	06:39:16
2	Tl 190.801†	-30.0	-21.5	-0.1963 mg/L	-0.1963 mg/L	06:39:26
2	V 292.402†	77890.9	75111.4	0.2917 mg/L	0.2917 mg/L	06:39:16
2	Zn 213.857†	156348.5	148089.6	0.8896 mg/L	0.8896 mg/L	06:39:16

Mean Data: 1306396-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3564490.3	1.05	mg/L	0.007				0.62%
Ag 328.068†	-2216.8	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	81.74%
Al 237.313†	1861870.6	170.7	mg/L	0.09	170.7	mg/L	0.09	0.05%
As 188.979†	242.8	0.1507	mg/L	0.00350	0.1507	mg/L	0.00350	2.32%
B 249.677†	-71.8	-0.0268	mg/L	0.00165	-0.0268	mg/L	0.00165	6.15%
B 182.528†	62.0	0.0548	mg/L	0.00141	0.0548	mg/L	0.00141	2.57%
Ba 233.527†	36891.8	0.2803	mg/L	0.00031	0.2803	mg/L	0.00031	0.11%
Be 313.107†	25236.5	0.0085	mg/L	0.00004	0.0085	mg/L	0.00004	0.41%
Ca 315.887†	3785658.7	33.89	mg/L	0.378	33.89	mg/L	0.378	1.11%
Cd 228.802†	173.2	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	1.42%
Co 228.616†	10870.4	0.1658	mg/L	0.00145	0.1658	mg/L	0.00145	0.87%
Cr 267.716†	36848.9	0.2808	mg/L	0.00045	0.2808	mg/L	0.00045	0.16%
Cu 324.752†	89905.8	0.3883	mg/L	0.00001	0.3883	mg/L	0.00001	0.00%
Fe 234.349†	786327.1	389.3	mg/L	5.36	389.3	mg/L	5.36	1.38%
K 766.490†	34276.4	14.78	mg/L	0.044	14.78	mg/L	0.044	0.30%
Li 670.784†	22142.8	0.5219	mg/L	0.00108	0.5219	mg/L	0.00108	0.21%
Mg 279.077†	1321972.3	85.86	mg/L	0.217	85.86	mg/L	0.217	0.25%
Mn 257.610†	9177965.4	9.785	mg/L	0.0997	9.785	mg/L	0.0997	1.02%
Mn 294.920†	4691584.1	10.01	mg/L	0.106	10.01	mg/L	0.106	1.06%
Mo 202.031†	222.5	-0.0494	mg/L	0.00016	-0.0494	mg/L	0.00016	0.33%
Na 589.592†	29810.3	4.081	mg/L	0.0221	4.081	mg/L	0.0221	0.54%
Ni 231.604†	18763.4	0.3486	mg/L	0.00230	0.3486	mg/L	0.00230	0.66%
P 214.914†	13316.4	7.027	mg/L	0.0713	7.027	mg/L	0.0713	1.01%
Pb 220.353†	4459.0	0.2203	mg/L	0.00368	0.2203	mg/L	0.00368	1.67%
Sb 206.836†	103.9	-0.1209	mg/L	0.00041	-0.1209	mg/L	0.00041	0.34%
Se 196.026†	-143.8	-0.0522	mg/L	0.00833	-0.0522	mg/L	0.00833	15.96%
Sn 189.927†	-437.5	-0.0312	mg/L	0.00146	-0.0312	mg/L	0.00146	4.69%

Sr 407.771†	208044.2	0.1764 mg/L	0.00221	0.1764 mg/L	0.00221	1.25%
Ti 337.279†	2436111.7	2.500 mg/L	0.00009	2.500 mg/L	0.00009	0.04%
Tl 190.801†	-25.8	-0.1978 mg/L	0.00213	-0.1978 mg/L	0.00213	1.07%
V 292.402†	75125.0	0.2918 mg/L	0.00006	0.2918 mg/L	0.00006	0.02%
Zn 213.857†	148013.1	0.8893 mg/L	0.00041	0.8893 mg/L	0.00041	0.05%

Sequence No.: 222
Sample ID: CF32510-DUP2
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/26/2013 6:42:34 AM
Data Type: Reprocessed on 6/26/2013 10:58:32 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32510-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3518732.2	3518732.2	1.04 mg/L		06:44:29
1	Ag 328.068†	-1136.3	-1828.7	0.0005 mg/L	0.0005 mg/L	06:44:31
1	Al 237.313†	1724891.9	1657844.4	152.0 mg/L	152.0 mg/L	06:44:29
1	As 188.979†	233.1	223.0	0.1386 mg/L	0.1386 mg/L	06:44:41
1	B 249.677†	-85.8	-67.2	-0.0249 mg/L	-0.0249 mg/L	06:44:19
1	B 182.528†	57.0	61.7	0.0546 mg/L	0.0546 mg/L	06:44:41
1	Ba 233.527†	24793.4	23911.8	0.1819 mg/L	0.1819 mg/L	06:44:31
1	Be 313.107†	18676.9	19379.5	0.0067 mg/L	0.0067 mg/L	06:44:31
1	Ca 315.887†	2940923.8	2826665.8	25.31 mg/L	25.31 mg/L	06:44:29
1	Cd 228.802†	299.3	140.2	-0.0006 mg/L	-0.0006 mg/L	06:44:41
1	Co 228.616†	9977.7	9765.5	0.1501 mg/L	0.1501 mg/L	06:44:41
1	Cr 267.716†	35327.7	33235.7	0.2533 mg/L	0.2533 mg/L	06:44:31
1	Cu 324.752†	87951.3	80556.1	0.3474 mg/L	0.3474 mg/L	06:44:31
1	Fe 234.349†	719845.6	691704.8	342.5 mg/L	342.5 mg/L	06:44:16
1	K 766.490†	28039.0	26197.8	11.33 mg/L	11.33 mg/L	06:44:19
1	Li 670.784†	20284.9	19764.4	0.4660 mg/L	0.4660 mg/L	06:44:19
1	Mg 279.077†	1227017.2	1178758.9	76.55 mg/L	76.55 mg/L	06:44:29
1	Mn 257.610†	7656236.7	7340860.5	7.819 mg/L	7.819 mg/L	06:44:29
1	Mn 294.920†	3890993.3	3739514.8	7.976 mg/L	7.976 mg/L	06:44:29
1	Mo 202.031†	178.3	181.7	-0.0437 mg/L	-0.0437 mg/L	06:44:31
1	Na 589.592†	31135.6	25691.9	3.530 mg/L	3.530 mg/L	06:44:19
1	Ni 231.604†	18166.8	17279.5	0.3210 mg/L	0.3210 mg/L	06:44:31
1	P 214.914†	11704.3	11292.7	5.967 mg/L	5.967 mg/L	06:44:41
1	Pb 220.353†	4045.6	3704.3	0.1808 mg/L	0.1808 mg/L	06:44:41
1	Sb 206.836†	144.9	94.4	-0.1046 mg/L	-0.1046 mg/L	06:44:41
1	Se 196.026†	-104.3	-117.1	-0.0402 mg/L	-0.0402 mg/L	06:44:41
1	Sn 189.927†	-357.3	-380.8	-0.0295 mg/L	-0.0295 mg/L	06:44:41
1	Sr 407.771†	181920.6	174562.8	0.1481 mg/L	0.1481 mg/L	06:44:16
1	Ti 337.279†	1642957.9	1580024.0	1.622 mg/L	1.622 mg/L	06:44:29
1	Tl 190.801†	-23.8	-15.7	-0.1682 mg/L	-0.1682 mg/L	06:44:41
1	V 292.402†	68916.9	67124.4	0.2622 mg/L	0.2622 mg/L	06:44:31
1	Zn 213.857†	139670.9	133341.1	0.8015 mg/L	0.8015 mg/L	06:44:31
2	Y 371.029	3546679.3	3546679.3	1.05 mg/L		06:44:45
2	Ag 328.068†	-1104.7	-1790.0	0.0004 mg/L	0.0004 mg/L	06:44:47
2	Al 237.313†	1737244.3	1656559.9	151.9 mg/L	151.9 mg/L	06:44:45
2	As 188.979†	220.3	209.0	0.1301 mg/L	0.1301 mg/L	06:44:57
2	B 249.677†	-105.6	-85.5	-0.0324 mg/L	-0.0324 mg/L	06:44:23
2	B 182.528†	49.7	54.3	0.0485 mg/L	0.0485 mg/L	06:44:57
2	Ba 233.527†	24630.5	23568.8	0.1793 mg/L	0.1793 mg/L	06:44:47
2	Be 313.107†	18464.1	19035.2	0.0066 mg/L	0.0066 mg/L	06:44:47
2	Ca 315.887†	2960715.7	2823266.2	25.28 mg/L	25.28 mg/L	06:44:45
2	Cd 228.802†	301.5	140.0	-0.0004 mg/L	-0.0004 mg/L	06:44:57
2	Co 228.616†	9970.1	9682.8	0.1488 mg/L	0.1488 mg/L	06:44:57
2	Cr 267.716†	35037.3	32691.4	0.2492 mg/L	0.2492 mg/L	06:44:47
2	Cu 324.752†	87185.0	79159.7	0.3414 mg/L	0.3414 mg/L	06:44:47
2	Fe 234.349†	703004.5	670199.1	331.8 mg/L	331.8 mg/L	06:44:21
2	K 766.490†	28232.3	26169.7	11.32 mg/L	11.32 mg/L	06:44:23
2	Li 670.784†	20320.6	19644.9	0.4632 mg/L	0.4632 mg/L	06:44:23
2	Mg 279.077†	1235428.3	1177486.8	76.47 mg/L	76.47 mg/L	06:44:45
2	Mn 257.610†	7708617.9	7332826.1	7.813 mg/L	7.813 mg/L	06:44:45
2	Mn 294.920†	3917981.2	3735781.6	7.968 mg/L	7.968 mg/L	06:44:45
2	Mo 202.031†	194.0	195.3	-0.0416 mg/L	-0.0416 mg/L	06:44:47
2	Na 589.592†	31209.2	25526.3	3.507 mg/L	3.507 mg/L	06:44:23
2	Ni 231.604†	18021.6	17003.4	0.3159 mg/L	0.3159 mg/L	06:44:47
2	P 214.914†	11732.8	11231.3	5.935 mg/L	5.935 mg/L	06:44:57

2	Pb 220.353†	4079.5	3706.0	0.1809 mg/L	0.1809 mg/L	06:44:57
2	Sb 206.836†	148.5	96.8	-0.0991 mg/L	-0.0991 mg/L	06:44:57
2	Se 196.026†	-106.1	-118.0	-0.0413 mg/L	-0.0413 mg/L	06:44:57
2	Sn 189.927†	-353.4	-374.4	-0.0288 mg/L	-0.0288 mg/L	06:44:57
2	Sr 407.771†	178260.2	169695.7	0.1439 mg/L	0.1439 mg/L	06:44:21
2	Ti 337.279†	1652729.7	1576899.8	1.619 mg/L	1.619 mg/L	06:44:45
2	Tl 190.801†	-21.2	-13.1	-0.1615 mg/L	-0.1615 mg/L	06:44:57
2	V 292.402†	68228.9	65946.8	0.2576 mg/L	0.2576 mg/L	06:44:47
2	Zn 213.857†	138107.7	130793.2	0.7864 mg/L	0.7864 mg/L	06:44:47

Mean Data: CF32510-DUP2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3532705.7	1.04	mg/L	0.006				0.56%
Ag 328.068†	-1809.3	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	12.82%
Al 237.313†	1657202.1	151.9	mg/L	0.08	151.9	mg/L	0.08	0.05%
As 188.979†	216.0	0.1343	mg/L	0.00603	0.1343	mg/L	0.00603	4.49%
B 249.677†	-76.4	-0.0286	mg/L	0.00526	-0.0286	mg/L	0.00526	18.39%
B 182.528†	58.0	0.0516	mg/L	0.00431	0.0516	mg/L	0.00431	8.36%
Ba 233.527†	23740.3	0.1806	mg/L	0.00184	0.1806	mg/L	0.00184	1.02%
Be 313.107†	19207.4	0.0066	mg/L	0.00009	0.0066	mg/L	0.00009	1.29%
Ca 315.887†	2824966.0	25.29	mg/L	0.022	25.29	mg/L	0.022	0.09%
Cd 228.802†	140.1	-0.0005	mg/L	0.00012	-0.0005	mg/L	0.00012	25.53%
Co 228.616†	9724.1	0.1495	mg/L	0.00093	0.1495	mg/L	0.00093	0.62%
Cr 267.716†	32963.6	0.2513	mg/L	0.00293	0.2513	mg/L	0.00293	1.17%
Cu 324.752†	79857.9	0.3444	mg/L	0.00422	0.3444	mg/L	0.00422	1.23%
Fe 234.349†	680951.9	337.1	mg/L	7.53	337.1	mg/L	7.53	2.23%
K 766.490†	26183.7	11.32	mg/L	0.008	11.32	mg/L	0.008	0.07%
Li 670.784†	19704.7	0.4646	mg/L	0.00198	0.4646	mg/L	0.00198	0.43%
Mg 279.077†	1178122.8	76.51	mg/L	0.058	76.51	mg/L	0.058	0.08%
Mn 257.610†	7336843.3	7.816	mg/L	0.0044	7.816	mg/L	0.0044	0.06%
Mn 294.920†	3737648.2	7.972	mg/L	0.0056	7.972	mg/L	0.0056	0.07%
Mo 202.031†	188.5	-0.0426	mg/L	0.00151	-0.0426	mg/L	0.00151	3.55%
Na 589.592†	25609.1	3.519	mg/L	0.0157	3.519	mg/L	0.0157	0.45%
Ni 231.604†	17141.4	0.3184	mg/L	0.00363	0.3184	mg/L	0.00363	1.14%
P 214.914†	11262.0	5.951	mg/L	0.0228	5.951	mg/L	0.0228	0.38%
Pb 220.353†	3705.2	0.1809	mg/L	0.00009	0.1809	mg/L	0.00009	0.05%
Sb 206.836†	95.6	-0.1019	mg/L	0.00391	-0.1019	mg/L	0.00391	3.84%
Se 196.026†	-117.6	-0.0407	mg/L	0.00082	-0.0407	mg/L	0.00082	2.01%
Sn 189.927†	-377.6	-0.0292	mg/L	0.00055	-0.0292	mg/L	0.00055	1.87%
Sr 407.771†	172129.2	0.1460	mg/L	0.00291	0.1460	mg/L	0.00291	2.00%
Ti 337.279†	1578461.9	1.621	mg/L	0.0023	1.621	mg/L	0.0023	0.14%
Tl 190.801†	-14.4	-0.1648	mg/L	0.00473	-0.1648	mg/L	0.00473	2.87%
V 292.402†	66535.6	0.2599	mg/L	0.00325	0.2599	mg/L	0.00325	1.25%
Zn 213.857†	132067.1	0.7939	mg/L	0.01070	0.7939	mg/L	0.01070	1.35%

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Sequence No.: 223	Autosampler Location: 18
Sample ID: CF32510-MS2	Date Collected: 6/26/2013 6:48:07 AM
Analyst:	Data Type: Reprocessed on 6/26/2013 10:58:32 AM
Logged In Analyst (Original) : ICP3	
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CF32510-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	Y 371.029	3587416.3	3587416.3	1.06		mg/L	06:50:08
1	Ag 328.068†	41599.8	38471.3	0.1942	0.1942	mg/L	06:50:08
1	Al 237.313†	1842468.4	1736927.6	159.2	159.2	mg/L	06:50:08
1	As 188.979†	857.7	807.3	0.4954	0.4954	mg/L	06:50:18
1	B 249.677†	795.3	764.8	0.3152	0.3152	mg/L	06:49:54
1	B 182.528†	463.3	443.6	0.3683	0.3683	mg/L	06:50:18
1	Ba 233.527†	79902.6	75396.5	0.5722	0.5722	mg/L	06:50:08
1	Be 313.107†	126756.9	120902.1	0.0424	0.0424	mg/L	06:50:08
1	Ca 315.887†	4166838.8	3927994.6	35.17	35.17	mg/L	06:50:04
1	Cd 228.802†	7200.2	6638.8	0.1731	0.1731	mg/L	06:50:18
1	Co 228.616†	36669.5	34739.2	0.5478	0.5478	mg/L	06:50:18
1	Cr 267.716†	95192.1	89008.5	0.6779	0.6779	mg/L	06:50:08
1	Cu 324.752†	194015.7	178904.6	0.7676	0.7676	mg/L	06:50:08
1	Fe 234.349†	751614.4	708403.8	350.7	350.7	mg/L	06:49:52

1	K 766.490†	71031.4	30.48 mg/L	30.48 mg/L	06:49:54
1	Li 670.784†	39740.8	0.8878 mg/L	0.8878 mg/L	06:49:54
1	Mg 279.077†	1389307.5	85.02 mg/L	85.02 mg/L	06:50:08
1	Mn 257.610†	8795947.7	8.822 mg/L	8.822 mg/L	06:50:04
1	Mn 294.920†	4476830.7	9.001 mg/L	9.001 mg/L	06:50:04
1	Mo 202.031†	10876.5	0.3314 mg/L	0.3314 mg/L	06:50:08
1	Na 589.592†	186224.1	23.04 mg/L	23.04 mg/L	06:49:52
1	Ni 231.604†	41813.4	0.7301 mg/L	0.7301 mg/L	06:50:08
1	P 214.914†	20802.2	10.34 mg/L	10.34 mg/L	06:50:08
1	Pb 220.353†	11397.9	0.5812 mg/L	0.5812 mg/L	06:50:18
1	Sb 206.836†	538.4	0.0427 mg/L	0.0427 mg/L	06:50:18
1	Se 196.026†	1332.8	0.7111 mg/L	0.7111 mg/L	06:50:18
1	Sn 189.927†	3050.2	0.3718 mg/L	0.3718 mg/L	06:50:18
1	Sr 407.771†	246236.5	0.1965 mg/L	0.1965 mg/L	06:49:52
1	Ti 337.279†	1973359.9	1.911 mg/L	1.911 mg/L	06:50:08
1	Tl 190.801†	600.2	0.2688 mg/L	0.2688 mg/L	06:50:18
1	V 292.402†	181169.7	0.6771 mg/L	0.6771 mg/L	06:50:08
1	Zn 213.857†	211031.0	1.195 mg/L	1.195 mg/L	06:50:08
2	Y 371.029	3589469.9	1.06 mg/L		06:50:25
2	Ag 328.068†	41669.4	0.1943 mg/L	0.1943 mg/L	06:50:25
2	Al 237.313†	1848689.8	159.7 mg/L	159.7 mg/L	06:50:25
2	As 188.979†	842.7	0.4865 mg/L	0.4865 mg/L	06:50:35
2	B 249.677†	805.6	0.3190 mg/L	0.3190 mg/L	06:49:58
2	B 182.528†	475.8	0.3778 mg/L	0.3778 mg/L	06:50:35
2	Ba 233.527†	80319.8	0.5748 mg/L	0.5748 mg/L	06:50:25
2	Be 313.107†	127494.0	0.0426 mg/L	0.0426 mg/L	06:50:25
2	Ca 315.887†	4183435.0	35.29 mg/L	35.29 mg/L	06:50:22
2	Cd 228.802†	7148.5	0.1718 mg/L	0.1718 mg/L	06:50:35
2	Co 228.616†	36561.8	0.5458 mg/L	0.5458 mg/L	06:50:35
2	Cr 267.716†	95360.5	0.6787 mg/L	0.6787 mg/L	06:50:25
2	Cu 324.752†	194846.4	0.7705 mg/L	0.7705 mg/L	06:50:25
2	Fe 234.349†	739174.2	344.7 mg/L	344.7 mg/L	06:49:56
2	K 766.490†	75463.0	30.18 mg/L	30.18 mg/L	06:49:58
2	Li 670.784†	39243.6	0.8763 mg/L	0.8763 mg/L	06:49:58
2	Mg 279.077†	1393761.4	85.24 mg/L	85.24 mg/L	06:50:25
2	Mn 257.610†	8832045.2	8.854 mg/L	8.854 mg/L	06:50:22
2	Mn 294.920†	4496422.5	9.036 mg/L	9.036 mg/L	06:50:22
2	Mo 202.031†	10907.5	0.3331 mg/L	0.3331 mg/L	06:50:25
2	Na 589.592†	183654.8	22.70 mg/L	22.70 mg/L	06:49:56
2	Ni 231.604†	42107.8	0.7348 mg/L	0.7348 mg/L	06:50:25
2	P 214.914†	20944.0	10.41 mg/L	10.41 mg/L	06:50:25
2	Pb 220.353†	11363.5	0.5788 mg/L	0.5788 mg/L	06:50:35
2	Sb 206.836†	554.7	0.0514 mg/L	0.0514 mg/L	06:50:35
2	Se 196.026†	1313.4	0.7003 mg/L	0.7003 mg/L	06:50:35
2	Sn 189.927†	3022.1	0.3684 mg/L	0.3684 mg/L	06:50:35
2	Sr 407.771†	242423.7	0.1934 mg/L	0.1934 mg/L	06:49:56
2	Ti 337.279†	1978330.4	1.914 mg/L	1.914 mg/L	06:50:25
2	Tl 190.801†	594.3	0.2669 mg/L	0.2669 mg/L	06:50:35
2	V 292.402†	181952.4	0.6796 mg/L	0.6796 mg/L	06:50:25
2	Zn 213.857†	211993.3	1.200 mg/L	1.200 mg/L	06:50:25

Mean Data: CF32510-MS2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3588443.1	1.06 mg/L	0.000			0.04%
Ag 328.068†	38492.9	0.1943 mg/L	0.00004	0.1943 mg/L	0.00004	0.02%
Al 237.313†	1739361.1	159.5 mg/L	0.32	159.5 mg/L	0.32	0.20%
As 188.979†	800.0	0.4909 mg/L	0.00632	0.4909 mg/L	0.00632	1.29%
B 249.677†	769.4	0.3171 mg/L	0.00268	0.3171 mg/L	0.00268	0.84%
B 182.528†	449.4	0.3731 mg/L	0.00672	0.3731 mg/L	0.00672	1.80%
Ba 233.527†	75571.5	0.5735 mg/L	0.00188	0.5735 mg/L	0.00188	0.33%
Be 313.107†	121215.1	0.0425 mg/L	0.00016	0.0425 mg/L	0.00016	0.37%
Ca 315.887†	3934687.8	35.23 mg/L	0.085	35.23 mg/L	0.085	0.24%
Cd 228.802†	6612.5	0.1724 mg/L	0.00092	0.1724 mg/L	0.00092	0.54%
Co 228.616†	34678.6	0.5468 mg/L	0.00137	0.5468 mg/L	0.00137	0.25%
Cr 267.716†	89062.1	0.6783 mg/L	0.00058	0.6783 mg/L	0.00058	0.09%
Cu 324.752†	179243.5	0.7690 mg/L	0.00205	0.7690 mg/L	0.00205	0.27%
Fe 234.349†	702342.1	347.7 mg/L	4.24	347.7 mg/L	4.24	1.22%
K 766.490†	70685.0	30.33 mg/L	0.209	30.33 mg/L	0.209	0.69%
Li 670.784†	37483.7	0.8821 mg/L	0.00813	0.8821 mg/L	0.00813	0.92%
Mg 279.077†	1310868.0	85.13 mg/L	0.158	85.13 mg/L	0.158	0.19%
Mn 257.610†	8288822.0	8.838 mg/L	0.0232	8.838 mg/L	0.0232	0.26%

Mn 294.920†	4228107.4	9.019 mg/L	0.0242	9.019 mg/L	0.0242	0.27%
Mo 202.031†	10273.3	0.3322 mg/L	0.00125	0.3322 mg/L	0.00125	0.38%
Na 589.592†	170030.8	22.87 mg/L	0.239	22.87 mg/L	0.239	1.04%
Ni 231.604†	39359.7	0.7325 mg/L	0.00335	0.7325 mg/L	0.00335	0.46%
P 214.914†	19713.4	10.38 mg/L	0.045	10.38 mg/L	0.045	0.44%
Pb 220.353†	10540.2	0.5800 mg/L	0.00167	0.5800 mg/L	0.00167	0.29%
Sb 206.836†	470.2	0.0470 mg/L	0.00616	0.0470 mg/L	0.00616	13.10%
Se 196.026†	1229.8	0.7057 mg/L	0.00768	0.7057 mg/L	0.00768	1.09%
Sn 189.927†	2823.3	0.3701 mg/L	0.00239	0.3701 mg/L	0.00239	0.65%
Sr 407.771†	229972.0	0.1950 mg/L	0.00223	0.1950 mg/L	0.00223	1.14%
Ti 337.279†	1863013.4	1.912 mg/L	0.0026	1.912 mg/L	0.0026	0.14%
Tl 190.801†	569.9	0.2678 mg/L	0.00131	0.2678 mg/L	0.00131	0.49%
V 292.402†	171975.4	0.6784 mg/L	0.00177	0.6784 mg/L	0.00177	0.26%
Zn 213.857†	198425.2	1.198 mg/L	0.0036	1.198 mg/L	0.0036	0.30%

Sequence No.: 224
Sample ID: CF32510-SD2 @5
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/26/2013 6:53:45 AM
Data Type: Reprocessed on 6/26/2013 10:58:33 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF32510-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3559086.3	3559086.3	1.05 mg/L			06:55:38
1	Ag 328.068†	225.1	-523.0	0.0003 mg/L		0.0003 mg/L	06:55:40
1	Al 237.313†	432049.3	410838.5	37.67 mg/L		37.67 mg/L	06:55:38
1	As 188.979†	66.1	61.7	0.0403 mg/L		0.0403 mg/L	06:55:50
1	B 249.677†	-20.0	-3.8	0.0010 mg/L		0.0010 mg/L	06:55:28
1	B 182.528†	17.2	23.3	0.0230 mg/L		0.0230 mg/L	06:55:50
1	Ba 233.527†	8519.6	8181.4	0.0626 mg/L		0.0626 mg/L	06:55:40
1	Be 313.107†	4645.6	5846.2	0.0021 mg/L		0.0021 mg/L	06:55:40
1	Ca 315.887†	891348.4	847507.6	7.594 mg/L		7.594 mg/L	06:55:38
1	Cd 228.802†	189.5	32.6	0.0009 mg/L		0.0009 mg/L	06:55:50
1	Co 228.616†	2447.9	2503.4	0.0366 mg/L		0.0366 mg/L	06:55:50
1	Cr 267.716†	9298.3	8122.7	0.0623 mg/L		0.0623 mg/L	06:55:40
1	Cu 324.752†	24874.3	19674.1	0.0860 mg/L		0.0860 mg/L	06:55:40
1	Fe 234.349†	183896.2	174704.9	86.50 mg/L		86.50 mg/L	06:55:26
1	K 766.490†	8540.7	7368.7	3.290 mg/L		3.290 mg/L	06:55:28
1	Li 670.784†	4749.6	4784.8	0.1143 mg/L		0.1143 mg/L	06:55:28
1	Mg 279.077†	310941.2	295109.3	19.16 mg/L		19.16 mg/L	06:55:38
1	Mn 257.610†	2254661.1	2125895.8	2.267 mg/L		2.267 mg/L	06:55:38
1	Mn 294.920†	1123058.2	1067556.9	2.277 mg/L		2.277 mg/L	06:55:38
1	Mo 202.031†	-8.2	2.6	-0.0106 mg/L		-0.0106 mg/L	06:55:40
1	Na 589.592†	11701.8	6890.4	1.010 mg/L		1.010 mg/L	06:55:28
1	Ni 231.604†	4633.3	4224.5	0.0781 mg/L		0.0781 mg/L	06:55:40
1	P 214.914†	3138.4	3027.6	1.635 mg/L		1.635 mg/L	06:55:50
1	Pb 220.353†	1281.1	1033.9	0.0530 mg/L		0.0530 mg/L	06:55:50
1	Sb 206.836†	73.2	24.7	-0.0228 mg/L		-0.0228 mg/L	06:55:50
1	Se 196.026†	-6.5	-23.0	-0.0032 mg/L		-0.0032 mg/L	06:55:50
1	Sn 189.927†	-136.1	-166.7	-0.0142 mg/L		-0.0142 mg/L	06:55:50
1	Sr 407.771†	47574.0	44950.1	0.0383 mg/L		0.0383 mg/L	06:55:26
1	Ti 337.279†	571124.2	543871.4	0.5603 mg/L		0.5603 mg/L	06:55:38
1	Tl 190.801†	-16.1	-8.1	-0.0461 mg/L		-0.0461 mg/L	06:55:50
1	V 292.402†	16687.9	16755.5	0.0669 mg/L		0.0669 mg/L	06:55:40
1	Zn 213.857†	36076.4	33403.5	0.2011 mg/L		0.2011 mg/L	06:55:40
2	Y 371.029	3550676.3	3550676.3	1.05 mg/L			06:55:53
2	Ag 328.068†	124.6	-618.1	-0.0001 mg/L		-0.0001 mg/L	06:55:55
2	Al 237.313†	427030.4	407031.4	37.32 mg/L		37.32 mg/L	06:55:53
2	As 188.979†	69.3	64.9	0.0422 mg/L		0.0422 mg/L	06:56:05
2	B 249.677†	-43.2	-25.9	-0.0081 mg/L		-0.0081 mg/L	06:55:33
2	B 182.528†	17.6	23.7	0.0234 mg/L		0.0234 mg/L	06:56:05
2	Ba 233.527†	8613.2	8289.8	0.0634 mg/L		0.0634 mg/L	06:55:55
2	Be 313.107†	4724.0	5931.3	0.0022 mg/L		0.0022 mg/L	06:55:55
2	Ca 315.887†	879663.8	838386.5	7.512 mg/L		7.512 mg/L	06:55:53
2	Cd 228.802†	199.6	42.6	0.0012 mg/L		0.0012 mg/L	06:56:05
2	Co 228.616†	2392.9	2456.6	0.0359 mg/L		0.0359 mg/L	06:56:05
2	Cr 267.716†	9359.7	8202.1	0.0629 mg/L		0.0629 mg/L	06:55:55
2	Cu 324.752†	24945.8	19798.2	0.0865 mg/L		0.0865 mg/L	06:55:55
2	Fe 234.349†	183592.3	174829.2	86.56 mg/L		86.56 mg/L	06:55:31

2	K 766.490†	8586.4	7431.4	3.317 mg/L	3.317 mg/L	06:55:33
2	Li 670.784†	4666.4	4716.2	0.1126 mg/L	0.1126 mg/L	06:55:33
2	Mg 279.077†	307375.7	292413.7	18.99 mg/L	18.99 mg/L	06:55:53
2	Mn 257.610†	2230843.0	2108288.1	2.248 mg/L	2.248 mg/L	06:55:53
2	Mn 294.920†	1110954.1	1058557.7	2.258 mg/L	2.258 mg/L	06:55:53
2	Mo 202.031†	98.3	104.0	-0.0068 mg/L	-0.0068 mg/L	06:55:55
2	Na 589.592†	11820.8	7030.0	1.029 mg/L	1.029 mg/L	06:55:33
2	Ni 231.604†	4668.8	4268.7	0.0789 mg/L	0.0789 mg/L	06:55:55
2	P 214.914†	3115.9	3013.2	1.628 mg/L	1.628 mg/L	06:56:05
2	Pb 220.353†	1279.2	1035.0	0.0532 mg/L	0.0532 mg/L	06:56:05
2	Sb 206.836†	62.6	14.8	-0.0268 mg/L	-0.0268 mg/L	06:56:05
2	Se 196.026†	-17.5	-33.5	-0.0090 mg/L	-0.0090 mg/L	06:56:05
2	Sn 189.927†	-126.7	-158.2	-0.0132 mg/L	-0.0132 mg/L	06:56:05
2	Sr 407.771†	47615.5	45096.7	0.0385 mg/L	0.0385 mg/L	06:55:31
2	Ti 337.279†	564426.9	538779.0	0.5551 mg/L	0.5551 mg/L	06:55:53
2	Tl 190.801†	-13.0	-5.3	-0.0439 mg/L	-0.0439 mg/L	06:56:05
2	V 292.402†	16853.0	16950.3	0.0677 mg/L	0.0677 mg/L	06:55:55
2	Zn 213.857†	36142.1	33547.3	0.2020 mg/L	0.2020 mg/L	06:55:55

Mean Data: CF32510-SD2 @5

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3554881.3	1.05 mg/L	0.002			0.17%
Ag 328.068†	-570.5	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	361.79%
Al 237.313†	408934.9	37.50 mg/L	0.247	37.50 mg/L	0.247	0.66%
As 188.979†	63.3	0.0413 mg/L	0.00137	0.0413 mg/L	0.00137	3.33%
B 249.677†	-14.9	-0.0035 mg/L	0.00639	-0.0035 mg/L	0.00639	180.74%
B 182.528†	23.5	0.0232 mg/L	0.00025	0.0232 mg/L	0.00025	1.08%
Ba 233.527†	8235.6	0.0630 mg/L	0.00058	0.0630 mg/L	0.00058	0.92%
Be 313.107†	5888.7	0.0022 mg/L	0.00002	0.0022 mg/L	0.00002	1.02%
Ca 315.887†	842947.1	7.553 mg/L	0.0577	7.553 mg/L	0.0577	0.76%
Cd 228.802†	37.6	0.0010 mg/L	0.00019	0.0010 mg/L	0.00019	18.27%
Co 228.616†	2480.0	0.0363 mg/L	0.00052	0.0363 mg/L	0.00052	1.43%
Cr 267.716†	8162.4	0.0626 mg/L	0.00043	0.0626 mg/L	0.00043	0.69%
Cu 324.752†	19736.2	0.0863 mg/L	0.00037	0.0863 mg/L	0.00037	0.43%
Fe 234.349†	174767.1	86.53 mg/L	0.044	86.53 mg/L	0.044	0.05%
K 766.490†	7400.0	3.303 mg/L	0.0189	3.303 mg/L	0.0189	0.57%
Li 670.784†	4750.5	0.1134 mg/L	0.00114	0.1134 mg/L	0.00114	1.00%
Mg 279.077†	293761.5	19.08 mg/L	0.124	19.08 mg/L	0.124	0.65%
Mn 257.610†	2117092.0	2.258 mg/L	0.0134	2.258 mg/L	0.0134	0.59%
Mn 294.920†	1063057.3	2.267 mg/L	0.0136	2.267 mg/L	0.0136	0.60%
Mo 202.031†	53.3	-0.0087 mg/L	0.00268	-0.0087 mg/L	0.00268	30.94%
Na 589.592†	6960.2	1.020 mg/L	0.0132	1.020 mg/L	0.0132	1.30%
Ni 231.604†	4246.6	0.0785 mg/L	0.00059	0.0785 mg/L	0.00059	0.75%
P 214.914†	3020.4	1.631 mg/L	0.0054	1.631 mg/L	0.0054	0.33%
Pb 220.353†	1034.5	0.0531 mg/L	0.00011	0.0531 mg/L	0.00011	0.22%
Sb 206.836†	19.8	-0.0248 mg/L	0.00286	-0.0248 mg/L	0.00286	11.52%
Se 196.026†	-28.3	-0.0061 mg/L	0.00411	-0.0061 mg/L	0.00411	67.30%
Sn 189.927†	-162.4	-0.0137 mg/L	0.00071	-0.0137 mg/L	0.00071	5.16%
Sr 407.771†	45023.4	0.0384 mg/L	0.00009	0.0384 mg/L	0.00009	0.23%
Ti 337.279†	541325.2	0.5577 mg/L	0.00369	0.5577 mg/L	0.00369	0.66%
Tl 190.801†	-6.7	-0.0450 mg/L	0.00151	-0.0450 mg/L	0.00151	3.36%
V 292.402†	16852.9	0.0673 mg/L	0.00059	0.0673 mg/L	0.00059	0.87%
Zn 213.857†	33475.4	0.2016 mg/L	0.00062	0.2016 mg/L	0.00062	0.31%

Sequence No.: 225

Sample ID: CF32510-PDS2

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 6/26/2013 6:57:45 AM

Data Type: Reprocessed on 6/26/2013 10:58:34 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF32510-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3563466.7	3563466.7	1.05 mg/L		06:59:46
1	Ag 328.068†	46029.0	42937.4	0.2164 mg/L	0.2164 mg/L	06:59:46
1	Al 237.313†	1997645.4	1895837.2	173.8 mg/L	173.8 mg/L	06:59:46
1	As 188.979†	980.5	929.3	0.5699 mg/L	0.5699 mg/L	06:59:56
1	B 249.677†	1028.2	990.8	0.4076 mg/L	0.4076 mg/L	06:59:32

1	B	182.528†	557.4	535.9	0.4442	mg/L	0.4442	mg/L	06:59:56
1	Ba	233.527†	100060.5	95029.4	0.7210	mg/L	0.7210	mg/L	06:59:46
1	Be	313.107†	145121.9	139130.6	0.0486	mg/L	0.0486	mg/L	06:59:46
1	Ca	315.887†	4573083.4	4339851.3	38.85	mg/L	38.85	mg/L	06:59:42
1	Cd	228.802†	7996.4	7439.8	0.1941	mg/L	0.1941	mg/L	06:59:56
1	Co	228.616†	39603.2	37755.1	0.5937	mg/L	0.5937	mg/L	06:59:46
1	Cr	267.716†	104799.9	98727.7	0.7518	mg/L	0.7518	mg/L	06:59:46
1	Cu	324.752†	219263.1	204089.3	0.8764	mg/L	0.8764	mg/L	06:59:46
1	Fe	234.349†	805606.5	764394.9	378.4	mg/L	378.4	mg/L	06:59:30
1	K	766.490†	91064.5	85660.7	36.72	mg/L	36.72	mg/L	06:59:32
1	Li	670.784†	43334.7	41390.4	0.9738	mg/L	0.9738	mg/L	06:59:32
1	Mg	279.077†	1466471.0	1391161.3	90.35	mg/L	90.35	mg/L	06:59:46
1	Mn	257.610†	10058996.4	9528343.6	10.16	mg/L	10.16	mg/L	06:59:42
1	Mn	294.920†	5135653.8	4873564.4	10.40	mg/L	10.40	mg/L	06:59:42
1	Mo	202.031†	12713.0	12073.1	0.3947	mg/L	0.3947	mg/L	06:59:46
1	Na	589.592†	203582.2	188940.9	25.40	mg/L	25.40	mg/L	06:59:30
1	Ni	231.604†	45327.6	42831.6	0.7972	mg/L	0.7972	mg/L	06:59:46
1	P	214.914†	22144.4	21057.6	11.08	mg/L	11.08	mg/L	06:59:46
1	Pb	220.353†	12998.2	12150.2	0.6708	mg/L	0.6708	mg/L	06:59:56
1	Sb	206.836†	1244.1	1135.7	0.3063	mg/L	0.3063	mg/L	06:59:56
1	Se	196.026†	1519.0	1424.4	0.8152	mg/L	0.8152	mg/L	06:59:56
1	Sn	189.927†	3456.2	3241.9	0.4237	mg/L	0.4237	mg/L	06:59:56
1	Sr	407.771†	266298.6	252429.6	0.2140	mg/L	0.2140	mg/L	06:59:30
1	Ti	337.279†	3026897.6	2873345.3	2.948	mg/L	2.948	mg/L	06:59:46
1	Tl	190.801†	662.7	636.0	0.3033	mg/L	0.3033	mg/L	06:59:56
1	V	292.402†	199226.9	189936.7	0.7477	mg/L	0.7477	mg/L	06:59:46
1	Zn	213.857†	233528.4	220712.1	1.333	mg/L	1.333	mg/L	06:59:46
2	Y	371.029	3602407.0	3602407.0	1.07	mg/L			07:00:03
2	Ag	328.068†	46187.3	42613.9	0.2147	mg/L	0.2147	mg/L	07:00:03
2	Al	237.313†	2005906.5	1883102.0	172.6	mg/L	172.6	mg/L	07:00:03
2	As	188.979†	978.8	917.6	0.5628	mg/L	0.5628	mg/L	07:00:14
2	B	249.677†	968.0	923.7	0.3802	mg/L	0.3802	mg/L	06:59:36
2	B	182.528†	570.3	542.3	0.4494	mg/L	0.4494	mg/L	07:00:14
2	Ba	233.527†	100476.9	94393.9	0.7162	mg/L	0.7162	mg/L	07:00:03
2	Be	313.107†	145495.0	137992.2	0.0482	mg/L	0.0482	mg/L	07:00:03
2	Ca	315.887†	4594401.8	4312956.4	38.61	mg/L	38.61	mg/L	07:00:00
2	Cd	228.802†	8005.4	7366.3	0.1922	mg/L	0.1922	mg/L	07:00:14
2	Co	228.616†	39799.3	37532.9	0.5902	mg/L	0.5902	mg/L	07:00:03
2	Cr	267.716†	105135.6	97967.9	0.7461	mg/L	0.7461	mg/L	07:00:03
2	Cu	324.752†	220138.6	202662.2	0.8702	mg/L	0.8702	mg/L	07:00:03
2	Fe	234.349†	800682.6	751510.6	372.0	mg/L	372.0	mg/L	06:59:34
2	K	766.490†	89398.5	83163.0	35.66	mg/L	35.66	mg/L	06:59:36
2	Li	670.784†	42769.0	40415.0	0.9509	mg/L	0.9509	mg/L	06:59:36
2	Mg	279.077†	1475586.5	1384676.1	89.93	mg/L	89.93	mg/L	07:00:03
2	Mn	257.610†	10115595.3	9478296.0	10.11	mg/L	10.11	mg/L	07:00:00
2	Mn	294.920†	5163812.0	4847319.2	10.34	mg/L	10.34	mg/L	07:00:00
2	Mo	202.031†	12599.3	11835.9	0.3867	mg/L	0.3867	mg/L	07:00:03
2	Na	589.592†	202545.6	185879.9	24.99	mg/L	24.99	mg/L	06:59:34
2	Ni	231.604†	45612.3	42633.9	0.7935	mg/L	0.7935	mg/L	07:00:03
2	P	214.914†	22281.9	20959.6	11.03	mg/L	11.03	mg/L	07:00:03
2	Pb	220.353†	13006.8	12024.9	0.6637	mg/L	0.6637	mg/L	07:00:14
2	Sb	206.836†	1253.4	1131.6	0.3073	mg/L	0.3073	mg/L	07:00:14
2	Se	196.026†	1530.5	1419.7	0.8122	mg/L	0.8122	mg/L	07:00:14
2	Sn	189.927†	3473.2	3222.5	0.4212	mg/L	0.4212	mg/L	07:00:14
2	Sr	407.771†	264763.7	248257.7	0.2104	mg/L	0.2104	mg/L	06:59:34
2	Ti	337.279†	3037500.4	2852251.5	2.926	mg/L	2.926	mg/L	07:00:03
2	Tl	190.801†	657.2	624.0	0.2971	mg/L	0.2971	mg/L	07:00:14
2	V	292.402†	200242.9	188847.0	0.7433	mg/L	0.7433	mg/L	07:00:03
2	Zn	213.857†	234681.7	219399.4	1.325	mg/L	1.325	mg/L	07:00:03

Mean Data: CF32510-PDS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	3582936.9	1.06	mg/L	0.008				0.77%
Ag 328.068†	42775.7	0.2155	mg/L	0.00121	0.2155	mg/L	0.00121	0.56%
Al 237.313†	1889469.6	173.2	mg/L	0.83	173.2	mg/L	0.83	0.48%
As 188.979†	923.5	0.5663	mg/L	0.00506	0.5663	mg/L	0.00506	0.89%
B 249.677†	957.2	0.3939	mg/L	0.01936	0.3939	mg/L	0.01936	4.91%
B 182.528†	539.1	0.4468	mg/L	0.00372	0.4468	mg/L	0.00372	0.83%
Ba 233.527†	94711.6	0.7186	mg/L	0.00341	0.7186	mg/L	0.00341	0.47%
Be 313.107†	138561.4	0.0484	mg/L	0.00028	0.0484	mg/L	0.00028	0.58%
Ca 315.887†	4326403.9	38.73	mg/L	0.170	38.73	mg/L	0.170	0.44%

Cd	228.802†	7403.1	0.1931 mg/L	0.00131	0.1931 mg/L	0.00131	0.68%
Co	228.616†	37644.0	0.5919 mg/L	0.00247	0.5919 mg/L	0.00247	0.42%
Cr	267.716†	98347.8	0.7489 mg/L	0.00409	0.7489 mg/L	0.00409	0.55%
Cu	324.752†	203375.8	0.8733 mg/L	0.00433	0.8733 mg/L	0.00433	0.50%
Fe	234.349†	757952.8	375.2 mg/L	4.51	375.2 mg/L	4.51	1.20%
K	766.490†	84411.9	36.19 mg/L	0.754	36.19 mg/L	0.754	2.08%
Li	670.784†	40902.7	0.9624 mg/L	0.01620	0.9624 mg/L	0.01620	1.68%
Mg	279.077†	1387918.7	90.14 mg/L	0.298	90.14 mg/L	0.298	0.33%
Mn	257.610†	9503319.8	10.14 mg/L	0.037	10.14 mg/L	0.037	0.37%
Mn	294.920†	4860441.8	10.37 mg/L	0.040	10.37 mg/L	0.040	0.38%
Mo	202.031†	11954.5	0.3907 mg/L	0.00560	0.3907 mg/L	0.00560	1.43%
Na	589.592†	187410.4	25.20 mg/L	0.290	25.20 mg/L	0.290	1.15%
Ni	231.604†	42732.7	0.7953 mg/L	0.00261	0.7953 mg/L	0.00261	0.33%
P	214.914†	21008.6	11.05 mg/L	0.036	11.05 mg/L	0.036	0.33%
Pb	220.353†	12087.5	0.6672 mg/L	0.00499	0.6672 mg/L	0.00499	0.75%
Sb	206.836†	1133.7	0.3068 mg/L	0.00071	0.3068 mg/L	0.00071	0.23%
Se	196.026†	1422.0	0.8137 mg/L	0.00212	0.8137 mg/L	0.00212	0.26%
Sn	189.927†	3232.2	0.4225 mg/L	0.00180	0.4225 mg/L	0.00180	0.43%
Sr	407.771†	250343.7	0.2122 mg/L	0.00250	0.2122 mg/L	0.00250	1.18%
Ti	337.279†	2862798.4	2.937 mg/L	0.0153	2.937 mg/L	0.0153	0.52%
Tl	190.801†	630.0	0.3002 mg/L	0.00437	0.3002 mg/L	0.00437	1.45%
V	292.402†	189391.8	0.7455 mg/L	0.00308	0.7455 mg/L	0.00308	0.41%
Zn	213.857†	220055.7	1.329 mg/L	0.0055	1.329 mg/L	0.0055	0.41%

Sequence No.: 226
Sample ID: 1306391-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 6/26/2013 7:03:23 AM
Data Type: Reprocessed on 6/26/2013 10:58:34 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306391-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3455876.8	3455876.8	1.02 mg/L			07:05:22
1	Ag 328.068†	-1077.2	-1790.7	-0.0006 mg/L		-0.0006 mg/L	07:05:25
1	Al 237.313†	2166684.7	2120232.1	194.4 mg/L		194.4 mg/L	07:05:22
1	As 188.979†	199.5	194.1	0.1204 mg/L		0.1204 mg/L	07:05:35
1	B 249.677†	-50.1	-33.8	-0.0113 mg/L		-0.0113 mg/L	07:05:09
1	B 182.528†	54.5	60.3	0.0534 mg/L		0.0534 mg/L	07:05:35
1	Ba 233.527†	64019.4	62723.2	0.4761 mg/L		0.4761 mg/L	07:05:25
1	Be 313.107†	15679.2	16773.0	0.0041 mg/L		0.0041 mg/L	07:05:25
1	Ca 315.887†	12428696.3	12160727.1	108.9 mg/L		108.9 mg/L	07:05:19
1	Cd 228.802†	285.6	132.0	0.0001 mg/L		0.0001 mg/L	07:05:35
1	Co 228.616†	10468.0	10419.6	0.1453 mg/L		0.1453 mg/L	07:05:35
1	Cr 267.716†	59499.2	57502.1	0.4379 mg/L		0.4379 mg/L	07:05:25
1	Cu 324.752†	84718.8	78930.6	0.3489 mg/L		0.3489 mg/L	07:05:25
1	Fe 234.349†	593583.6	580753.0	287.4 mg/L		287.4 mg/L	07:05:06
1	K 766.490†	44717.0	43005.2	18.51 mg/L		18.51 mg/L	07:05:09
1	Li 670.784†	7497.2	7607.7	0.1805 mg/L		0.1805 mg/L	07:05:09
1	Mg 279.077†	1424044.4	1392971.2	90.46 mg/L		90.46 mg/L	07:05:22
1	Mn 257.610†	4233731.3	4126151.1	4.374 mg/L		4.374 mg/L	07:05:22
1	Mn 294.920†	2154071.8	2108145.1	4.497 mg/L		4.497 mg/L	07:05:22
1	Mo 202.031†	278.8	283.2	-0.0316 mg/L		-0.0316 mg/L	07:05:25
1	Na 589.592†	11340.6	6869.0	1.008 mg/L		1.008 mg/L	07:05:09
1	Ni 231.604†	13622.7	13151.1	0.2442 mg/L		0.2442 mg/L	07:05:35
1	P 214.914†	12620.7	12393.9	6.545 mg/L		6.545 mg/L	07:05:35
1	Pb 220.353†	3872.6	3605.7	0.1645 mg/L		0.1645 mg/L	07:05:35
1	Sb 206.836†	144.3	96.3	-0.0820 mg/L		-0.0820 mg/L	07:05:35
1	Se 196.026†	-88.9	-103.8	-0.0361 mg/L		-0.0361 mg/L	07:05:35
1	Sn 189.927†	-707.4	-729.5	-0.0207 mg/L		-0.0207 mg/L	07:05:35
1	Sr 407.771†	182691.9	178496.8	0.1514 mg/L		0.1514 mg/L	07:05:06
1	Ti 337.279†	8687169.7	8500665.8	8.716 mg/L		8.716 mg/L	07:05:22
1	Tl 190.801†	11.2	18.1	-0.1331 mg/L		-0.1331 mg/L	07:05:35
1	V 292.402†	157515.5	155012.1	0.5925 mg/L		0.5925 mg/L	07:05:25
1	Zn 213.857†	83757.9	81077.8	0.4835 mg/L		0.4835 mg/L	07:05:25
2	Y 371.029	3482283.3	3482283.3	1.03 mg/L			07:05:42
2	Ag 328.068†	-1000.7	-1708.4	-0.0003 mg/L		-0.0003 mg/L	07:05:44
2	Al 237.313†	2183555.0	2120537.6	194.4 mg/L		194.4 mg/L	07:05:42
2	As 188.979†	198.8	192.0	0.1191 mg/L		0.1191 mg/L	07:05:55
2	B 249.677†	-57.2	-40.4	-0.0139 mg/L		-0.0139 mg/L	07:05:13

2	B	182.528†	52.6	58.0	0.0516	mg/L	0.0516	mg/L	07:05:55
2	Ba	233.527†	64002.7	62232.0	0.4724	mg/L	0.4724	mg/L	07:05:44
2	Be	313.107†	15634.8	16613.5	0.0040	mg/L	0.0040	mg/L	07:05:44
2	Ca	315.887†	12364355.1	12006043.9	107.5	mg/L	107.5	mg/L	07:05:39
2	Cd	228.802†	270.7	115.4	-0.0003	mg/L	-0.0003	mg/L	07:05:55
2	Co	228.616†	10457.8	10332.1	0.1439	mg/L	0.1439	mg/L	07:05:55
2	Cr	267.716†	59291.7	56859.2	0.4330	mg/L	0.4330	mg/L	07:05:44
2	Cu	324.752†	84287.7	77883.5	0.3444	mg/L	0.3444	mg/L	07:05:44
2	Fe	234.349†	596328.9	579014.7	286.5	mg/L	286.5	mg/L	07:05:11
2	K	766.490†	44356.8	42323.7	18.22	mg/L	18.22	mg/L	07:05:13
2	Li	670.784†	7363.1	7421.9	0.1762	mg/L	0.1762	mg/L	07:05:13
2	Mg	279.077†	1435966.1	1393981.5	90.52	mg/L	90.52	mg/L	07:05:42
2	Mn	257.610†	4266697.7	4126749.5	4.374	mg/L	4.374	mg/L	07:05:42
2	Mn	294.920†	2171275.5	2108867.9	4.498	mg/L	4.498	mg/L	07:05:42
2	Mo	202.031†	290.4	292.3	-0.0311	mg/L	-0.0311	mg/L	07:05:44
2	Na	589.592†	11308.9	6754.1	0.9921	mg/L	0.9921	mg/L	07:05:13
2	Ni	231.604†	13669.1	13095.0	0.2432	mg/L	0.2432	mg/L	07:05:55
2	P	214.914†	12652.2	12330.9	6.512	mg/L	6.512	mg/L	07:05:55
2	Pb	220.353†	3955.8	3657.8	0.1676	mg/L	0.1676	mg/L	07:05:55
2	Sb	206.836†	144.2	95.2	-0.0821	mg/L	-0.0821	mg/L	07:05:55
2	Se	196.026†	-71.8	-86.5	-0.0265	mg/L	-0.0265	mg/L	07:05:55
2	Sn	189.927†	-693.7	-711.0	-0.0193	mg/L	-0.0193	mg/L	07:05:55
2	Sr	407.771†	183646.2	178067.9	0.1510	mg/L	0.1510	mg/L	07:05:11
2	Ti	337.279†	8751629.6	8498802.6	8.714	mg/L	8.714	mg/L	07:05:42
2	Tl	190.801†	-2.0	5.2	-0.1422	mg/L	-0.1422	mg/L	07:05:55
2	V	292.402†	156969.9	153313.7	0.5859	mg/L	0.5859	mg/L	07:05:44
2	Zn	213.857†	83584.8	80288.3	0.4787	mg/L	0.4787	mg/L	07:05:44

Mean Data: 1306391-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3469080.1	1.03	mg/L	0.006				0.54%
Ag 328.068†	-1749.6	-0.0004	mg/L	0.00026	-0.0004	mg/L	0.00026	59.23%
Al 237.313†	2120384.9	194.4	mg/L	0.02	194.4	mg/L	0.02	0.01%
As 188.979†	193.1	0.1197	mg/L	0.00092	0.1197	mg/L	0.00092	0.77%
B 249.677†	-37.1	-0.0126	mg/L	0.00188	-0.0126	mg/L	0.00188	14.94%
B 182.528†	59.2	0.0525	mg/L	0.00130	0.0525	mg/L	0.00130	2.47%
Ba 233.527†	62477.6	0.4742	mg/L	0.00263	0.4742	mg/L	0.00263	0.56%
Be 313.107†	16693.3	0.0040	mg/L	0.00004	0.0040	mg/L	0.00004	0.98%
Ca 315.887†	12083385.5	108.2	mg/L	0.98	108.2	mg/L	0.98	0.91%
Cd 228.802†	123.7	-0.0001	mg/L	0.00030	-0.0001	mg/L	0.00030	415.61%
Co 228.616†	10375.9	0.1446	mg/L	0.00098	0.1446	mg/L	0.00098	0.68%
Cr 267.716†	57180.7	0.4355	mg/L	0.00346	0.4355	mg/L	0.00346	0.79%
Cu 324.752†	78407.1	0.3467	mg/L	0.00316	0.3467	mg/L	0.00316	0.91%
Fe 234.349†	579883.8	287.0	mg/L	0.61	287.0	mg/L	0.61	0.21%
K 766.490†	42664.5	18.36	mg/L	0.206	18.36	mg/L	0.206	1.12%
Li 670.784†	7514.8	0.1784	mg/L	0.00309	0.1784	mg/L	0.00309	1.73%
Mg 279.077†	1393476.3	90.49	mg/L	0.046	90.49	mg/L	0.046	0.05%
Mn 257.610†	4126450.3	4.374	mg/L	0.0006	4.374	mg/L	0.0006	0.01%
Mn 294.920†	2108506.5	4.497	mg/L	0.0011	4.497	mg/L	0.0011	0.02%
Mo 202.031†	287.8	-0.0314	mg/L	0.00035	-0.0314	mg/L	0.00035	1.12%
Na 589.592†	6811.5	0.9998	mg/L	0.01089	0.9998	mg/L	0.01089	1.09%
Ni 231.604†	13123.1	0.2437	mg/L	0.00074	0.2437	mg/L	0.00074	0.30%
P 214.914†	12362.4	6.529	mg/L	0.0234	6.529	mg/L	0.0234	0.36%
Pb 220.353†	3631.8	0.1661	mg/L	0.00215	0.1661	mg/L	0.00215	1.29%
Sb 206.836†	95.8	-0.0820	mg/L	0.00003	-0.0820	mg/L	0.00003	0.04%
Se 196.026†	-95.2	-0.0313	mg/L	0.00672	-0.0313	mg/L	0.00672	21.48%
Sn 189.927†	-720.3	-0.0200	mg/L	0.00100	-0.0200	mg/L	0.00100	5.01%
Sr 407.771†	178282.4	0.1512	mg/L	0.00026	0.1512	mg/L	0.00026	0.17%
Ti 337.279†	8499734.2	8.715	mg/L	0.0014	8.715	mg/L	0.0014	0.02%
Tl 190.801†	11.6	-0.1377	mg/L	0.00644	-0.1377	mg/L	0.00644	4.68%
V 292.402†	154162.9	0.5892	mg/L	0.00470	0.5892	mg/L	0.00470	0.80%
Zn 213.857†	80683.0	0.4811	mg/L	0.00339	0.4811	mg/L	0.00339	0.71%

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Sequence No.: 227
Sample ID: 1306391-02
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

=====
Autosampler Location: 22
Date Collected: 6/26/2013 7:09:05 AM
Data Type: Reprocessed on 6/26/2013 10:58:35 AM
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 371.029	3421737.4	3421737.4	1.01	mg/L			07:11:08
1	Ag 328.068†	-1404.1	-2124.2	-0.0001	mg/L	-0.0001	mg/L	07:11:11
1	Al 237.313†	2559684.8	2529722.7	231.9	mg/L	231.9	mg/L	07:11:08
1	As 188.979†	175.8	172.7	0.1067	mg/L	0.1067	mg/L	07:11:21
1	B 249.677†	-80.4	-64.2	-0.0237	mg/L	-0.0237	mg/L	07:10:52
1	B 182.528†	46.3	52.7	0.0472	mg/L	0.0472	mg/L	07:11:21
1	Ba 233.527†	99576.1	98483.2	0.7472	mg/L	0.7472	mg/L	07:11:11
1	Be 313.107†	15726.8	16973.1	0.0029	mg/L	0.0029	mg/L	07:11:11
1	Ca 315.887†	29629411.1	29278820.6	262.1	mg/L	262.1	mg/L	07:11:05
1	Cd 228.802†	284.2	133.4	-0.0012	mg/L	-0.0012	mg/L	07:11:21
1	Co 228.616†	15939.3	15928.3	0.2220	mg/L	0.2220	mg/L	07:11:21
1	Cr 267.716†	88076.8	86321.7	0.6571	mg/L	0.6571	mg/L	07:11:11
1	Cu 324.752†	126568.2	121110.9	0.5353	mg/L	0.5353	mg/L	07:11:11
1	Fe 234.349†	756678.3	747708.2	369.8	mg/L	369.8	mg/L	07:10:50
1	K 766.490†	85783.3	84021.1	36.02	mg/L	36.02	mg/L	07:10:52
1	Li 670.784†	5951.5	6153.5	0.1464	mg/L	0.1464	mg/L	07:10:52
1	Mg 279.077†	2399054.4	2370321.6	153.9	mg/L	153.9	mg/L	07:11:08
1	Mn 257.610†	6837268.7	6740146.7	7.167	mg/L	7.167	mg/L	07:11:08
1	Mn 294.920†	3480680.1	3440051.1	7.338	mg/L	7.338	mg/L	07:11:08
1	Mo 202.031†	458.6	463.6	-0.0382	mg/L	-0.0382	mg/L	07:11:11
1	Na 589.592†	11337.5	6976.6	1.022	mg/L	1.022	mg/L	07:10:52
1	Ni 231.604†	15709.4	15346.0	0.2851	mg/L	0.2851	mg/L	07:11:11
1	P 214.914†	18577.1	18402.9	9.695	mg/L	9.695	mg/L	07:11:21
1	Pb 220.353†	2153.1	1944.4	0.0581	mg/L	0.0581	mg/L	07:11:21
1	Sb 206.836†	169.0	122.2	-0.1083	mg/L	-0.1083	mg/L	07:11:21
1	Se 196.026†	-139.3	-154.5	-0.0592	mg/L	-0.0592	mg/L	07:11:21
1	Sn 189.927†	-934.3	-960.7	0.0456	mg/L	0.0456	mg/L	07:11:21
1	Sr 407.771†	243898.8	240761.3	0.2041	mg/L	0.2041	mg/L	07:10:50
1	Ti 337.279†	13733403.6	13571868.0	13.91	mg/L	13.91	mg/L	07:11:05
1	Tl 190.801†	26.2	33.0	-0.1835	mg/L	-0.1835	mg/L	07:11:21
1	V 292.402†	242697.6	240721.9	0.9181	mg/L	0.9181	mg/L	07:11:11
1	Zn 213.857†	95762.5	93757.7	0.5571	mg/L	0.5571	mg/L	07:11:11
2	Y 371.029	3385501.9	3385501.9	1.00	mg/L			07:11:31
2	Ag 328.068†	-1291.3	-2026.4	0.0004	mg/L	0.0004	mg/L	07:11:34
2	Al 237.313†	2530661.4	2527808.2	231.7	mg/L	231.7	mg/L	07:11:31
2	As 188.979†	164.5	163.2	0.1009	mg/L	0.1009	mg/L	07:11:44
2	B 249.677†	-76.8	-61.5	-0.0225	mg/L	-0.0225	mg/L	07:10:56
2	B 182.528†	45.5	52.4	0.0469	mg/L	0.0469	mg/L	07:11:44
2	Ba 233.527†	99608.7	99568.9	0.7554	mg/L	0.7554	mg/L	07:11:34
2	Be 313.107†	15861.7	17274.1	0.0030	mg/L	0.0030	mg/L	07:11:34
2	Ca 315.887†	29493070.4	29456021.4	263.6	mg/L	263.6	mg/L	07:11:28
2	Cd 228.802†	295.9	148.0	-0.0009	mg/L	-0.0009	mg/L	07:11:44
2	Co 228.616†	15856.3	16014.0	0.2231	mg/L	0.2231	mg/L	07:11:44
2	Cr 267.716†	88024.5	87201.0	0.6638	mg/L	0.6638	mg/L	07:11:34
2	Cu 324.752†	127258.1	123138.4	0.5441	mg/L	0.5441	mg/L	07:11:34
2	Fe 234.349†	751076.0	750115.9	371.0	mg/L	371.0	mg/L	07:10:54
2	K 766.490†	85599.9	84745.2	36.33	mg/L	36.33	mg/L	07:10:56
2	Li 670.784†	6057.0	6321.9	0.1503	mg/L	0.1503	mg/L	07:10:56
2	Mg 279.077†	2366675.1	2363356.6	153.5	mg/L	153.5	mg/L	07:11:31
2	Mn 257.610†	6765293.6	6740576.1	7.167	mg/L	7.167	mg/L	07:11:31
2	Mn 294.920†	3444171.1	3440401.3	7.338	mg/L	7.338	mg/L	07:11:31
2	Mo 202.031†	348.8	358.8	-0.0424	mg/L	-0.0424	mg/L	07:11:34
2	Na 589.592†	11348.4	7107.4	1.039	mg/L	1.039	mg/L	07:10:56
2	Ni 231.604†	15837.8	15640.3	0.2905	mg/L	0.2905	mg/L	07:11:34
2	P 214.914†	18500.9	18523.2	9.758	mg/L	9.758	mg/L	07:11:44
2	Pb 220.353†	2192.9	2007.0	0.0618	mg/L	0.0618	mg/L	07:11:44
2	Sb 206.836†	164.9	119.8	-0.1099	mg/L	-0.1099	mg/L	07:11:44
2	Se 196.026†	-124.3	-141.0	-0.0517	mg/L	-0.0517	mg/L	07:11:44
2	Sn 189.927†	-922.6	-958.9	0.0469	mg/L	0.0469	mg/L	07:11:44
2	Sr 407.771†	241713.1	241158.0	0.2044	mg/L	0.2044	mg/L	07:10:54
2	Ti 337.279†	13703044.0	13686794.6	14.03	mg/L	14.03	mg/L	07:11:28
2	Tl 190.801†	19.9	27.0	-0.1889	mg/L	-0.1889	mg/L	07:11:44
2	V 292.402†	243030.9	243621.5	0.9291	mg/L	0.9291	mg/L	07:11:34
2	Zn 213.857†	96166.7	95174.2	0.5657	mg/L	0.5657	mg/L	07:11:34

Y 371.029	3403619.7	1.01 mg/L	0.008			0.75%
Ag 328.068†	-2075.3	0.0002 mg/L	0.00035	0.0002 mg/L	0.00035	227.95%
Al 237.313†	2528765.5	231.8 mg/L	0.12	231.8 mg/L	0.12	0.05%
As 188.979†	167.9	0.1038 mg/L	0.00410	0.1038 mg/L	0.00410	3.95%
B 249.677†	-62.8	-0.0231 mg/L	0.00078	-0.0231 mg/L	0.00078	3.40%
B 182.528†	52.5	0.0470 mg/L	0.00017	0.0470 mg/L	0.00017	0.35%
Ba 233.527†	99026.0	0.7513 mg/L	0.00582	0.7513 mg/L	0.00582	0.77%
Be 313.107†	17123.6	0.0030 mg/L	0.00006	0.0030 mg/L	0.00006	1.88%
Ca 315.887†	29367421.0	262.9 mg/L	1.12	262.9 mg/L	1.12	0.43%
Cd 228.802†	140.7	-0.0010 mg/L	0.00026	-0.0010 mg/L	0.00026	25.19%
Co 228.616†	15971.1	0.2225 mg/L	0.00079	0.2225 mg/L	0.00079	0.35%
Cr 267.716†	86761.3	0.6605 mg/L	0.00473	0.6605 mg/L	0.00473	0.72%
Cu 324.752†	122124.7	0.5397 mg/L	0.00623	0.5397 mg/L	0.00623	1.15%
Fe 234.349†	748912.0	370.4 mg/L	0.84	370.4 mg/L	0.84	0.23%
K 766.490†	84383.2	36.18 mg/L	0.219	36.18 mg/L	0.219	0.60%
Li 670.784†	6237.7	0.1484 mg/L	0.00280	0.1484 mg/L	0.00280	1.88%
Mg 279.077†	2366839.1	153.7 mg/L	0.32	153.7 mg/L	0.32	0.21%
Mn 257.610†	6740361.4	7.167 mg/L	0.0001	7.167 mg/L	0.0001	0.00%
Mn 294.920†	3440226.2	7.338 mg/L	0.0005	7.338 mg/L	0.0005	0.01%
Mo 202.031†	411.2	-0.0403 mg/L	0.00294	-0.0403 mg/L	0.00294	7.30%
Na 589.592†	7042.0	1.031 mg/L	0.0124	1.031 mg/L	0.0124	1.20%
Ni 231.604†	15493.1	0.2878 mg/L	0.00387	0.2878 mg/L	0.00387	1.34%
P 214.914†	18463.0	9.727 mg/L	0.0446	9.727 mg/L	0.0446	0.46%
Pb 220.353†	1975.7	0.0600 mg/L	0.00261	0.0600 mg/L	0.00261	4.35%
Sb 206.836†	121.0	-0.1091 mg/L	0.00112	-0.1091 mg/L	0.00112	1.02%
Se 196.026†	-147.8	-0.0555 mg/L	0.00533	-0.0555 mg/L	0.00533	9.60%
Sn 189.927†	-959.8	0.0463 mg/L	0.00085	0.0463 mg/L	0.00085	1.84%
Sr 407.771†	240959.7	0.2043 mg/L	0.00024	0.2043 mg/L	0.00024	0.12%
Ti 337.279†	13629331.3	13.97 mg/L	0.083	13.97 mg/L	0.083	0.60%
Tl 190.801†	30.0	-0.1862 mg/L	0.00378	-0.1862 mg/L	0.00378	2.03%
V 292.402†	242171.7	0.9236 mg/L	0.00783	0.9236 mg/L	0.00783	0.85%
Zn 213.857†	94465.9	0.5614 mg/L	0.00608	0.5614 mg/L	0.00608	1.08%

Sequence No.: 228
Sample ID: 1306410-01
Analyst:
Logged In Analyst (Original) : ICP3
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 6/26/2013 7:14:54 AM
Data Type: Reprocessed on 6/26/2013 10:58:35 AM
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1306410-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	Y 371.029	3619439.1	3619439.1	1.07 mg/L		07:16:49
1	Ag 328.068†	-758.1	-1445.0	-0.0022 mg/L	-0.0022 mg/L	07:16:51
1	Al 237.313†	996412.2	931204.5	85.38 mg/L	85.38 mg/L	07:16:49
1	As 188.979†	61.3	56.3	0.0367 mg/L	0.0367 mg/L	07:17:01
1	B 249.677†	-64.1	-44.7	-0.0157 mg/L	-0.0157 mg/L	07:16:39
1	B 182.528†	35.1	39.7	0.0365 mg/L	0.0365 mg/L	07:17:01
1	Ba 233.527†	26442.1	24789.1	0.1885 mg/L	0.1885 mg/L	07:16:51
1	Be 313.107†	20025.7	20140.2	0.0063 mg/L	0.0063 mg/L	07:16:51
1	Ca 315.887†	2312471.5	2160956.4	19.35 mg/L	19.35 mg/L	07:16:49
1	Cd 228.802†	244.6	81.0	0.0009 mg/L	0.0009 mg/L	07:17:01
1	Co 228.616†	4326.2	4219.3	0.0564 mg/L	0.0564 mg/L	07:17:01
1	Cr 267.716†	26463.2	24010.3	0.1832 mg/L	0.1832 mg/L	07:16:51
1	Cu 324.752†	39158.9	32624.3	0.1455 mg/L	0.1455 mg/L	07:16:51
1	Fe 234.349†	348035.3	325125.4	161.0 mg/L	161.0 mg/L	07:16:37
1	K 766.490†	14349.7	12659.9	5.550 mg/L	5.550 mg/L	07:16:39
1	Li 670.784†	6063.9	5937.3	0.1413 mg/L	0.1413 mg/L	07:16:39
1	Mg 279.077†	694310.5	648315.3	42.10 mg/L	42.10 mg/L	07:16:49
1	Mn 257.610†	3860231.0	3590052.8	3.826 mg/L	3.826 mg/L	07:16:49
1	Mn 294.920†	1937439.9	1810536.3	3.862 mg/L	3.862 mg/L	07:16:49
1	Mo 202.031†	862.4	816.0	0.0085 mg/L	0.0085 mg/L	07:16:51
1	Na 589.592†	12988.1	7906.6	1.147 mg/L	1.147 mg/L	07:16:39
1	Ni 231.604†	6014.3	5441.2	0.1008 mg/L	0.1008 mg/L	07:16:51
1	P 214.914†	11420.3	10714.5	5.665 mg/L	5.665 mg/L	07:16:51
1	Pb 220.353†	2479.6	2133.2	0.1056 mg/L	0.1056 mg/L	07:17:01
1	Sb 206.836†	89.4	38.7	-0.0494 mg/L	-0.0494 mg/L	07:17:01
1	Se 196.026†	-36.6	-51.0	-0.0143 mg/L	-0.0143 mg/L	07:17:01
1	Sn 189.927†	-235.0	-257.0	-0.0180 mg/L	-0.0180 mg/L	07:17:01
1	Sr 407.771†	88786.3	82695.8	0.0703 mg/L	0.0703 mg/L	07:16:37

1	Ti 337.279†	4267820.4	3988162.1	4.091 mg/L	4.091 mg/L	07:16:49
1	Tl 190.801†	-9.9	-2.1	-0.0768 mg/L	-0.0768 mg/L	07:17:01
1	V 292.402†	57400.5	54523.6	0.2081 mg/L	0.2081 mg/L	07:16:51
1	Zn 213.857†	95472.8	88318.2	0.5349 mg/L	0.5349 mg/L	07:16:51
2	Y 371.029	3641829.0	3641829.0	1.08 mg/L		07:17:04
2	Ag 328.068†	-789.7	-1470.0	-0.0023 mg/L	-0.0023 mg/L	07:17:06
2	Al 237.313†	998765.7	927666.9	85.05 mg/L	85.05 mg/L	07:17:04
2	As 188.979†	63.5	58.0	0.0377 mg/L	0.0377 mg/L	07:17:17
2	B 249.677†	-42.8	-24.5	-0.0074 mg/L	-0.0074 mg/L	07:16:44
2	B 182.528†	37.3	41.5	0.0380 mg/L	0.0380 mg/L	07:17:17
2	Ba 233.527†	26430.6	24626.5	0.1873 mg/L	0.1873 mg/L	07:17:06
2	Be 313.107†	19938.6	19944.3	0.0063 mg/L	0.0063 mg/L	07:17:06
2	Ca 315.887†	2313650.1	2148769.6	19.24 mg/L	19.24 mg/L	07:17:04
2	Cd 228.802†	244.7	79.8	0.0009 mg/L	0.0009 mg/L	07:17:17
2	Co 228.616†	4342.8	4209.8	0.0563 mg/L	0.0563 mg/L	07:17:17
2	Cr 267.716†	26321.0	23726.2	0.1810 mg/L	0.1810 mg/L	07:17:06
2	Cu 324.752†	38972.2	32226.1	0.1438 mg/L	0.1438 mg/L	07:17:06
2	Fe 234.349†	350989.8	325869.6	161.3 mg/L	161.3 mg/L	07:16:42
2	K 766.490†	14333.4	12562.4	5.508 mg/L	5.508 mg/L	07:16:44
2	Li 670.784†	6290.9	6113.3	0.1454 mg/L	0.1454 mg/L	07:16:44
2	Mg 279.077†	694342.3	644357.2	41.85 mg/L	41.85 mg/L	07:17:04
2	Mn 257.610†	3869479.9	3576469.4	3.811 mg/L	3.811 mg/L	07:17:04
2	Mn 294.920†	1942259.6	1803883.8	3.848 mg/L	3.848 mg/L	07:17:04
2	Mo 202.031†	908.8	854.2	0.0099 mg/L	0.0099 mg/L	07:17:06
2	Na 589.592†	13127.4	7961.3	1.154 mg/L	1.154 mg/L	07:16:44
2	Ni 231.604†	5972.0	5367.4	0.0994 mg/L	0.0994 mg/L	07:17:06
2	P 214.914†	11332.4	10567.3	5.588 mg/L	5.588 mg/L	07:17:06
2	Pb 220.353†	2452.4	2093.8	0.1033 mg/L	0.1033 mg/L	07:17:17
2	Sb 206.836†	92.9	41.4	-0.0485 mg/L	-0.0485 mg/L	07:17:17
2	Se 196.026†	-38.3	-52.4	-0.0150 mg/L	-0.0150 mg/L	07:17:17
2	Sn 189.927†	-253.6	-272.9	-0.0200 mg/L	-0.0200 mg/L	07:17:17
2	Sr 407.771†	89392.6	82748.7	0.0703 mg/L	0.0703 mg/L	07:16:42
2	Ti 337.279†	4282456.1	3977239.1	4.080 mg/L	4.080 mg/L	07:17:04
2	Tl 190.801†	-11.4	-3.5	-0.0780 mg/L	-0.0780 mg/L	07:17:17
2	V 292.402†	57134.7	53947.1	0.2059 mg/L	0.2059 mg/L	07:17:06
2	Zn 213.857†	94900.1	87238.2	0.5283 mg/L	0.5283 mg/L	07:17:06

Mean Data: 1306410-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3630634.0	1.07	mg/L	0.005			0.44%
Ag 328.068†	-1457.5	-0.0023	mg/L	0.00008	-0.0023 mg/L	0.00008	3.46%
Al 237.313†	929435.7	85.21	mg/L	0.229	85.21 mg/L	0.229	0.27%
As 188.979†	57.1	0.0372	mg/L	0.00073	0.0372 mg/L	0.00073	1.97%
B 249.677†	-34.6	-0.0116	mg/L	0.00581	-0.0116 mg/L	0.00581	50.28%
B 182.528†	40.6	0.0373	mg/L	0.00107	0.0373 mg/L	0.00107	2.87%
Ba 233.527†	24707.8	0.1879	mg/L	0.00087	0.1879 mg/L	0.00087	0.46%
Be 313.107†	20042.2	0.0063	mg/L	0.00005	0.0063 mg/L	0.00005	0.75%
Ca 315.887†	2154863.0	19.30	mg/L	0.077	19.30 mg/L	0.077	0.40%
Cd 228.802†	80.4	0.0009	mg/L	0.00003	0.0009 mg/L	0.00003	3.10%
Co 228.616†	4214.6	0.0564	mg/L	0.00009	0.0564 mg/L	0.00009	0.16%
Cr 267.716†	23868.3	0.1821	mg/L	0.00153	0.1821 mg/L	0.00153	0.84%
Cu 324.752†	32425.2	0.1447	mg/L	0.00121	0.1447 mg/L	0.00121	0.84%
Fe 234.349†	325497.5	161.1	mg/L	0.26	161.1 mg/L	0.26	0.16%
K 766.490†	12611.1	5.529	mg/L	0.0295	5.529 mg/L	0.0295	0.53%
Li 670.784†	6025.3	0.1434	mg/L	0.00292	0.1434 mg/L	0.00292	2.04%
Mg 279.077†	646336.3	41.97	mg/L	0.182	41.97 mg/L	0.182	0.43%
Mn 257.610†	3583261.1	3.818	mg/L	0.0104	3.818 mg/L	0.0104	0.27%
Mn 294.920†	1807210.0	3.855	mg/L	0.0100	3.855 mg/L	0.0100	0.26%
Mo 202.031†	835.1	0.0092	mg/L	0.00098	0.0092 mg/L	0.00098	10.67%
Na 589.592†	7934.0	1.150	mg/L	0.0052	1.150 mg/L	0.0052	0.45%
Ni 231.604†	5404.3	0.1001	mg/L	0.00097	0.1001 mg/L	0.00097	0.97%
P 214.914†	10640.9	5.627	mg/L	0.0546	5.627 mg/L	0.0546	0.97%
Pb 220.353†	2113.5	0.1044	mg/L	0.00157	0.1044 mg/L	0.00157	1.50%
Sb 206.836†	40.1	-0.0490	mg/L	0.00070	-0.0490 mg/L	0.00070	1.43%
Se 196.026†	-51.7	-0.0147	mg/L	0.00052	-0.0147 mg/L	0.00052	3.52%
Sn 189.927†	-265.0	-0.0190	mg/L	0.00143	-0.0190 mg/L	0.00143	7.52%
Sr 407.771†	82722.2	0.0703	mg/L	0.00003	0.0703 mg/L	0.00003	0.05%
Ti 337.279†	3982700.6	4.085	mg/L	0.0079	4.085 mg/L	0.0079	0.19%
Tl 190.801†	-2.8	-0.0774	mg/L	0.00084	-0.0774 mg/L	0.00084	1.08%
V 292.402†	54235.4	0.2070	mg/L	0.00157	0.2070 mg/L	0.00157	0.76%
Zn 213.857†	87778.2	0.5316	mg/L	0.00469	0.5316 mg/L	0.00469	0.88%

Sequence No.: 229

Sample ID: CCV1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/26/2013 7:18:57 AM

Data Type: Reprocessed on 6/26/2013 10:58:36 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3509520.1	3509520.1	1.04 mg/L			07:20:49
1	Ag 328.068†	52555.9	49897.0	0.2403 mg/L		0.2403 mg/L	07:20:49
1	Al 237.313†	27217.3	26609.3	2.448 mg/L		2.448 mg/L	07:20:59
1	As 188.979†	800.9	770.5	0.4732 mg/L		0.4732 mg/L	07:20:59
1	B 249.677†	1238.2	1208.1	0.4963 mg/L		0.4963 mg/L	07:20:39
1	B 182.528†	565.9	552.2	0.4575 mg/L		0.4575 mg/L	07:20:59
1	Ba 233.527†	65788.5	63470.2	0.4818 mg/L		0.4818 mg/L	07:20:49
1	Be 313.107†	128024.4	124774.9	0.0441 mg/L		0.0441 mg/L	07:20:49
1	Ca 315.887†	644185.3	621343.5	5.571 mg/L		5.571 mg/L	07:20:49
1	Cd 228.802†	8486.9	8029.1	0.2162 mg/L		0.2162 mg/L	07:20:59
1	Co 228.616†	32097.6	31101.6	0.4929 mg/L		0.4929 mg/L	07:20:59
1	Cr 267.716†	69732.3	66471.2	0.5065 mg/L		0.5065 mg/L	07:20:49
1	Cu 324.752†	126508.7	117925.2	0.5054 mg/L		0.5054 mg/L	07:20:49
1	Fe 234.349†	5179.5	4991.7	2.466 mg/L		2.466 mg/L	07:20:39
1	K 766.490†	56724.3	53904.6	23.16 mg/L		23.16 mg/L	07:20:37
1	Li 670.784†	20994.4	20499.2	0.4833 mg/L		0.4833 mg/L	07:20:39
1	Mg 279.077†	86276.7	82833.5	5.378 mg/L		5.378 mg/L	07:20:49
1	Mn 257.610†	497272.8	463031.9	0.4975 mg/L		0.4975 mg/L	07:20:49
1	Mn 294.920†	236387.1	228382.3	0.4870 mg/L		0.4870 mg/L	07:20:49
1	Mo 202.031†	13374.3	12895.6	0.4840 mg/L		0.4840 mg/L	07:20:59
1	Na 589.592†	183857.4	172906.7	23.25 mg/L		23.25 mg/L	07:20:37
1	Ni 231.604†	28298.1	27086.0	0.5042 mg/L		0.5042 mg/L	07:20:49
1	P 214.914†	8959.9	8678.2	4.591 mg/L		4.591 mg/L	07:20:59
1	Pb 220.353†	9038.7	8525.0	0.5015 mg/L		0.5015 mg/L	07:20:59
1	Sb 206.836†	1225.5	1135.9	0.4686 mg/L		0.4686 mg/L	07:20:59
1	Se 196.026†	1851.7	1767.1	0.9828 mg/L		0.9828 mg/L	07:20:59
1	Sn 189.927†	4246.0	4053.2	0.5028 mg/L		0.5028 mg/L	07:20:59
1	Sr 407.771†	56469.8	54158.9	0.0461 mg/L		0.0461 mg/L	07:20:37
1	Ti 337.279†	490635.0	473988.9	0.4886 mg/L		0.4886 mg/L	07:20:49
1	Tl 190.801†	759.8	739.2	0.5531 mg/L		0.5531 mg/L	07:20:59
1	V 292.402†	126983.1	123240.8	0.4918 mg/L		0.4918 mg/L	07:20:49
1	Zn 213.857†	83353.6	79435.7	0.4842 mg/L		0.4842 mg/L	07:20:49
2	Y 371.029	3506296.1	3506296.1	1.04 mg/L			07:21:03
2	Ag 328.068†	52511.1	49900.4	0.2404 mg/L		0.2404 mg/L	07:21:03
2	Al 237.313†	27097.6	26518.0	2.440 mg/L		2.440 mg/L	07:21:13
2	As 188.979†	793.8	764.5	0.4695 mg/L		0.4695 mg/L	07:21:13
2	B 249.677†	1199.4	1171.8	0.4815 mg/L		0.4815 mg/L	07:20:43
2	B 182.528†	578.0	564.4	0.4676 mg/L		0.4676 mg/L	07:21:13
2	Ba 233.527†	65601.5	63348.1	0.4808 mg/L		0.4808 mg/L	07:21:03
2	Be 313.107†	127593.7	124473.1	0.0440 mg/L		0.0440 mg/L	07:21:03
2	Ca 315.887†	643389.9	621147.2	5.569 mg/L		5.569 mg/L	07:21:03
2	Cd 228.802†	8472.9	8023.1	0.2160 mg/L		0.2160 mg/L	07:21:13
2	Co 228.616†	31973.9	31010.8	0.4915 mg/L		0.4915 mg/L	07:21:13
2	Cr 267.716†	69633.1	66437.3	0.5062 mg/L		0.5062 mg/L	07:21:03
2	Cu 324.752†	126348.6	117882.9	0.5052 mg/L		0.5052 mg/L	07:21:03
2	Fe 234.349†	5137.6	4956.0	2.448 mg/L		2.448 mg/L	07:20:43
2	K 766.490†	56655.2	53888.3	23.16 mg/L		23.16 mg/L	07:20:41
2	Li 670.784†	20574.7	20113.1	0.4742 mg/L		0.4742 mg/L	07:20:43
2	Mg 279.077†	86050.3	82691.6	5.368 mg/L		5.368 mg/L	07:21:03
2	Mn 257.610†	496321.9	462555.4	0.4970 mg/L		0.4970 mg/L	07:21:03
2	Mn 294.920†	236137.0	228350.6	0.4869 mg/L		0.4869 mg/L	07:21:03
2	Mo 202.031†	13358.0	12891.7	0.4839 mg/L		0.4839 mg/L	07:21:13
2	Na 589.592†	183603.2	172824.4	23.24 mg/L		23.24 mg/L	07:20:41
2	Ni 231.604†	28289.3	27102.6	0.5045 mg/L		0.5045 mg/L	07:21:03
2	P 214.914†	8915.5	8643.4	4.572 mg/L		4.572 mg/L	07:21:13
2	Pb 220.353†	8908.4	8407.4	0.4946 mg/L		0.4946 mg/L	07:21:13
2	Sb 206.836†	1215.5	1127.3	0.4651 mg/L		0.4651 mg/L	07:21:13
2	Se 196.026†	1828.9	1746.7	0.9715 mg/L		0.9715 mg/L	07:21:13
2	Sn 189.927†	4243.4	4054.5	0.5029 mg/L		0.5029 mg/L	07:21:13
2	Sr 407.771†	56506.3	54244.1	0.0462 mg/L		0.0462 mg/L	07:20:41

2	Ti 337.279†	489348.7	473183.2	0.4878 mg/L	0.4878 mg/L	07:21:03
2	Tl 190.801†	752.9	733.1	0.5485 mg/L	0.5485 mg/L	07:21:13
2	V 292.402†	126571.1	122956.0	0.4907 mg/L	0.4907 mg/L	07:21:03
2	Zn 213.857†	83472.0	79623.7	0.4853 mg/L	0.4853 mg/L	07:21:03

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3507908.1	1.04 mg/L	0.001			0.06%
Ag 328.068†	49898.7	0.2404 mg/L	0.00001	0.2404 mg/L	0.00001	0.00%
	QC value within limits for Ag 328.068 Recovery = 96.14%					
Al 237.313†	26563.7	2.444 mg/L	0.0059	2.444 mg/L	0.0059	0.24%
	QC value within limits for Al 237.313 Recovery = 97.77%					
As 188.979†	767.5	0.4714 mg/L	0.00262	0.4714 mg/L	0.00262	0.56%
	QC value within limits for As 188.979 Recovery = 94.27%					
B 249.677†	1189.9	0.4889 mg/L	0.01047	0.4889 mg/L	0.01047	2.14%
	QC value within limits for B 249.677 Recovery = 97.78%					
B 182.528†	558.3	0.4626 mg/L	0.00708	0.4626 mg/L	0.00708	1.53%
	QC value within limits for B 182.528 Recovery = 92.51%					
Ba 233.527†	63409.1	0.4813 mg/L	0.00065	0.4813 mg/L	0.00065	0.14%
	QC value within limits for Ba 233.527 Recovery = 96.26%					
Be 313.107†	124624.0	0.0441 mg/L	0.00008	0.0441 mg/L	0.00008	0.17%
	QC value less than the lower limit for Be 313.107 Recovery = 88.10%					
Ca 315.887†	621245.3	5.570 mg/L	0.0012	5.570 mg/L	0.0012	0.02%
	QC value greater than the upper limit for Ca 315.887 Recovery = 111.40%					
Cd 228.802†	8026.1	0.2161 mg/L	0.00011	0.2161 mg/L	0.00011	0.05%
	QC value less than the lower limit for Cd 228.802 Recovery = 86.45%					
Co 228.616†	31056.2	0.4922 mg/L	0.00102	0.4922 mg/L	0.00102	0.21%
	QC value within limits for Co 228.616 Recovery = 98.44%					
Cr 267.716†	66454.2	0.5064 mg/L	0.00018	0.5064 mg/L	0.00018	0.04%
	QC value within limits for Cr 267.716 Recovery = 101.27%					
Cu 324.752†	117904.0	0.5053 mg/L	0.00013	0.5053 mg/L	0.00013	0.03%
	QC value within limits for Cu 324.752 Recovery = 101.05%					
Fe 234.349†	4973.8	2.457 mg/L	0.0125	2.457 mg/L	0.0125	0.51%
	QC value within limits for Fe 234.349 Recovery = 98.27%					
K 766.490†	53896.5	23.16 mg/L	0.005	23.16 mg/L	0.005	0.02%
	QC value within limits for K 766.490 Recovery = 92.64%					
Li 670.784†	20306.1	0.4787 mg/L	0.00641	0.4787 mg/L	0.00641	1.34%
	QC value within limits for Li 670.784 Recovery = 95.74%					
Mg 279.077†	82762.5	5.373 mg/L	0.0065	5.373 mg/L	0.0065	0.12%
	QC value within limits for Mg 279.077 Recovery = 107.46%					
Mn 257.610†	462793.6	0.4972 mg/L	0.00036	0.4972 mg/L	0.00036	0.07%
	QC value within limits for Mn 257.610 Recovery = 99.45%					
Mn 294.920†	228366.4	0.4869 mg/L	0.00005	0.4869 mg/L	0.00005	0.01%
	QC value within limits for Mn 294.920 Recovery = 97.39%					
Mo 202.031†	12893.6	0.4840 mg/L	0.00010	0.4840 mg/L	0.00010	0.02%
	QC value within limits for Mo 202.031 Recovery = 96.79%					
Na 589.592†	172865.6	23.25 mg/L	0.008	23.25 mg/L	0.008	0.03%
	QC value within limits for Na 589.592 Recovery = 93.00%					
Ni 231.604†	27094.3	0.5044 mg/L	0.00022	0.5044 mg/L	0.00022	0.04%
	QC value within limits for Ni 231.604 Recovery = 100.87%					
P 214.914†	8660.8	4.581 mg/L	0.0129	4.581 mg/L	0.0129	0.28%
	QC value within limits for P 214.914 Recovery = 91.63%					
Pb 220.353†	8466.2	0.4981 mg/L	0.00486	0.4981 mg/L	0.00486	0.98%
	QC value within limits for Pb 220.353 Recovery = 99.61%					
Sb 206.836†	1131.6	0.4668 mg/L	0.00249	0.4668 mg/L	0.00249	0.53%
	QC value within limits for Sb 206.836 Recovery = 93.37%					
Se 196.026†	1756.9	0.9771 mg/L	0.00799	0.9771 mg/L	0.00799	0.82%
	QC value within limits for Se 196.026 Recovery = 97.71%					
Sn 189.927†	4053.8	0.5029 mg/L	0.00011	0.5029 mg/L	0.00011	0.02%
	QC value within limits for Sn 189.927 Recovery = 100.57%					
Sr 407.771†	54201.5	0.0462 mg/L	0.00005	0.0462 mg/L	0.00005	0.11%
	QC value within limits for Sr 407.771 Recovery = 92.36%					
Ti 337.279†	473586.1	0.4882 mg/L	0.00058	0.4882 mg/L	0.00058	0.12%
	QC value within limits for Ti 337.279 Recovery = 97.65%					
Tl 190.801†	736.1	0.5508 mg/L	0.00321	0.5508 mg/L	0.00321	0.58%
	QC value greater than the upper limit for Tl 190.801 Recovery = 110.16%					
V 292.402†	123098.4	0.4912 mg/L	0.00079	0.4912 mg/L	0.00079	0.16%
	QC value within limits for V 292.402 Recovery = 98.25%					
Zn 213.857†	79529.7	0.4848 mg/L	0.00082	0.4848 mg/L	0.00082	0.17%
	QC value within limits for Zn 213.857 Recovery = 96.95%					
QC Failed. Continue with analysis.						

Sequence No.: 230

Sample ID: CCB1

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/26/2013 7:22:51 AM

Data Type: Reprocessed on 6/26/2013 10:58:37 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3524495.8	3524495.8	1.04 mg/L		07:24:58
1	Ag 328.068†	791.3	22.3	0.0008 mg/L	0.0008 mg/L	07:25:01
1	Al 237.313†	-468.5	-62.0	0.0014 mg/L	0.0014 mg/L	07:25:01
1	As 188.979†	0.7	-0.3	0.0024 mg/L	0.0024 mg/L	07:25:11
1	B 249.677†	-19.1	-3.2	0.0012 mg/L	0.0012 mg/L	07:24:42
1	B 182.528†	0.9	7.9	0.0103 mg/L	0.0103 mg/L	07:25:11
1	Ba 233.527†	-44.0	45.5	0.0009 mg/L	0.0009 mg/L	07:25:11
1	Be 313.107†	-1258.5	225.4	0.0003 mg/L	0.0003 mg/L	07:25:01
1	Ca 315.887†	788.5	1474.4	0.0215 mg/L	0.0215 mg/L	07:25:01
1	Cd 228.802†	144.1	-9.2	0.0013 mg/L	0.0013 mg/L	07:25:11
1	Co 228.616†	-164.5	20.1	-0.0018 mg/L	-0.0018 mg/L	07:25:11
1	Cr 267.716†	677.0	-61.3	0.0000 mg/L	0.0000 mg/L	07:25:01
1	Cu 324.752†	3588.2	-514.4	-0.0009 mg/L	-0.0009 mg/L	07:25:01
1	Fe 234.349†	15.2	16.3	0.0186 mg/L	0.0186 mg/L	07:24:42
1	K 766.490†	700.4	-73.2	0.1122 mg/L	0.1122 mg/L	07:24:32
1	Li 670.784†	-163.4	115.9	0.0046 mg/L	0.0046 mg/L	07:24:32
1	Mg 279.077†	412.8	108.1	0.0050 mg/L	0.0050 mg/L	07:25:01
1	Mn 257.610†	17407.3	645.2	0.0006 mg/L	0.0006 mg/L	07:25:01
1	Mn 294.920†	-16.2	625.1	0.0012 mg/L	0.0012 mg/L	07:25:01
1	Mo 202.031†	5.3	15.6	0.0034 mg/L	0.0034 mg/L	07:25:11
1	Na 589.592†	4327.2	-75.2	0.0771 mg/L	0.0771 mg/L	07:24:32
1	Ni 231.604†	163.1	-20.7	-0.0009 mg/L	-0.0009 mg/L	07:25:01
1	P 214.914†	-12.9	33.7	0.0662 mg/L	0.0662 mg/L	07:25:11
1	Pb 220.353†	204.0	12.6	0.0027 mg/L	0.0027 mg/L	07:25:11
1	Sb 206.836†	48.3	1.6	0.0050 mg/L	0.0050 mg/L	07:25:11
1	Se 196.026†	25.1	7.3	0.0085 mg/L	0.0085 mg/L	07:25:11
1	Sn 189.927†	43.9	4.7	0.0022 mg/L	0.0022 mg/L	07:25:11
1	Sr 407.771†	184.0	-69.2	0.0002 mg/L	0.0002 mg/L	07:24:32
1	Ti 337.279†	-946.7	389.7	0.0032 mg/L	0.0032 mg/L	07:25:01
1	Tl 190.801†	-11.6	-4.0	-0.0034 mg/L	-0.0034 mg/L	07:25:11
1	V 292.402†	-713.0	217.8	0.0032 mg/L	0.0032 mg/L	07:25:01
1	Zn 213.857†	908.3	2.0	0.0005 mg/L	0.0005 mg/L	07:25:11
2	Y 371.029	3505095.7	3505095.7	1.04 mg/L		07:25:13
2	Ag 328.068†	764.6	0.8	0.0007 mg/L	0.0007 mg/L	07:25:15
2	Al 237.313†	-377.1	23.7	0.0093 mg/L	0.0093 mg/L	07:25:15
2	As 188.979†	-0.6	-1.6	0.0016 mg/L	0.0016 mg/L	07:25:26
2	B 249.677†	-11.7	3.9	0.0041 mg/L	0.0041 mg/L	07:24:55
2	B 182.528†	-3.2	3.9	0.0071 mg/L	0.0071 mg/L	07:25:26
2	Ba 233.527†	-38.7	50.4	0.0010 mg/L	0.0010 mg/L	07:25:26
2	Be 313.107†	-1372.8	108.5	0.0003 mg/L	0.0003 mg/L	07:25:15
2	Ca 315.887†	759.2	1450.4	0.0213 mg/L	0.0213 mg/L	07:25:15
2	Cd 228.802†	157.3	4.3	0.0016 mg/L	0.0016 mg/L	07:25:26
2	Co 228.616†	-206.2	-21.0	-0.0024 mg/L	-0.0024 mg/L	07:25:26
2	Cr 267.716†	710.5	-25.5	0.0003 mg/L	0.0003 mg/L	07:25:15
2	Cu 324.752†	3717.5	-370.6	-0.0003 mg/L	-0.0003 mg/L	07:25:15
2	Fe 234.349†	26.9	27.6	0.0243 mg/L	0.0243 mg/L	07:24:55
2	K 766.490†	722.0	-48.6	0.1227 mg/L	0.1227 mg/L	07:24:45
2	Li 670.784†	-327.4	-43.2	0.0009 mg/L	0.0009 mg/L	07:24:45
2	Mg 279.077†	418.6	115.9	0.0055 mg/L	0.0055 mg/L	07:25:15
2	Mn 257.610†	17393.8	724.6	0.0007 mg/L	0.0007 mg/L	07:25:15
2	Mn 294.920†	84.6	722.2	0.0014 mg/L	0.0014 mg/L	07:25:15
2	Mo 202.031†	21.2	30.8	0.0039 mg/L	0.0039 mg/L	07:25:26
2	Na 589.592†	4278.0	-99.7	0.0738 mg/L	0.0738 mg/L	07:24:45
2	Ni 231.604†	116.0	-65.2	-0.0017 mg/L	-0.0017 mg/L	07:25:15
2	P 214.914†	-15.6	31.0	0.0648 mg/L	0.0648 mg/L	07:25:26
2	Pb 220.353†	233.2	41.9	0.0044 mg/L	0.0044 mg/L	07:25:26
2	Sb 206.836†	37.5	-8.6	0.0008 mg/L	0.0008 mg/L	07:25:26
2	Se 196.026†	14.4	-3.0	0.0028 mg/L	0.0028 mg/L	07:25:26
2	Sn 189.927†	41.0	2.1	0.0018 mg/L	0.0018 mg/L	07:25:26
2	Sr 407.771†	373.5	114.7	0.0004 mg/L	0.0004 mg/L	07:24:45

2	Ti 337.279†	-965.9	366.1	0.0032 mg/L	0.0032 mg/L	07:25:15
2	Tl 190.801†	-5.2	2.1	0.0012 mg/L	0.0012 mg/L	07:25:26
2	V 292.402†	-752.1	176.4	0.0030 mg/L	0.0030 mg/L	07:25:15
2	Zn 213.857†	882.5	-18.1	0.0004 mg/L	0.0004 mg/L	07:25:26

Mean Data: CCBl

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3514795.7	1.04 mg/L	0.004			0.39%
Ag 328.068†	11.5	0.0007 mg/L	0.00007	0.0007 mg/L	0.00007	10.32%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	-19.2	0.0053 mg/L	0.00555	0.0053 mg/L	0.00555	104.01%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	-1.0	0.0020 mg/L	0.00056	0.0020 mg/L	0.00056	27.57%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 249.677†	0.4	0.0027 mg/L	0.00203	0.0027 mg/L	0.00203	76.19%
QC value within limits for B 249.677		Recovery =	Not calculated			
B 182.528†	5.9	0.0087 mg/L	0.00232	0.0087 mg/L	0.00232	26.67%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	48.0	0.0010 mg/L	0.00003	0.0010 mg/L	0.00003	2.73%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	167.0	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	10.70%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.887†	1462.4	0.0214 mg/L	0.00015	0.0214 mg/L	0.00015	0.72%
QC value within limits for Ca 315.887		Recovery =	Not calculated			
Cd 228.802†	-2.4	0.0014 mg/L	0.00026	0.0014 mg/L	0.00026	17.81%
QC value greater than the upper limit for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	-0.5	-0.0021 mg/L	0.00046	-0.0021 mg/L	0.00046	22.21%
QC value less than the lower limit for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-43.4	0.0002 mg/L	0.00019	0.0002 mg/L	0.00019	108.50%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	-442.5	-0.0006 mg/L	0.00043	-0.0006 mg/L	0.00043	75.60%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	21.9	0.0214 mg/L	0.00399	0.0214 mg/L	0.00399	18.61%
QC value greater than the upper limit for Fe 234.349		Recovery =	Not calculated			
K 766.490†	-60.9	0.1174 mg/L	0.00741	0.1174 mg/L	0.00741	6.31%
QC value within limits for K 766.490		Recovery =	Not calculated			
Li 670.784†	36.4	0.0027 mg/L	0.00264	0.0027 mg/L	0.00264	96.04%
QC value within limits for Li 670.784		Recovery =	Not calculated			
Mg 279.077†	112.0	0.0053 mg/L	0.00036	0.0053 mg/L	0.00036	6.81%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	684.9	0.0007 mg/L	0.00006	0.0007 mg/L	0.00006	8.90%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mn 294.920†	673.7	0.0013 mg/L	0.00015	0.0013 mg/L	0.00015	11.59%
QC value within limits for Mn 294.920		Recovery =	Not calculated			
Mo 202.031†	23.2	0.0037 mg/L	0.00040	0.0037 mg/L	0.00040	11.01%
QC value greater than the upper limit for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	-87.5	0.0754 mg/L	0.00232	0.0754 mg/L	0.00232	3.07%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	-43.0	-0.0013 mg/L	0.00058	-0.0013 mg/L	0.00058	44.27%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
P 214.914†	32.3	0.0655 mg/L	0.00099	0.0655 mg/L	0.00099	1.51%
QC value greater than the upper limit for P 214.914		Recovery =	Not calculated			
Pb 220.353†	27.2	0.0035 mg/L	0.00121	0.0035 mg/L	0.00121	34.34%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-3.5	0.0029 mg/L	0.00295	0.0029 mg/L	0.00295	100.71%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	2.1	0.0056 mg/L	0.00399	0.0056 mg/L	0.00399	70.96%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	3.4	0.0020 mg/L	0.00022	0.0020 mg/L	0.00022	11.08%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Sr 407.771†	22.8	0.0003 mg/L	0.00011	0.0003 mg/L	0.00011	34.62%
QC value within limits for Sr 407.771		Recovery =	Not calculated			
Ti 337.279†	377.9	0.0032 mg/L	0.00002	0.0032 mg/L	0.00002	0.54%
QC value greater than the upper limit for Ti 337.279		Recovery =	Not calculated			
Tl 190.801†	-1.0	-0.0011 mg/L	0.00325	-0.0011 mg/L	0.00325	295.53%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	197.1	0.0031 mg/L	0.00011	0.0031 mg/L	0.00011	3.46%
QC value greater than the upper limit for V 292.402		Recovery =	Not calculated			
Zn 213.857†	-8.1	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	19.10%
QC value within limits for Zn 213.857		Recovery =	Not calculated			
QC Failed.	Continue with analysis.					

Sequence No.: 231

Sample ID: IFA

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 160

Date Collected: 6/26/2013 7:27:03 AM

Data Type: Reprocessed on 6/26/2013 10:58:37 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: IFA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3195068.0	3195068.0	0.945 mg/L			07:29:00
1	Ag 328.068†	271.7	-449.3	0.0009 mg/L		0.0009 mg/L	07:29:02
1	Al 237.313†	2644912.2	2799354.2	256.6 mg/L		256.6 mg/L	07:29:00
1	As 188.979†	29.6	30.2	0.0211 mg/L		0.0211 mg/L	07:29:12
1	B 249.677†	-11.8	2.7	0.0036 mg/L		0.0036 mg/L	07:28:45
1	B 182.528†	26.1	34.6	0.0323 mg/L		0.0323 mg/L	07:29:12
1	Ba 233.527†	164.9	262.2	0.0026 mg/L		0.0026 mg/L	07:29:12
1	Be 313.107†	6383.3	8187.9	0.0006 mg/L		0.0006 mg/L	07:29:02
1	Ca 315.887†	29148817.7	30847326.3	276.1 mg/L		276.1 mg/L	07:28:57
1	Cd 228.802†	182.1	45.3	0.0011 mg/L		0.0011 mg/L	07:29:12
1	Co 228.616†	930.9	1163.0	-0.0057 mg/L		-0.0057 mg/L	07:29:12
1	Cr 267.716†	832.4	170.1	0.0018 mg/L		0.0018 mg/L	07:29:12
1	Cu 324.752†	1183.4	-2704.4	0.0021 mg/L		0.0021 mg/L	07:29:02
1	Fe 234.349†	183305.7	193984.1	95.61 mg/L		95.61 mg/L	07:28:43
1	K 766.490†	863.8	169.1	0.2156 mg/L		0.2156 mg/L	07:28:45
1	Li 670.784†	-210.8	49.5	0.0031 mg/L		0.0031 mg/L	07:28:45
1	Mg 279.077†	4068635.1	4305327.4	279.6 mg/L		279.6 mg/L	07:29:00
1	Mn 257.610†	32201.2	18022.6	-0.0024 mg/L		-0.0024 mg/L	07:29:02
1	Mn 294.920†	25572.9	27703.0	0.0589 mg/L		0.0589 mg/L	07:29:02
1	Mo 202.031†	306.8	335.1	0.0010 mg/L		0.0010 mg/L	07:29:12
1	Na 589.592†	4927.9	988.4	0.2196 mg/L		0.2196 mg/L	07:28:45
1	Ni 231.604†	99.6	-71.7	-0.0018 mg/L		-0.0018 mg/L	07:29:12
1	P 214.914†	-292.3	-263.3	-0.0895 mg/L		-0.0895 mg/L	07:29:12
1	Pb 220.353†	1198.7	1085.4	0.0017 mg/L		0.0017 mg/L	07:29:12
1	Sb 206.836†	108.8	70.3	-0.0076 mg/L		-0.0076 mg/L	07:29:12
1	Se 196.026†	17.7	1.9	0.0112 mg/L		0.0112 mg/L	07:29:12
1	Sn 189.927†	-1076.0	-1176.2	0.0279 mg/L		0.0279 mg/L	07:29:12
1	Sr 407.771†	8577.3	8831.2	0.0078 mg/L		0.0078 mg/L	07:28:45
1	Ti 337.279†	9521750.5	10077648.5	10.33 mg/L		10.33 mg/L	07:29:00
1	Tl 190.801†	48.6	58.5	-0.0410 mg/L		-0.0410 mg/L	07:29:12
1	V 292.402†	4027.5	5164.0	0.0019 mg/L		0.0019 mg/L	07:29:12
1	Zn 213.857†	1525.3	744.7	0.0008 mg/L		0.0008 mg/L	07:29:12
2	Y 371.029	3215662.1	3215662.1	0.951 mg/L			07:29:21
2	Ag 328.068†	309.9	-410.9	0.0011 mg/L		0.0011 mg/L	07:29:23
2	Al 237.313†	2657378.5	2794536.6	256.2 mg/L		256.2 mg/L	07:29:21
2	As 188.979†	9.2	8.6	0.0079 mg/L		0.0079 mg/L	07:29:33
2	B 249.677†	-43.3	-30.3	-0.0098 mg/L		-0.0098 mg/L	07:28:50
2	B 182.528†	29.7	38.2	0.0352 mg/L		0.0352 mg/L	07:29:33
2	Ba 233.527†	123.7	217.8	0.0022 mg/L		0.0022 mg/L	07:29:33
2	Be 313.107†	6467.2	8232.8	0.0006 mg/L		0.0006 mg/L	07:29:23
2	Ca 315.887†	28880770.7	30367932.7	271.8 mg/L		271.8 mg/L	07:29:18
2	Cd 228.802†	172.8	34.2	0.0008 mg/L		0.0008 mg/L	07:29:33
2	Co 228.616†	940.9	1167.2	-0.0056 mg/L		-0.0056 mg/L	07:29:33
2	Cr 267.716†	852.2	185.3	0.0019 mg/L		0.0019 mg/L	07:29:33
2	Cu 324.752†	1091.7	-2808.8	0.0016 mg/L		0.0016 mg/L	07:29:23
2	Fe 234.349†	185174.0	194706.2	95.97 mg/L		95.97 mg/L	07:28:48
2	K 766.490†	719.5	11.4	0.1483 mg/L		0.1483 mg/L	07:28:50
2	Li 670.784†	-115.7	150.9	0.0054 mg/L		0.0054 mg/L	07:28:50
2	Mg 279.077†	4076363.2	4285878.8	278.3 mg/L		278.3 mg/L	07:29:21
2	Mn 257.610†	32191.7	17794.3	-0.0027 mg/L		-0.0027 mg/L	07:29:23
2	Mn 294.920†	25492.9	27445.5	0.0584 mg/L		0.0584 mg/L	07:29:23
2	Mo 202.031†	260.0	283.8	-0.0010 mg/L		-0.0010 mg/L	07:29:33
2	Na 589.592†	4937.8	965.4	0.2165 mg/L		0.2165 mg/L	07:28:50
2	Ni 231.604†	105.3	-66.5	-0.0017 mg/L		-0.0017 mg/L	07:29:33
2	P 214.914†	-269.4	-237.2	-0.0758 mg/L		-0.0758 mg/L	07:29:33
2	Pb 220.353†	1216.2	1095.7	0.0024 mg/L		0.0024 mg/L	07:29:33
2	Sb 206.836†	101.9	62.3	-0.0110 mg/L		-0.0110 mg/L	07:29:33
2	Se 196.026†	0.0	-16.8	0.0008 mg/L		0.0008 mg/L	07:29:33
2	Sn 189.927†	-1045.7	-1137.0	0.0300 mg/L		0.0300 mg/L	07:29:33
2	Sr 407.771†	8496.8	8688.5	0.0077 mg/L		0.0077 mg/L	07:28:50

2	Ti 337.279†	9557967.4	10051197.5	10.31 mg/L	10.31 mg/L	07:29:21
2	Tl 190.801†	39.1	48.3	-0.0483 mg/L	-0.0483 mg/L	07:29:33
2	V 292.402†	4025.1	5134.1	0.0018 mg/L	0.0018 mg/L	07:29:33
2	Zn 213.857†	1514.0	722.5	0.0006 mg/L	0.0006 mg/L	07:29:33

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3205365.0	0.948 mg/L	0.0043			0.45%
Ag 328.068†	-430.1	0.0010 mg/L	0.00014	0.0010 mg/L	0.00014	13.72%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	2796945.4	256.4 mg/L	0.31	256.4 mg/L	0.31	0.12%
QC value within limits for Al 237.313 Recovery = 102.57%						
As 188.979†	19.4	0.0145 mg/L	0.00935	0.0145 mg/L	0.00935	64.49%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B 249.677†	-13.8	-0.0031 mg/L	0.00953	-0.0031 mg/L	0.00953	307.21%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	36.4	0.0338 mg/L	0.00208	0.0338 mg/L	0.00208	6.15%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba 233.527†	240.0	0.0024 mg/L	0.00024	0.0024 mg/L	0.00024	9.85%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	8210.3	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	2.51%
QC value greater than the upper limit for Be 313.107 Recovery = Not calculated						
Ca 315.887†	30607629.5	273.9 mg/L	3.03	273.9 mg/L	3.03	1.11%
QC value within limits for Ca 315.887 Recovery = 109.58%						
Cd 228.802†	39.8	0.0009 mg/L	0.00021	0.0009 mg/L	0.00021	22.96%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	1165.1	-0.0056 mg/L	0.00009	-0.0056 mg/L	0.00009	1.56%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	177.7	0.0019 mg/L	0.00008	0.0019 mg/L	0.00008	4.31%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2756.6	0.0019 mg/L	0.00034	0.0019 mg/L	0.00034	18.02%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	194345.2	95.79 mg/L	0.258	95.79 mg/L	0.258	0.27%
QC value within limits for Fe 234.349 Recovery = 95.79%						
K 766.490†	90.2	0.1820 mg/L	0.04760	0.1820 mg/L	0.04760	26.16%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	100.2	0.0042 mg/L	0.00168	0.0042 mg/L	0.00168	39.61%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	4295603.1	278.9 mg/L	0.89	278.9 mg/L	0.89	0.32%
QC value within limits for Mg 279.077 Recovery = 111.57%						
Mn 257.610†	17908.5	-0.0025 mg/L	0.00023	-0.0025 mg/L	0.00023	9.05%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	27574.3	0.0586 mg/L	0.00039	0.0586 mg/L	0.00039	0.66%
QC value greater than the upper limit for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	309.4	0.0000 mg/L	0.00140	0.0000 mg/L	0.00140	>999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592†	976.9	0.2180 mg/L	0.00218	0.2180 mg/L	0.00218	1.00%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-69.1	-0.0018 mg/L	0.00007	-0.0018 mg/L	0.00007	3.75%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-250.3	-0.0826 mg/L	0.00969	-0.0826 mg/L	0.00969	11.73%
QC value less than the lower limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	1090.6	0.0021 mg/L	0.00050	0.0021 mg/L	0.00050	24.12%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	66.3	-0.0093 mg/L	0.00244	-0.0093 mg/L	0.00244	26.23%
QC value less than the lower limit for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-7.5	0.0060 mg/L	0.00731	0.0060 mg/L	0.00731	122.13%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1156.6	0.0289 mg/L	0.00152	0.0289 mg/L	0.00152	5.26%
QC value greater than the upper limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	8759.9	0.0077 mg/L	0.00009	0.0077 mg/L	0.00009	1.11%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	10064423.0	10.32 mg/L	0.019	10.32 mg/L	0.019	0.19%
QC value within limits for Ti 337.279 Recovery = 103.19%						
Tl 190.801†	53.4	-0.0446 mg/L	0.00511	-0.0446 mg/L	0.00511	11.44%
QC value less than the lower limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	5149.0	0.0019 mg/L	0.00006	0.0019 mg/L	0.00006	3.37%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	733.6	0.0007 mg/L	0.00011	0.0007 mg/L	0.00011	15.82%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 232

Sample ID: IFB

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 159

Date Collected: 6/26/2013 7:31:12 AM

Data Type: Reprocessed on 6/26/2013 10:58:38 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: IFB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3282228.7	3282228.7	0.971 mg/L			07:33:09
1	Ag 328.068†	102445.9	104797.1	0.5061 mg/L		0.5061 mg/L	07:33:11
1	Al 237.313†	2600556.8	2679334.2	245.6 mg/L		245.6 mg/L	07:33:09
1	As 188.979†	3.2	2.3	0.0036 mg/L		0.0036 mg/L	07:33:21
1	B 249.677†	-43.0	-29.1	-0.0093 mg/L		-0.0093 mg/L	07:32:54
1	B 182.528†	26.3	34.0	0.0318 mg/L		0.0318 mg/L	07:33:21
1	Ba 233.527†	30444.6	31450.0	0.2390 mg/L		0.2390 mg/L	07:33:11
1	Be 313.107†	608700.2	628481.4	0.2216 mg/L		0.2216 mg/L	07:33:09
1	Ca 315.887†	28898993.8	29770829.5	266.5 mg/L		266.5 mg/L	07:33:06
1	Cd 228.802†	15597.9	15920.6	0.4257 mg/L		0.4257 mg/L	07:33:21
1	Co 228.616†	13372.8	13953.8	0.2203 mg/L		0.2203 mg/L	07:33:21
1	Cr 267.716†	32442.3	32709.4	0.2493 mg/L		0.2493 mg/L	07:33:11
1	Cu 324.752†	60082.5	57937.0	0.2488 mg/L		0.2488 mg/L	07:33:11
1	Fe 234.349†	182128.2	187619.8	92.46 mg/L		92.46 mg/L	07:32:52
1	K 766.490†	728.3	5.1	0.1456 mg/L		0.1456 mg/L	07:32:54
1	Li 670.784†	-90.6	179.3	0.0061 mg/L		0.0061 mg/L	07:32:54
1	Mg 279.077†	4061159.5	4183289.4	271.6 mg/L		271.6 mg/L	07:33:09
1	Mn 257.610†	246353.5	237725.2	0.2347 mg/L		0.2347 mg/L	07:33:11
1	Mn 294.920†	131152.0	135746.0	0.2894 mg/L		0.2894 mg/L	07:33:11
1	Mo 202.031†	261.3	279.5	-0.0020 mg/L		-0.0020 mg/L	07:33:21
1	Na 589.592†	4927.8	849.8	0.2010 mg/L		0.2010 mg/L	07:32:54
1	Ni 231.604†	23987.7	24533.6	0.4560 mg/L		0.4560 mg/L	07:33:11
1	P 214.914†	-298.2	-261.1	-0.0900 mg/L		-0.0900 mg/L	07:33:21
1	Pb 220.353†	9113.5	9205.1	0.4793 mg/L		0.4793 mg/L	07:33:21
1	Sb 206.836†	111.5	70.0	-0.0084 mg/L		-0.0084 mg/L	07:33:21
1	Se 196.026†	5.1	-11.6	0.0035 mg/L		0.0035 mg/L	07:33:21
1	Sn 189.927†	-1087.4	-1157.6	0.0242 mg/L		0.0242 mg/L	07:33:21
1	Sr 407.771†	8347.4	8353.4	0.0074 mg/L		0.0074 mg/L	07:32:54
1	Ti 337.279†	825.4	2148.2	0.0050 mg/L		0.0050 mg/L	07:33:11
1	Tl 190.801†	32.9	41.0	-0.0526 mg/L		-0.0526 mg/L	07:33:21
1	V 292.402†	62122.1	64896.5	0.2570 mg/L		0.2570 mg/L	07:33:11
1	Zn 213.857†	76388.5	77821.7	0.4709 mg/L		0.4709 mg/L	07:33:11
2	Y 371.029	3278866.7	3278866.7	0.970 mg/L			07:33:30
2	Ag 328.068†	102795.6	105266.0	0.5084 mg/L		0.5084 mg/L	07:33:32
2	Al 237.313†	2595983.4	2677365.0	245.5 mg/L		245.5 mg/L	07:33:30
2	As 188.979†	7.2	6.4	0.0061 mg/L		0.0061 mg/L	07:33:42
2	B 249.677†	-44.6	-30.8	-0.0100 mg/L		-0.0100 mg/L	07:32:58
2	B 182.528†	27.1	34.9	0.0326 mg/L		0.0326 mg/L	07:33:42
2	Ba 233.527†	30553.8	31594.8	0.2401 mg/L		0.2401 mg/L	07:33:32
2	Be 313.107†	607021.1	627392.8	0.2213 mg/L		0.2213 mg/L	07:33:30
2	Ca 315.887†	28540224.5	29431391.8	263.4 mg/L		263.4 mg/L	07:33:27
2	Cd 228.802†	15548.8	15886.5	0.4248 mg/L		0.4248 mg/L	07:33:42
2	Co 228.616†	13351.7	13946.2	0.2202 mg/L		0.2202 mg/L	07:33:42
2	Cr 267.716†	32666.4	32974.7	0.2513 mg/L		0.2513 mg/L	07:33:32
2	Cu 324.752†	60546.3	58478.7	0.2511 mg/L		0.2511 mg/L	07:33:32
2	Fe 234.349†	183448.0	189173.2	93.24 mg/L		93.24 mg/L	07:32:56
2	K 766.490†	618.6	-107.1	0.0977 mg/L		0.0977 mg/L	07:32:58
2	Li 670.784†	-112.2	156.9	0.0056 mg/L		0.0056 mg/L	07:32:58
2	Mg 279.077†	4044641.0	4170545.1	270.8 mg/L		270.8 mg/L	07:33:30
2	Mn 257.610†	246969.1	238620.3	0.2355 mg/L		0.2355 mg/L	07:33:32
2	Mn 294.920†	131685.1	136434.2	0.2908 mg/L		0.2908 mg/L	07:33:32
2	Mo 202.031†	247.7	265.9	-0.0027 mg/L		-0.0027 mg/L	07:33:42
2	Na 589.592†	4886.6	812.6	0.1960 mg/L		0.1960 mg/L	07:32:58
2	Ni 231.604†	24008.8	24580.8	0.4569 mg/L		0.4569 mg/L	07:33:32
2	P 214.914†	-289.1	-252.1	-0.0853 mg/L		-0.0853 mg/L	07:33:42
2	Pb 220.353†	9003.7	9101.5	0.4733 mg/L		0.4733 mg/L	07:33:42
2	Sb 206.836†	104.4	62.9	-0.0117 mg/L		-0.0117 mg/L	07:33:42
2	Se 196.026†	-0.2	-17.1	0.0005 mg/L		0.0005 mg/L	07:33:42
2	Sn 189.927†	-1093.4	-1165.0	0.0214 mg/L		0.0214 mg/L	07:33:42
2	Sr 407.771†	8420.2	8437.3	0.0074 mg/L		0.0074 mg/L	07:32:58

2	Ti 337.279†	885.9	2211.5	0.0051 mg/L	0.0051 mg/L	07:33:32
2	Tl 190.801†	39.9	48.3	-0.0470 mg/L	-0.0470 mg/L	07:33:42
2	V 292.402†	62348.3	65195.4	0.2581 mg/L	0.2581 mg/L	07:33:32
2	Zn 213.857†	76626.3	78147.7	0.4728 mg/L	0.4728 mg/L	07:33:32

Mean Data: IFB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3280547.7	0.970 mg/L		0.0007				0.07%
Ag 328.068†	105031.6	0.5072 mg/L		0.00161	0.5072 mg/L		0.00161	0.32%
	QC value within limits for Ag 328.068	Recovery = 101.45%						
Al 237.313†	2678349.6	245.5 mg/L		0.13	245.5 mg/L		0.13	0.05%
	QC value within limits for Al 237.313	Recovery = 98.22%						
As 188.979†	4.3	0.0049 mg/L		0.00176	0.0049 mg/L		0.00176	36.22%
	QC value within limits for As 188.979	Recovery = Not calculated						
B 249.677†	-30.0	-0.0097 mg/L		0.00049	-0.0097 mg/L		0.00049	5.07%
	QC value within limits for B 249.677	Recovery = Not calculated						
B 182.528†	34.5	0.0322 mg/L		0.00053	0.0322 mg/L		0.00053	1.63%
	QC value within limits for B 182.528	Recovery = Not calculated						
Ba 233.527†	31522.4	0.2396 mg/L		0.00078	0.2396 mg/L		0.00078	0.32%
	QC value within limits for Ba 233.527	Recovery = 95.83%						
Be 313.107†	627937.1	0.2214 mg/L		0.00027	0.2214 mg/L		0.00027	0.12%
	QC value within limits for Be 313.107	Recovery = 88.58%						
Ca 315.887†	29601110.6	264.9 mg/L		2.15	264.9 mg/L		2.15	0.81%
	QC value within limits for Ca 315.887	Recovery = 105.98%						
Cd 228.802†	15903.6	0.4253 mg/L		0.00065	0.4253 mg/L		0.00065	0.15%
	QC value within limits for Cd 228.802	Recovery = 85.06%						
Co 228.616†	13950.0	0.2203 mg/L		0.00009	0.2203 mg/L		0.00009	0.04%
	QC value within limits for Co 228.616	Recovery = 88.11%						
Cr 267.716†	32842.1	0.2503 mg/L		0.00143	0.2503 mg/L		0.00143	0.57%
	QC value within limits for Cr 267.716	Recovery = 100.13%						
Cu 324.752†	58207.8	0.2500 mg/L		0.00164	0.2500 mg/L		0.00164	0.65%
	QC value within limits for Cu 324.752	Recovery = 99.98%						
Fe 234.349†	188396.5	92.85 mg/L		0.547	92.85 mg/L		0.547	0.59%
	QC value within limits for Fe 234.349	Recovery = 92.85%						
K 766.490†	-51.0	0.1217 mg/L		0.03391	0.1217 mg/L		0.03391	27.87%
	QC value within limits for K 766.490	Recovery = Not calculated						
Li 670.784†	168.1	0.0058 mg/L		0.00037	0.0058 mg/L		0.00037	6.36%
	QC value within limits for Li 670.784	Recovery = Not calculated						
Mg 279.077†	4176917.3	271.2 mg/L		0.59	271.2 mg/L		0.59	0.22%
	QC value within limits for Mg 279.077	Recovery = 108.49%						
Mn 257.610†	238172.7	0.2351 mg/L		0.00056	0.2351 mg/L		0.00056	0.24%
	QC value within limits for Mn 257.610	Recovery = 94.03%						
Mn 294.920†	136090.1	0.2901 mg/L		0.00104	0.2901 mg/L		0.00104	0.36%
	QC value within limits for Mn 294.920	Recovery = 116.04%						
Mo 202.031†	272.7	-0.0024 mg/L		0.00045	-0.0024 mg/L		0.00045	19.19%
	QC value within limits for Mo 202.031	Recovery = Not calculated						
Na 589.592†	831.2	0.1985 mg/L		0.00353	0.1985 mg/L		0.00353	1.78%
	QC value within limits for Na 589.592	Recovery = Not calculated						
Ni 231.604†	24557.2	0.4564 mg/L		0.00062	0.4564 mg/L		0.00062	0.14%
	QC value within limits for Ni 231.604	Recovery = 91.29%						
P 214.914†	-256.6	-0.0877 mg/L		0.00333	-0.0877 mg/L		0.00333	3.80%
	QC value within limits for P 214.914	Recovery = Not calculated						
Pb 220.353†	9153.3	0.4763 mg/L		0.00425	0.4763 mg/L		0.00425	0.89%
	QC value within limits for Pb 220.353	Recovery = 95.27%						
Sb 206.836†	66.4	-0.0101 mg/L		0.00233	-0.0101 mg/L		0.00233	23.05%
	QC value within limits for Sb 206.836	Recovery = Not calculated						
Se 196.026†	-14.3	0.0020 mg/L		0.00212	0.0020 mg/L		0.00212	105.39%
	QC value within limits for Se 196.026	Recovery = Not calculated						
Sn 189.927†	-1161.3	0.0228 mg/L		0.00197	0.0228 mg/L		0.00197	8.65%
	QC value within limits for Sn 189.927	Recovery = Not calculated						
Sr 407.771†	8395.3	0.0074 mg/L		0.00005	0.0074 mg/L		0.00005	0.68%
	QC value within limits for Sr 407.771	Recovery = Not calculated						
Ti 337.279†	2179.8	0.0050 mg/L		0.00005	0.0050 mg/L		0.00005	0.91%
	QC value within limits for Ti 337.279	Recovery = Not calculated						
Tl 190.801†	44.6	-0.0498 mg/L		0.00400	-0.0498 mg/L		0.00400	8.04%
	QC value within limits for Tl 190.801	Recovery = Not calculated						
V 292.402†	65046.0	0.2575 mg/L		0.00083	0.2575 mg/L		0.00083	0.32%
	QC value within limits for V 292.402	Recovery = 103.02%						
Zn 213.857†	77984.7	0.4718 mg/L		0.00139	0.4718 mg/L		0.00139	0.29%
	QC value within limits for Zn 213.857	Recovery = 94.37%						

All analyte(s) passed QC.

Sequence No.: 233

Sample ID: WASH

Analyst:

Logged In Analyst (Original) : ICP3

Initial Sample Wt:

Dilution:

Autosampler Location: 0

Date Collected: 6/26/2013 7:35:21 AM

Data Type: Reprocessed on 6/26/2013 10:58:38 AM

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 371.029	3569724.5	3569724.5	1.06 mg/L			07:37:21
1	Ag 328.068†	914.7	129.6	0.0013 mg/L		0.0013 mg/L	07:37:24
1	Al 237.313†	1713.3	2010.2	0.1914 mg/L		0.1914 mg/L	07:37:24
1	As 188.979†	3.4	2.2	0.0040 mg/L		0.0040 mg/L	07:37:34
1	B 249.677†	-24.0	-7.5	-0.0006 mg/L		-0.0006 mg/L	07:37:05
1	B 182.528†	-6.1	1.2	0.0049 mg/L		0.0049 mg/L	07:37:34
1	Ba 233.527†	-38.8	51.0	0.0010 mg/L		0.0010 mg/L	07:37:34
1	Be 313.107†	-1108.7	382.6	0.0003 mg/L		0.0003 mg/L	07:37:24
1	Ca 315.887†	16418.5	16269.2	0.1539 mg/L		0.1539 mg/L	07:37:24
1	Cd 228.802†	162.4	6.4	0.0017 mg/L		0.0017 mg/L	07:37:34
1	Co 228.616†	-163.1	23.5	-0.0017 mg/L		-0.0017 mg/L	07:37:34
1	Cr 267.716†	607.0	-135.9	-0.0005 mg/L		-0.0005 mg/L	07:37:24
1	Cu 324.752†	3827.7	-331.2	-0.0001 mg/L		-0.0001 mg/L	07:37:24
1	Fe 234.349†	412.0	391.9	0.2044 mg/L		0.2044 mg/L	07:37:05
1	K 766.490†	576.6	-198.9	0.0585 mg/L		0.0585 mg/L	07:36:55
1	Li 670.784†	-309.8	-20.8	0.0014 mg/L		0.0014 mg/L	07:36:55
1	Mg 279.077†	2679.6	2250.2	0.1441 mg/L		0.1441 mg/L	07:37:24
1	Mn 257.610†	20458.0	3323.2	0.0035 mg/L		0.0035 mg/L	07:37:24
1	Mn 294.920†	1093.6	1676.5	0.0034 mg/L		0.0034 mg/L	07:37:24
1	Mo 202.031†	-14.6	-3.4	0.0026 mg/L		0.0026 mg/L	07:37:34
1	Na 589.592†	3835.3	-593.8	0.0076 mg/L		0.0076 mg/L	07:36:55
1	Ni 231.604†	88.2	-93.6	-0.0023 mg/L		-0.0023 mg/L	07:37:24
1	P 214.914†	-10.7	35.9	0.0673 mg/L		0.0673 mg/L	07:37:34
1	Pb 220.353†	185.4	-7.5	0.0014 mg/L		0.0014 mg/L	07:37:34
1	Sb 206.836†	45.3	-1.9	0.0035 mg/L		0.0035 mg/L	07:37:34
1	Se 196.026†	13.4	-4.2	0.0021 mg/L		0.0021 mg/L	07:37:34
1	Sn 189.927†	38.2	-1.3	0.0015 mg/L		0.0015 mg/L	07:37:34
1	Sr 407.771†	291.1	30.1	0.0003 mg/L		0.0003 mg/L	07:36:55
1	Ti 337.279†	2087.9	3275.5	0.0061 mg/L		0.0061 mg/L	07:37:24
1	Tl 190.801†	-2.0	5.2	0.0035 mg/L		0.0035 mg/L	07:37:34
1	V 292.402†	-895.9	53.3	0.0025 mg/L		0.0025 mg/L	07:37:24
1	Zn 213.857†	932.4	13.7	0.0006 mg/L		0.0006 mg/L	07:37:34
2	Y 371.029	3533572.0	3533572.0	1.05 mg/L			07:37:36
2	Ag 328.068†	866.3	92.2	0.0011 mg/L		0.0011 mg/L	07:37:38
2	Al 237.313†	1639.5	1956.2	0.1864 mg/L		0.1864 mg/L	07:37:38
2	As 188.979†	0.4	-0.7	0.0022 mg/L		0.0022 mg/L	07:37:49
2	B 249.677†	-25.2	-8.9	-0.0011 mg/L		-0.0011 mg/L	07:37:18
2	B 182.528†	-8.7	-1.3	0.0028 mg/L		0.0028 mg/L	07:37:49
2	Ba 233.527†	-31.2	57.9	0.0010 mg/L		0.0010 mg/L	07:37:49
2	Be 313.107†	-1131.2	350.3	0.0003 mg/L		0.0003 mg/L	07:37:38
2	Ca 315.887†	17835.2	17783.9	0.1675 mg/L		0.1675 mg/L	07:37:38
2	Cd 228.802†	156.2	2.0	0.0016 mg/L		0.0016 mg/L	07:37:49
2	Co 228.616†	-188.7	-2.7	-0.0021 mg/L		-0.0021 mg/L	07:37:49
2	Cr 267.716†	583.5	-152.5	-0.0007 mg/L		-0.0007 mg/L	07:37:38
2	Cu 324.752†	3792.6	-327.7	-0.0001 mg/L		-0.0001 mg/L	07:37:38
2	Fe 234.349†	395.9	380.5	0.1987 mg/L		0.1987 mg/L	07:37:18
2	K 766.490†	657.8	-115.6	0.0941 mg/L		0.0941 mg/L	07:37:08
2	Li 670.784†	-211.0	70.7	0.0036 mg/L		0.0036 mg/L	07:37:08
2	Mg 279.077†	2894.4	2481.7	0.1592 mg/L		0.1592 mg/L	07:37:38
2	Mn 257.610†	20262.1	3333.9	0.0035 mg/L		0.0035 mg/L	07:37:38
2	Mn 294.920†	1114.6	1707.1	0.0035 mg/L		0.0035 mg/L	07:37:38
2	Mo 202.031†	-31.6	-19.8	0.0020 mg/L		0.0020 mg/L	07:37:49
2	Na 589.592†	3729.7	-657.7	-0.0010 mg/L		-0.0010 mg/L	07:37:08
2	Ni 231.604†	84.6	-96.2	-0.0023 mg/L		-0.0023 mg/L	07:37:38
2	P 214.914†	-4.1	42.1	0.0706 mg/L		0.0706 mg/L	07:37:49
2	Pb 220.353†	185.7	-5.4	0.0016 mg/L		0.0016 mg/L	07:37:49
2	Sb 206.836†	49.0	2.0	0.0051 mg/L		0.0051 mg/L	07:37:49
2	Se 196.026†	24.1	6.2	0.0079 mg/L		0.0079 mg/L	07:37:49
2	Sn 189.927†	35.7	-3.3	0.0013 mg/L		0.0013 mg/L	07:37:49
2	Sr 407.771†	423.6	159.7	0.0004 mg/L		0.0004 mg/L	07:37:08

2	Ti 337.279†	2381.8	3577.0	0.0065 mg/L	0.0065 mg/L	07:37:38
2	Tl 190.801†	-8.3	-0.8	-0.0011 mg/L	-0.0011 mg/L	07:37:49
2	V 292.402†	-818.5	118.7	0.0028 mg/L	0.0028 mg/L	07:37:38
2	Zn 213.857†	954.1	43.5	0.0008 mg/L	0.0008 mg/L	07:37:49

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3551648.2	1.05 mg/L		0.008			0.72%
Ag 328.068†	110.9	0.0012 mg/L		0.00013	0.0012 mg/L	0.00013	10.71%
Al 237.313†	1983.2	0.1889 mg/L		0.00350	0.1889 mg/L	0.00350	1.85%
As 188.979†	0.8	0.0031 mg/L		0.00124	0.0031 mg/L	0.00124	39.98%
B 249.677†	-8.2	-0.0008 mg/L		0.00040	-0.0008 mg/L	0.00040	47.19%
B 182.528†	-0.1	0.0038 mg/L		0.00147	0.0038 mg/L	0.00147	38.29%
Ba 233.527†	54.4	0.0010 mg/L		0.00004	0.0010 mg/L	0.00004	3.64%
Be 313.107†	366.5	0.0003 mg/L		0.00001	0.0003 mg/L	0.00001	2.38%
Ca 315.887†	17026.5	0.1607 mg/L		0.00959	0.1607 mg/L	0.00959	5.97%
Cd 228.802†	4.2	0.0016 mg/L		0.00008	0.0016 mg/L	0.00008	5.14%
Co 228.616†	10.4	-0.0019 mg/L		0.00030	-0.0019 mg/L	0.00030	15.40%
Cr 267.716†	-144.2	-0.0006 mg/L		0.00009	-0.0006 mg/L	0.00009	15.22%
Cu 324.752†	-329.4	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	12.87%
Fe 234.349†	386.2	0.2016 mg/L		0.00401	0.2016 mg/L	0.00401	1.99%
K 766.490†	-157.3	0.0763 mg/L		0.02515	0.0763 mg/L	0.02515	32.97%
Li 670.784†	24.9	0.0025 mg/L		0.00152	0.0025 mg/L	0.00152	61.19%
Mg 279.077†	2365.9	0.1516 mg/L		0.01063	0.1516 mg/L	0.01063	7.01%
Mn 257.610†	3328.6	0.0035 mg/L		0.00001	0.0035 mg/L	0.00001	0.26%
Mn 294.920†	1691.8	0.0034 mg/L		0.00005	0.0034 mg/L	0.00005	1.35%
Mo 202.031†	-11.6	0.0023 mg/L		0.00044	0.0023 mg/L	0.00044	18.77%
Na 589.592†	-625.7	0.0033 mg/L		0.00605	0.0033 mg/L	0.00605	183.44%
Ni 231.604†	-94.9	-0.0023 mg/L		0.00003	-0.0023 mg/L	0.00003	1.51%
P 214.914†	39.0	0.0690 mg/L		0.00231	0.0690 mg/L	0.00231	3.35%
Pb 220.353†	-6.4	0.0015 mg/L		0.00009	0.0015 mg/L	0.00009	5.66%
Sb 206.836†	0.1	0.0043 mg/L		0.00114	0.0043 mg/L	0.00114	26.34%
Se 196.026†	1.0	0.0050 mg/L		0.00408	0.0050 mg/L	0.00408	81.34%
Sn 189.927†	-2.3	0.0014 mg/L		0.00017	0.0014 mg/L	0.00017	12.24%
Sr 407.771†	94.9	0.0004 mg/L		0.00008	0.0004 mg/L	0.00008	20.48%
Ti 337.279†	3426.2	0.0063 mg/L		0.00022	0.0063 mg/L	0.00022	3.47%
Tl 190.801†	2.2	0.0012 mg/L		0.00322	0.0012 mg/L	0.00322	271.96%
V 292.402†	86.0	0.0027 mg/L		0.00017	0.0027 mg/L	0.00017	6.54%
Zn 213.857†	28.6	0.0007 mg/L		0.00013	0.0007 mg/L	0.00013	19.55%

Metals Logbooks

HOLDING TIME SUMMARY

6010B

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SS-500-01	06/21/13 09:20	06/21/13 17:00	06/25/13 12:38	4.14	180.00	06/26/13 05:11	4.83	180.00	
SS-500-02	06/21/13 10:00	06/21/13 17:00	06/25/13 12:38	4.11	180.00	06/26/13 05:31	4.81	180.00	
SS-501-01	06/21/13 10:30	06/21/13 17:00	06/25/13 12:38	4.09	180.00	06/26/13 05:35	4.80	180.00	
SS-501-02	06/21/13 10:55	06/21/13 17:00	06/25/13 12:38	4.07	180.00	06/26/13 05:47	4.79	180.00	
SS-502-01	06/21/13 11:20	06/21/13 17:00	06/25/13 12:38	4.05	180.00	06/26/13 05:51	4.77	180.00	
SS-502-02	06/21/13 11:30	06/21/13 17:00	06/25/13 12:38	4.05	180.00	06/26/13 05:55	4.77	180.00	
SS-505-01	06/21/13 14:05	06/21/13 17:00	06/25/13 12:38	3.94	180.00	06/26/13 05:59	4.66	180.00	
SS-505-02	06/21/13 14:25	06/21/13 17:00	06/25/13 12:38	3.93	180.00	06/26/13 06:03	4.65	180.00	
SS-506-01	06/21/13 14:45	06/21/13 17:00	06/25/13 12:38	3.91	180.00	06/26/13 06:07	4.64	180.00	
SS-506-02	06/21/13 15:00	06/21/13 17:00	06/25/13 12:38	3.90	180.00	06/26/13 06:11	4.63	180.00	
SS-507-01	06/21/13 15:20	06/21/13 17:00	06/25/13 12:38	3.89	180.00	06/26/13 06:15	4.62	180.00	
SS-507-02	06/21/13 15:40	06/21/13 17:00	06/25/13 12:38	3.87	180.00	06/26/13 06:19	4.61	180.00	
DUP	06/21/13 00:00	06/21/13 17:00	06/25/13 12:38	4.53	180.00	06/26/13 06:23	5.27	180.00	

PAH Data Package

PAH Sample Data

ESS Laboratory

SDG: 1306385

CLASS: MSSVOA

METHOD: 8270C SIM

ANALYSES DATA PACKAGE COVER PAGE

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Client Sample Id:

Lab Sample Id:

SS-500-01

1306385-01

SS-500-02

1306385-02

SS-501-01

1306385-03

SS-501-02

1306385-04

SS-502-01

1306385-05

SS-502-02

1306385-06

SS-505-01

1306385-07

SS-505-01

1306385-07RE1

SS-505-02

1306385-08

SS-506-01

1306385-09

SS-506-02

1306385-10

SS-507-01

1306385-11

SS-507-02

1306385-12

DUP

1306385-13

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____

Name: _____

Date: _____

Title: _____

METHOD DETECTION AND REPORTING LIMITS

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Instrument: SVOAMS4

Analyte	MDL	MRL	Units
1,1-Biphenyl	0.0009	0.017	mg/kg
2-Methylnaphthalene	0.002	0.017	mg/kg
Acenaphthene	0.002	0.017	mg/kg
Acenaphthylene	0.002	0.017	mg/kg
Anthracene	0.001	0.017	mg/kg
Benzo(a)anthracene	0.001	0.017	mg/kg
Benzo(a)pyrene	0.001	0.017	mg/kg
Benzo(b)fluoranthene	0.002	0.017	mg/kg
Benzo(g,h,i)perylene	0.002	0.017	mg/kg
Benzo(k)fluoranthene	0.001	0.017	mg/kg
Chrysene	0.001	0.017	mg/kg
Dibenzo(a,h)Anthracene	0.002	0.017	mg/kg
Fluoranthene	0.001	0.017	mg/kg
Fluorene	0.002	0.017	mg/kg
Indeno(1,2,3-cd)Pyrene	0.002	0.017	mg/kg
Naphthalene	0.002	0.017	mg/kg
Phenanthrene	0.002	0.017	mg/kg
Pyrene	0.003	0.017	mg/kg

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-500-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-01</u>
		File ID:	<u>SV415849.D</u>
Sampled:	<u>06/21/13 09:20</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 06:35</u>
Solids:	<u>89.93</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.2 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0290</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.093	DU
83-32-9	Acenaphthene	5	0.093	DU
208-96-8	Acenaphthylene	5	0.682	D
120-12-7	Anthracene	5	0.724	D
56-55-3	Benzo(a)anthracene	5	1.55	D
50-32-8	Benzo(a)pyrene	5	1.51	D
205-99-2	Benzo(b)fluoranthene	5	2.42	D
191-24-2	Benzo(g,h,i)perylene	5	0.807	D
207-08-9	Benzo(k)fluoranthene	5	0.644	D
218-01-9	Chrysene	5	1.58	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.291	D
206-44-0	Fluoranthene	5	2.22	D
86-73-7	Fluorene	5	0.093	DU
193-39-5	Indeno(1,2,3-cd)Pyrene	5	1.10	D
91-20-3	Naphthalene	5	0.093	DU
85-01-8	Phenanthrene	5	0.680	D
129-00-0	Pyrene	5	1.96	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3658	0.123	34	30 - 130	
2-Fluorobiphenyl	0.3658	0.157	43	30 - 130	
Nitrobenzene-d5	0.3658	0.134	36	30 - 130	
p-Terphenyl-d14	0.3658	0.280	76	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	556851	7.96	493334	7.96	
Naphthalene-d8	2169821	10.71	1970137	10.71	
Acenaphthene-d10	985073	14.81	942756	14.81	
Phenanthrene-d10	1873867	18.32	1733190	18.32	
Chrysene-d12	2414494	24.63	2318752	24.62	
Perylene-d12	2269963	27.77	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-501-01

Laboratory: ESS Laboratory SDG: 1306385
 Client: AMEC Environmental and Infrastructure - KPB Project: Gorham Site C-1 Phase III
 Matrix: Soil Laboratory ID: 1306385-03 File ID: SV415850.D
 Sampled: 06/21/13 10:30 Prepared: 06/25/13 09:30 Analyzed: 06/27/13 07:24
 Solids: 89.36 Preparation: 3541 Initial/Final: 15 g / 0.5 ml
 Batch: CF32503 Sequence: CWF0290 Calibration: 1306027 Instrument: SVOAMS4

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.131	D
83-32-9	Acenaphthene	5	0.095	DU
208-96-8	Acenaphthylene	5	0.224	D
120-12-7	Anthracene	5	0.278	D
56-55-3	Benzo(a)anthracene	5	0.643	D
50-32-8	Benzo(a)pyrene	5	0.632	D
205-99-2	Benzo(b)fluoranthene	5	1.01	D
191-24-2	Benzo(g,h,i)perylene	5	0.321	D
207-08-9	Benzo(k)fluoranthene	5	0.336	D
218-01-9	Chrysene	5	0.765	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.116	D
206-44-0	Fluoranthene	5	1.15	D
86-73-7	Fluorene	5	0.095	DU
193-39-5	Indeno(1,2,3-cd)Pyrene	5	0.403	D
91-20-3	Naphthalene	5	0.095	D
85-01-8	Phenanthrene	5	0.502	D
129-00-0	Pyrene	5	0.975	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3730	0.164	44	30 - 130	
2-Fluorobiphenyl	0.3730	0.185	49	30 - 130	
Nitrobenzene-d5	0.3730	0.183	49	30 - 130	
p-Terphenyl-d14	0.3730	0.263	70	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	538347	7.96	493334	7.96	
Naphthalene-d8	2136533	10.71	1970137	10.71	
Acenaphthene-d10	985423	14.81	942756	14.81	
Phenanthrene-d10	1842932	18.32	1733190	18.32	
Chrysene-d12	2485245	24.63	2318752	24.62	
Perylene-d12	2366556	27.77	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-501-02

Laboratory: ESS Laboratory SDG: 1306385
 Client: AMEC Environmental and Infrastructure - KPB Project: Gorham Site C-1 Phase III
 Matrix: Soil Laboratory ID: 1306385-04 File ID: SV415884.D
 Sampled: 06/21/13 10:55 Prepared: 06/25/13 09:30 Analyzed: 06/28/13 12:25
 Solids: 91.02 Preparation: 3541 Initial/Final: 15 g / 0.5 ml
 Batch: CF32503 Sequence: CWF0330 Calibration: 1306027 Instrument: SVOAMS4

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.093	DU
83-32-9	Acenaphthene	5	0.093	DU
208-96-8	Acenaphthylene	5	0.436	D
120-12-7	Anthracene	5	0.579	D
56-55-3	Benzo(a)anthracene	5	1.33	D
50-32-8	Benzo(a)pyrene	5	1.27	D
205-99-2	Benzo(b)fluoranthene	5	1.74	D
191-24-2	Benzo(g,h,i)perylene	5	0.527	D
207-08-9	Benzo(k)fluoranthene	5	0.597	D
218-01-9	Chrysene	5	1.34	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.174	D
206-44-0	Fluoranthene	5	2.59	D
86-73-7	Fluorene	5	0.115	D
193-39-5	Indeno(1,2,3-cd)Pyrene	5	0.683	D
91-20-3	Naphthalene	5	0.093	DU
85-01-8	Phenanthrene	5	1.86	D
129-00-0	Pyrene	5	2.31	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3662	0.203	56	30 - 130	
2-Fluorobiphenyl	0.3662	0.253	69	30 - 130	
Nitrobenzene-d5	0.3662	0.242	66	30 - 130	
p-Terphenyl-d14	0.3662	0.304	83	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	548771	7.96	446952	7.95	
Naphthalene-d8	2134157	10.7	1696101	10.7	
Acenaphthene-d10	924060	14.81	744108	14.8	
Phenanthrene-d10	1693625	18.32	1447958	18.31	
Chrysene-d12	2066311	24.63	1899947	24.61	
Perylene-d12	1731988	27.77	1823040	27.74	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-502-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-05</u>
		File ID:	<u>SV415839.D</u>
Sampled:	<u>06/21/13 11:20</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/26/13 23:23</u>
Solids:	<u>90.39</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0289</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.019	U
83-32-9	Acenaphthene	1	0.019	U
208-96-8	Acenaphthylene	1	0.019	U
120-12-7	Anthracene	1	0.019	U
56-55-3	Benzo(a)anthracene	1	0.038	
50-32-8	Benzo(a)pyrene	1	0.048	
205-99-2	Benzo(b)fluoranthene	1	0.073	
191-24-2	Benzo(g,h,i)perylene	1	0.040	
207-08-9	Benzo(k)fluoranthene	1	0.022	
218-01-9	Chrysene	1	0.053	
53-70-3	Dibenzo(a,h)Anthracene	1	0.019	U
206-44-0	Fluoranthene	1	0.094	
86-73-7	Fluorene	1	0.019	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.044	
91-20-3	Naphthalene	1	0.019	U
85-01-8	Phenanthrene	1	0.042	
129-00-0	Pyrene	1	0.073	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3688	0.181	49	30 - 130	
2-Fluorobiphenyl	0.3688	0.190	52	30 - 130	
Nitrobenzene-d5	0.3688	0.201	54	30 - 130	
p-Terphenyl-d14	0.3688	0.254	69	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	444436	7.96	472513	7.97	
Naphthalene-d8	1749491	10.71	1836680	10.71	
Acenaphthene-d10	814435	14.81	835030	14.82	
Phenanthrene-d10	1507815	18.32	1582059	18.32	
Chrysene-d12	2053671	24.62	2031218	24.63	
Perylene-d12	1971087	27.76	1986396	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-502-02

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-06</u>
		File ID:	<u>SV415840.D</u>
Sampled:	<u>06/21/13 11:30</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 00:11</u>
Solids:	<u>95.51</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.5 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0289</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.017	U
83-32-9	Acenaphthene	1	0.017	U
208-96-8	Acenaphthylene	1	0.017	U
120-12-7	Anthracene	1	0.017	U
56-55-3	Benzo(a)anthracene	1	0.017	U
50-32-8	Benzo(a)pyrene	1	0.017	U
205-99-2	Benzo(b)fluoranthene	1	0.017	U
191-24-2	Benzo(g,h,i)perylene	1	0.017	U
207-08-9	Benzo(k)fluoranthene	1	0.017	U
218-01-9	Chrysene	1	0.017	U
53-70-3	Dibenzo(a,h)Anthracene	1	0.017	U
206-44-0	Fluoranthene	1	0.017	U
86-73-7	Fluorene	1	0.017	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.017	U
91-20-3	Naphthalene	1	0.017	U
85-01-8	Phenanthrene	1	0.017	U
129-00-0	Pyrene	1	0.017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3377	0.183	54	30 - 130	
2-Fluorobiphenyl	0.3377	0.187	55	30 - 130	
Nitrobenzene-d5	0.3377	0.199	59	30 - 130	
p-Terphenyl-d14	0.3377	0.235	70	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	451007	7.96	472513	7.97	
Naphthalene-d8	1800557	10.71	1836680	10.71	
Acenaphthene-d10	804927	14.81	835030	14.82	
Phenanthrene-d10	1564490	18.32	1582059	18.32	
Chrysene-d12	2116164	24.62	2031218	24.63	
Perylene-d12	2052143	27.76	1986396	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-505-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-07</u>
		File ID:	<u>SV415856.D</u>
Sampled:	<u>06/21/13 14:05</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 12:27</u>
Solids:	<u>91.94</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.5 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0290</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	20	0.800	D
83-32-9	Acenaphthene	20	1.21	D
208-96-8	Acenaphthylene	20	13.7	D
120-12-7	Anthracene	20	12.0	D
56-55-3	Benzo(a)anthracene	20	32.0	D
50-32-8	Benzo(a)pyrene	20	27.6	D
205-99-2	Benzo(b)fluoranthene	20	52.7	DE
191-24-2	Benzo(g,h,i)perylene	20	11.5	D
207-08-9	Benzo(k)fluoranthene	20	55.7	DE
218-01-9	Chrysene	20	29.5	D
53-70-3	Dibenzo(a,h)Anthracene	20	4.88	D
206-44-0	Fluoranthene	100	68.8	D
86-73-7	Fluorene	20	3.35	D
193-39-5	Indeno(1,2,3-cd)Pyrene	20	15.1	D
91-20-3	Naphthalene	20	0.912	D
85-01-8	Phenanthrene	20	24.2	D
129-00-0	Pyrene	100	56.6	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3509	0.161	46	30 - 130	
2-Fluorobiphenyl	0.3509	0.168	48	30 - 130	
Nitrobenzene-d5	0.3509	0.147	42	30 - 130	
p-Terphenyl-d14	0.3509	0.218	62	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	492960	7.96	493334	7.96	
Naphthalene-d8	1961950	10.71	1970137	10.71	
Acenaphthene-d10	880021	14.81	942756	14.81	
Phenanthrene-d10	1664296	18.33	1733190	18.32	
Chrysene-d12	1954278	24.68	2318752	24.62	
Perylene-d12	1587890	27.8	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-505-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-07RE1</u>
Sampled:	<u>06/21/13 14:05</u>	Prepared:	<u>06/25/13 09:30</u>
Solids:	<u>91.94</u>	Preparation:	<u>3541</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0330</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>
		File ID:	<u>SV415881.D</u>
		Analyzed:	<u>06/28/13 09:58</u>
		Initial/Final:	<u>15.5 g / 0.5 ml</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	100	1.79	DU
83-32-9	Acenaphthene	100	1.79	DU
208-96-8	Acenaphthylene	100	17.4	D
120-12-7	Anthracene	100	15.4	D
56-55-3	Benzo(a)anthracene	100	39.3	D
50-32-8	Benzo(a)pyrene	100	37.4	D
205-99-2	Benzo(b)fluoranthene	100	48.9	D
191-24-2	Benzo(g,h,i)perylene	100	20.2	D
207-08-9	Benzo(k)fluoranthene	100	19.4	D
218-01-9	Chrysene	100	37.6	D
53-70-3	Dibenzo(a,h)Anthracene	100	7.79	D
206-44-0	Fluoranthene	100	68.8	D
86-73-7	Fluorene	100	3.75	D
193-39-5	Indeno(1,2,3-cd)Pyrene	100	25.5	D
91-20-3	Naphthalene	100	1.79	DU
85-01-8	Phenanthrene	100	32.4	D
129-00-0	Pyrene	100	56.6	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3509	0.00		30 - 130	D
2-Fluorobiphenyl	0.3509	0.00		30 - 130	D
Nitrobenzene-d5	0.3509	0.00		30 - 130	D
p-Terphenyl-d14	0.3509	0.00		30 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	496571	7.96	446952	7.95	
Naphthalene-d8	1908763	10.7	1696101	10.7	
Acenaphthene-d10	789567	14.81	744108	14.8	
Phenanthrene-d10	1543424	18.32	1447958	18.31	
Chrysene-d12	1989269	24.63	1899947	24.61	
Perylene-d12	1858272	27.77	1823040	27.74	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-505-02

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-08</u>
Sampled:	<u>06/21/13 14:25</u>	Prepared:	<u>06/25/13 09:30</u>
Solids:	<u>94.59</u>	Preparation:	<u>3541</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0290</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>
		File ID:	<u>SV415851.D</u>
		Analyzed:	<u>06/27/13 08:12</u>
		Initial/Final:	<u>15.1 g / 0.5 ml</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.089	DU
83-32-9	Acenaphthene	5	0.089	DU
208-96-8	Acenaphthylene	5	0.805	D
120-12-7	Anthracene	5	0.453	D
56-55-3	Benzo(a)anthracene	5	1.06	D
50-32-8	Benzo(a)pyrene	5	1.73	D
205-99-2	Benzo(b)fluoranthene	5	2.59	D
191-24-2	Benzo(g,h,i)perylene	5	1.12	D
207-08-9	Benzo(k)fluoranthene	5	0.746	D
218-01-9	Chrysene	5	1.35	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.392	D
206-44-0	Fluoranthene	5	1.80	D
86-73-7	Fluorene	5	0.089	DU
193-39-5	Indeno(1,2,3-cd)Pyrene	5	1.43	D
91-20-3	Naphthalene	5	0.089	DU
85-01-8	Phenanthrene	5	0.539	D
129-00-0	Pyrene	5	1.71	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3501	0.177	51	30 - 130	
2-Fluorobiphenyl	0.3501	0.214	61	30 - 130	
Nitrobenzene-d5	0.3501	0.200	57	30 - 130	
p-Terphenyl-d14	0.3501	0.289	83	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	549335	7.96	493334	7.96	
Naphthalene-d8	2217264	10.71	1970137	10.71	
Acenaphthene-d10	1008379	14.81	942756	14.81	
Phenanthrene-d10	1931169	18.32	1733190	18.32	
Chrysene-d12	2563079	24.63	2318752	24.62	
Perylene-d12	2313656	27.77	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-506-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-09</u>
		File ID:	<u>SV415841.D</u>
Sampled:	<u>06/21/13 14:45</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 01:00</u>
Solids:	<u>88.71</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.1 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0289</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.019	U
83-32-9	Acenaphthene	1	0.030	
208-96-8	Acenaphthylene	1	0.124	
120-12-7	Anthracene	1	0.137	
56-55-3	Benzo(a)anthracene	1	0.466	
50-32-8	Benzo(a)pyrene	1	0.512	
205-99-2	Benzo(b)fluoranthene	1	0.629	
191-24-2	Benzo(g,h,i)perylene	1	0.309	
207-08-9	Benzo(k)fluoranthene	1	0.253	
218-01-9	Chrysene	1	0.486	
53-70-3	Dibenzo(a,h)Anthracene	1	0.090	
206-44-0	Fluoranthene	1	0.939	
86-73-7	Fluorene	1	0.030	
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.366	
91-20-3	Naphthalene	1	0.023	
85-01-8	Phenanthrene	1	0.516	
129-00-0	Pyrene	1	0.794	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3733	0.165	44	30 - 130	
2-Fluorobiphenyl	0.3733	0.183	49	30 - 130	
Nitrobenzene-d5	0.3733	0.186	50	30 - 130	
p-Terphenyl-d14	0.3733	0.256	69	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	504934	7.96	472513	7.97	
Naphthalene-d8	2001242	10.71	1836680	10.71	
Acenaphthene-d10	931887	14.81	835030	14.82	
Phenanthrene-d10	1732424	18.32	1582059	18.32	
Chrysene-d12	2266139	24.64	2031218	24.63	
Perylene-d12	2150536	27.78	1986396	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-507-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-11</u>
		File ID:	<u>SV415852.D</u>
Sampled:	<u>06/21/13 15:20</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 09:01</u>
Solids:	<u>88.88</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.4 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0290</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.093	DU
83-32-9	Acenaphthene	5	0.239	D
208-96-8	Acenaphthylene	5	0.126	D
120-12-7	Anthracene	5	0.349	D
56-55-3	Benzo(a)anthracene	5	0.866	D
50-32-8	Benzo(a)pyrene	5	0.955	D
205-99-2	Benzo(b)fluoranthene	5	1.22	D
191-24-2	Benzo(g,h,i)perylene	5	0.491	D
207-08-9	Benzo(k)fluoranthene	5	0.371	D
218-01-9	Chrysene	5	0.992	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.133	D
206-44-0	Fluoranthene	5	2.26	D
86-73-7	Fluorene	5	0.190	D
193-39-5	Indeno(1,2,3-cd)Pyrene	5	0.614	D
91-20-3	Naphthalene	5	0.239	D
85-01-8	Phenanthrene	5	2.00	D
129-00-0	Pyrene	5	1.90	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3653	0.170	46	30 - 130	
2-Fluorobiphenyl	0.3653	0.192	52	30 - 130	
Nitrobenzene-d5	0.3653	0.183	50	30 - 130	
p-Terphenyl-d14	0.3653	0.263	72	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	535132	7.96	493334	7.96	
Naphthalene-d8	2150194	10.71	1970137	10.71	
Acenaphthene-d10	962772	14.81	942756	14.81	
Phenanthrene-d10	1830481	18.32	1733190	18.32	
Chrysene-d12	2410064	24.63	2318752	24.62	
Perylene-d12	2341264	27.76	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-507-02

Laboratory: ESS Laboratory SDG: 1306385
 Client: AMEC Environmental and Infrastructure - KPB Project: Gorham Site C-1 Phase III
 Matrix: Soil Laboratory ID: 1306385-12 File ID: SV415848.D
 Sampled: 06/21/13 15:40 Prepared: 06/25/13 09:30 Analyzed: 06/27/13 05:47
 Solids: 91.16 Preparation: 3541 Initial/Final: 15.1 g / 0.5 ml
 Batch: CF32503 Sequence: CWF0290 Calibration: 1306027 Instrument: SVOAMS4

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.019	U
83-32-9	Acenaphthene	1	0.019	U
208-96-8	Acenaphthylene	1	0.019	U
120-12-7	Anthracene	1	0.020	
56-55-3	Benzo(a)anthracene	1	0.085	
50-32-8	Benzo(a)pyrene	1	0.106	
205-99-2	Benzo(b)fluoranthene	1	0.131	
191-24-2	Benzo(g,h,i)perylene	1	0.070	
207-08-9	Benzo(k)fluoranthene	1	0.041	
218-01-9	Chrysene	1	0.096	
53-70-3	Dibenzo(a,h)Anthracene	1	0.019	U
206-44-0	Fluoranthene	1	0.196	
86-73-7	Fluorene	1	0.019	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.080	
91-20-3	Naphthalene	1	0.019	U
85-01-8	Phenanthrene	1	0.093	
129-00-0	Pyrene	1	0.172	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3632	0.198	54	30 - 130	
2-Fluorobiphenyl	0.3632	0.204	56	30 - 130	
Nitrobenzene-d5	0.3632	0.218	60	30 - 130	
p-Terphenyl-d14	0.3632	0.264	73	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	445318	7.96	493334	7.96	
Naphthalene-d8	1777062	10.71	1970137	10.71	
Acenaphthene-d10	806684	14.81	942756	14.81	
Phenanthrene-d10	1548225	18.32	1733190	18.32	
Chrysene-d12	2064367	24.62	2318752	24.62	
Perylene-d12	1956680	27.76	2339797	27.76	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

DUP

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1306385-13</u>
		File ID:	<u>SV415853.D</u>
Sampled:	<u>06/21/13 00:00</u>	Prepared:	<u>06/25/13 09:30</u>
		Analyzed:	<u>06/27/13 09:50</u>
Solids:	<u>89.00</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.7 g / 0.5 ml</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0290</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	0.204	D
83-32-9	Acenaphthene	5	0.889	D
208-96-8	Acenaphthylene	5	0.204	D
120-12-7	Anthracene	5	1.36	D
56-55-3	Benzo(a)anthracene	5	2.87	D
50-32-8	Benzo(a)pyrene	5	2.63	D
205-99-2	Benzo(b)fluoranthene	5	3.33	D
191-24-2	Benzo(g,h,i)perylene	5	1.22	D
207-08-9	Benzo(k)fluoranthene	5	1.14	D
218-01-9	Chrysene	5	2.62	D
53-70-3	Dibenzo(a,h)Anthracene	5	0.408	D
206-44-0	Fluoranthene	5	5.26	D
86-73-7	Fluorene	5	0.573	D
193-39-5	Indeno(1,2,3-cd)Pyrene	5	1.58	D
91-20-3	Naphthalene	5	0.428	D
85-01-8	Phenanthrene	5	4.20	D
129-00-0	Pyrene	5	4.55	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3578	0.125	35	30 - 130	
2-Fluorobiphenyl	0.3578	0.149	41	30 - 130	
Nitrobenzene-d5	0.3578	0.129	36	30 - 130	
p-Terphenyl-d14	0.3578	0.231	64	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	566367	7.96	493334	7.96	
Naphthalene-d8	2274471	10.71	1970137	10.71	
Acenaphthene-d10	1036360	14.81	942756	14.81	
Phenanthrene-d10	1941660	18.32	1733190	18.32	
Chrysene-d12	2455130	24.64	2318752	24.62	
Perylene-d12	2224425	27.78	2339797	27.76	

* Values outside of QC limits

Data File : Q:\SVOA\MS4\0613\062613\SV415839.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
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 Analyzed : 6/26/2013 11:37:52 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-05
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 29
 Injection Volume : 1

Internal Standard

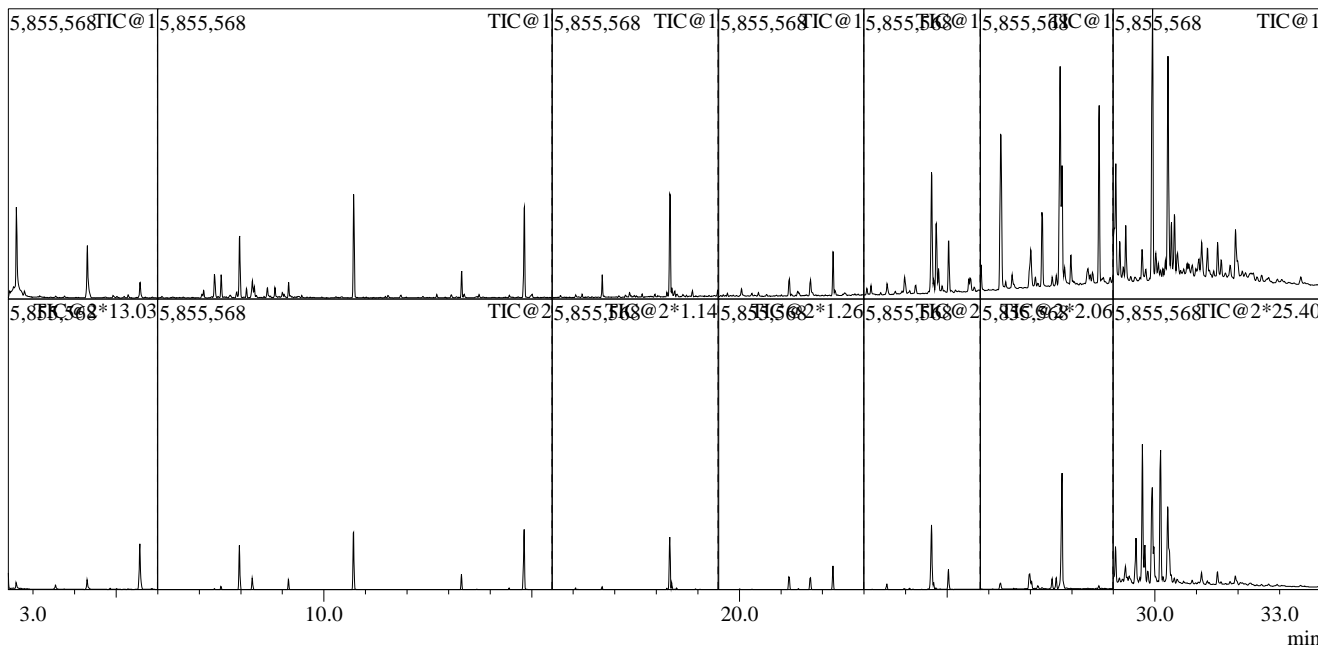
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	444436	20.0000	ng/uL	94.06
2	Naphthalene-D10	10.71	136	1749491	20.0000	ng/uL	95.25
3	Acenaphthene-D10	14.81	164	814435	20.0000	ng/uL	97.53
4	Phenanthrene-D10	18.32	188	1507815	20.0000	ng/uL	95.31
5	Chrysene-D12	24.62	240	2053671	20.0000	ng/uL	101.11
6	Perylene-D12	27.76	264	1971087	20.0000	ng/uL	99.23
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

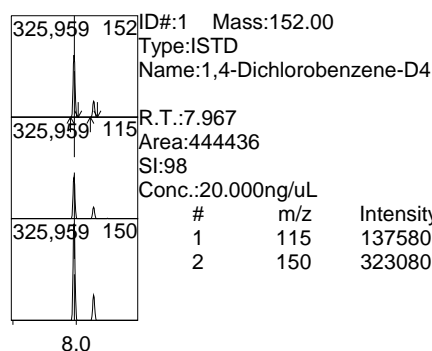
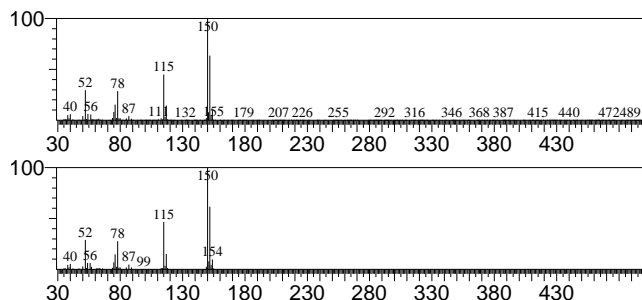
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	114090	4.90	ng/uL	196.0000
8	Nitrobenzene-D5 (Surr)	9.15	82	163314	5.45	ng/uL	218.1600
9	2-Fluorobiphenyl (Surr)	13.31	172	355096	5.16	ng/uL	206.3400
10	2,4,6-Tribromophenol (Surr)	16.69	330	18220	5.59	ng/uL	149.1800
11	Terphenyl-D14 (Surr)	22.25	244	569280	6.90	ng/uL	275.9800
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	11445	0.1094	ng/uL	86
18	2-Methylnaphthalene	12.38	142	3770	0.0557	ng/uL	70
19	1-Methylnaphthalene	12.60	142	2850	0.0427	ng/uL	85
22	Acenaphthylene	14.46	152	39364	0.3817	ng/uL	86
23	Acenaphthene	14.88	153	2170	0.0329	ng/uL	82
24	Fluorene	16.12	166	4114	0.0572	ng/uL	88
29	Phenanthrene	18.37	178	120137	1.1315	ng/uL	90
30	Anthracene	18.49	178	30483	0.2872	ng/uL	95
31	Di-n-butylphthalate	20.01	149	19927	0.1386	ng/uL	94
32	Fluoranthene	21.19	202	315757	2.5626	ng/uL	98
33	Pyrene	21.70	202	276405	1.9654	ng/uL	98
34	Butylbenzylphthalate	23.55	149	108637	1.5749	ng/uL	97
35	Benzo[a]anthracene	24.60	228	145391	1.0225	ng/uL	96
36	Chrysene	24.67	228	192819	1.4269	ng/uL	94
37	Bis(2-ethylhexyl)phthalate	25.03	149	569532	5.6599	ng/uL	97
39	Benzo[b]fluoranthene	26.98	252	307015	1.9672	ng/uL	96
40	Benzo[k]fluoranthene	27.03	252	90254	0.6104	ng/uL	67
41	Benzo[a]pyrene	27.62	252	179905	1.3110	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.70	276	151183	1.1794	ng/uL	91
43	Dibenz[a,h]anthracene	29.76	278	33526	0.2731	ng/uL	66
44	Benzo[ghi]perylene	30.13	276	146009	1.0848	ng/uL	95



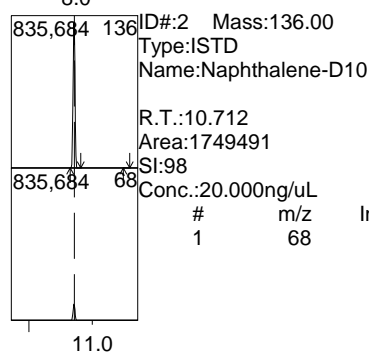
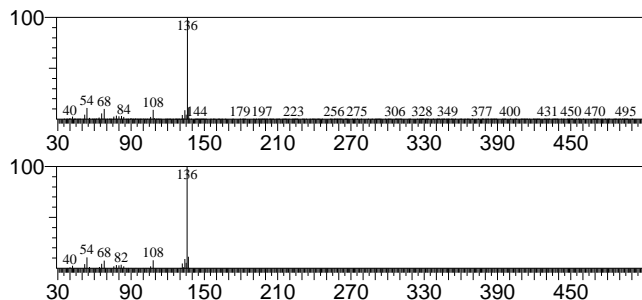
ID#:1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:444436
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	137580	65.91	67.59
2	150	323080	154.79	156.27

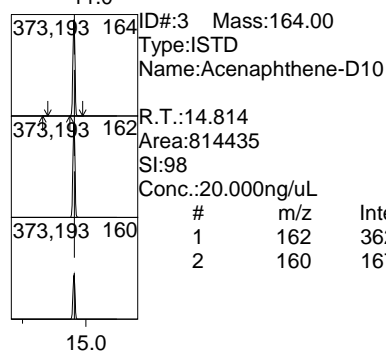
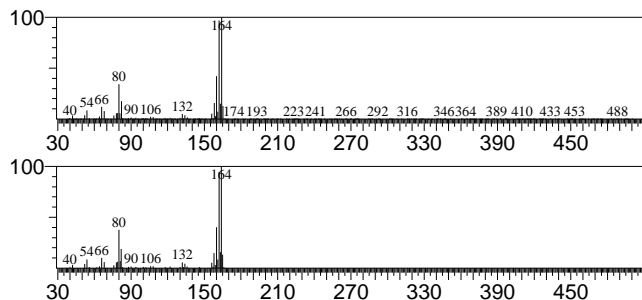
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.712
 Area:1749491
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	90322	10.85	10.57

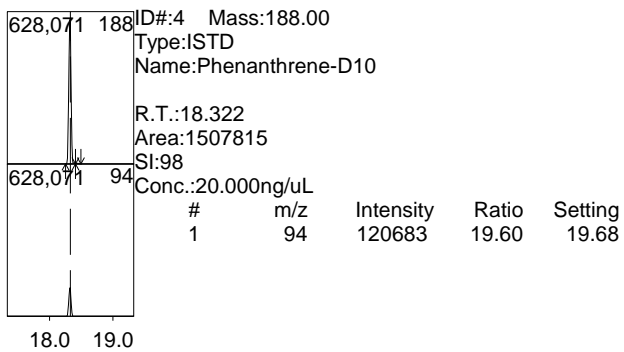
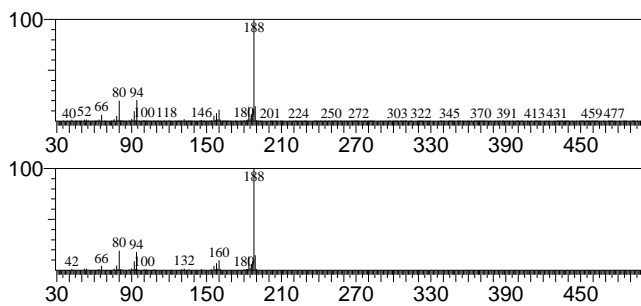
ID#3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.814
 Area:814435
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	362606	98.51	99.35
2	160	167631	45.54	45.34

ID#:4 R.Time:18.3(Scan#:3773)

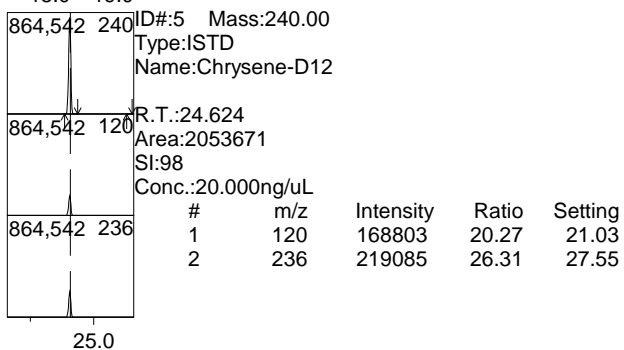
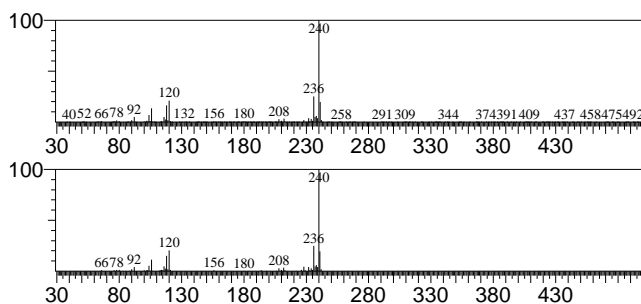


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.322
Area:1507815
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	120683	19.60	19.68

ID#5 R.Time:24.6(Scan#:5263)

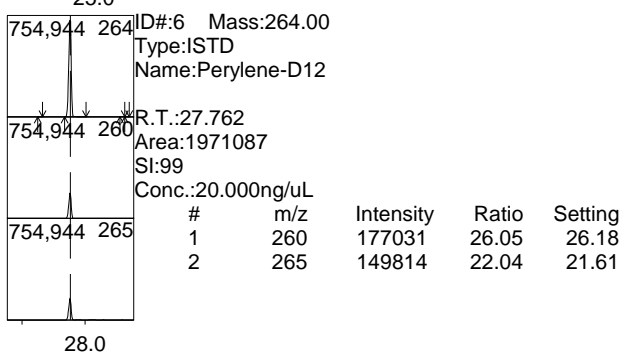
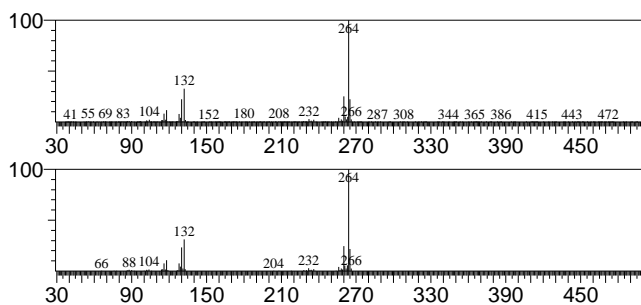


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.624
Area:2053671
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	168803	20.27	21.03
2	236	219085	26.31	27.55

ID#6 R.Time:27.8(Scan#:6015)

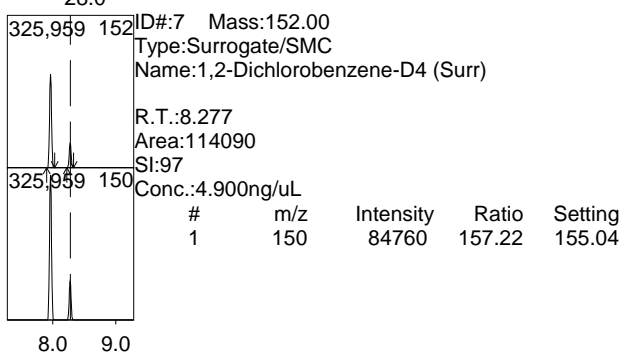
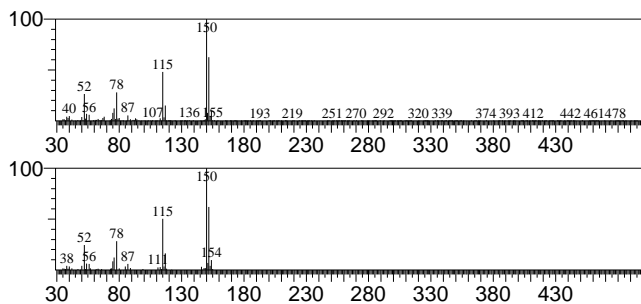


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.762
Area:1971087
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	177031	26.05	26.18
2	265	149814	22.04	21.61

ID#7 R.Time:8.3(Scan#:1411)

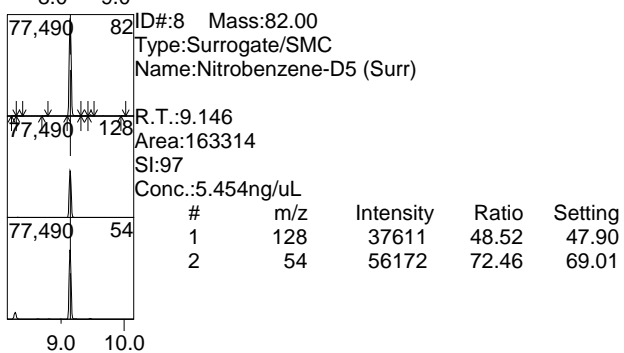
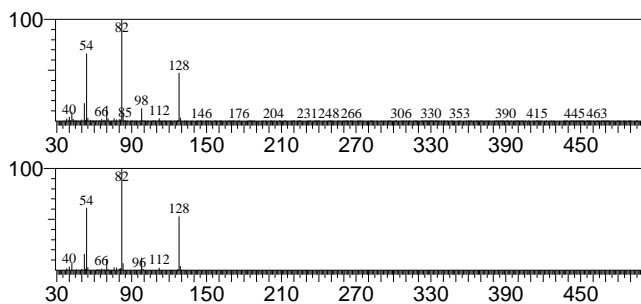


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:114090
SI:97
Conc.:4.900ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	84760	157.22	155.04

ID#8 R.Time:9.1(Scan#:1619)

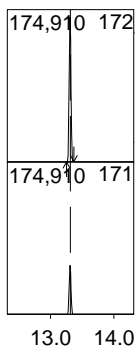
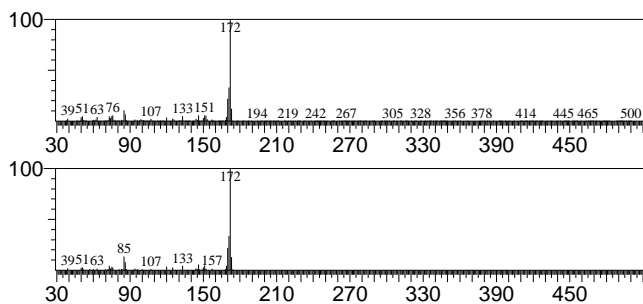


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:163314
SI:97
Conc.:5.454ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	37611	48.52	47.90
2	54	56172	72.46	69.01

ID#:9 R.Time:13.3(Scan#:2619)



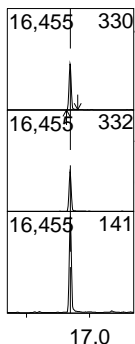
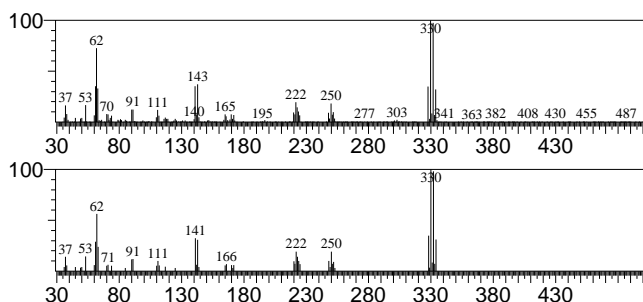
ID#9 Mass:172.00
 Type:Surrogate/SMC
 Name:2-Fluorobiphenyl (Surr)

R.T.:13.308
 Area:355096
 SI:97

Conc.:5.159ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	59674	33.77	33.54

ID#:10 R.Time:16.7(Scan#:3409)



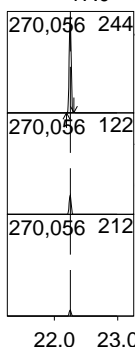
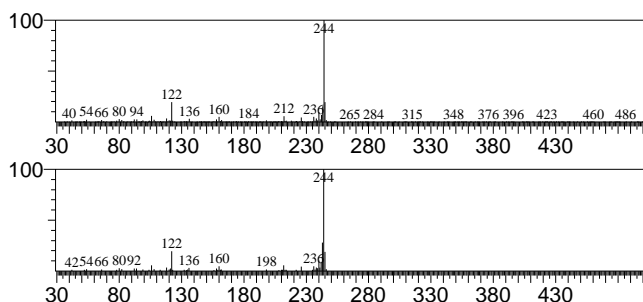
ID#10 Mass:330.00
 Type:Surrogate/SMC
 Name:2,4,6-Tribromophenol (Surr)

R.T.:16.691
 Area:18220
 SI:97

Conc.:5.594ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	6732	86.01	88.80
2	141	15004	191.69	153.10

ID#:11 R.Time:22.3(Scan#:4693)



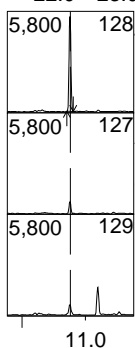
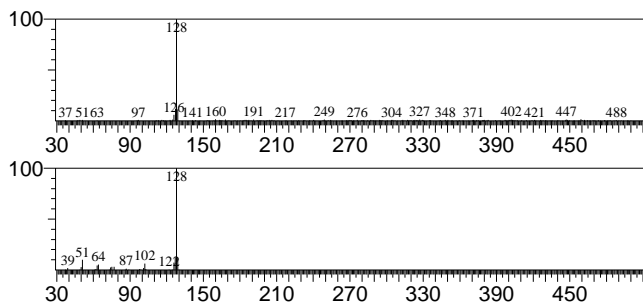
ID#11 Mass:244.00
 Type:Surrogate/SMC
 Name:Terphenyl-D14 (Surr)

R.T.:22.249
 Area:569280
 SI:97

Conc.:6.900ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	53414	19.95	20.49
2	212	16847	6.29	6.58

ID#:17 R.Time:10.8(Scan#:2007)



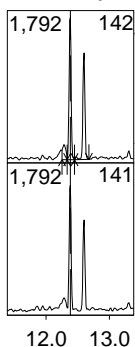
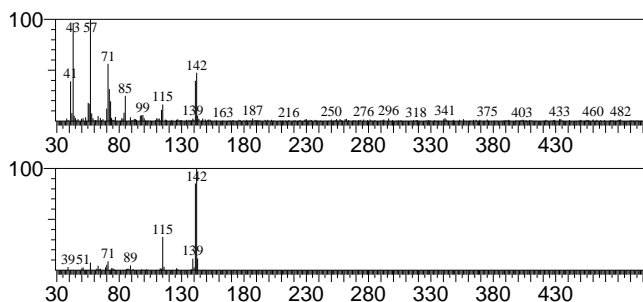
ID#17 Mass:128.00
 Type:Target
 Name:Naphthalene

R.T.:10.757
 Area:11445
 SI:86

Conc.:0.109ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	731	12.60	12.65
2	129	575	9.91	10.06

ID#:18 R.Time:12.4(Scan#:2397)



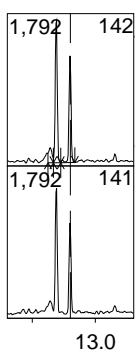
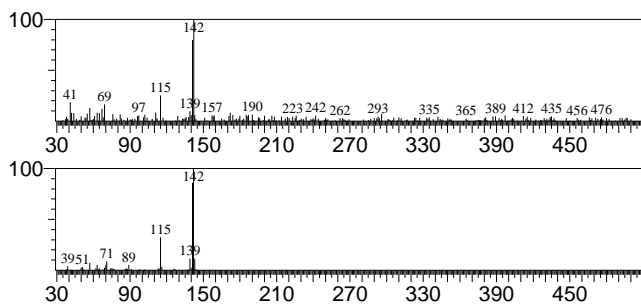
ID#18 Mass:142.00
 Type:Target
 Name:2-Methylnaphthalene

R.T.:12.380
 Area:3770
 SI:70

Conc.:0.056ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1537	89.36	83.64

ID#:19 R.Time:12.6(Scan#:2449)

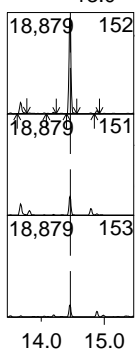
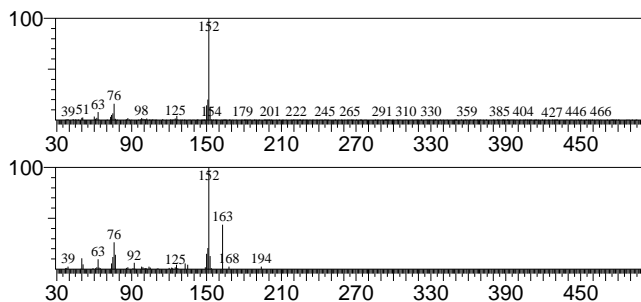


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.599
Area:2850
SI:85
Conc.:0.043ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1104	84.02	87.02

ID#:22 R.Time:14.5(Scan#:2895)

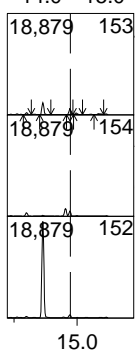
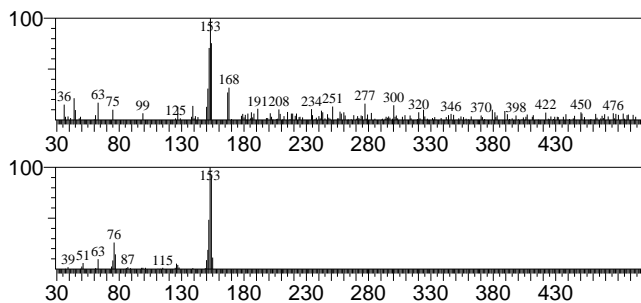


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.457
Area:39364
SI:86
Conc.:0.382ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	3651	19.43	19.84
2	153	2353	12.52	12.50

ID#:23 R.Time:14.9(Scan#:2997)

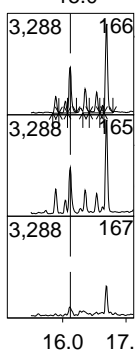
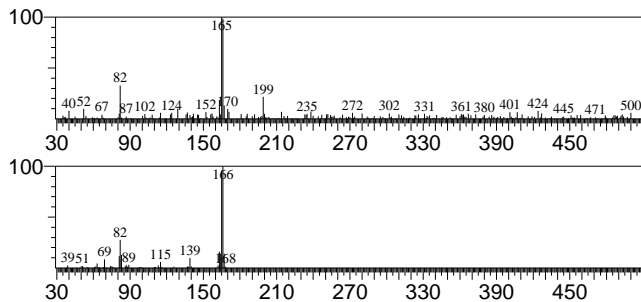


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.884
Area:2170
SI:82
Conc.:0.033ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	804	74.72	94.93
2	152	586	54.46	49.24

ID#:24 R.Time:16.1(Scan#:3283)

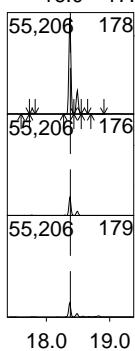
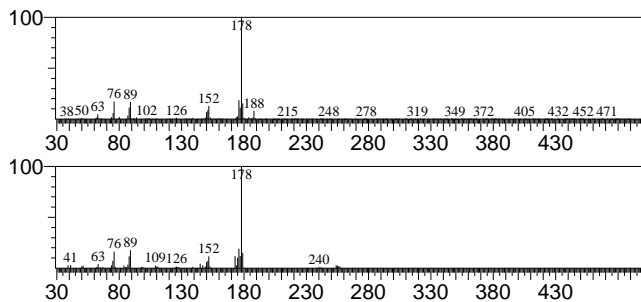


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.118
Area:4114
SI:88
Conc.:0.057ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	1456	98.11	91.21
2	167	235	15.84	13.28

ID#:29 R.Time:18.4(Scan#:3783)

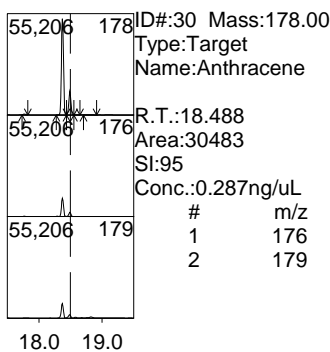
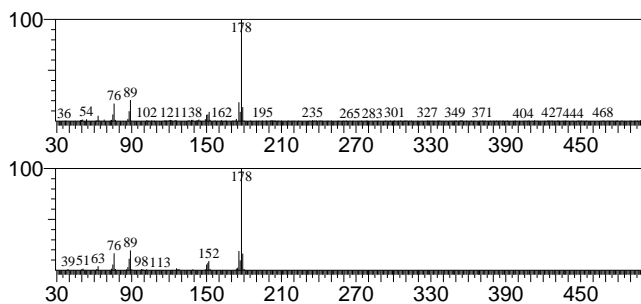


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.371
Area:120137
SI:90
Conc.:1.131ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	10643	18.99	19.27
2	179	8335	14.87	14.18

ID#:30 R.Time:18.5(Scan#:3809)

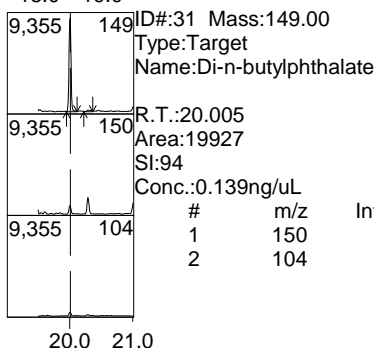
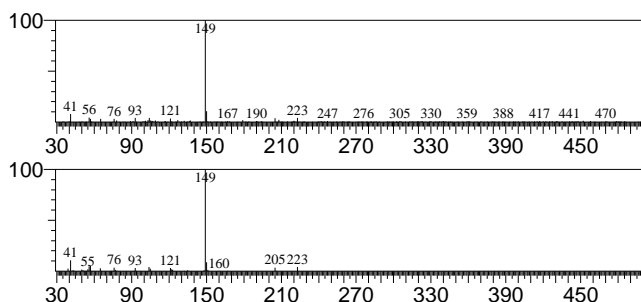


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.488
Area:30483
SI:95
Conc.:0.287ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	2428	18.38	18.61
2	179	1920	14.54	14.75

ID#:31 R.Time:20.0(Scan#:4155)

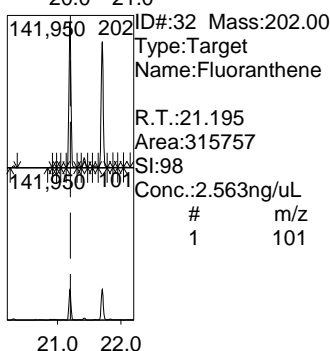
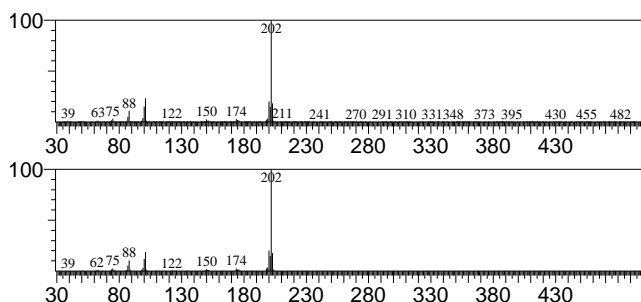


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.005
Area:19927
SI:94
Conc.:0.139ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	774	8.61	8.88
2	104	333	3.71	4.02

ID#:32 R.Time:21.2(Scan#:4439)

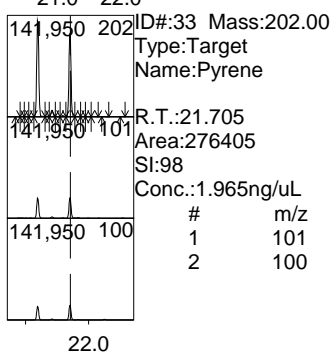
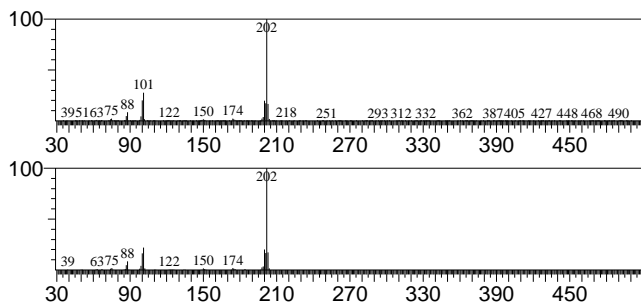


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.195
Area:315757
SI:98
Conc.:2.563ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	28784	20.85	20.51

ID#:33 R.Time:21.7(Scan#:4563)

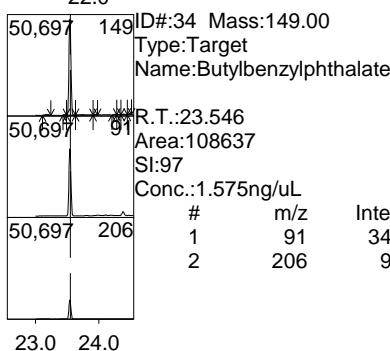
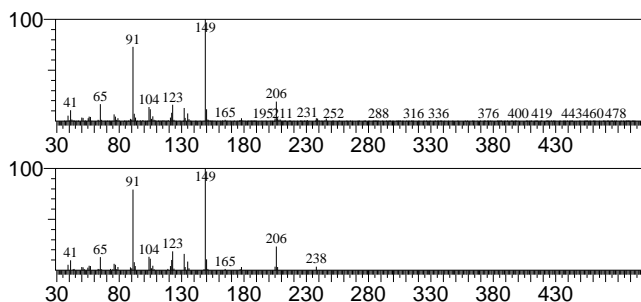


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.705
Area:276405
SI:98
Conc.:1.965ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	28992	24.19	23.49
2	100	20705	17.27	16.96

ID#:34 R.Time:23.5(Scan#:5003)

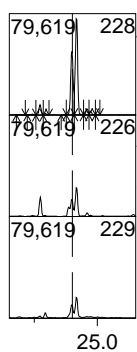
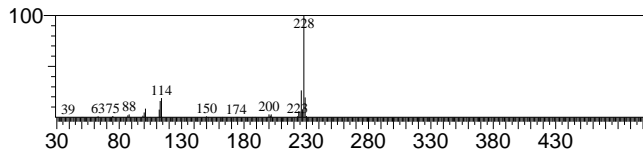
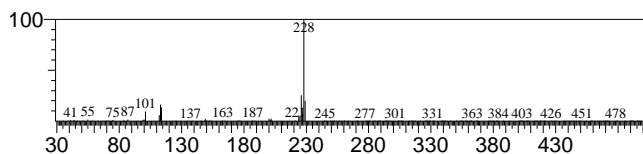


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.546
Area:108637
SI:97
Conc.:1.575ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	34251	69.62	69.36
2	206	9683	19.68	19.97

ID#:35 R.Time:24.6(Scan#:5257)

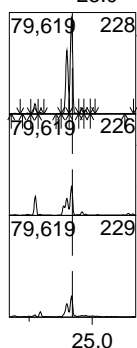
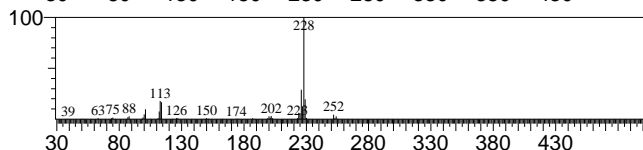
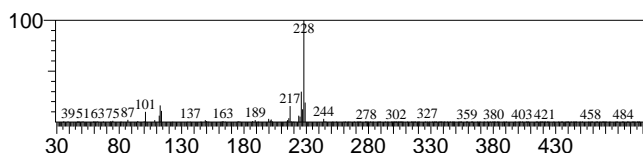


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.597
Area:145391
SI:96
Conc.:1.023ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	11353	26.24	26.21
2	229	8516	19.68	19.36

ID#:36 R.Time:24.7(Scan#:5273)

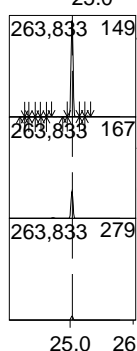
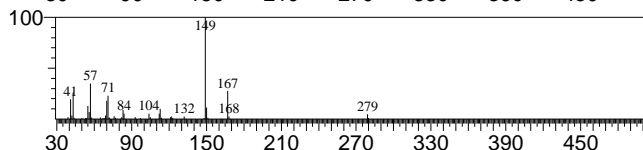
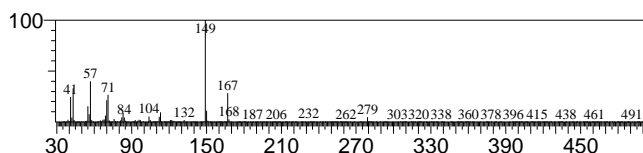


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.670
Area:192819
SI:94
Conc.:1.427ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	20515	29.70	29.42
2	229	14316	20.72	19.66

ID#:37 R.Time:25.0(Scan#:5361)

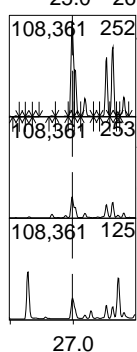
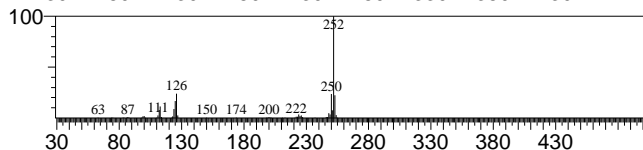
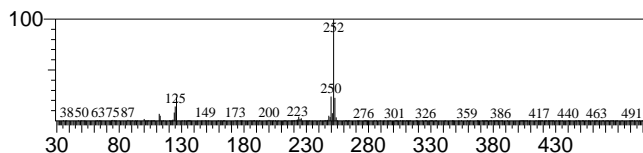


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.032
Area:569532
SI:97
Conc.:5.660ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	72170	27.91	29.29
2	279	10781	4.17	4.16

ID#:39 R.Time:27.0(Scan#:5829)

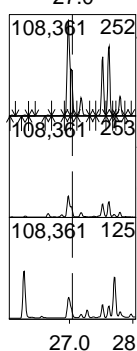
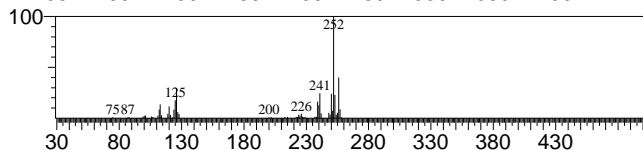
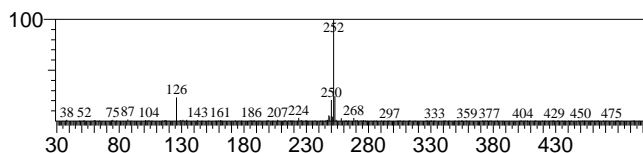


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.982
Area:307015
SI:96
Conc.:1.967ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	16783	21.41	20.50
2	125	13480	17.20	14.60

ID#:40 R.Time:27.0(Scan#:5839)

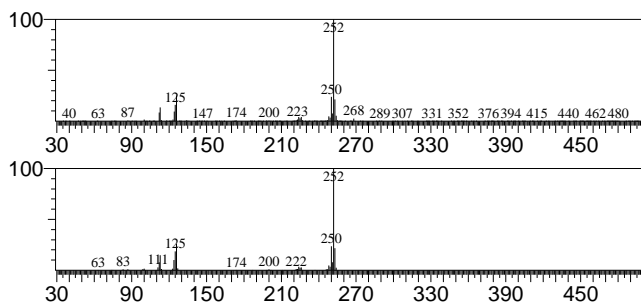


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

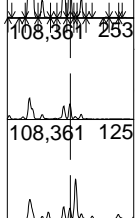
R.T.:27.026
Area:90254
SI:67
Conc.:0.610ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	4117	21.61	20.19
2	125	777	* 4.08	14.03

ID#:41 R.Time:27.6(Scan#:5983)



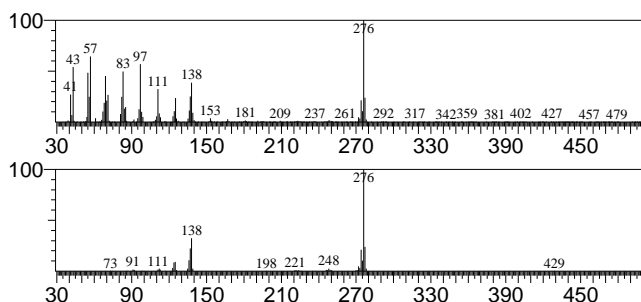
ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene



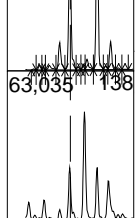
R.T.:27.622
Area:179905
SI:97
Conc.:1.311ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	15877	21.43	21.99
2	125	9166	12.37	17.18

ID#:42 R.Time:29.7(Scan#:6481)



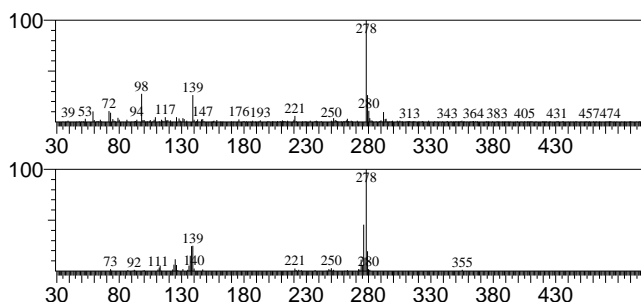
ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene



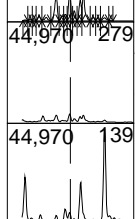
R.T.:29.702
Area:151183
SI:91
Conc.:1.179ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	21531	36.10	32.23

ID#:43 R.Time:29.8(Scan#:6495)



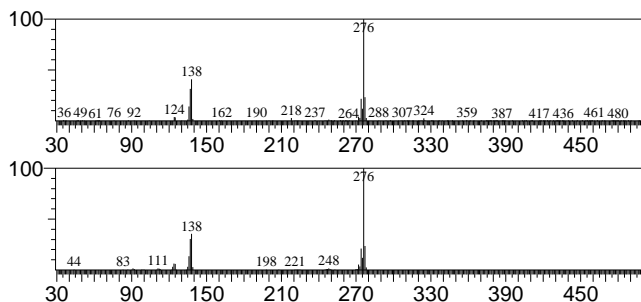
ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene



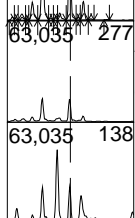
R.T.:29.757
Area:33526
SI:66
Conc.:0.273ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	3300	26.13	23.98
2	139	3317	26.26	28.79

ID#:44 R.Time:30.1(Scan#:6585)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene



R.T.:30.133
Area:146009
SI:95
Conc.:1.085ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	13546	22.57	23.18
2	138	21340	35.56	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415840.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 12:26:41 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-06
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 30
 Injection Volume : 1

Internal Standard

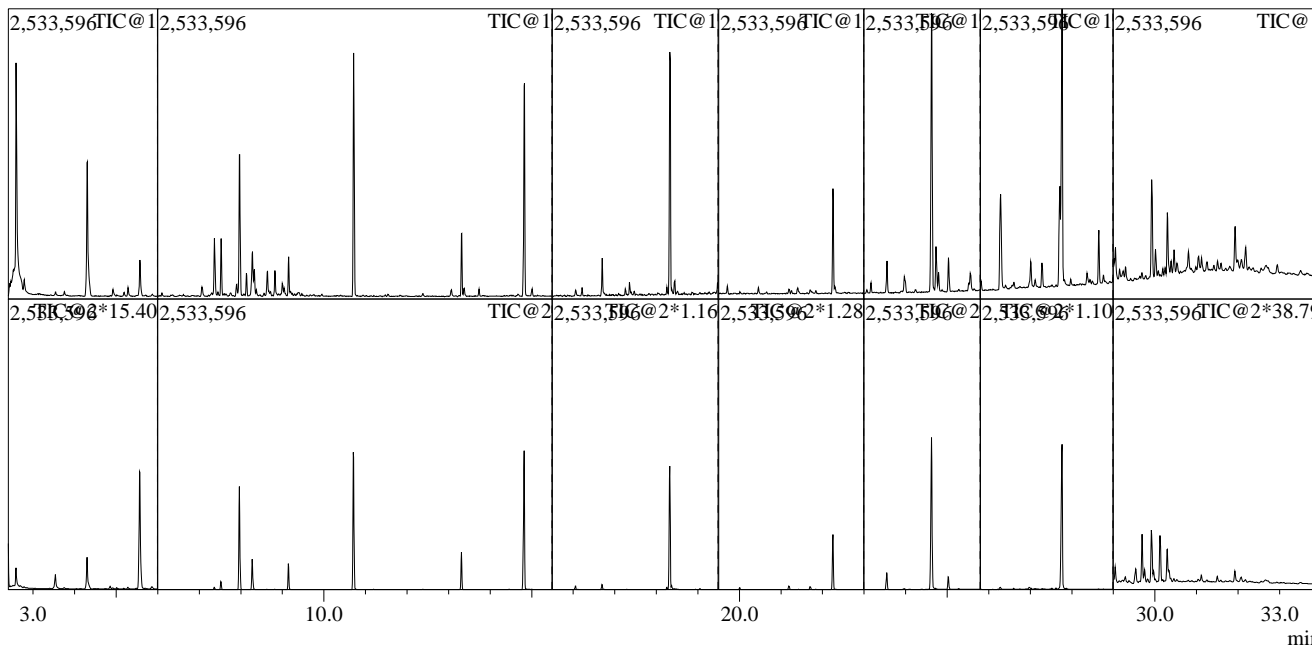
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	451007	20.0000	ng/uL	95.45
2	Naphthalene-D10	10.71	136	1800557	20.0000	ng/uL	98.03
3	Acenaphthene-D10	14.81	164	804927	20.0000	ng/uL	96.39
4	Phenanthrene-D10	18.32	188	1564490	20.0000	ng/uL	98.89
5	Chrysene-D12	24.62	240	2116164	20.0000	ng/uL	104.18
6	Perylene-D12	27.76	264	2052143	20.0000	ng/uL	103.31
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

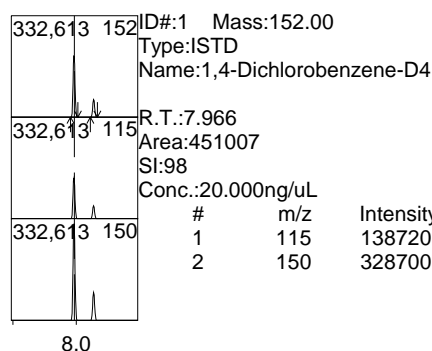
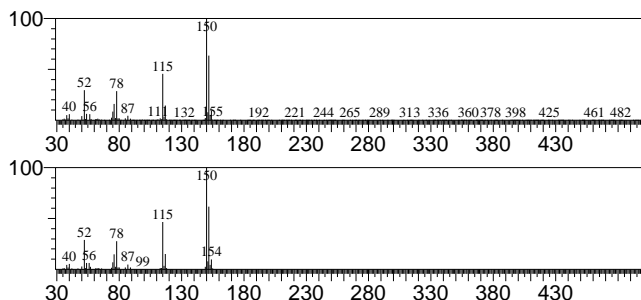
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	128071	5.42	ng/uL	216.8100
8	Nitrobenzene-D5 (Surr)	9.14	82	181488	5.89	ng/uL	235.5600
9	2-Fluorobiphenyl (Surr)	13.31	172	376968	5.54	ng/uL	221.6400
10	2,4,6-Tribromophenol (Surr)	16.69	330	13997	3.96	ng/uL	105.6000
11	Terphenyl-D14 (Surr)	22.25	244	591349	6.96	ng/uL	278.2200
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	6091	0.0566	ng/uL	83
22	Acenaphthylene	14.46	152	2644	0.0259	ng/uL	81
29	Phenanthrene	18.37	178	20896	0.1897	ng/uL	89
30	Anthracene	18.49	178	2763	0.0251	ng/uL	86
31	Di-n-butylphthalate	20.00	149	23390	0.1568	ng/uL	94
32	Fluoranthene	21.19	202	35128	0.2748	ng/uL	96
33	Pyrene	21.70	202	28685	0.1979	ng/uL	97
34	Butylbenzylphthalate	23.54	149	143565	2.0197	ng/uL	98
35	Benz[a]anthracene	24.60	228	17401	0.1188	ng/uL	82
36	Chrysene	24.67	228	18197	0.1307	ng/uL	84
37	Bis(2-ethylhexyl)phthalate	25.03	149	165304	1.5942	ng/uL	98
39	Benzo[b]fluoranthene	26.98	252	27339	0.1683	ng/uL	85
40	Benzo[k]fluoranthene	27.02	252	9384	0.0610	ng/uL	71
41	Benzo[a]pyrene	27.62	252	16963	0.1187	ng/uL	94
42	Indeno[1,2,3-cd]pyrene	29.69	276	14910	0.1117	ng/uL	91
44	Benzo[ghi]perylene	30.12	276	14588	0.1041	ng/uL	85



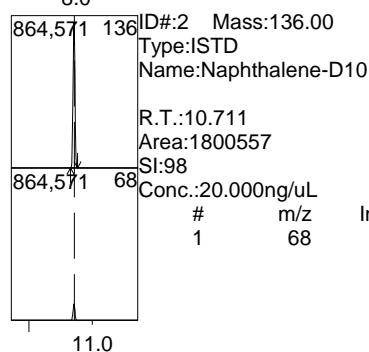
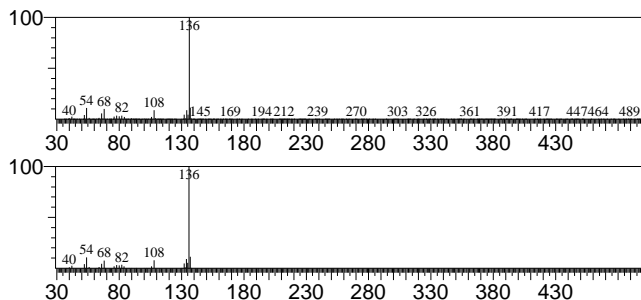
ID#:1 R.Time:8.0(Scan#:1337)



ID#:1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.966
 Area:451007
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	138720	65.70	67.59
2	150	328700	155.68	156.27

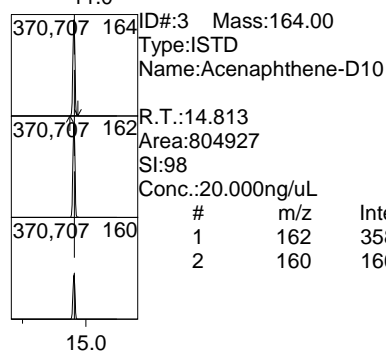
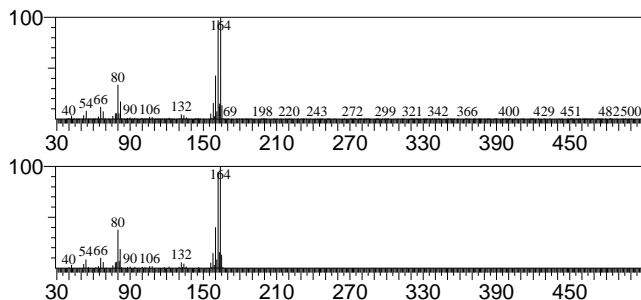
ID#:2 R.Time:10.7(Scan#:1995)



ID#:2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.711
 Area:1800557
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	94180	10.93	10.57

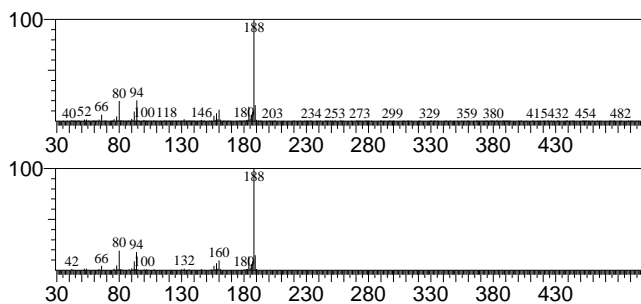
ID#:3 R.Time:14.8(Scan#:2981)



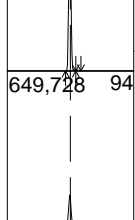
ID#:3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.813
 Area:804927
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	358982	98.38	99.35
2	160	166459	45.62	45.34

ID#:4 R.Time:18.3(Scan#:3771)

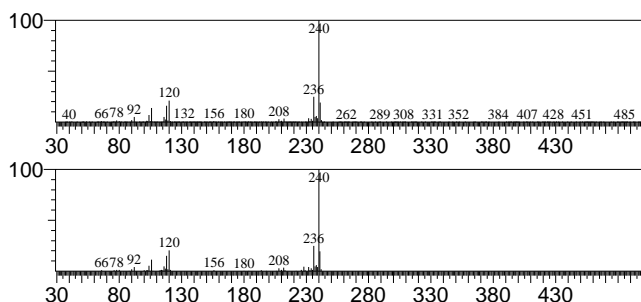


649,728 188 ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

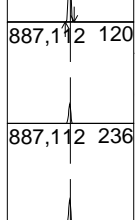


R.T.:18.321
Area:1564490
SI:98
Conc.:20.000ng/uL
m/z Intensity Ratio Setting
1 94 121596 19.41 19.68

ID#:5 R.Time:24.6(Scan#:5263)

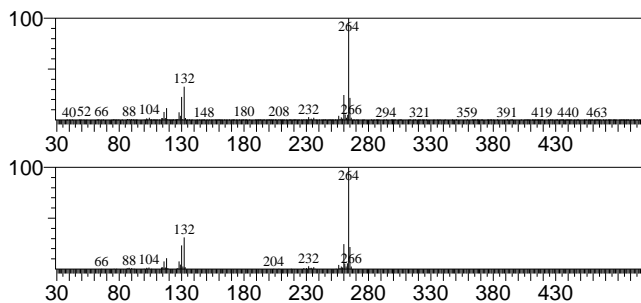


887,112 240 ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

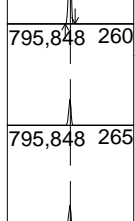


R.T.:24.623
Area:2116164
SI:97
Conc.:20.000ng/uL
m/z Intensity Ratio Setting
1 120 170118 20.00 21.03
2 236 224662 26.41 27.55

ID#:6 R.Time:27.8(Scan#:6015)

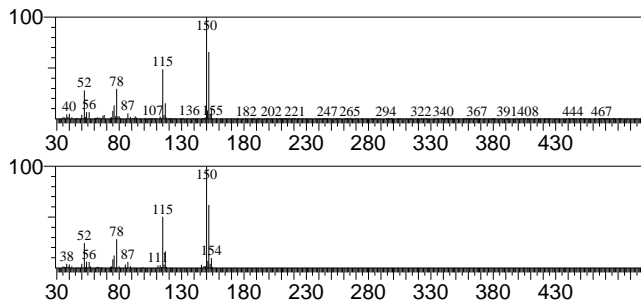


795,848 264 ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

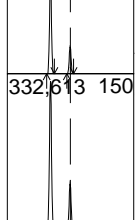


R.T.:27.761
Area:2052143
SI:99
Conc.:20.000ng/uL
m/z Intensity Ratio Setting
1 260 187400 26.00 26.18
2 265 158125 21.94 21.61

ID#:7 R.Time:8.3(Scan#:1411)

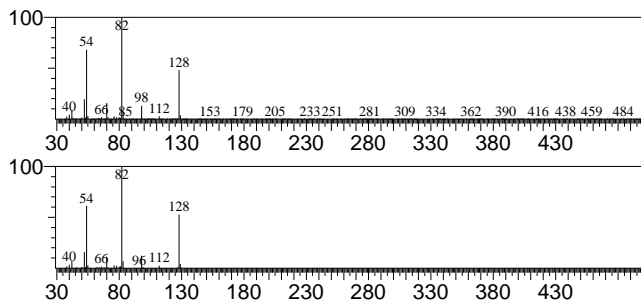


332,613 152 ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

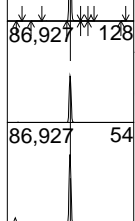


R.T.:8.277
Area:128071
SI:96
Conc.:5.420ng/uL
m/z Intensity Ratio Setting
1 150 95928 158.25 155.04

ID#:8 R.Time:9.1(Scan#:1619)

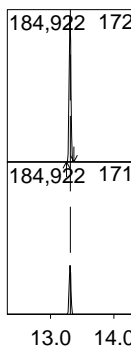
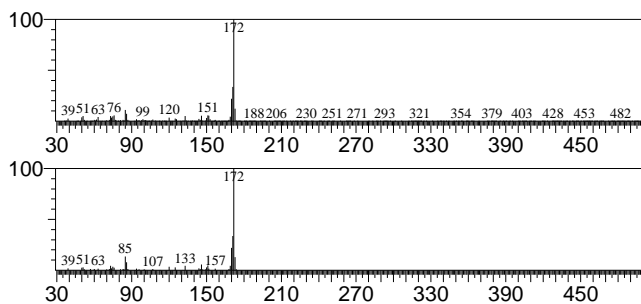


86,927 82 ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)



R.T.:9.145
Area:181488
SI:97
Conc.:5.889ng/uL
m/z Intensity Ratio Setting
1 128 42281 48.22 47.90
2 54 63467 72.38 69.01

ID#:9 R.Time:13.3(Scan#:2619)



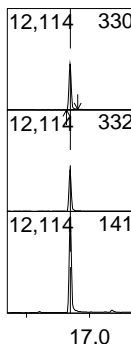
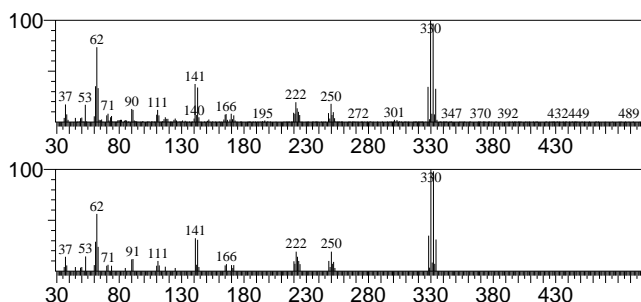
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.307
Area:376968
SI:97

Conc.:5.541ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	63043	33.81	33.54

ID#:10 R.Time:16.7(Scan#:3409)



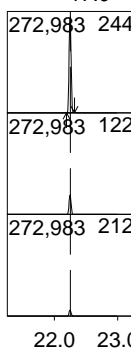
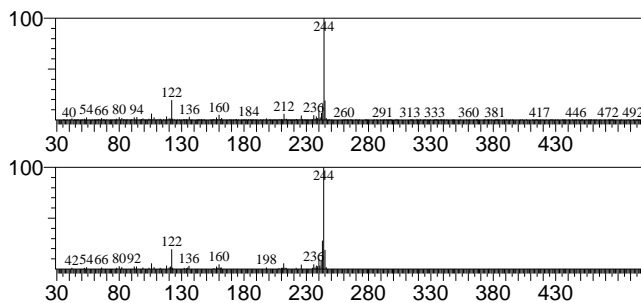
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.691
Area:13997
SI:97

Conc.:3.960ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	5103	89.45	88.80
2	141	11290	197.90	153.10

ID#:11 R.Time:22.3(Scan#:4693)



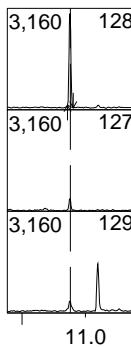
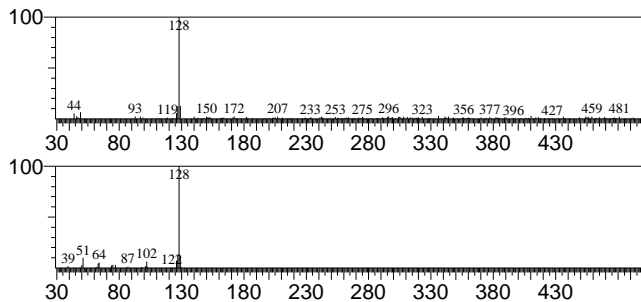
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.248
Area:591349
SI:97

Conc.:6.955ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	53930	20.20	20.49
2	212	16874	6.32	6.58

ID#:17 R.Time:10.8(Scan#:2007)



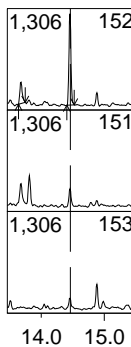
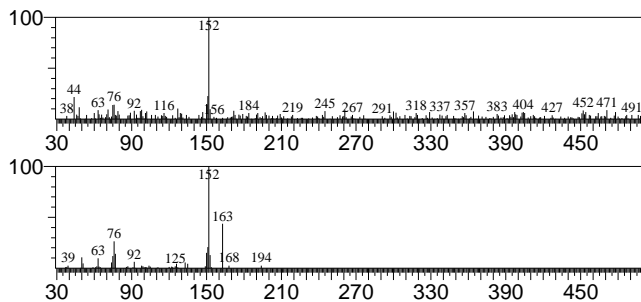
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:6091
SI:83

Conc.:0.057ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	361	11.68	12.65
2	129	261	8.44	10.06

ID#:22 R.Time:14.5(Scan#:2895)



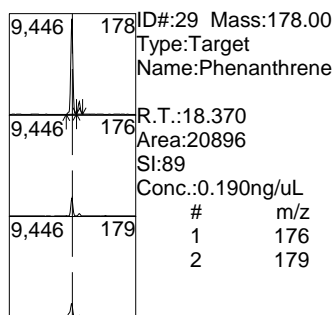
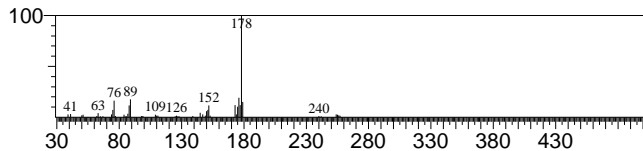
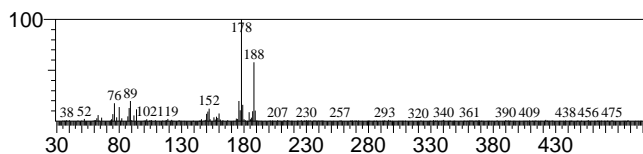
ID#22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.457
Area:2644
SI:81

Conc.:0.026ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	245	20.00	19.84
2	153	142	11.59	12.50

ID#:29 R.Time:18.4(Scan#:3783)

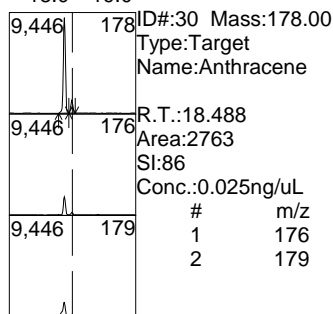
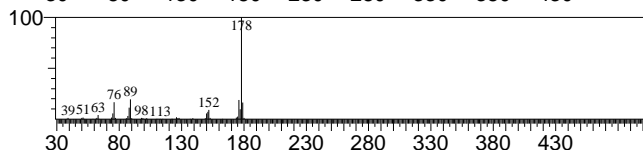
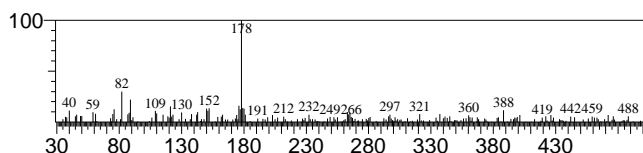


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.370
Area:20896
SI:89
Conc.:0.190ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	1763	18.52	19.27
2	179	1341	14.09	14.18

ID#:30 R.Time:18.5(Scan#:3809)

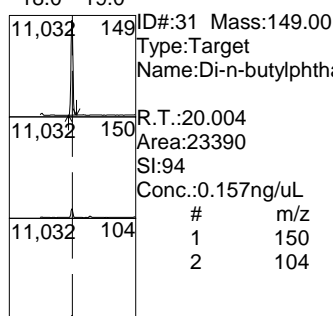
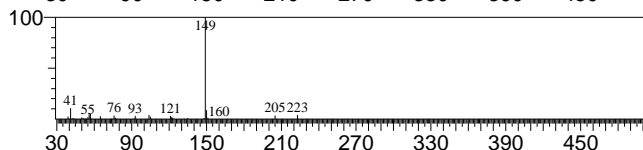
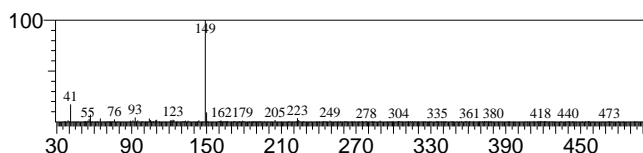


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.488
Area:2763
SI:86
Conc.:0.025ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	220	18.23	18.61
2	179	135	11.19	14.75

ID#:31 R.Time:20.0(Scan#:4153)

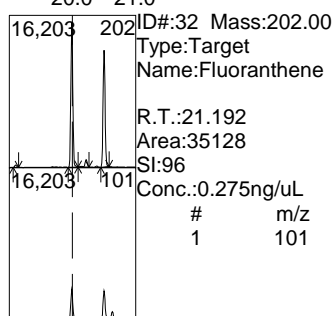
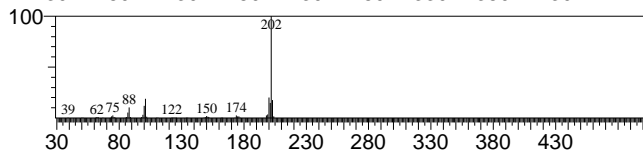
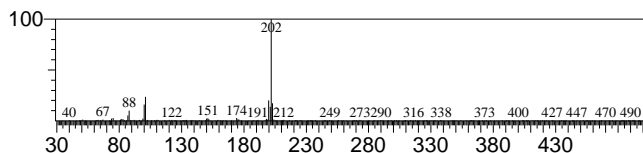


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.004
Area:23390
SI:94
Conc.:0.157ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	964	9.07	8.88
2	104	428	4.03	4.02

ID#:32 R.Time:21.2(Scan#:4439)

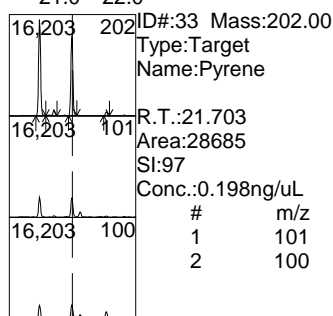
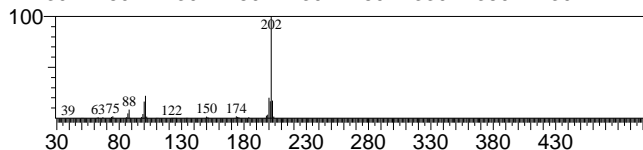
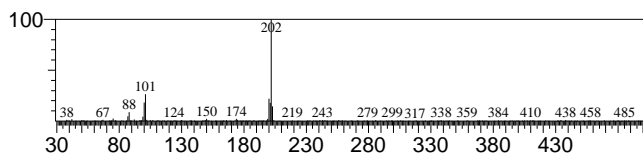


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.192
Area:35128
SI:96
Conc.:0.275ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	3295	20.66	20.51

ID#:33 R.Time:21.7(Scan#:4561)

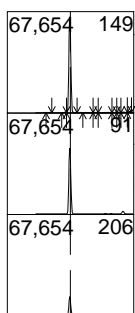
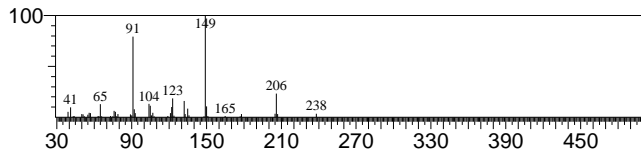
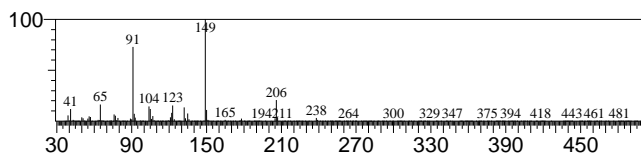


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.703
Area:28685
SI:97
Conc.:0.198ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	3104	24.26	23.49
2	100	2232	17.44	16.96

ID#:34 R.Time:23.5(Scan#:5003)

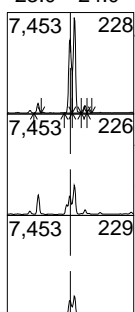
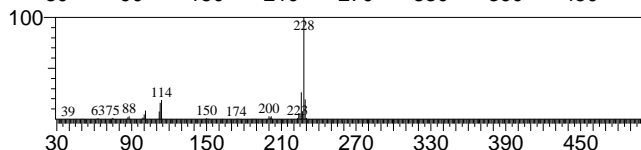
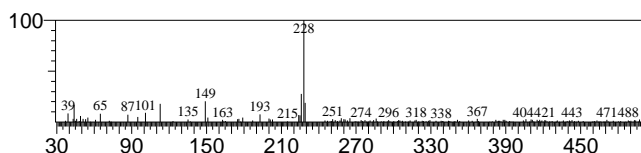


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.544
Area:143565
SI:98
Conc.:2.020ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	45861	68.67	69.36
2	206	13094	19.61	19.97

ID#:35 R.Time:24.6(Scan#:5257)

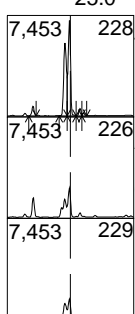
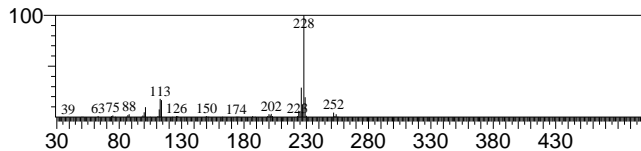
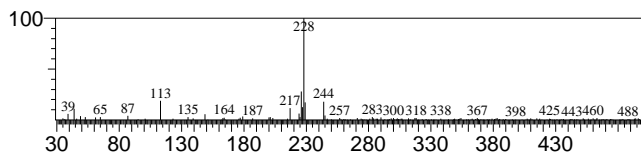


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.599
Area:17401
SI:82
Conc.:0.119ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	785	22.97	26.21
2	229	665	19.46	19.36

ID#:36 R.Time:24.7(Scan#:5273)

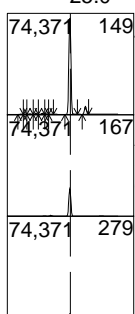
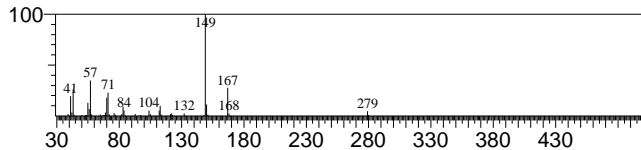
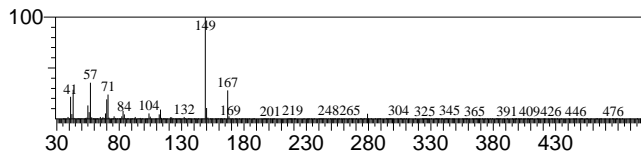


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.669
Area:18197
SI:84
Conc.:0.131ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	1609	30.80	29.42
2	229	1040	19.91	19.66

ID#:37 R.Time:25.0(Scan#:5359)

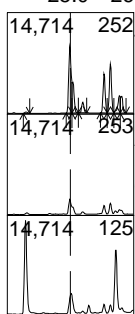
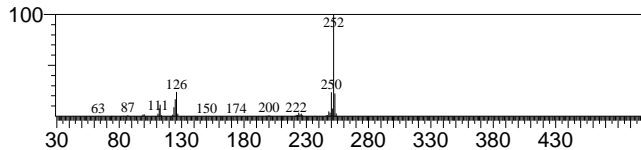
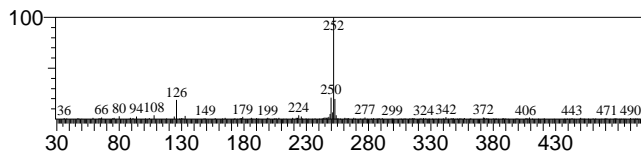


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.029
Area:165304
SI:98
Conc.:1.594ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	20348	28.52	29.29
2	279	3045	4.27	4.16

ID#:39 R.Time:27.0(Scan#:5827)

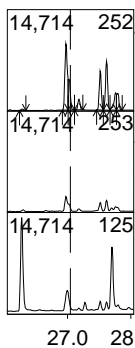
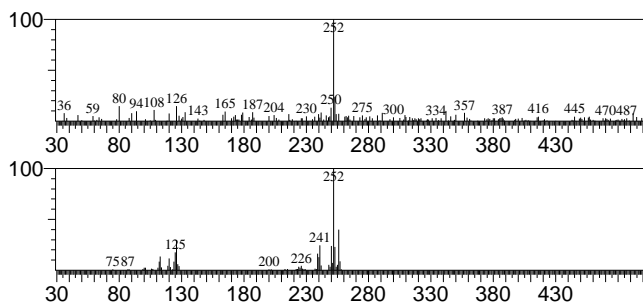


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.977
Area:27339
SI:85
Conc.:0.168ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	1607	21.19	20.50
2	125	381	* 5.02	14.60

ID#:40 R.Time:27.0(Scan#:5839)

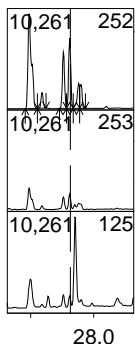
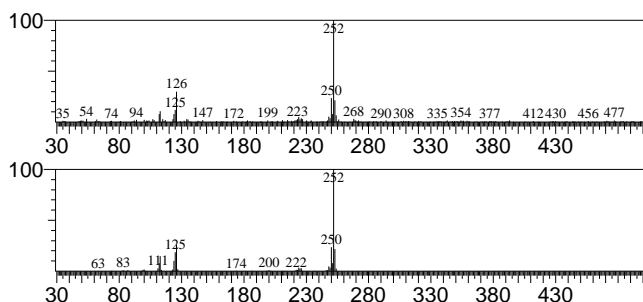


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.022
Area:9384
SI:71
Conc.:0.061ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	395	19.58	20.19
2	125	0	* 0.00	14.03

ID#:41 R.Time:27.6(Scan#:5981)

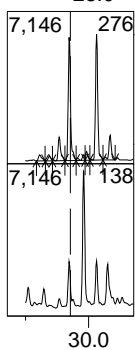
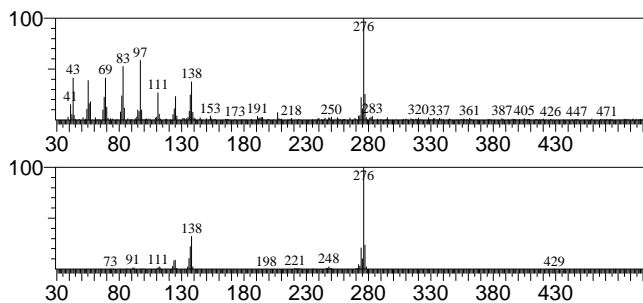


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.618
Area:16963
SI:94
Conc.:0.119ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	1526	21.26	21.99
2	125	835	* 11.63	17.18

ID#:42 R.Time:29.7(Scan#:6479)

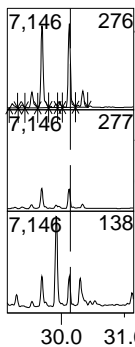
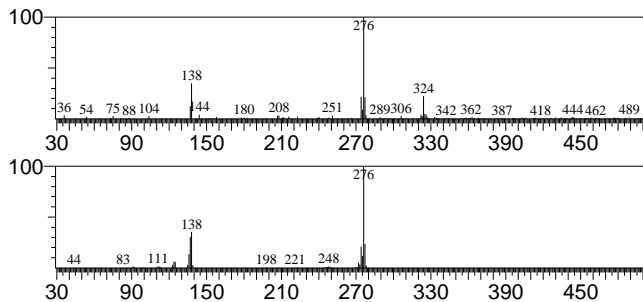


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.694
Area:14910
SI:91
Conc.:0.112ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	2105	35.85	32.23

ID#:44 R.Time:30.1(Scan#:6583)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.125
Area:14588
SI:85
Conc.:0.104ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	1355	22.76	23.18
2	138	2003	33.64	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415841.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 1:15:14 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-09
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 31
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	504934	20.0000	ng/uL	106.86
2	Naphthalene-D10	10.71	136	2001242	20.0000	ng/uL	108.96
3	Acenaphthene-D10	14.81	164	931887	20.0000	ng/uL	111.60
4	Phenanthrene-D10	18.32	188	1732424	20.0000	ng/uL	109.50
5	Chrysene-D12	24.64	240	2266139	20.0000	ng/uL	111.57
6	Perylene-D12	27.78	264	2150536	20.0000	ng/uL	108.26
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

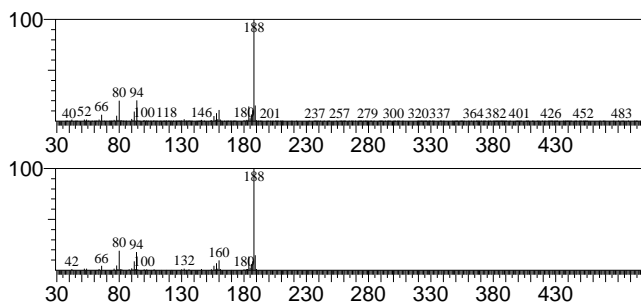
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	116851	4.42	ng/uL	176.6900
8	Nitrobenzene-D5 (Surr)	9.15	82	170399	4.97	ng/uL	198.9900
9	2-Fluorobiphenyl (Surr)	13.31	172	386647	4.91	ng/uL	196.3600
10	2,4,6-Tribromophenol (Surr)	16.69	330	19120	5.05	ng/uL	134.6300
11	Terphenyl-D14 (Surr)	22.26	244	623949	6.85	ng/uL	274.1300
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	74283	0.6206	ng/uL	97
18	2-Methylnaphthalene	12.38	142	18008	0.2326	ng/uL	88
19	1-Methylnaphthalene	12.60	142	17305	0.2267	ng/uL	97
20	Biphenyl	13.52	154	7542	0.0810	ng/uL	90
22	Acenaphthylene	14.46	152	390711	3.3112	ng/uL	83
23	Acenaphthene	14.88	153	60447	0.8000	ng/uL	94
24	Fluorene	16.12	166	66810	0.8124	ng/uL	96
29	Phenanthrene	18.38	178	1685801	13.8190	ng/uL	92
30	Anthracene	18.49	178	446705	3.6634	ng/uL	98
31	Di-n-butylphthalate	20.01	149	26033	0.1576	ng/uL	84
32	Fluoranthene	21.22	202	3560336	25.1483	ng/uL	98
33	Pyrene	21.73	202	3301082	21.2721	ng/uL	98
34	Butylbenzylphthalate	23.55	149	74406	0.9775	ng/uL	95
35	Benz[a]anthracene	24.62	228	1958923	12.4855	ng/uL	98
36	Chrysene	24.70	228	1941946	13.0232	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.04	149	81670	0.7355	ng/uL	88
39	Benzo[b]fluoranthene	27.02	252	2868545	16.8469	ng/uL	95
40	Benzo[k]fluoranthene	27.05	252	1093794	6.7803	ng/uL	66
41	Benzo[a]pyrene	27.66	252	2054181	13.7200	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.73	276	1372711	9.8148	ng/uL	98
43	Dibenz[a,h]anthracene	29.78	278	322138	2.4047	ng/uL	66
44	Benzo[ghi]perylene	30.17	276	1217332	8.2895	ng/uL	96

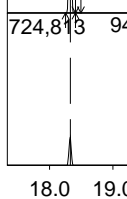
ID#:4 R.Time:18.3(Scan#:3773)



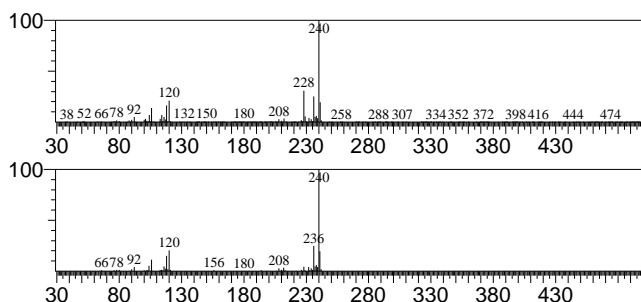
ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.325
Area:1732424
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	138714	19.54	19.68



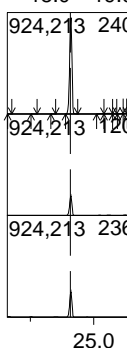
ID#5 R.Time:24.6(Scan#:5267)



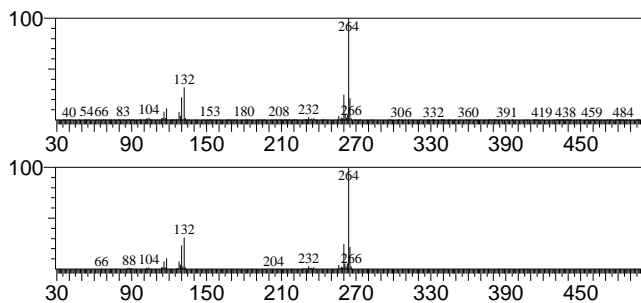
ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.642
Area:2266139
SI:95

#	m/z	Intensity	Ratio	Setting
1	120	181379	20.45	21.03
2	236	233995	26.38	27.55



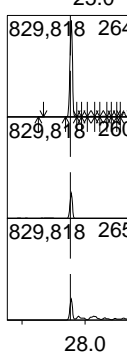
ID#6 R.Time:27.8(Scan#:6021)



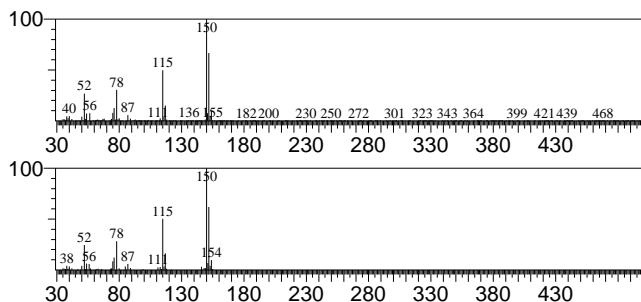
ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.781
Area:2150536
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	200482	25.86	26.18
2	265	163380	21.07	21.61



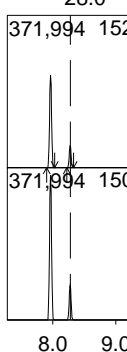
ID#7 R.Time:8.3(Scan#:1411)



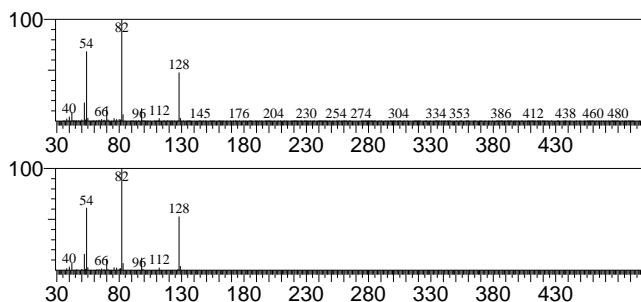
ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:116851
SI:97

#	m/z	Intensity	Ratio	Setting
1	150	87339	158.37	155.04



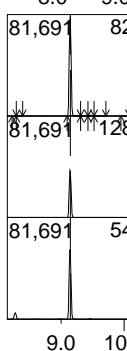
ID#8 R.Time:9.1(Scan#:1619)



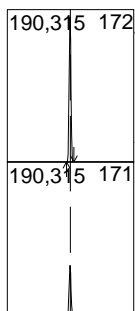
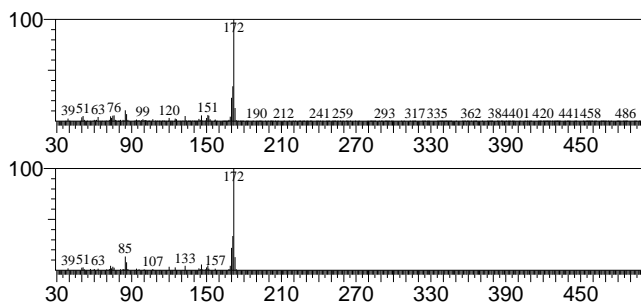
ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.145
Area:170399
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	39772	48.45	47.90
2	54	59615	72.62	69.01



ID#:9 R.Time:13.3(Scan#:2619)



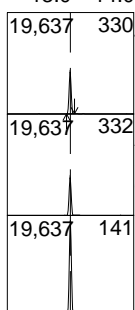
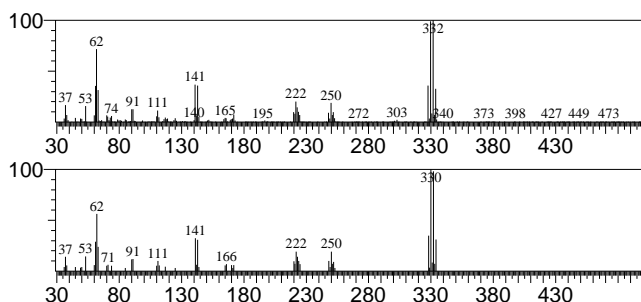
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.308
Area:386647
SI:97

Conc.:4.909ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	64815	33.75	33.54

ID#:10 R.Time:16.7(Scan#:3409)



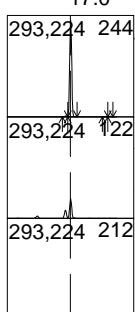
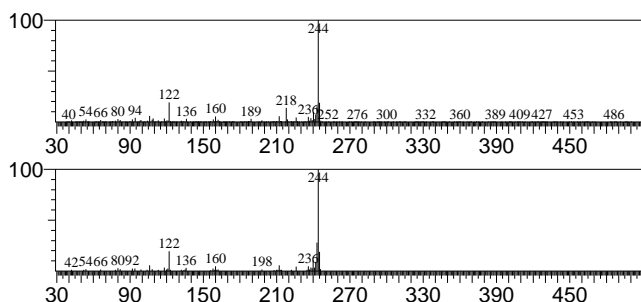
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.692
Area:19120
SI:97

Conc.:5.049ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	7688	89.79	88.80
2	141	17210	* 201.00	153.10

ID#:11 R.Time:22.3(Scan#:4695)



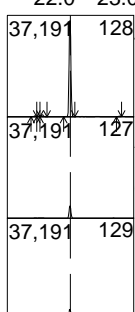
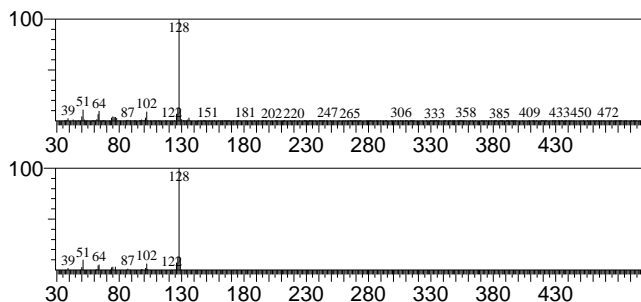
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.257
Area:623949
SI:97

Conc.:6.853ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	57694	19.97	20.49
2	212	18001	6.23	6.58

ID#:17 R.Time:10.8(Scan#:2007)



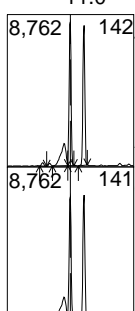
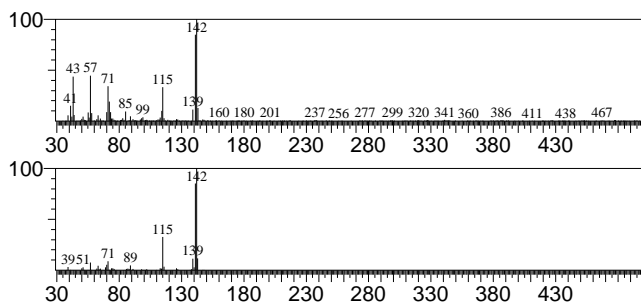
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:74283
SI:97

Conc.:0.621ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	4761	12.59	12.65
2	129	4067	10.76	10.06

ID#:18 R.Time:12.4(Scan#:2397)



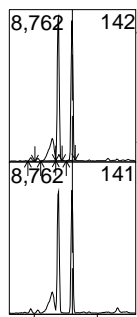
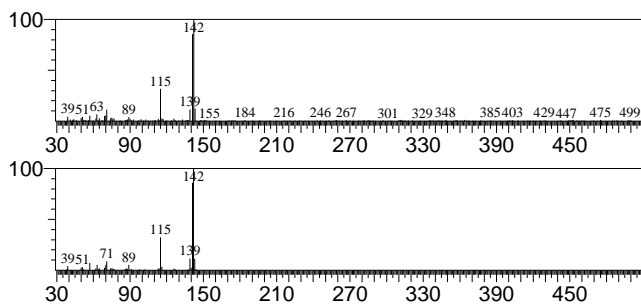
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.380
Area:18008
SI:88

Conc.:0.233ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	7303	84.17	83.64

ID#:19 R.Time:12.6(Scan#:2449)

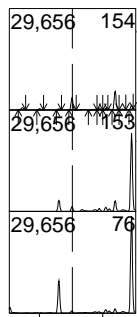
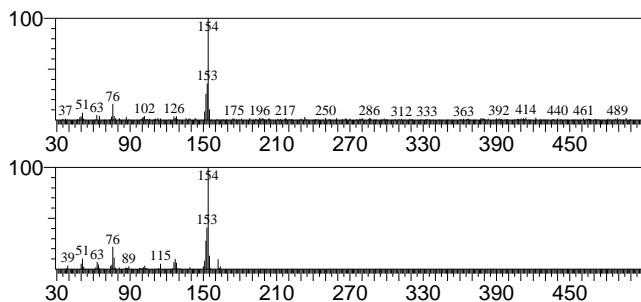


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.598
Area:17305
SI:97
Conc.:0.227ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	7495	87.63	87.02

ID#:20 R.Time:13.5(Scan#:2669)

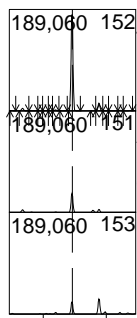
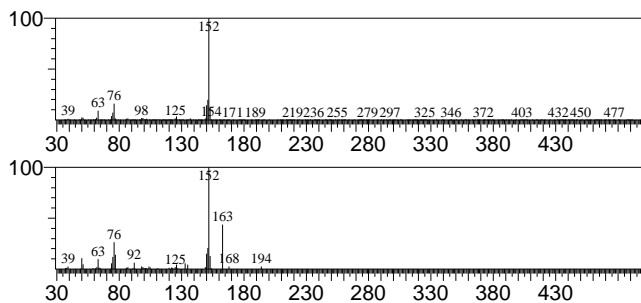


ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.515
Area:7542
SI:90
Conc.:0.081ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	1427	38.65	38.33
2	76	680	18.42	21.10

ID#:22 R.Time:14.5(Scan#:2895)

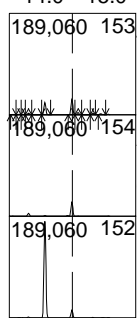
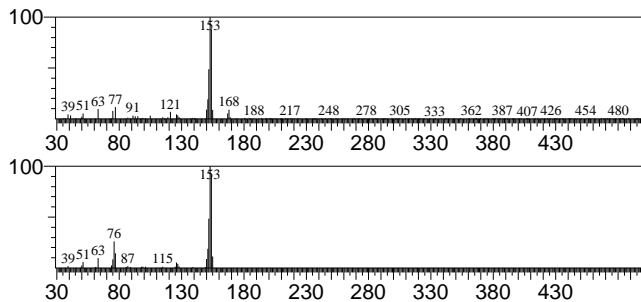


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.458
Area:390711
SI:83
Conc.:3.311ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	37264	19.62	19.84
2	153	23994	12.64	12.50

ID#:23 R.Time:14.9(Scan#:2997)

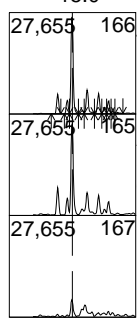
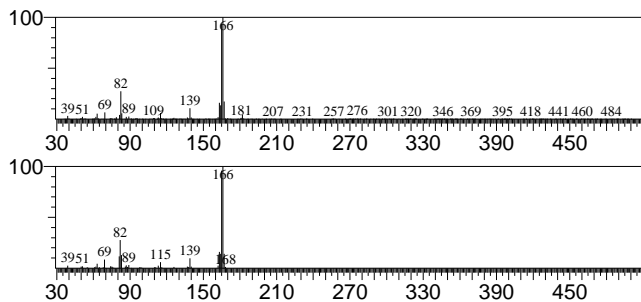


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.885
Area:60447
SI:94
Conc.:0.800ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	26756	90.27	94.93
2	152	14940	50.40	49.24

ID#:24 R.Time:16.1(Scan#:3281)

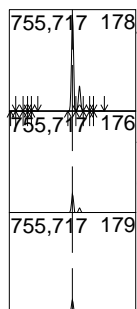
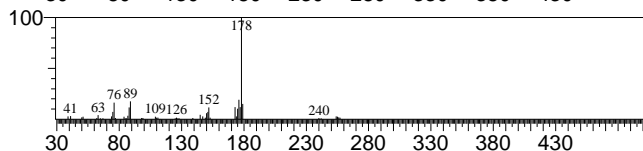
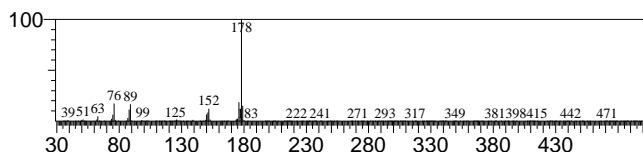


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.116
Area:66810
SI:96
Conc.:0.812ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	24991	91.78	91.21
2	167	4610	16.93	13.28

ID#:29 R.Time:18.4(Scan#:3785)

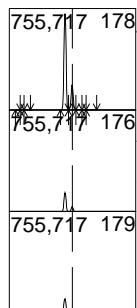
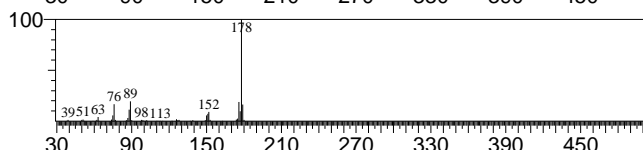
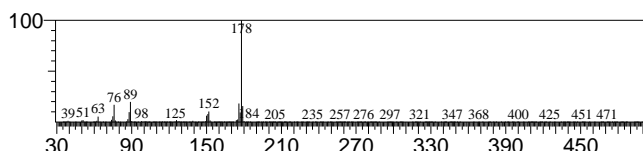


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.381
Area:1685801
SI:92
Conc.:13.819ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	146107	19.21	19.27
2	179	114152	15.01	14.18

ID#:30 R.Time:18.5(Scan#:3809)

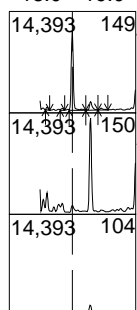
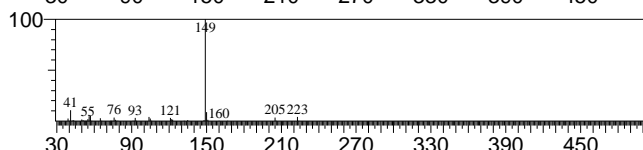
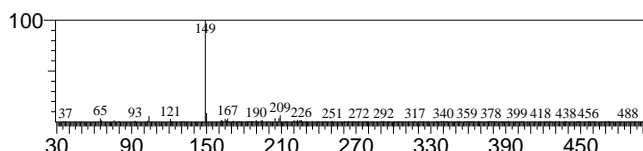


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.492
Area:446705
SI:98
Conc.:3.663ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	34796	18.40	18.61
2	179	29260	15.48	14.75

ID#:31 R.Time:20.0(Scan#:4155)

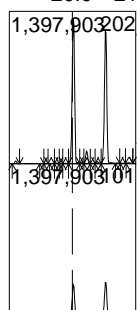
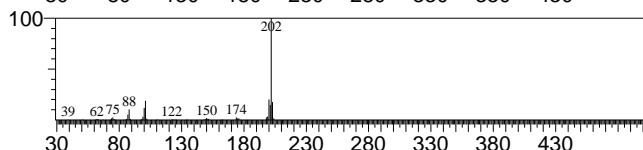
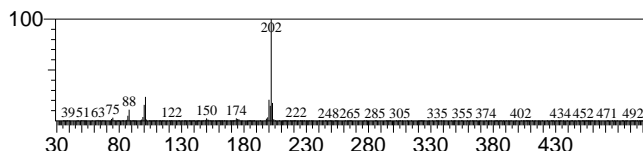


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.009
Area:26033
SI:84
Conc.:0.158ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	1010	8.71	8.88
2	104	576	4.97	4.02

ID#:32 R.Time:21.2(Scan#:4445)

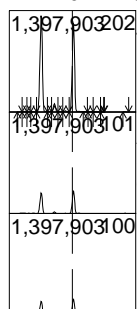
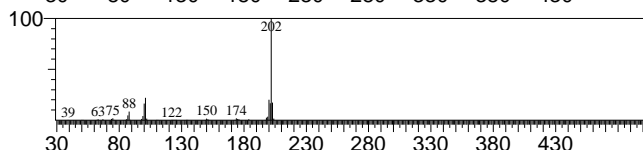
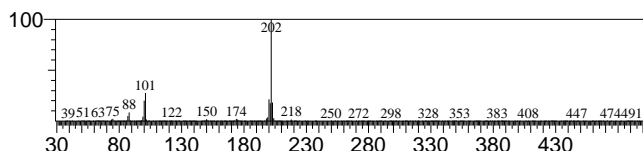


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.219
Area:3560336
SI:98
Conc.:25.148ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	272925	21.51	20.51

ID#:33 R.Time:21.7(Scan#:4567)

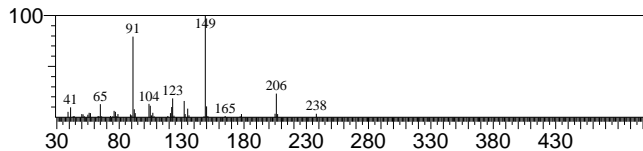
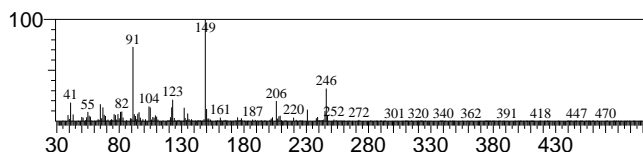


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.729
Area:3301082
SI:98
Conc.:21.272ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	295379	25.35	23.49
2	100	215455	18.49	16.96

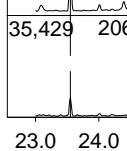
ID#:34 R.Time:23.6(Scan#:5005)



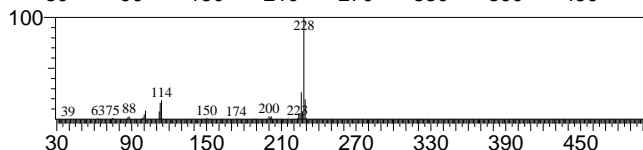
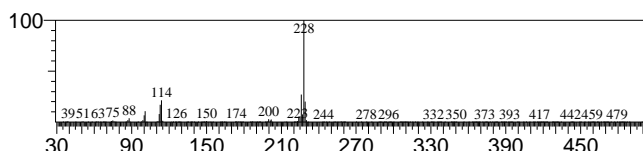
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.551
Area:74406
SI:95
Conc.:0.977ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	23804	70.09	69.36
2	206	6454	19.00	19.97



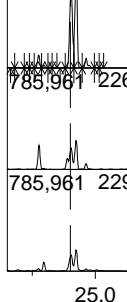
ID#:35 R.Time:24.6(Scan#:5261)



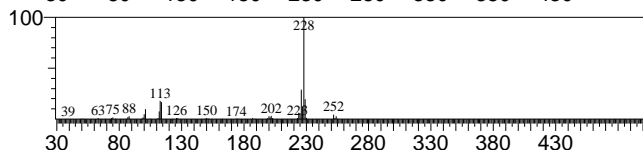
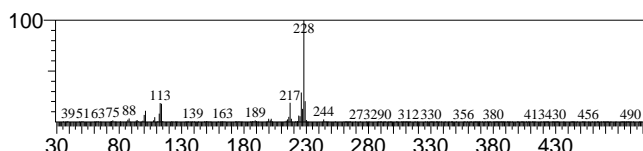
ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.616
Area:1958923
SI:98
Conc.:12.486ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	130201	26.33	26.21
2	229	98462	19.91	19.36



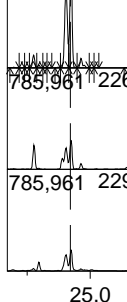
ID#:36 R.Time:24.7(Scan#:5279)



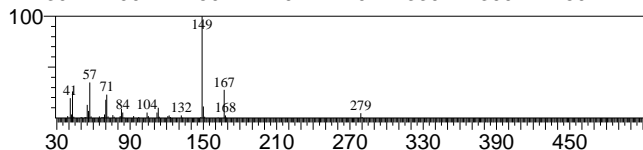
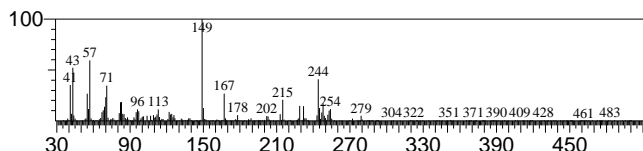
ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.696
Area:1941946
SI:97
Conc.:13.023ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	187507	29.65	29.42
2	229	136614	21.60	19.66



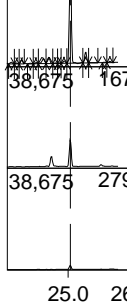
ID#:37 R.Time:25.0(Scan#:5361)



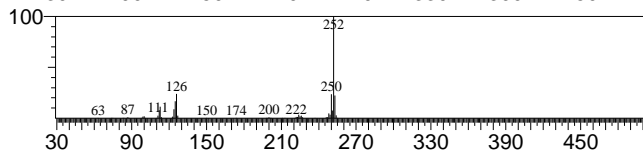
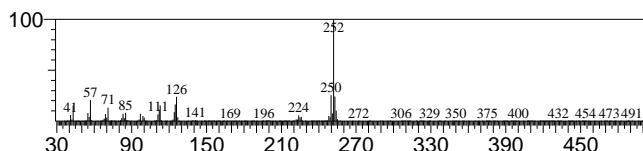
ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.036
Area:81670
SI:88
Conc.:0.736ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	10230	28.13	29.29
2	279	1527	4.20	4.16



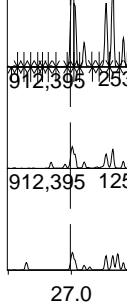
ID#:39 R.Time:27.0(Scan#:5837)



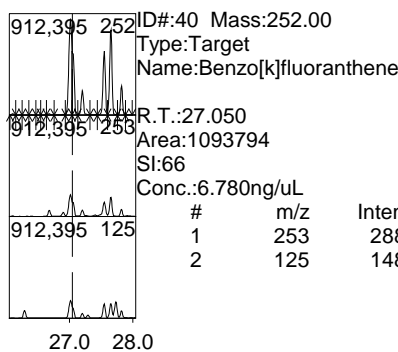
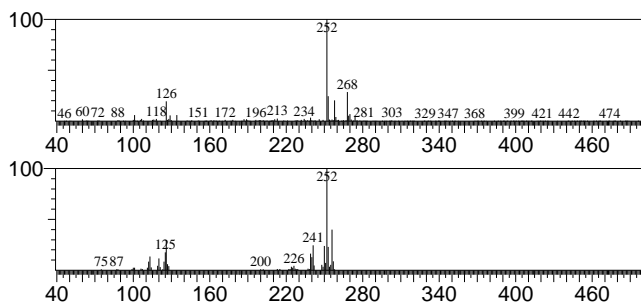
ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.016
Area:2868545
SI:95
Conc.:16.847ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	118580	22.65	20.50
2	125	93670	17.90	14.60



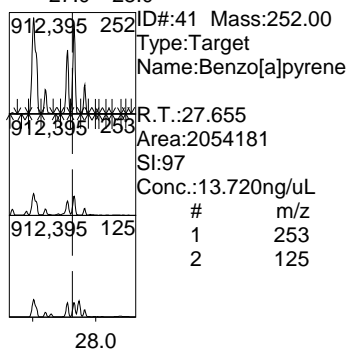
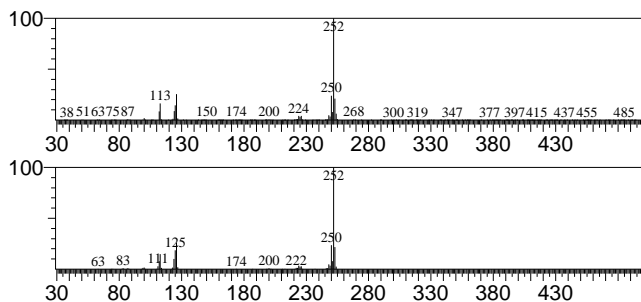
ID#:40 R.Time:27.1(Scan#:5845)



ID#:40 Mass:252.00
 Type:Target
 Name:Benzo[k]fluoranthene
 R.T.:27.050
 Area:1093794
 SI:66
 Conc.:6.780ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	28855	25.29	20.19
2	125	14821	12.99	14.03

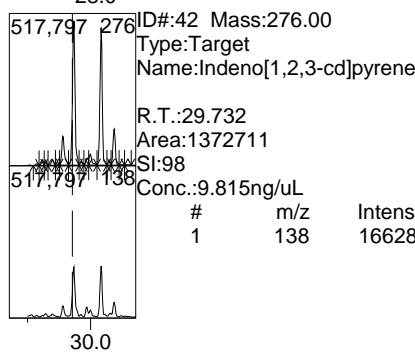
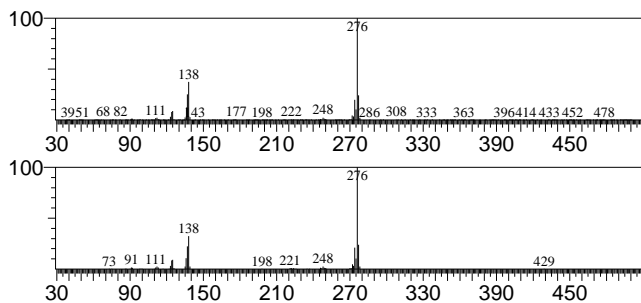
ID#:41 R.Time:27.7(Scan#:5991)



ID#:41 Mass:252.00
 Type:Target
 Name:Benzo[a]pyrene
 R.T.:27.655
 Area:2054181
 SI:97
 Conc.:13.720ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	168665	22.10	21.99
2	125	118998	15.60	17.18

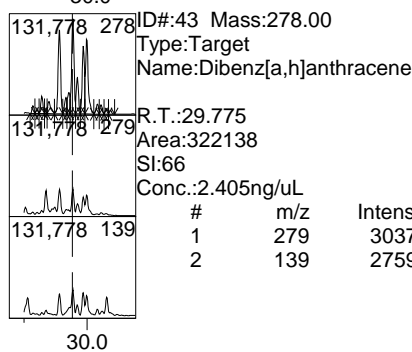
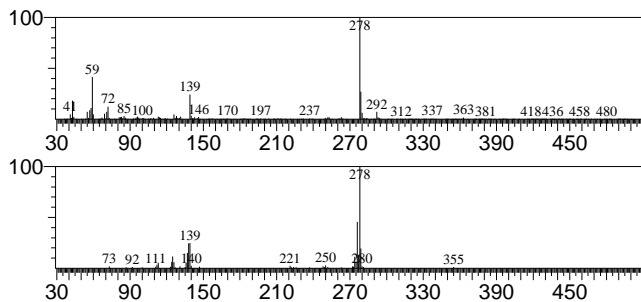
ID#:42 R.Time:29.7(Scan#:6489)



ID#:42 Mass:276.00
 Type:Target
 Name:Indeno[1,2,3-cd]pyrene
 R.T.:29.732
 Area:1372711
 SI:98
 Conc.:9.815ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	166280	34.12	32.23

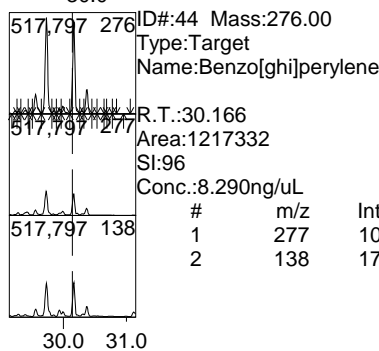
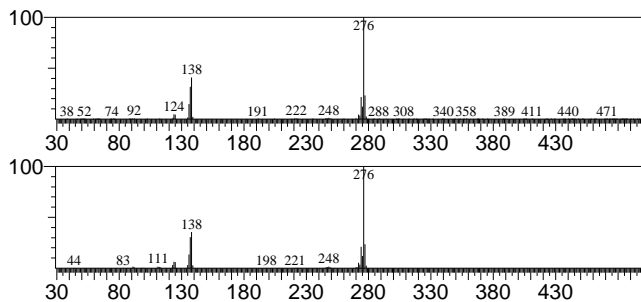
ID#:43 R.Time:29.8(Scan#:6499)



ID#:43 Mass:278.00
 Type:Target
 Name:Dibenz[a,h]anthracene
 R.T.:29.775
 Area:322138
 SI:66
 Conc.:2.405ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	30370	27.12	23.98
2	139	27595	24.64	28.79

ID#:44 R.Time:30.2(Scan#:6593)



ID#:44 Mass:276.00
 Type:Target
 Name:Benzo[ghi]perylene
 R.T.:30.166
 Area:1217332
 SI:96
 Conc.:8.290ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	106520	22.78	23.18
2	138	172610	36.91	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415847.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 5:13:04 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-10
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
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 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 32
 Injection Volume : 1

Internal Standard

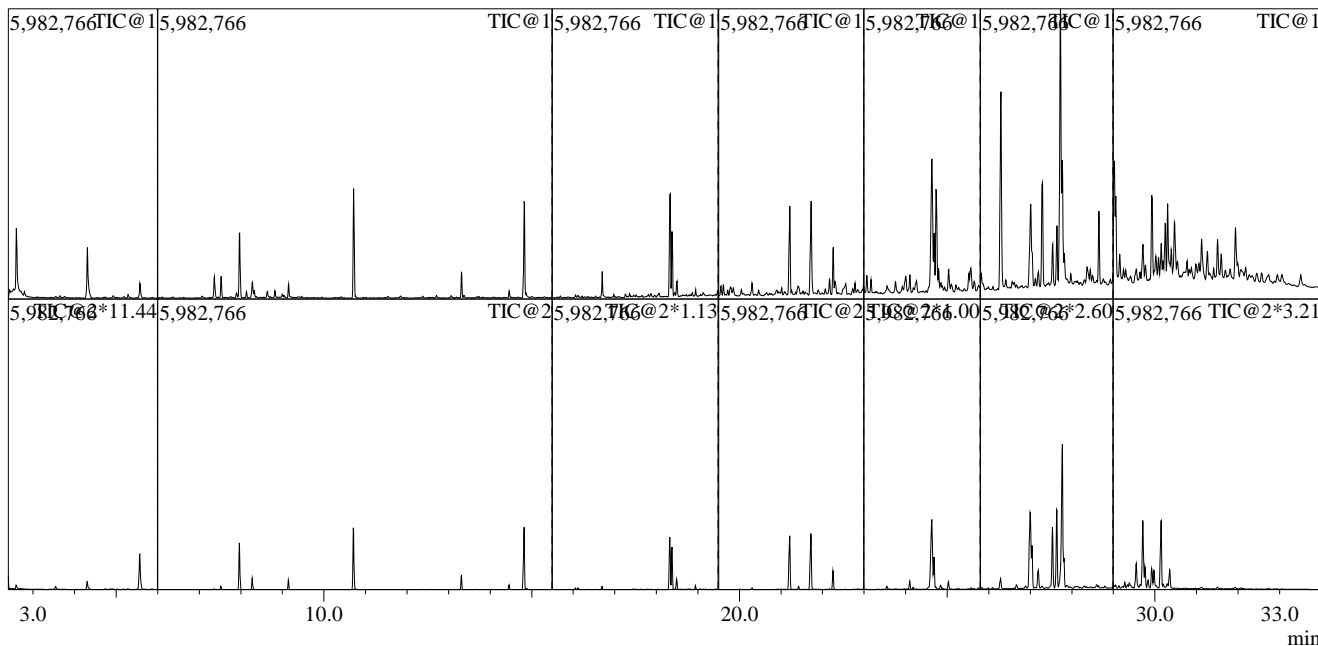
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	478595	20.0000	ng/uL	97.01
2	Naphthalene-D10	10.71	136	1912549	20.0000	ng/uL	97.08
3	Acenaphthene-D10	14.81	164	871121	20.0000	ng/uL	92.40
4	Phenanthrene-D10	18.32	188	1613794	20.0000	ng/uL	93.11
5	Chrysene-D12	24.63	240	2160186	20.0000	ng/uL	93.16
6	Perylene-D12	27.77	264	2035461	20.0000	ng/uL	86.99
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

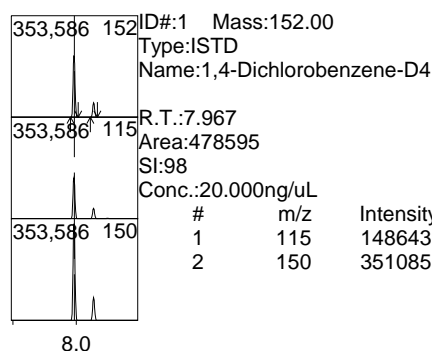
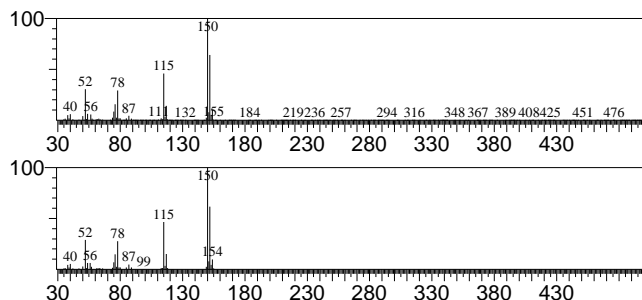
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	110496	4.41	ng/uL	176.2800
8	Nitrobenzene-D5 (Surr)	9.14	82	158620	4.85	ng/uL	193.8200
9	2-Fluorobiphenyl (Surr)	13.31	172	351864	4.78	ng/uL	191.1600
10	2,4,6-Tribromophenol (Surr)	16.69	330	21151	6.13	ng/uL	163.3900
11	Terphenyl-D14 (Surr)	22.25	244	628372	7.24	ng/uL	289.6100
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	27712	0.2423	ng/uL	95
18	2-Methylnaphthalene	12.38	142	6121	0.0827	ng/uL	71
19	1-Methylnaphthalene	12.60	142	4589	0.0629	ng/uL	92
20	Biphenyl	13.51	154	2576	0.0296	ng/uL	85
22	Acenaphthylene	14.46	152	115279	1.0451	ng/uL	83
23	Acenaphthene	14.88	153	14970	0.2119	ng/uL	91
24	Fluorene	16.11	166	24392	0.3173	ng/uL	95
29	Phenanthrene	18.38	178	869552	7.6519	ng/uL	90
30	Anthracene	18.49	178	221889	1.9535	ng/uL	98
31	Di-n-butylphthalate	20.01	149	20160	0.1310	ng/uL	93
32	Fluoranthene	21.21	202	1697042	12.8681	ng/uL	98
33	Pyrene	21.72	202	1809506	12.2324	ng/uL	98
34	Butylbenzylphthalate	23.55	149	62570	0.8623	ng/uL	97
35	Benz[a]anthracene	24.61	228	954690	6.3833	ng/uL	99
36	Chrysene	24.68	228	983888	6.9219	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	216543	2.0459	ng/uL	96
39	Benzo[b]fluoranthene	27.00	252	1348342	8.3665	ng/uL	98
40	Benzo[k]fluoranthene	27.03	252	459847	3.0117	ng/uL	67
41	Benzo[a]pyrene	27.64	252	1058496	7.4695	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.71	276	683248	5.1613	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	152226	1.2006	ng/uL	65
44	Benzo[ghi]perylene	30.15	276	642460	4.6222	ng/uL	96



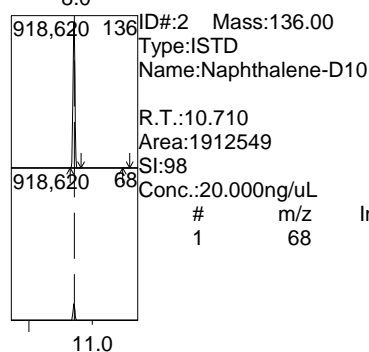
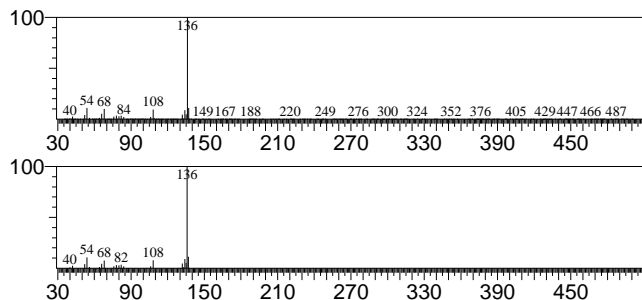
ID#1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:478595
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	148643	65.87	67.59
2	150	351085	155.57	156.27

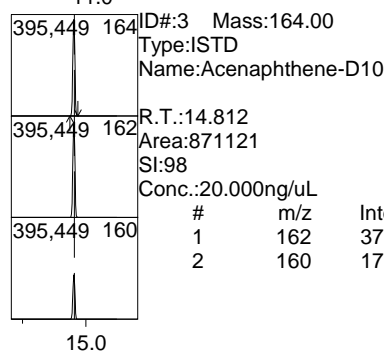
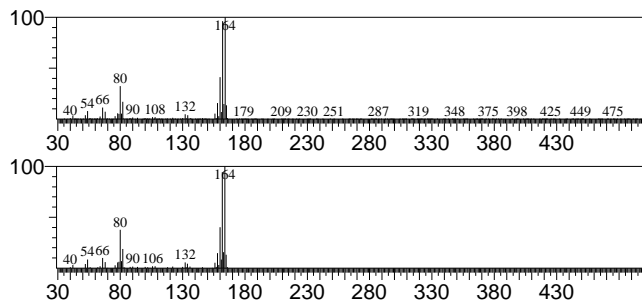
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.710
 Area:1912549
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	99953	10.89	10.57

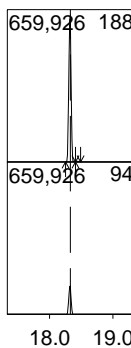
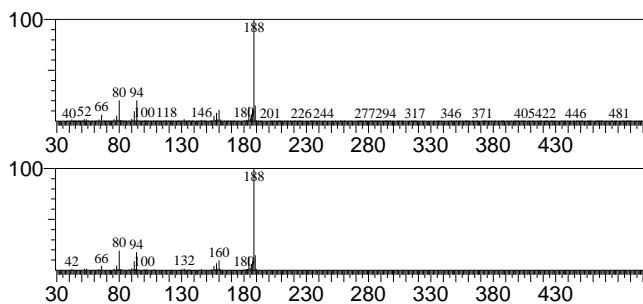
ID#3 R.Time:14.8(Scan#:2979)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.812
 Area:871121
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	372595	97.73	99.35
2	160	170338	44.68	45.34

ID#:4 R.Time:18.3(Scan#:3773)



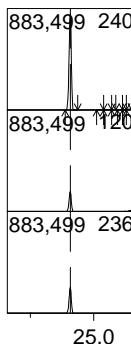
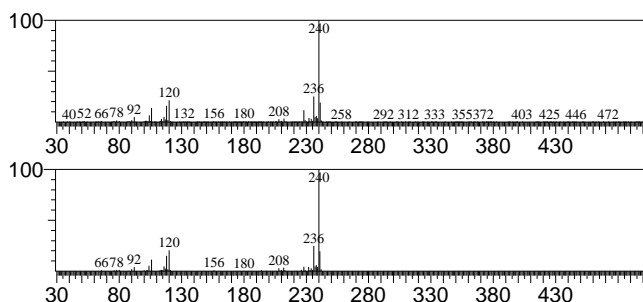
ID#:4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.322
Area:1613794
SI:98

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	125576	19.56	19.68

ID#:5 R.Time:24.6(Scan#:5265)



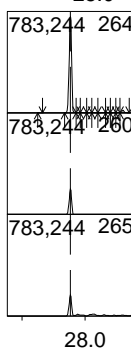
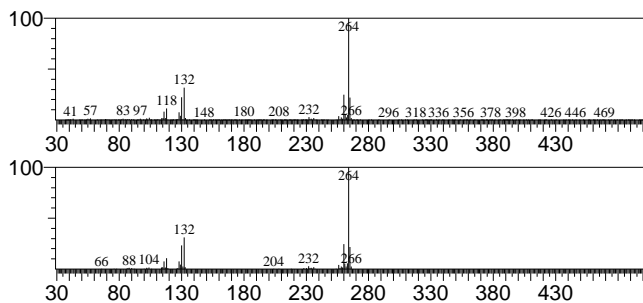
ID#:5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.631
Area:2160186
SI:98

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	174356	20.57	21.03
2	236	225901	26.65	27.55

ID#:6 R.Time:27.8(Scan#:6017)



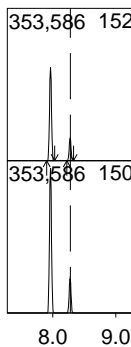
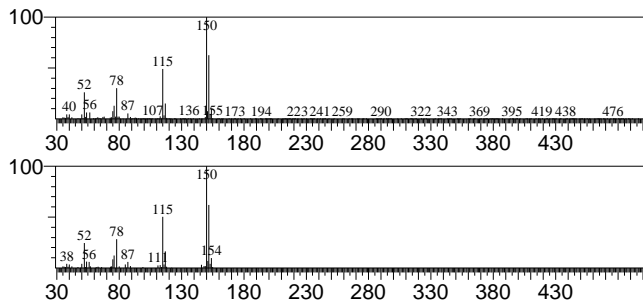
ID#:6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.769
Area:2035461
SI:99

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	186517	26.37	26.18
2	265	153190	21.66	21.61

ID#:7 R.Time:8.3(Scan#:1411)



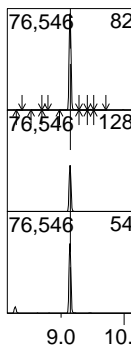
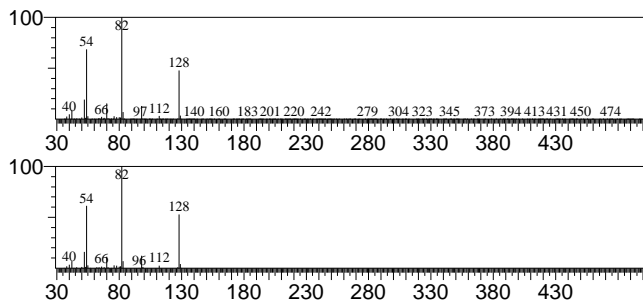
ID#:7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:110496
SI:97

Conc.:4.407ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	83166	156.56	155.04

ID#:8 R.Time:9.1(Scan#:1619)



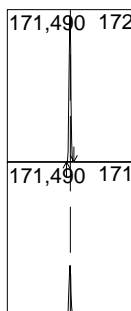
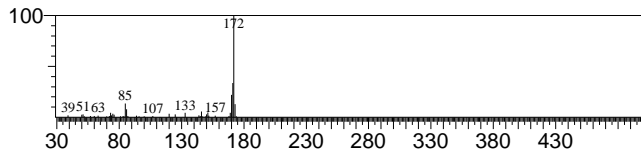
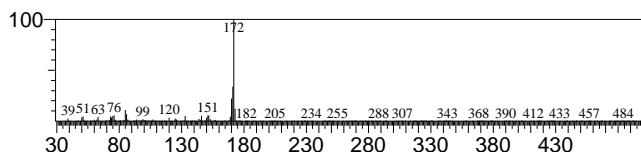
ID#:8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.144
Area:158620
SI:97

Conc.:4.846ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	37211	48.02	47.90
2	54	56145	72.45	69.01

ID#:9 R.Time:13.3(Scan#:2619)



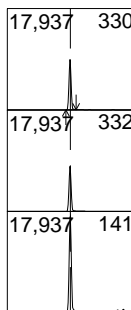
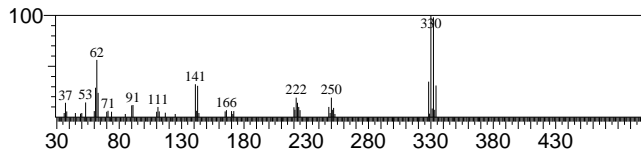
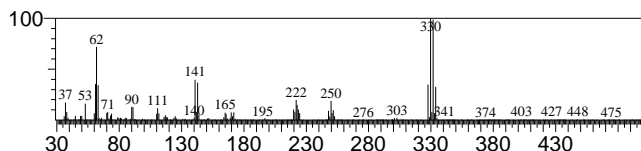
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:351864
SI:97

Conc.:4.779ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	58446	33.92	33.54

ID#:10 R.Time:16.7(Scan#:3409)



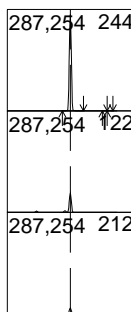
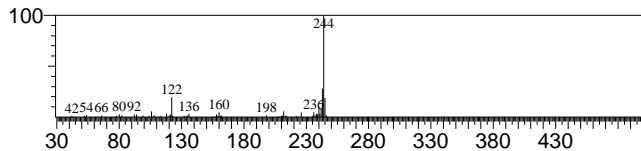
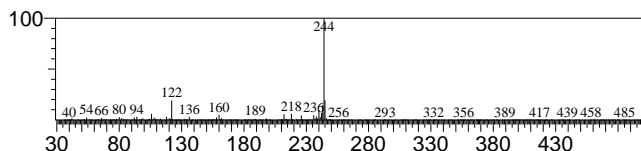
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.690
Area:21151
SI:97

Conc.:6.127ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	8414	88.56	88.80
2	141	17193	180.96	153.10

ID#:11 R.Time:22.3(Scan#:4693)



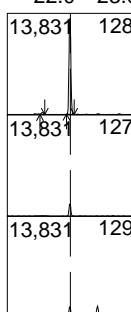
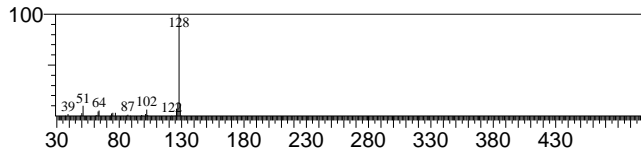
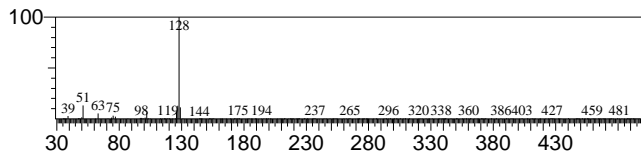
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.251
Area:628372
SI:97

Conc.:7.240ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	56334	20.05	20.49
2	212	17782	6.33	6.58

ID#:17 R.Time:10.8(Scan#:2007)



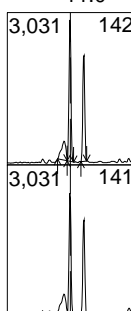
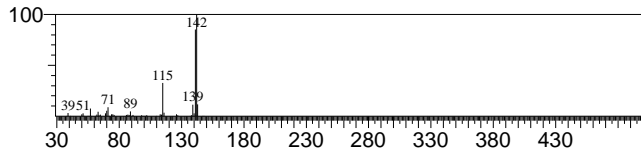
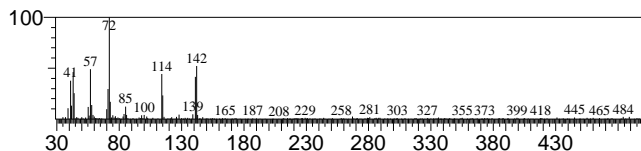
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.756
Area:27712
SI:95

Conc.:0.242ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	1740	12.50	12.65
2	129	1440	10.34	10.06

ID#:18 R.Time:12.4(Scan#:2395)



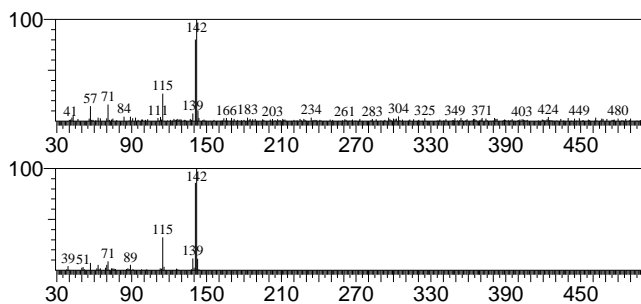
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.378
Area:6121
SI:71

Conc.:0.083ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	2505	84.83	83.64

ID#:19 R.Time:12.6(Scan#:2449)

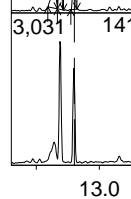


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

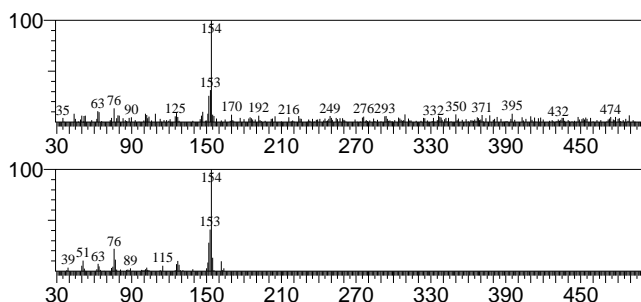
R.T.:12.596
Area:4589
SI:92

Conc.:0.063ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1966	88.44	87.02



ID#:20 R.Time:13.5(Scan#:2669)

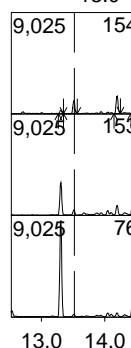


ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

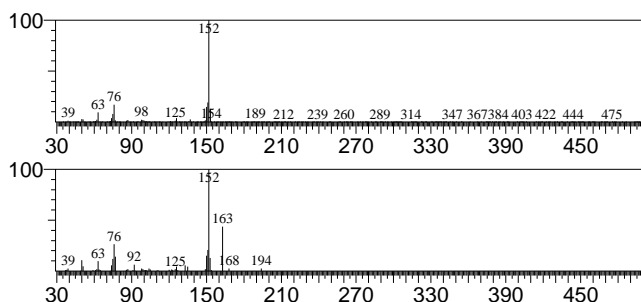
R.T.:13.513
Area:2576
SI:85

Conc.:0.030ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	486	40.20	38.33
2	76	209	17.29	21.10



ID#:22 R.Time:14.5(Scan#:2895)

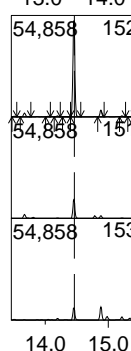


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

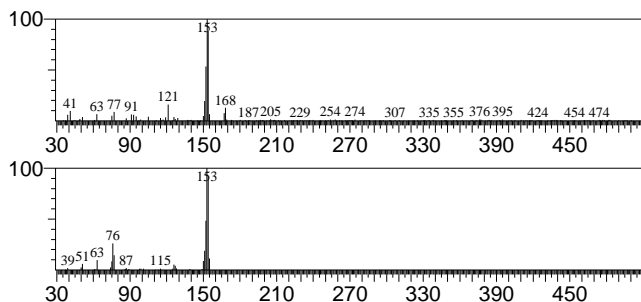
R.T.:14.456
Area:115279
SI:83

Conc.:1.045ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	10610	19.45	19.84
2	153	6924	12.69	12.50



ID#:23 R.Time:14.9(Scan#:2997)

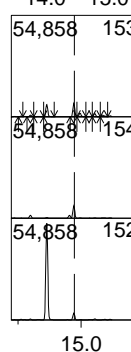


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

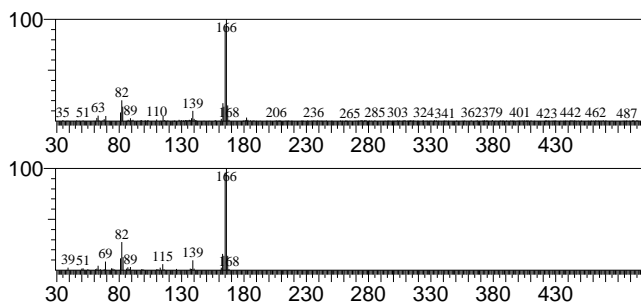
R.T.:14.883
Area:14970
SI:91

Conc.:0.212ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	6321	84.98	94.93
2	152	3792	50.98	49.24



ID#:24 R.Time:16.1(Scan#:3281)

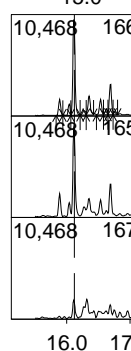


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

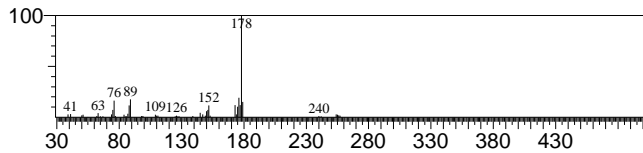
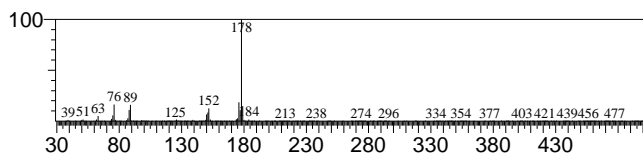
R.T.:16.114
Area:24392
SI:95

Conc.:0.317ng/uL

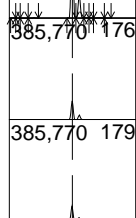
#	m/z	Intensity	Ratio	Setting
1	165	9453	90.97	91.21
2	167	1815	* 17.47	13.28



ID#:29 R.Time:18.4(Scan#:3783)



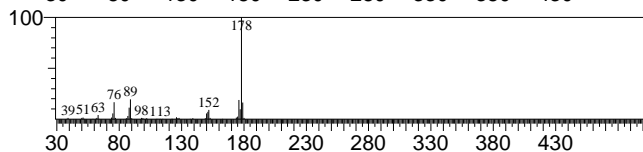
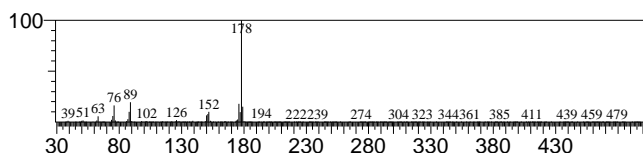
ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene



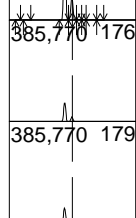
R.T.:18.375
Area:869552
SI:90
Conc.:7.652ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	73943	19.16	19.27
2	179	60905	15.78	14.18

ID#:30 R.Time:18.5(Scan#:3809)



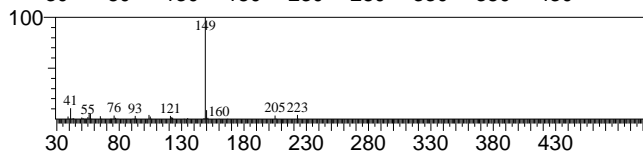
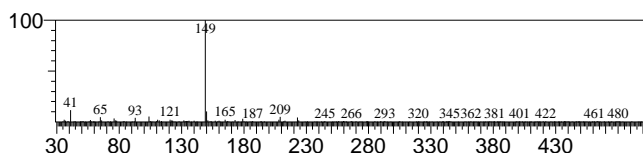
ID#:30 Mass:178.00
Type:Target
Name:Anthracene



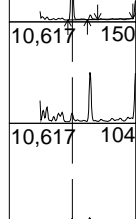
R.T.:18.489
Area:221889
SI:98
Conc.:1.953ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	17806	18.37	18.61
2	179	13846	14.29	14.75

ID#:31 R.Time:20.0(Scan#:4155)



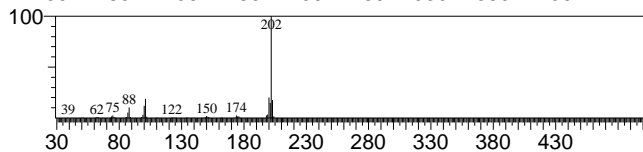
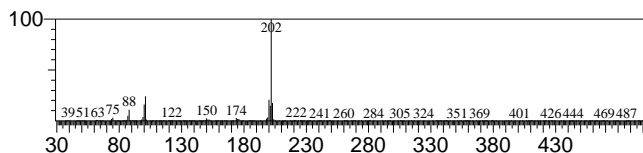
ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate



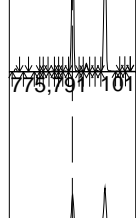
R.T.:20.006
Area:20160
SI:93
Conc.:0.131ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	886	8.61	8.88
2	104	497	4.83	4.02

ID#:32 R.Time:21.2(Scan#:4443)



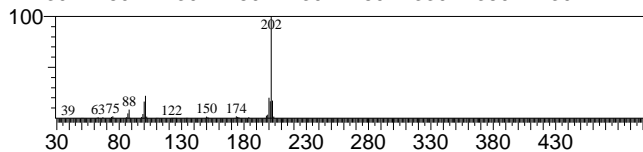
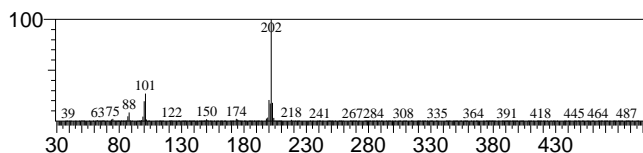
ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene



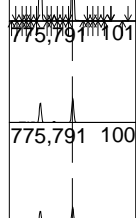
R.T.:21.205
Area:1697042
SI:98
Conc.:12.868ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	151422	20.85	20.51

ID#:33 R.Time:21.7(Scan#:4565)



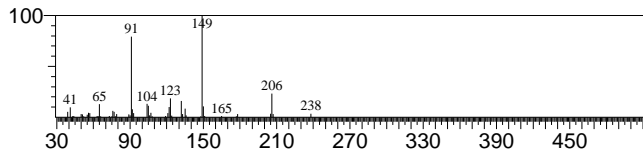
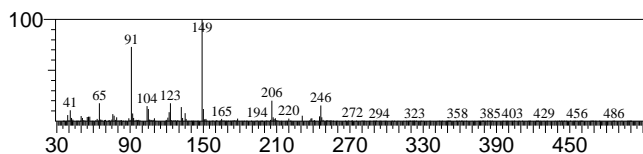
ID#:33 Mass:202.00
Type:Target
Name:Pyrene



R.T.:21.717
Area:1809506
SI:98
Conc.:12.232ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	186141	24.76	23.49
2	100	133470	17.75	16.96

ID#:34 R.Time:23.5(Scan#:5003)



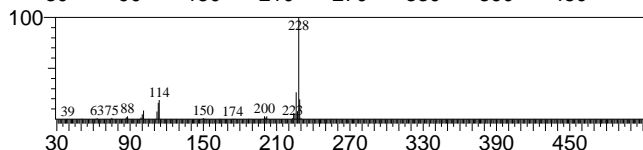
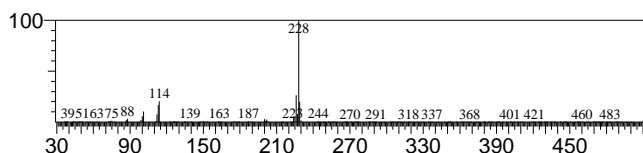
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.546
Area:62570
SI:97
Conc.:0.862ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	19560	69.94	69.36
2	206	5488	19.62	19.97

23.0 24.0

ID#:35 R.Time:24.6(Scan#:5259)



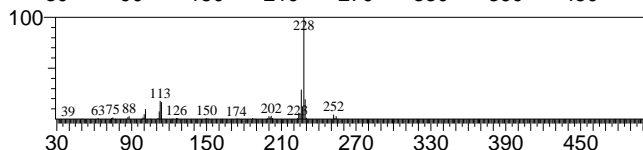
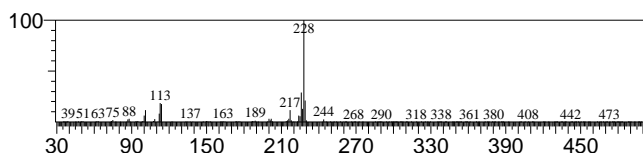
ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.605
Area:954690
SI:99
Conc.:6.383ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	76885	26.33	26.21
2	229	56877	19.48	19.36

25.0

ID#:36 R.Time:24.7(Scan#:5277)



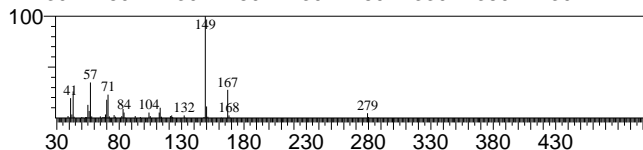
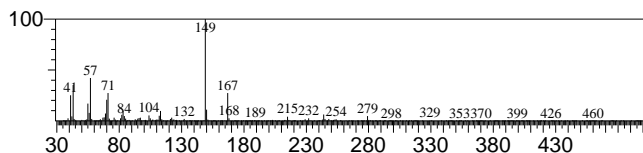
ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.682
Area:983888
SI:96
Conc.:6.922ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	114025	29.70	29.42
2	229	81292	21.18	19.66

25.0

ID#:37 R.Time:25.0(Scan#:5361)



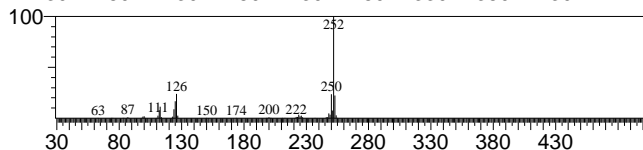
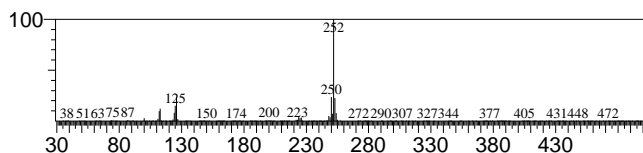
ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.032
Area:216543
SI:96
Conc.:2.046ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	27792	27.91	29.29
2	279	4026	4.04	4.16

25.0 26.0

ID#:39 R.Time:27.0(Scan#:5831)



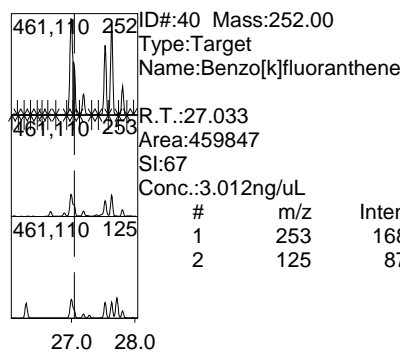
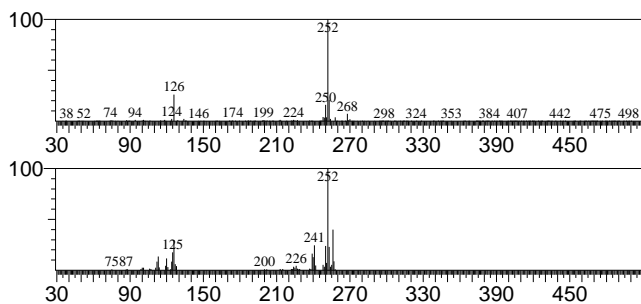
ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.996
Area:1348342
SI:98
Conc.:8.366ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	72484	22.62	20.50
2	125	55666	17.37	14.60

27.0

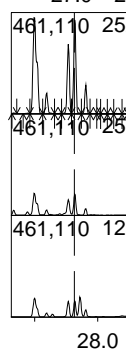
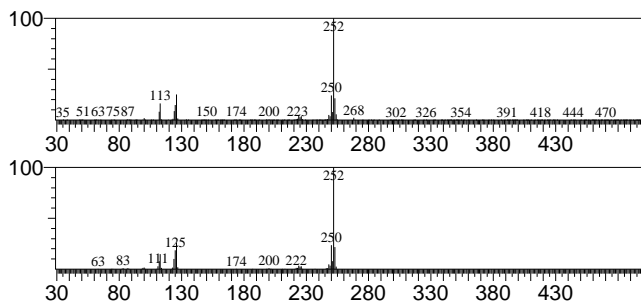
ID#:40 R.Time:27.0(Scan#:5841)



ID#:40 Mass:252.00
 Type:Target
 Name:Benzo[k]fluoranthene
 R.T.:27.033
 Area:459847
 SI:67
 Conc.:3.012ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	16801	23.54	20.19
2	125	8758	12.27	14.03

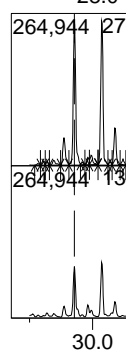
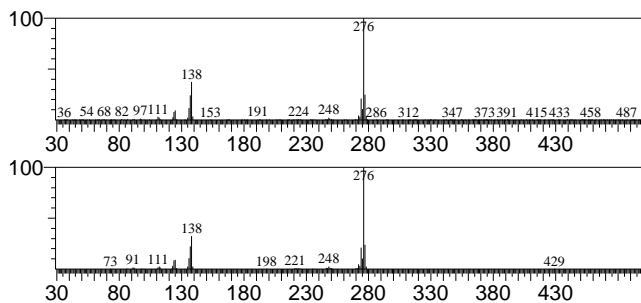
ID#:41 R.Time:27.6(Scan#:5985)



ID#:41 Mass:252.00
 Type:Target
 Name:Benzo[a]pyrene
 R.T.:27.636
 Area:1058496
 SI:97
 Conc.:7.469ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	94573	22.35	21.99
2	125	67184	15.88	17.18

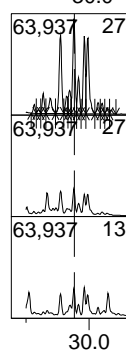
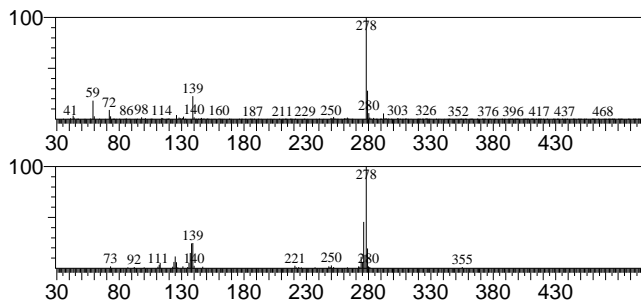
ID#:42 R.Time:29.7(Scan#:6483)



ID#:42 Mass:276.00
 Type:Target
 Name:Indeno[1,2,3-cd]pyrene
 R.T.:29.712
 Area:683248
 SI:97
 Conc.:5.161ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	85989	34.86	32.23

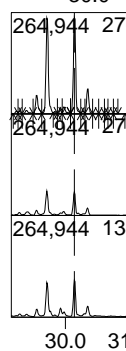
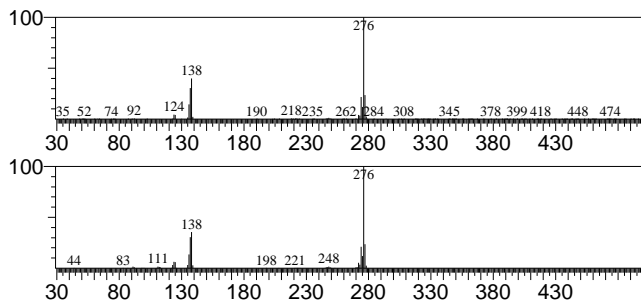
ID#:43 R.Time:29.8(Scan#:6495)



ID#:43 Mass:278.00
 Type:Target
 Name:Dibenz[a,h]anthracene
 R.T.:29.760
 Area:152226
 SI:65
 Conc.:1.201ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	15100	27.44	23.98
2	139	14178	25.76	28.79

ID#:44 R.Time:30.1(Scan#:6587)



ID#:44 Mass:276.00
 Type:Target
 Name:Benzo[ghi]perylene
 R.T.:30.145
 Area:642460
 SI:96
 Conc.:4.622ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	60799	24.47	23.18
2	138	93449	37.61	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415848.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 6:01:52 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-12
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 33
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	445318	20.0000	ng/uL	90.27
2	Naphthalene-D10	10.71	136	1777062	20.0000	ng/uL	90.20
3	Acenaphthene-D10	14.81	164	806684	20.0000	ng/uL	85.57
4	Phenanthrene-D10	18.32	188	1548225	20.0000	ng/uL	89.33
5	Chrysene-D12	24.63	240	2064367	20.0000	ng/uL	89.03
6	Perylene-D12	27.76	264	1956680	20.0000	ng/uL	83.63
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

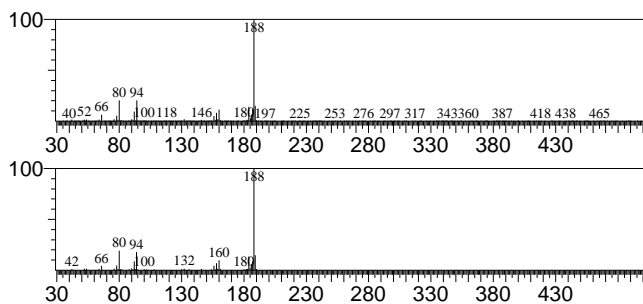
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	126892	5.44	ng/uL	217.5600
8	Nitrobenzene-D5 (Surr)	9.14	82	182435	6.00	ng/uL	239.9200
9	2-Fluorobiphenyl (Surr)	13.31	172	382807	5.61	ng/uL	224.5800
10	2,4,6-Tribromophenol (Surr)	16.69	330	25267	7.80	ng/uL	208.0300
11	Terphenyl-D14 (Surr)	22.25	244	603446	7.28	ng/uL	291.0300
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	21767	0.2048	ng/uL	91
18	2-Methylnaphthalene	12.38	142	4139	0.0602	ng/uL	72
19	1-Methylnaphthalene	12.60	142	2791	0.0412	ng/uL	91
22	Acenaphthylene	14.46	152	46159	0.4519	ng/uL	86
23	Acenaphthene	14.88	153	5014	0.0767	ng/uL	87
24	Fluorene	16.12	166	7977	0.1120	ng/uL	89
29	Phenanthrene	18.37	178	280079	2.5690	ng/uL	91
30	Anthracene	18.49	178	59115	0.5425	ng/uL	97
31	Di-n-butylphthalate	20.00	149	17710	0.1200	ng/uL	93
32	Fluoranthene	21.20	202	683349	5.4011	ng/uL	98
33	Pyrene	21.71	202	669611	4.7367	ng/uL	98
34	Butylbenzylphthalate	23.54	149	60477	0.8722	ng/uL	97
35	Benz[a]anthracene	24.60	228	333461	2.3331	ng/uL	98
36	Chrysene	24.67	228	358219	2.6371	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	58722	0.5805	ng/uL	94
39	Benzo[b]fluoranthene	26.98	252	558405	3.6044	ng/uL	98
40	Benzo[k]fluoranthene	27.02	252	166642	1.1353	ng/uL	74
41	Benzo[a]pyrene	27.62	252	396240	2.9087	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.70	276	280227	2.2021	ng/uL	98
43	Dibenz[a,h]anthracene	29.75	278	55014	0.4514	ng/uL	65
44	Benzo[ghi]perylene	30.13	276	258014	1.9310	ng/uL	97

ID#:4 R.Time:18.3(Scan#:3773)



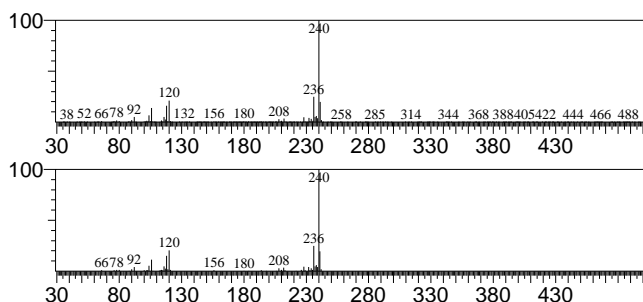
ID#:4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.322
Area:1548225
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	124073	19.54	19.68

18.0 19.0

ID#:5 R.Time:24.6(Scan#:5263)



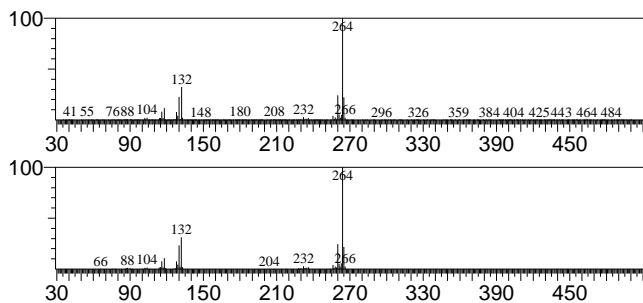
ID#:5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.625
Area:2064367
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	168438	20.54	21.03
2	236	216931	26.46	27.55

25.0

ID#:6 R.Time:27.8(Scan#:6015)



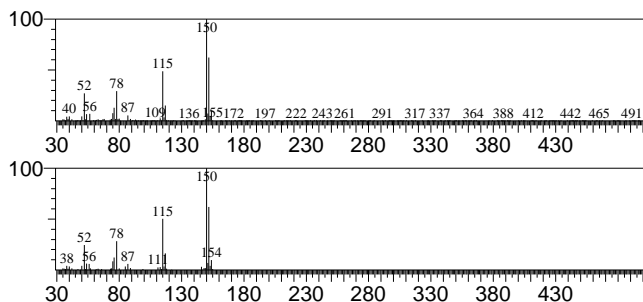
ID#:6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.762
Area:1956680
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	177358	26.38	26.18
2	265	147617	21.96	21.61

28.0

ID#:7 R.Time:8.3(Scan#:1411)



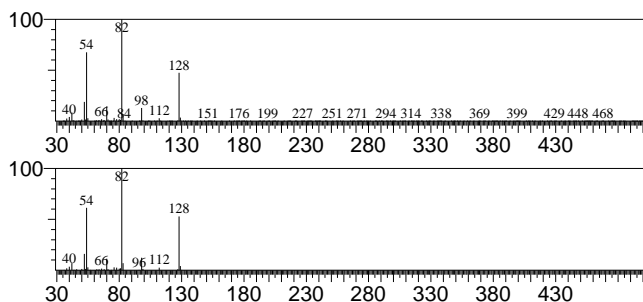
ID#:7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:126892
SI:97
Conc.:5.439ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	94697	157.43	155.04

8.0 9.0

ID#:8 R.Time:9.1(Scan#:1619)



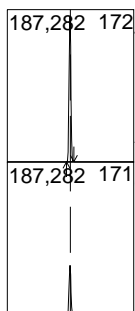
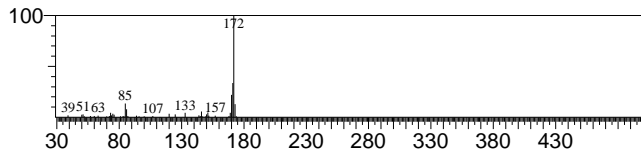
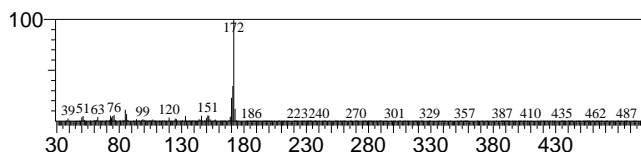
ID#:8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.145
Area:182435
SI:97
Conc.:5.998ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	42320	47.77	47.90
2	54	63540	71.73	69.01

9.0 10.0

ID#:9 R.Time:13.3(Scan#:2619)



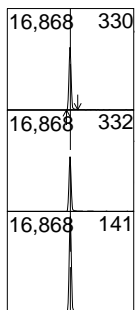
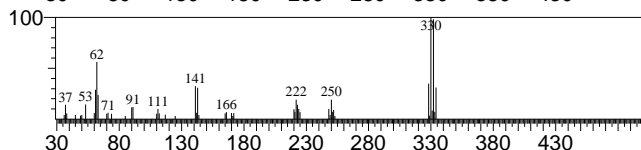
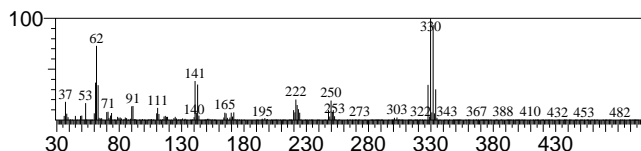
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:382807
SI:97

Conc.:5.615ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	63684	33.78	33.54

ID#:10 R.Time:16.7(Scan#:3409)



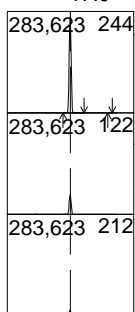
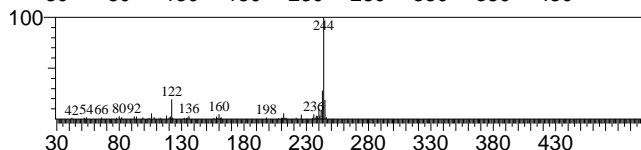
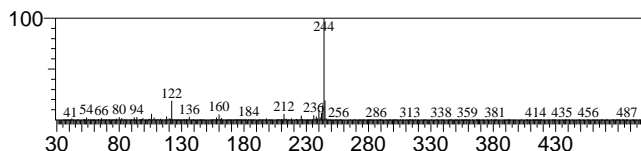
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.690
Area:25267
SI:97

Conc.:7.801ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	9625	87.26	88.80
2	141	16066	145.66	153.10

ID#:11 R.Time:22.3(Scan#:4693)



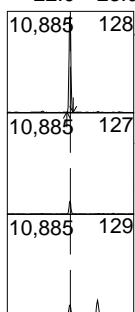
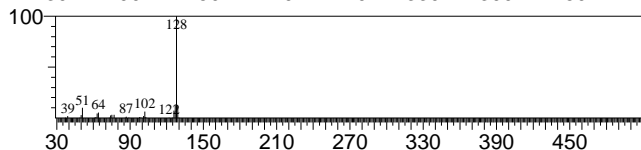
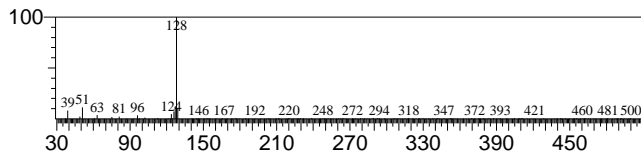
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.249
Area:603446
SI:97

Conc.:7.276ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	57457	20.34	20.49
2	212	17953	6.36	6.58

ID#:17 R.Time:10.8(Scan#:2007)



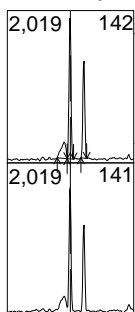
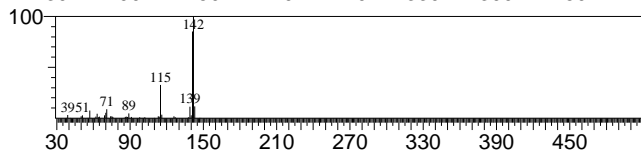
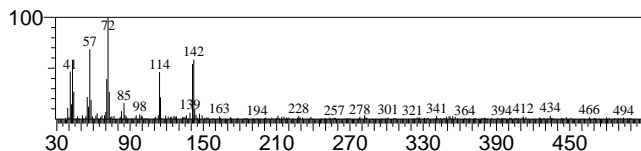
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:21767
SI:91

Conc.:0.205ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	1440	13.14	12.65
2	129	1123	10.25	10.06

ID#:18 R.Time:12.4(Scan#:2395)



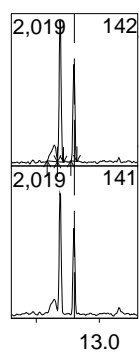
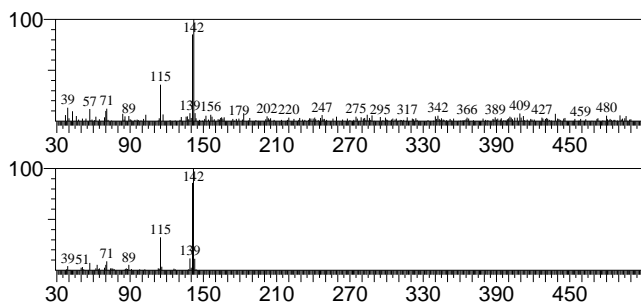
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.378
Area:4139
SI:72

Conc.:0.060ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1646	85.37	83.64

ID#:19 R.Time:12.6(Scan#:2449)

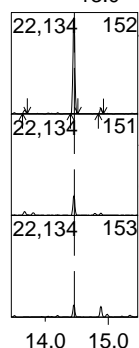
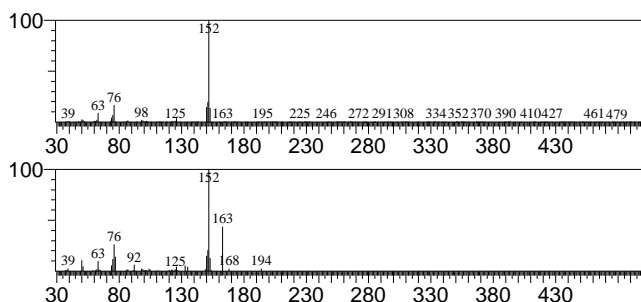


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.597
Area:2791
SI:91
Conc.:0.041ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1220	90.17	87.02

ID#:22 R.Time:14.5(Scan#:2895)

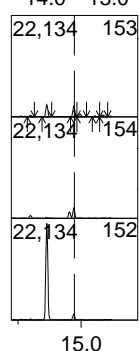
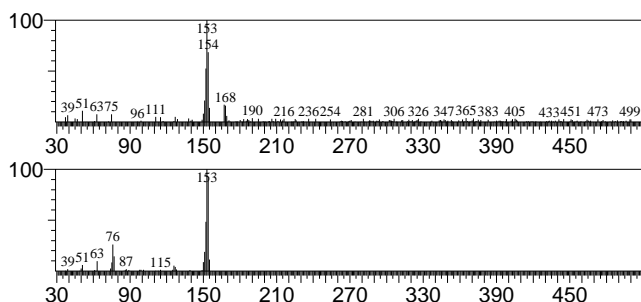


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.456
Area:46159
SI:86
Conc.:0.452ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	4381	20.00	19.84
2	153	2711	12.37	12.50

ID#:23 R.Time:14.9(Scan#:2997)

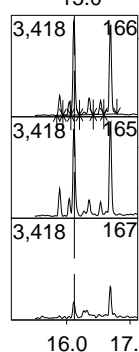
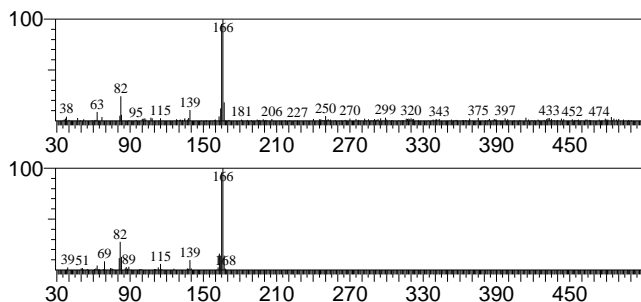


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.883
Area:5014
SI:87
Conc.:0.077ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	2127	87.42	94.93
2	152	1248	51.30	49.24

ID#:24 R.Time:16.1(Scan#:3281)

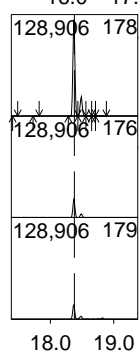
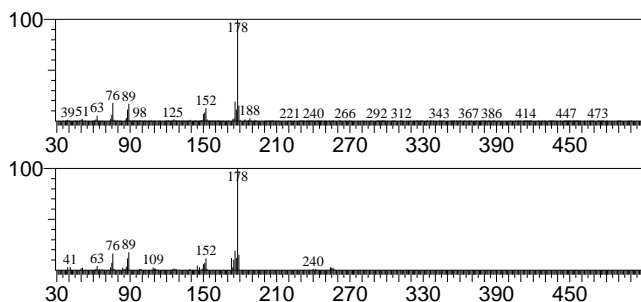


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.115
Area:7977
SI:89
Conc.:0.112ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	2988	92.68	91.21
2	167	546	16.93	13.28

ID#:29 R.Time:18.4(Scan#:3783)

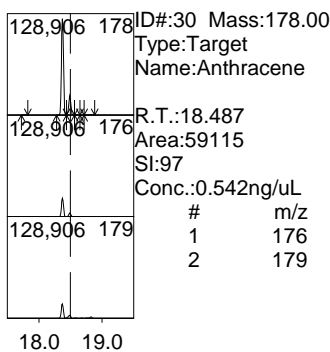
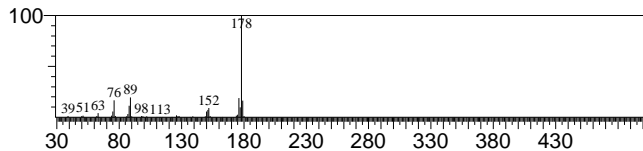
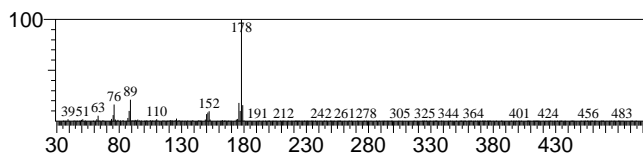


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.371
Area:280079
SI:91
Conc.:2.569ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	25047	19.08	19.27
2	179	19469	14.83	14.18

ID#:30 R.Time:18.5(Scan#:3809)

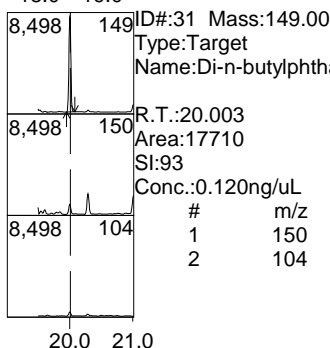
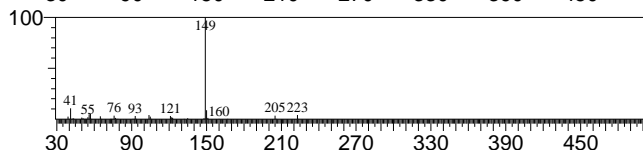
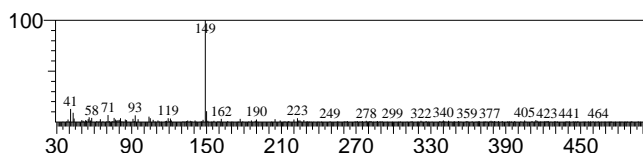


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.487
Area:59115
SI:97
Conc.:0.542ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	4779	18.75	18.61
2	179	3579	14.04	14.75

ID#:31 R.Time:20.0(Scan#:4153)

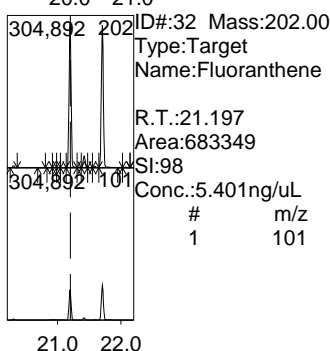
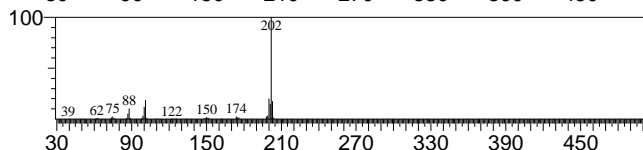
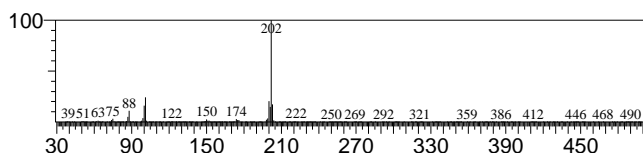


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.003
Area:17710
SI:93
Conc.:0.120ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	804	9.77	8.88
2	104	344	4.18	4.02

ID#:32 R.Time:21.2(Scan#:4441)

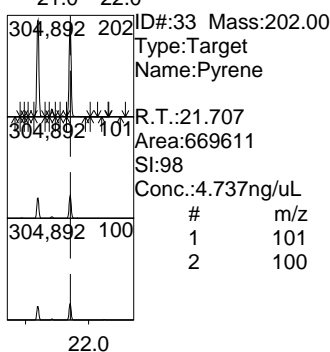
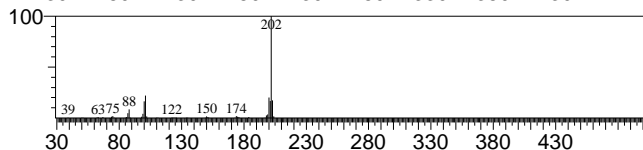
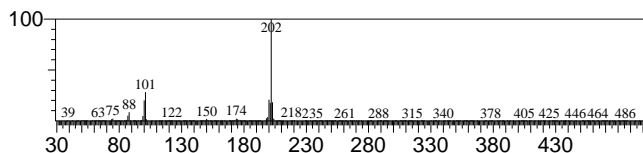


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.197
Area:683349
SI:98
Conc.:5.401ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	62170	20.94	20.51

ID#:33 R.Time:21.7(Scan#:4563)

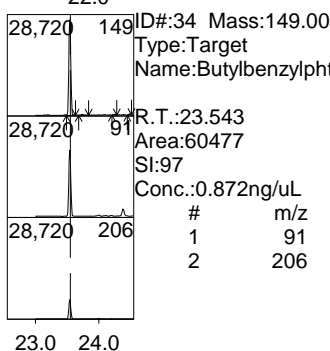
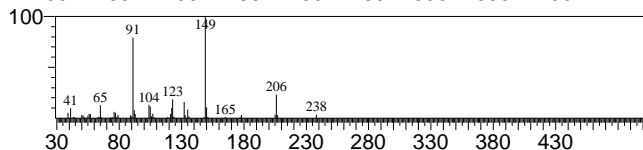
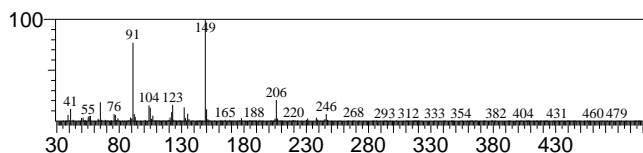


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.707
Area:669611
SI:98
Conc.:4.737ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	71310	24.24	23.49
2	100	51415	17.48	16.96

ID#:34 R.Time:23.5(Scan#:5003)

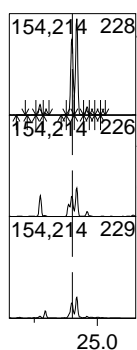
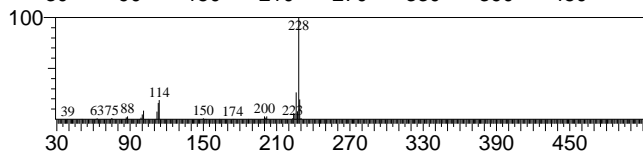
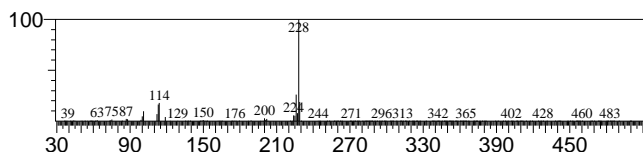


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.543
Area:60477
SI:97
Conc.:0.872ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	19484	69.05	69.36
2	206	5493	19.47	19.97

ID#:35 R.Time:24.6(Scan#:5257)

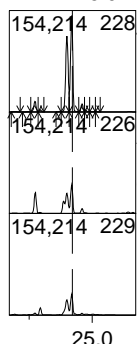
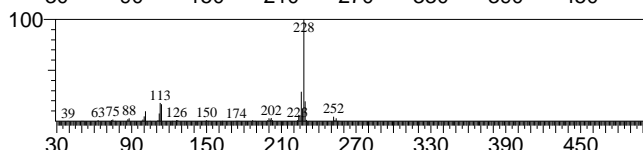
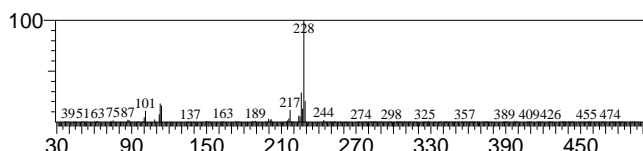


ID#:35 Mass:228.00
Type:Target
Name: Benz[a]anthracene

R.T.:24.598
Area:333461
SI:98
Conc.:2.333ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	27228	26.69	26.21
2	229	19841	19.45	19.36

ID#:36 R.Time:24.7(Scan#:5275)

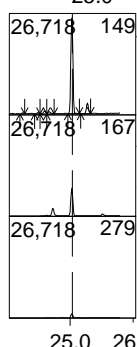
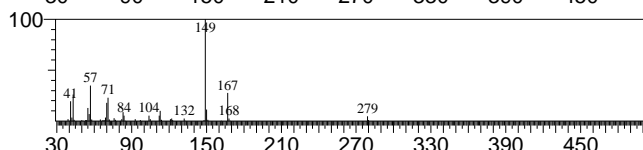
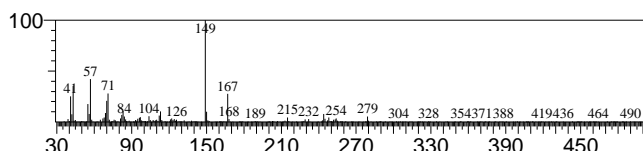


ID#:36 Mass:228.00
Type:Target
Name: Chrysene

R.T.:24.673
Area:358219
SI:96
Conc.:2.637ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	42575	29.54	29.42
2	229	30015	20.82	19.66

ID#:37 R.Time:25.0(Scan#:5359)

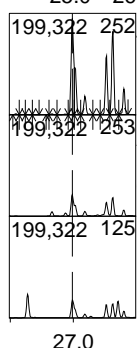
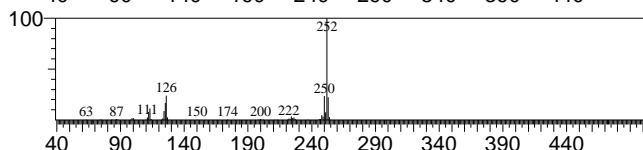
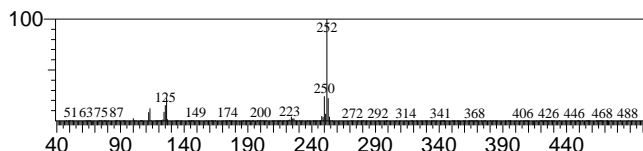


ID#:37 Mass:149.00
Type:Target
Name: Bis(2-ethylhexyl)phthalate

R.T.:25.029
Area:58722
SI:94
Conc.:0.581ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	7147	27.91	29.29
2	279	1037	4.05	4.16

ID#:39 R.Time:27.0(Scan#:5829)

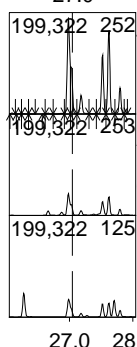
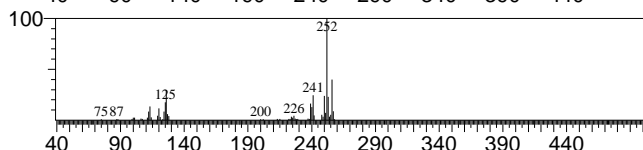
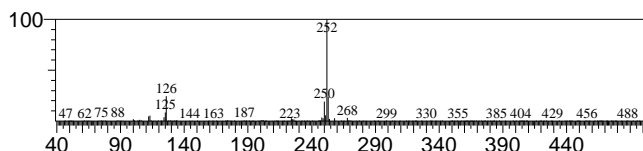


ID#:39 Mass:252.00
Type:Target
Name: Benzo[b]fluoranthene

R.T.:26.983
Area:558405
SI:98
Conc.:3.604ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	31743	21.96	20.50
2	125	23471	16.23	14.60

ID#:40 R.Time:27.0(Scan#:5839)

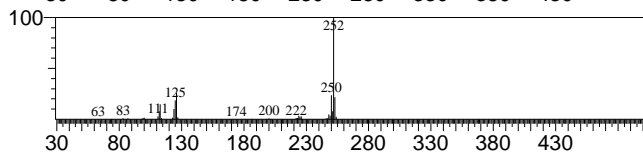
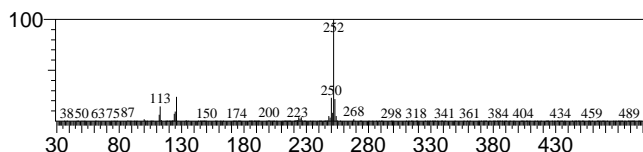


ID#:40 Mass:252.00
Type:Target
Name: Benzo[k]fluoranthene

R.T.:27.023
Area:166642
SI:74
Conc.:1.135ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	7413	22.32	20.19
2	125	3138	* 9.45	14.03

ID#:41 R.Time:27.6(Scan#:5983)

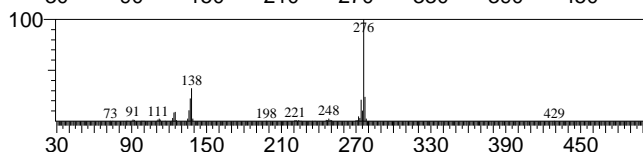
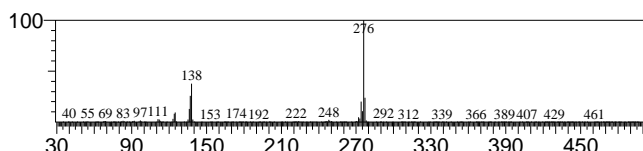


ID#41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.623
Area:396240
SI:96
Conc.:2.909ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	36151	21.95	21.99
2	125	18294	* 11.11	17.18

ID#:42 R.Time:29.7(Scan#:6481)

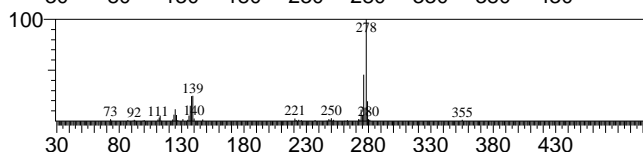
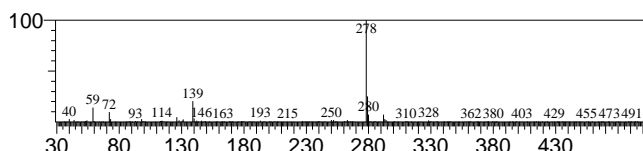


ID#42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.698
Area:280227
SI:98
Conc.:2.202ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	38236	34.11	32.23

ID#:43 R.Time:29.8(Scan#:6493)

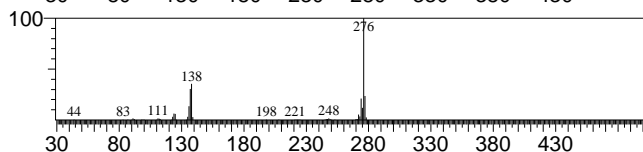
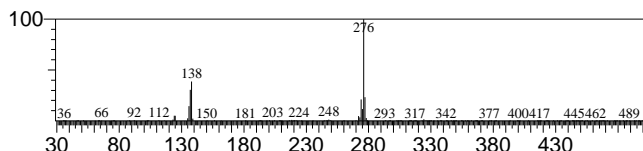


ID#43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.752
Area:55014
SI:65
Conc.:0.451ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	5597	27.40	23.98
2	139	5371	26.29	28.79

ID#:44 R.Time:30.1(Scan#:6583)



ID#44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.129
Area:258014
SI:97
Conc.:1.931ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	25250	24.52	23.18
2	138	38836	37.71	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415849.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP_030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 6:50:22 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-01
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 34
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	556851	20.0000	ng/uL	112.88
2	Naphthalene-D10	10.71	136	2169821	20.0000	ng/uL	110.14
3	Acenaphthene-D10	14.81	164	985073	20.0000	ng/uL	104.49
4	Phenanthrene-D10	18.32	188	1873867	20.0000	ng/uL	108.12
5	Chrysene-D12	24.64	240	2414494	20.0000	ng/uL	104.13
6	Perylene-D12	27.78	264	2269963	20.0000	ng/uL	97.02
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

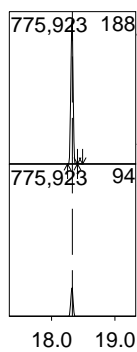
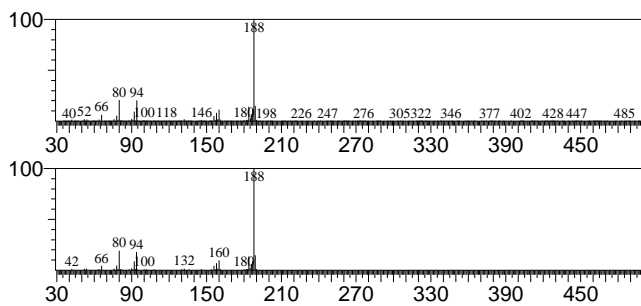
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	19446	0.67	ng/uL	26.6600
8	Nitrobenzene-D5 (Surr)	9.15	82	27216	0.73	ng/uL	29.3100
9	2-Fluorobiphenyl (Surr)	13.30	172	71548	0.86	ng/uL	34.3700
10	2,4,6-Tribromophenol (Surr)	16.69	330	6506	1.11	ng/uL	29.5400
11	Terphenyl-D14 (Surr)	22.25	244	148089	1.53	ng/uL	61.0600
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	39791	0.3066	ng/uL	93
18	2-Methylnaphthalene	12.38	142	22678	0.2701	ng/uL	89
19	1-Methylnaphthalene	12.60	142	19334	0.2337	ng/uL	95
20	Biphenyl	13.51	154	6311	0.0641	ng/uL	90
22	Acenaphthylene	14.46	152	465016	3.7281	ng/uL	82
23	Acenaphthene	14.88	153	13218	0.1655	ng/uL	90
24	Fluorene	16.12	166	24455	0.2813	ng/uL	94
29	Phenanthrene	18.37	178	490370	3.7163	ng/uL	91
30	Anthracene	18.49	178	522200	3.9593	ng/uL	98
31	Di-n-butylphthalate	20.00	149	26643	0.1491	ng/uL	90
32	Fluoranthene	21.21	202	1858831	12.1387	ng/uL	98
33	Pyrene	21.72	202	1767070	10.6873	ng/uL	98
34	Butylbenzylphthalate	23.55	149	67863	0.8368	ng/uL	97
35	Benz[a]anthracene	24.61	228	1412301	8.4484	ng/uL	98
36	Chrysene	24.69	228	1373766	8.6468	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	95772	0.8095	ng/uL	96
39	Benzo[b]fluoranthene	27.01	252	2377036	13.2258	ng/uL	97
40	Benzo[k]fluoranthene	27.05	252	599536	3.5209	ng/uL	83
41	Benzo[a]pyrene	27.64	252	1301053	8.2326	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.72	276	885928	6.0010	ng/uL	98
43	Dibenz[a,h]anthracene	29.76	278	225090	1.5919	ng/uL	68
44	Benzo[ghi]perylene	30.15	276	683610	4.4102	ng/uL	97

ID#:4 R.Time:18.3(Scan#:3773)

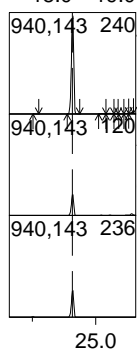
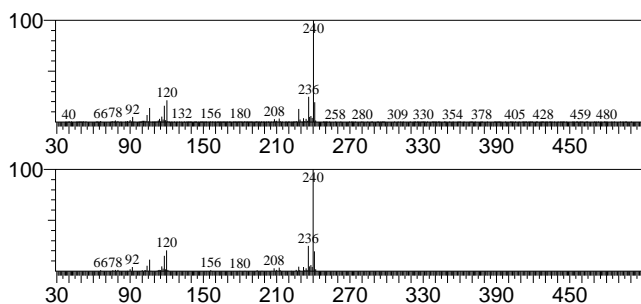


ID#:4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.323
Area:1873867
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	150345	19.75	19.68

ID#:5 R.Time:24.6(Scan#:5267)

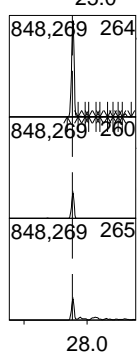
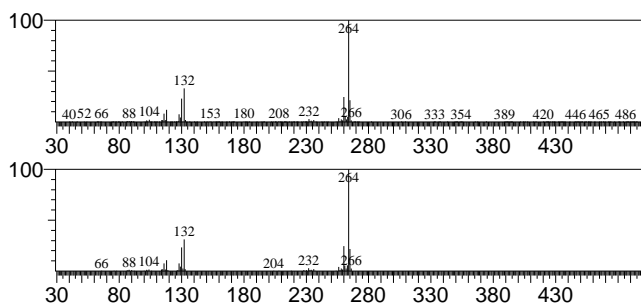


ID#:5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.638
Area:2414494
SI:97

#	m/z	Intensity	Ratio	Setting
1	120	192372	21.28	21.03
2	236	245655	27.17	27.55

ID#:6 R.Time:27.8(Scan#:6019)

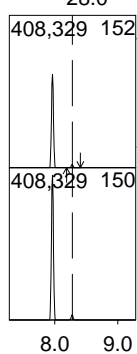
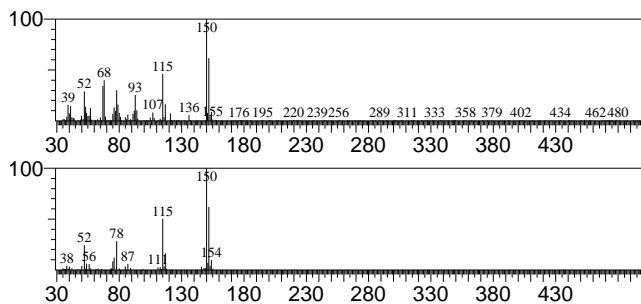


ID#:6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.777
Area:2269963
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	202262	26.42	26.18
2	265	163773	21.40	21.61

ID#:7 R.Time:8.3(Scan#:1411)

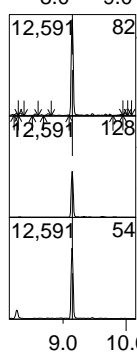
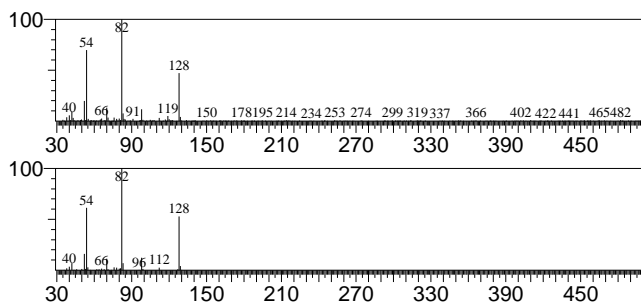


ID#:7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:19446
SI:94

#	m/z	Intensity	Ratio	Setting
1	150	14459	158.38	155.04

ID#:8 R.Time:9.1(Scan#:1619)

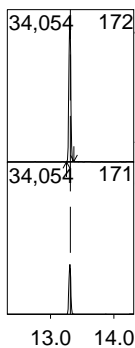
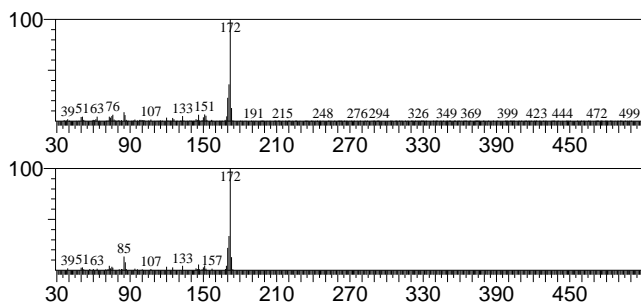


ID#:8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:27216
SI:96

#	m/z	Intensity	Ratio	Setting
1	128	5912	47.69	47.90
2	54	9195	74.17	69.01

ID#:9 R.Time:13.3(Scan#:2617)



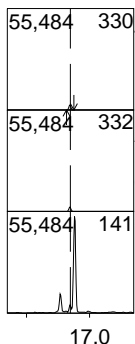
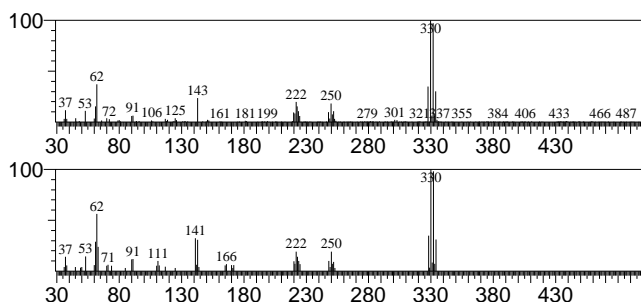
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.304
Area:71548
SI:96

Conc.:0.859ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	11493	34.02	33.54

ID#:10 R.Time:16.7(Scan#:3409)



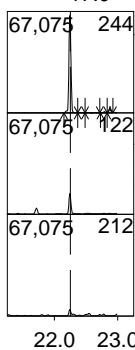
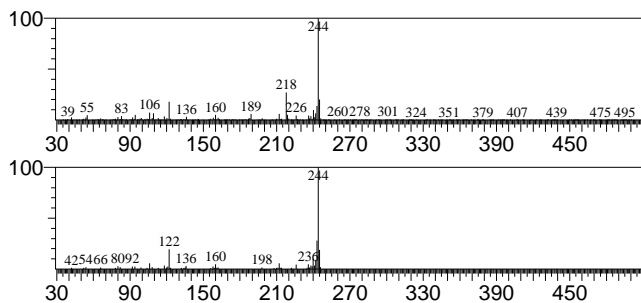
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.688
Area:6506
SI:86

Conc.:1.108ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	2615	87.78	88.80
2	141	0	* 0.00	153.10

ID#:11 R.Time:22.2(Scan#:4691)



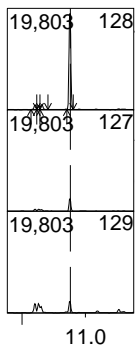
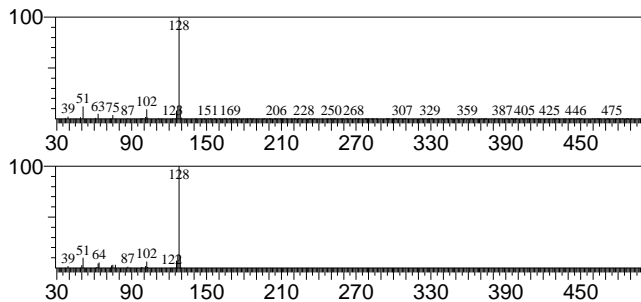
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.245
Area:148089
SI:96

Conc.:1.527ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	13563	20.68	20.49
2	212	4225	6.44	6.58

ID#:17 R.Time:10.8(Scan#:2007)



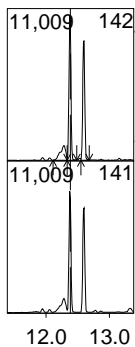
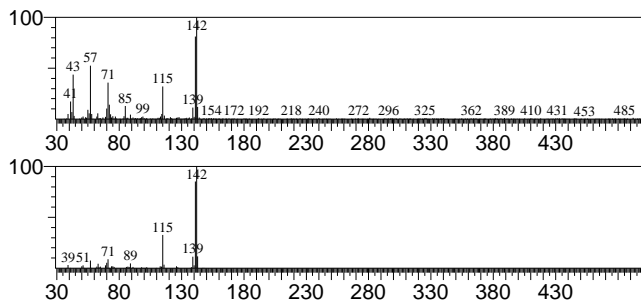
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.756
Area:39791
SI:93

Conc.:0.307ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	2567	12.84	12.65
2	129	2182	10.92	10.06

ID#:18 R.Time:12.4(Scan#:2395)



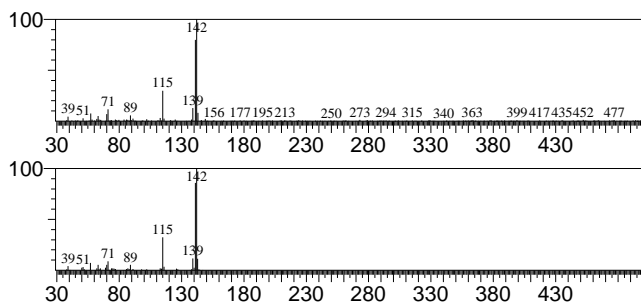
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.377
Area:22678
SI:89

Conc.:0.270ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	9184	83.64	83.64

ID#:19 R.Time:12.6(Scan#:2447)

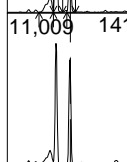


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

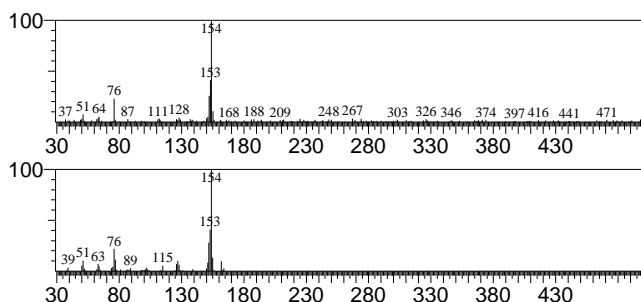
R.T.:12.596
Area:19334
SI:95

Conc.:0.234ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	7737	86.74	87.02



ID#:20 R.Time:13.5(Scan#:2669)

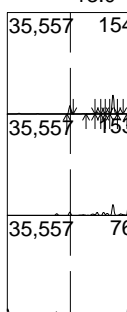


ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

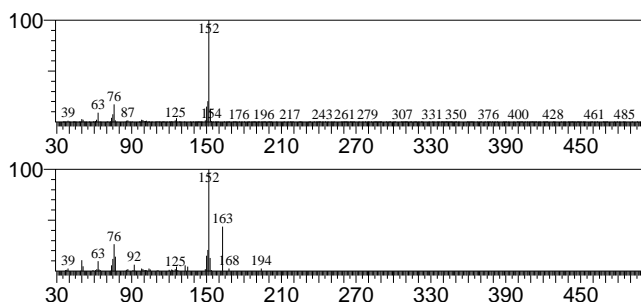
R.T.:13.513
Area:6311
SI:90

Conc.:0.064ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	1114	37.15	38.33
2	76	517	17.24	21.10



ID#:22 R.Time:14.5(Scan#:2895)

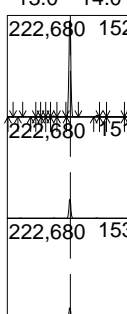


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

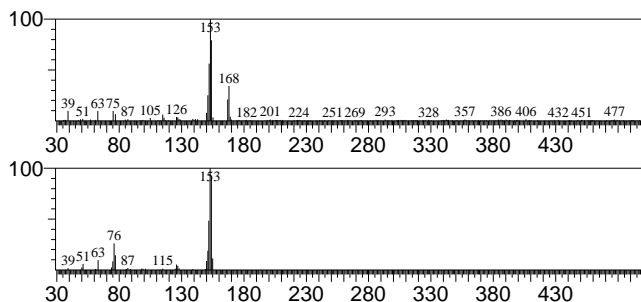
R.T.:14.456
Area:465016
SI:82

Conc.:3.728ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	43794	19.68	19.84
2	153	28038	12.60	12.50



ID#:23 R.Time:14.9(Scan#:2997)

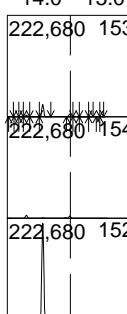


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

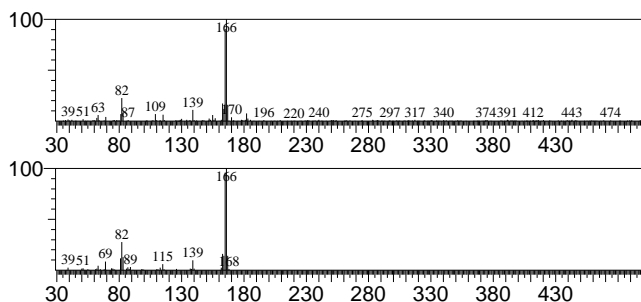
R.T.:14.882
Area:13218
SI:90

Conc.:0.165ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	5536	84.95	94.93
2	152	3556	54.56	49.24



ID#:24 R.Time:16.1(Scan#:3281)

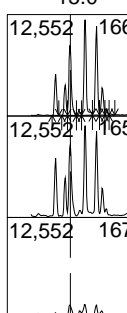


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

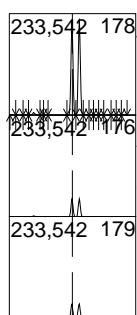
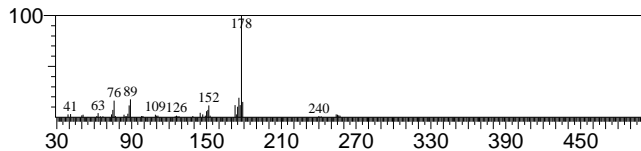
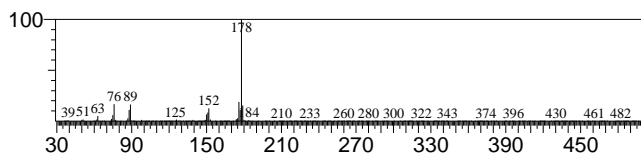
R.T.:16.116
Area:24455
SI:94

Conc.:0.281ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	8290	95.72	91.21
2	167	1462	16.88	13.28



ID#:29 R.Time:18.4(Scan#:3783)

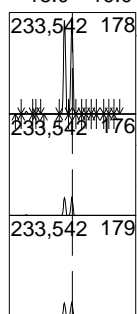
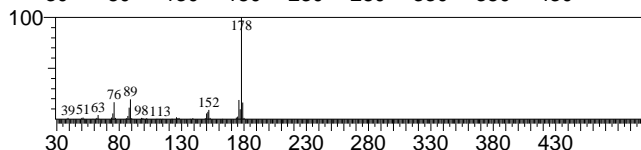
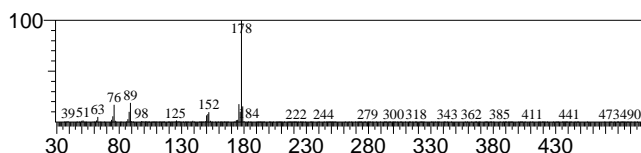


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.372
Area:490370
SI:91
Conc.:3.716ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	44079	19.11	19.27
2	179	34172	14.82	14.18

ID#:30 R.Time:18.5(Scan#:3809)

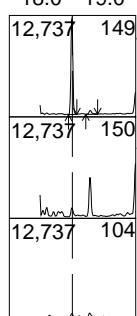
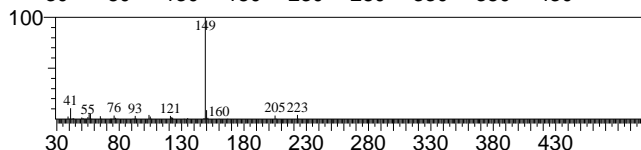
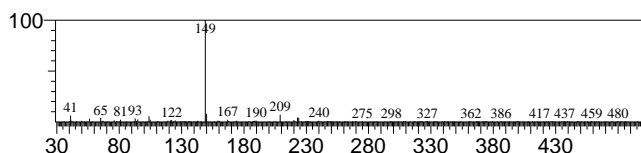


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.489
Area:522200
SI:98
Conc.:3.959ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	43323	18.49	18.61
2	179	34486	14.72	14.75

ID#:31 R.Time:20.0(Scan#:4153)

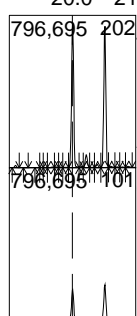
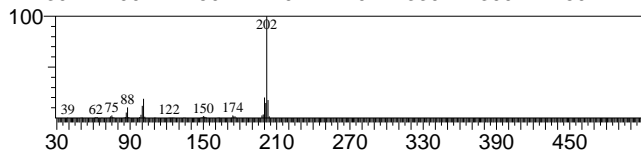
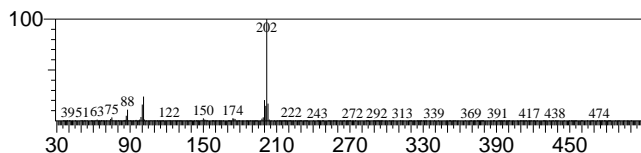


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.003
Area:26643
SI:90
Conc.:0.149ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	1046	8.50	8.88
2	104	540	4.39	4.02

ID#:32 R.Time:21.2(Scan#:4443)

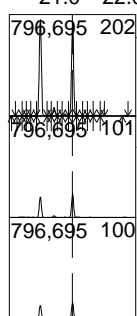
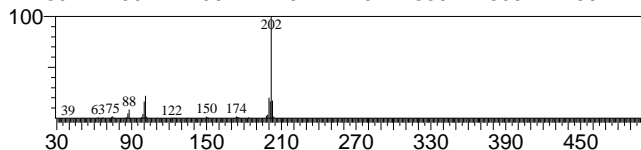
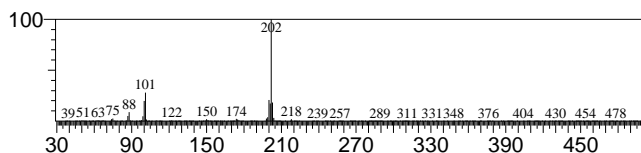


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.206
Area:1858831
SI:98
Conc.:12.139ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	163651	21.11	20.51

ID#:33 R.Time:21.7(Scan#:4565)

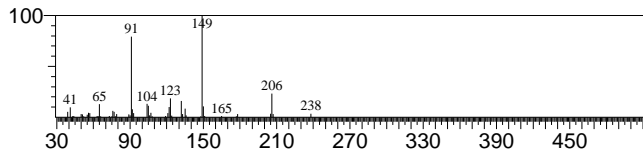
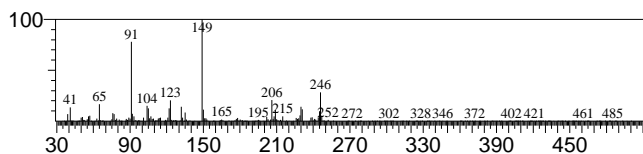


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.715
Area:1767070
SI:98
Conc.:10.687ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	186711	24.78	23.49
2	100	133494	17.72	16.96

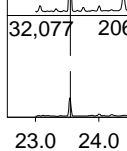
ID#:34 R.Time:23.6(Scan#:5005)



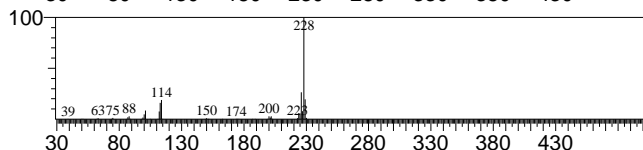
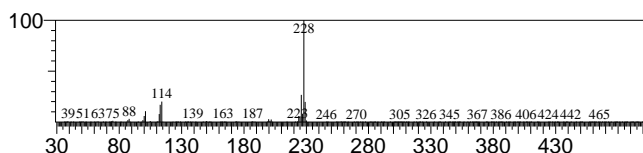
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.546
Area:67863
SI:97
Conc.:0.837ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	20965	68.69	69.36
2	206	5792	18.98	19.97



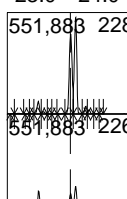
ID#:35 R.Time:24.6(Scan#:5259)



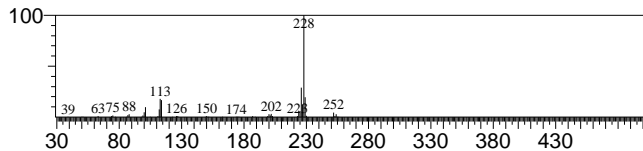
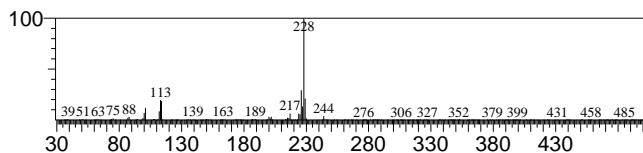
ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.610
Area:1412301
SI:98
Conc.:8.448ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	100767	26.90	26.21
2	229	74382	19.85	19.36



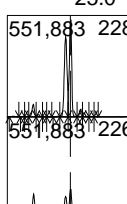
ID#:36 R.Time:24.7(Scan#:5279)



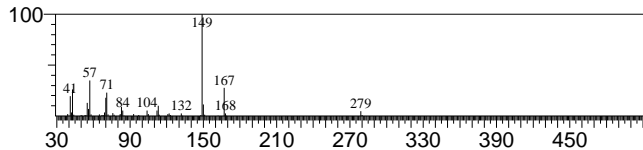
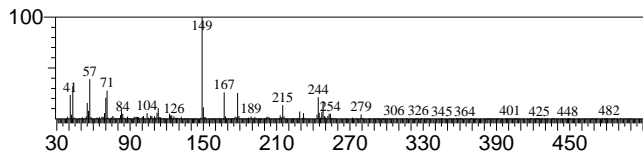
ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.688
Area:1373766
SI:96
Conc.:8.647ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	149008	29.69	29.42
2	229	105877	21.09	19.66



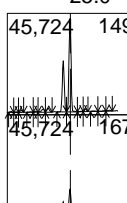
ID#:37 R.Time:25.0(Scan#:5361)



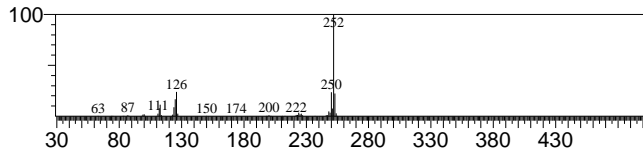
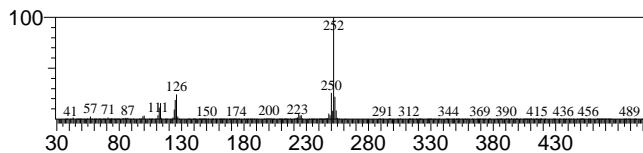
ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.031
Area:95772
SI:96
Conc.:0.810ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	12000	27.57	29.29
2	279	1683	3.87	4.16



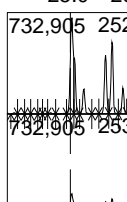
ID#:39 R.Time:27.0(Scan#:5835)



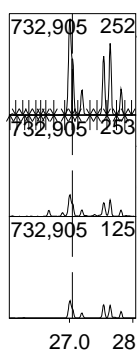
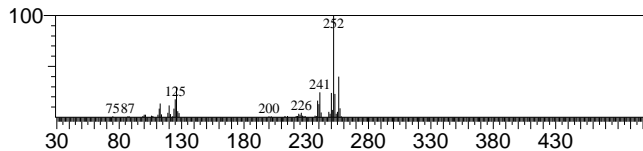
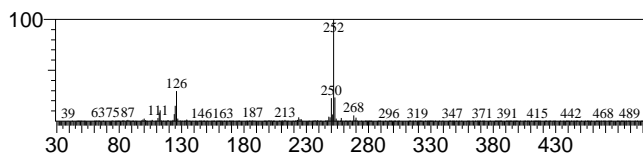
ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.007
Area:2377036
SI:97
Conc.:13.226ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	96999	22.14	20.50
2	125	80425	18.36	14.60



ID#:40 R.Time:27.1(Scan#:5845)

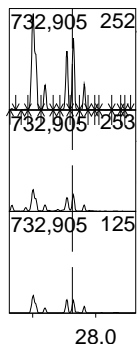
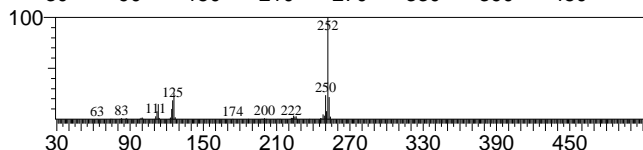
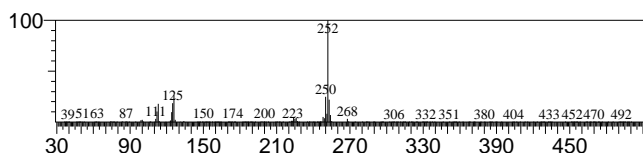


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.050
Area:599536
SI:83
Conc.:3.521ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	25562	22.40	20.19
2	125	14416	12.63	14.03

ID#:41 R.Time:27.6(Scan#:5987)

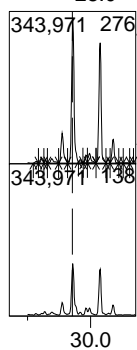
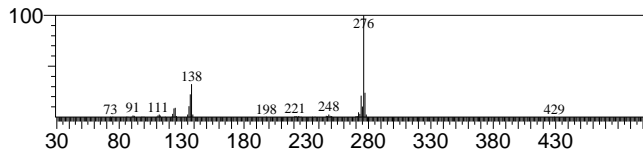
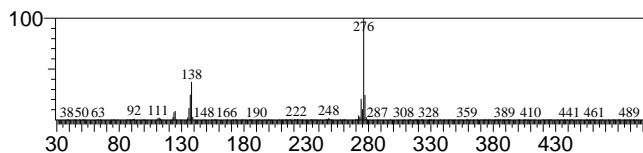


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.644
Area:1301053
SI:98
Conc.:8.233ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	115922	22.77	21.99
2	125	88651	17.41	17.18

ID#:42 R.Time:29.7(Scan#:6485)

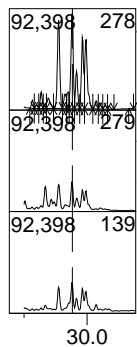
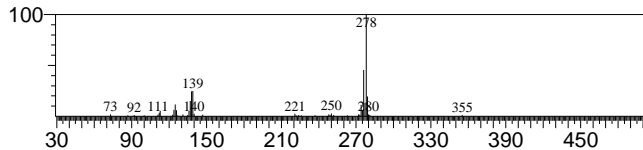
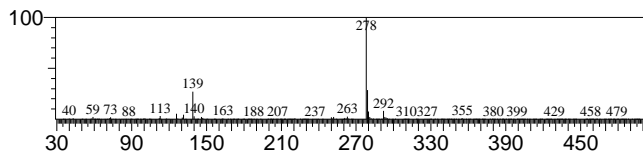


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.717
Area:885928
SI:98
Conc.:6.001ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	115835	35.55	32.23

ID#:43 R.Time:29.8(Scan#:6497)

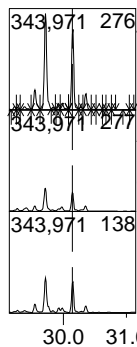
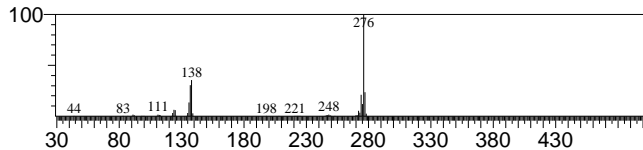
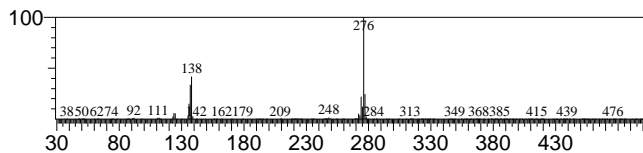


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.763
Area:225090
SI:68
Conc.:1.592ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	22406	27.86	23.98
2	139	21055	26.18	28.79

ID#:44 R.Time:30.2(Scan#:6589)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.148
Area:683610
SI:97
Conc.:4.410ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	59373	21.64	23.18
2	138	103691	37.80	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415850.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 7:38:48 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-03
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 35
 Injection Volume : 1

Internal Standard

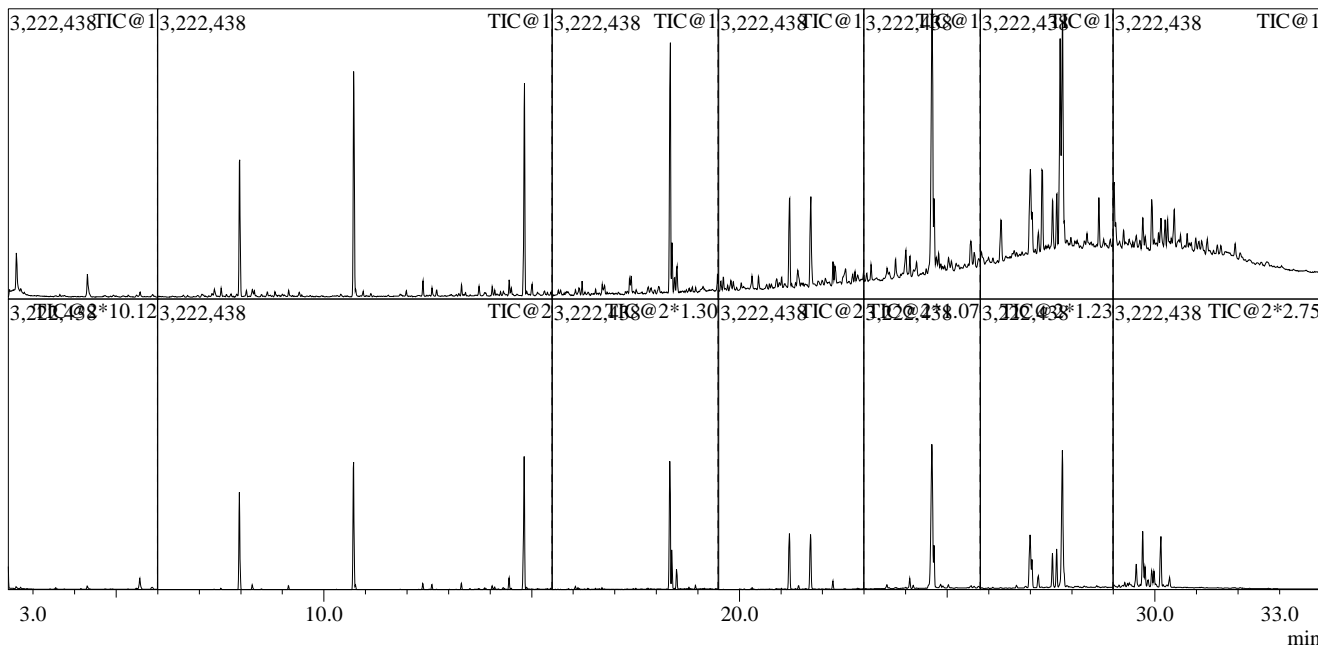
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	538347	20.0000	ng/uL	109.12
2	Naphthalene-D10	10.71	136	2136533	20.0000	ng/uL	108.45
3	Acenaphthene-D10	14.81	164	985423	20.0000	ng/uL	104.53
4	Phenanthrene-D10	18.32	188	1842932	20.0000	ng/uL	106.33
5	Chrysene-D12	24.63	240	2485245	20.0000	ng/uL	107.18
6	Perylene-D12	27.77	264	2366556	20.0000	ng/uL	101.14
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

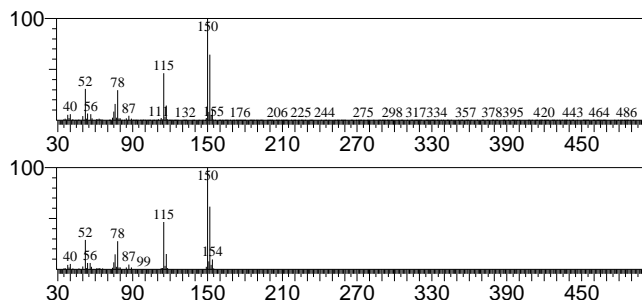
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	24808	0.88	ng/uL	35.1800
8	Nitrobenzene-D5 (Surr)	9.15	82	35782	0.98	ng/uL	39.1400
9	2-Fluorobiphenyl (Surr)	13.31	172	82375	0.99	ng/uL	39.5600
10	2,4,6-Tribromophenol (Surr)	16.69	330	5575	0.87	ng/uL	23.3300
11	Terphenyl-D14 (Surr)	22.25	244	141171	1.41	ng/uL	56.5500
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	64837	0.5074	ng/uL	96
18	2-Methylnaphthalene	12.38	142	57781	0.6990	ng/uL	89
19	1-Methylnaphthalene	12.60	142	47839	0.5871	ng/uL	97
20	Biphenyl	13.51	154	9978	0.1014	ng/uL	92
22	Acenaphthylene	14.46	152	149590	1.1989	ng/uL	83
23	Acenaphthene	14.88	153	11246	0.1407	ng/uL	86
24	Fluorene	16.12	166	17242	0.1983	ng/uL	90
29	Phenanthrene	18.37	178	349631	2.6942	ng/uL	90
30	Anthracene	18.49	178	193250	1.4898	ng/uL	98
31	Di-n-butylphthalate	20.00	149	10797	0.0615	ng/uL	89
32	Fluoranthene	21.20	202	925448	6.1449	ng/uL	98
33	Pyrene	21.71	202	889820	5.2285	ng/uL	98
34	Butylbenzylphthalate	23.55	149	39632	0.4748	ng/uL	95
35	Benz[a]anthracene	24.61	228	593078	3.4468	ng/uL	98
36	Chrysene	24.68	228	670390	4.0995	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	43461	0.3569	ng/uL	93
39	Benzo[b]fluoranthene	26.99	252	1010710	5.3941	ng/uL	98
40	Benzo[k]fluoranthene	27.03	252	318961	1.7967	ng/uL	73
41	Benzo[a]pyrene	27.63	252	558691	3.3909	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.71	276	332107	2.1578	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	90818	0.6161	ng/uL	66
44	Benzo[ghi]perylene	30.14	276	277971	1.7201	ng/uL	96



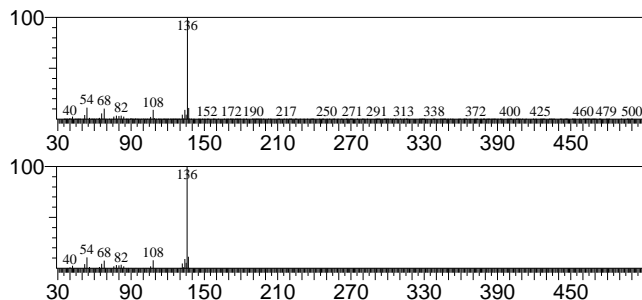
ID#1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:538347
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	168288	66.56	67.59
2	150	392942	155.41	156.27

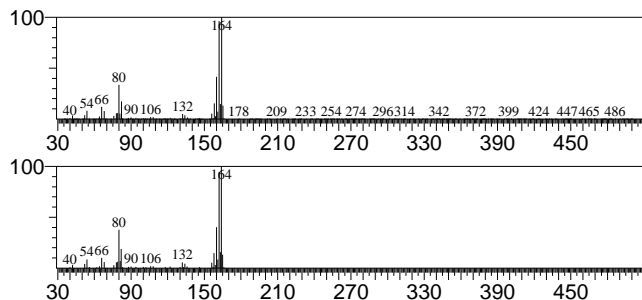
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.712
 Area:2136533
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	112171	11.36	10.57

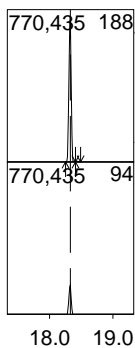
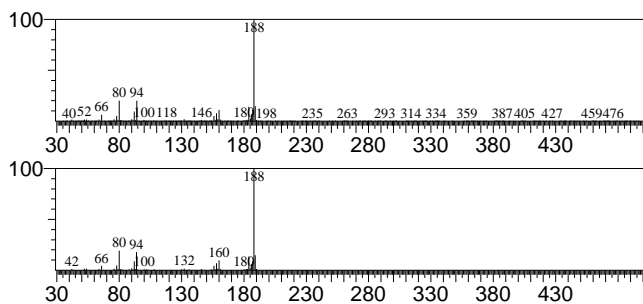
ID#3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.815
 Area:985423
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	447035	99.76	99.35
2	160	206117	46.00	45.34

ID#:4 R.Time:18.3(Scan#:3773)

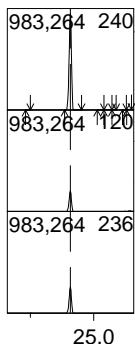
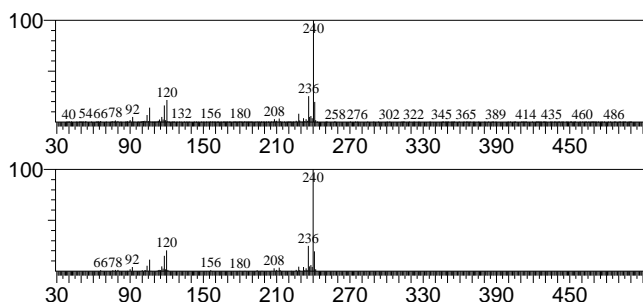


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.324
Area:1842932
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	151805	20.01	19.68

ID#5 R.Time:24.6(Scan#:5265)

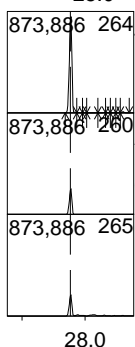
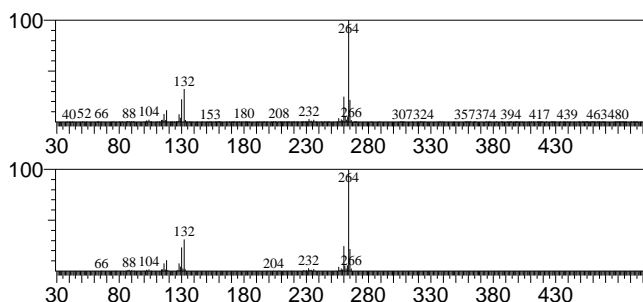


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.633
Area:2485245
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	197544	21.44	21.03
2	236	249928	27.13	27.55

ID#6 R.Time:27.8(Scan#:6019)

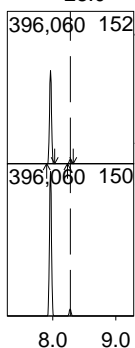
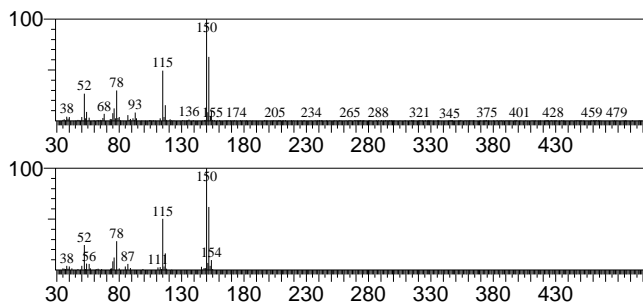


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.773
Area:2366556
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	212481	26.11	26.18
2	265	171396	21.06	21.61

ID#7 R.Time:8.3(Scan#:1411)

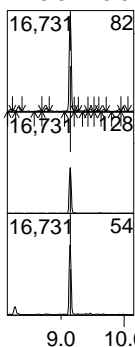
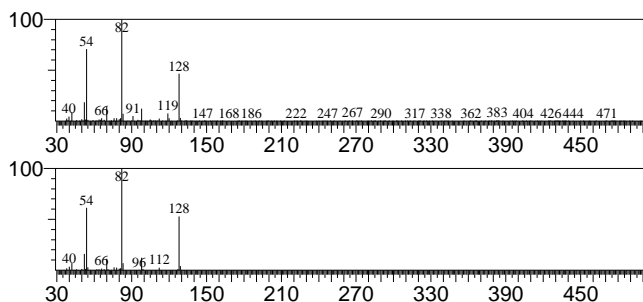


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:24808
SI:96
Conc.:0.880ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	18642	157.36	155.04

ID#8 R.Time:9.2(Scan#:1621)

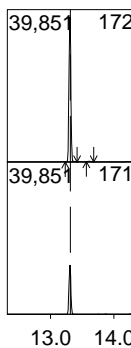
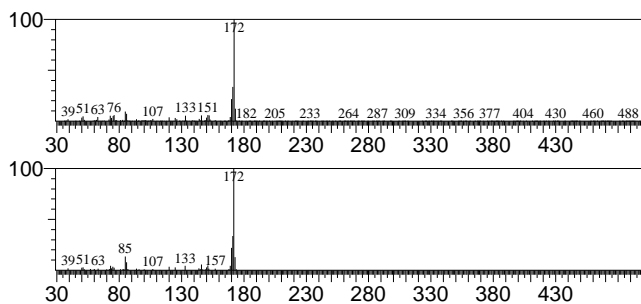


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:35782
SI:97
Conc.:0.978ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	7653	46.65	47.90
2	54	11133	67.87	69.01

ID#:9 R.Time:13.3(Scan#:2619)



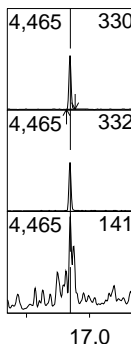
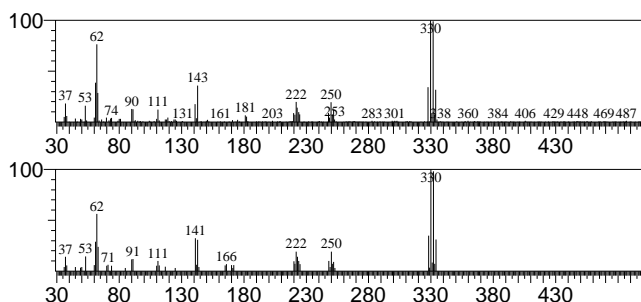
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:82375
SI:96

Conc.:0.989ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	13595	34.00	33.54

ID#:10 R.Time:16.7(Scan#:3409)



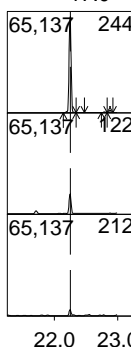
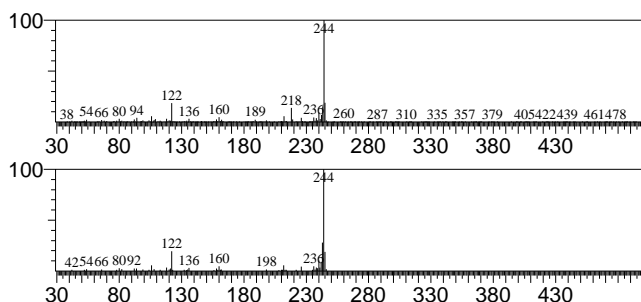
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.689
Area:5575
SI:94

Conc.:0.875ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	2253	89.76	88.80
2	141	2694	107.33	153.10

ID#:11 R.Time:22.3(Scan#:4693)



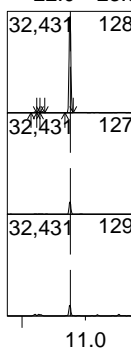
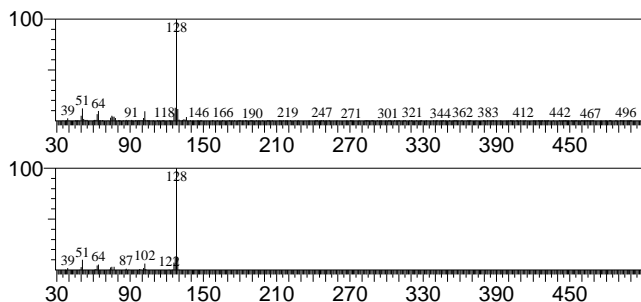
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.248
Area:141171
SI:97

Conc.:1.414ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	12983	20.28	20.49
2	212	4000	6.25	6.58

ID#:17 R.Time:10.8(Scan#:2007)



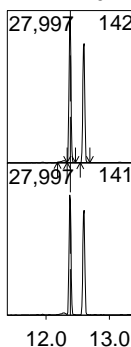
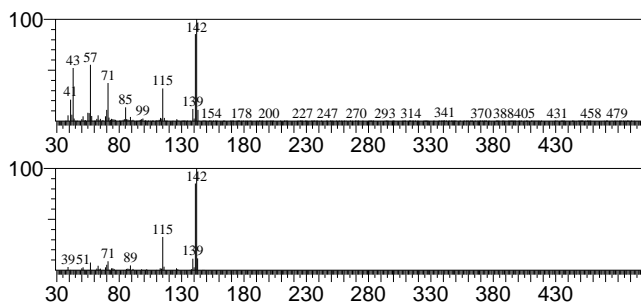
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:64837
SI:96

Conc.:0.507ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	4137	12.57	12.65
2	129	3512	10.67	10.06

ID#:18 R.Time:12.4(Scan#:2395)



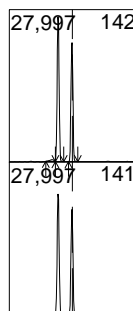
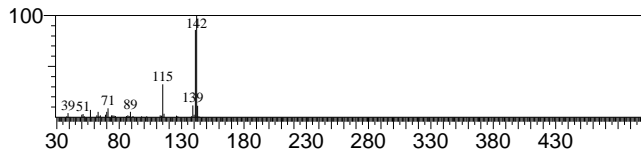
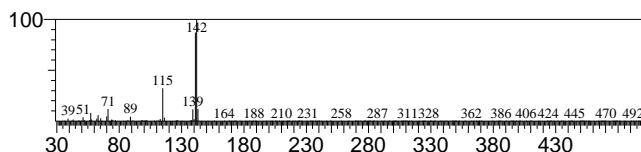
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.378
Area:57781
SI:89

Conc.:0.699ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	23178	82.71	83.64

ID#:19 R.Time:12.6(Scan#:2449)



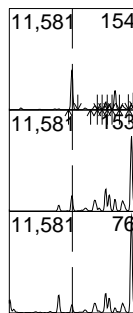
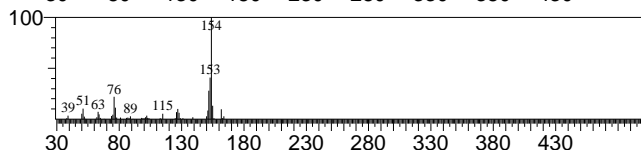
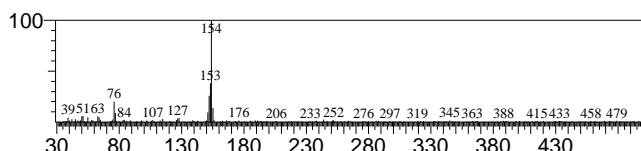
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.597
Area:47839
SI:97

Conc.:0.587ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	20209	87.93	87.02

ID#:20 R.Time:13.5(Scan#:2669)



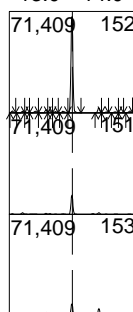
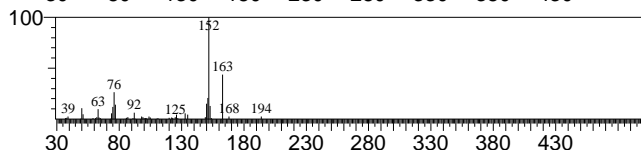
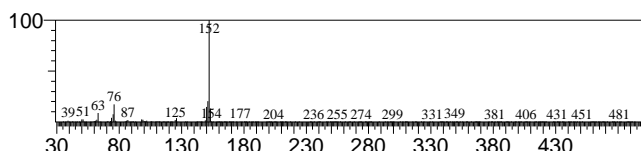
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.513
Area:9978
SI:92

Conc.:0.101ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	1832	38.86	38.33
2	76	924	19.60	21.10

ID#:22 R.Time:14.5(Scan#:2895)



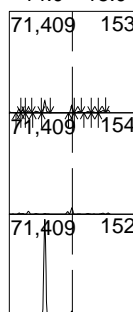
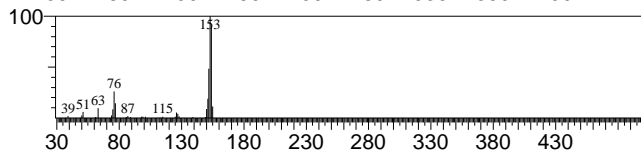
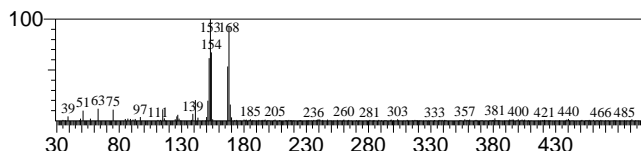
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.456
Area:149590
SI:83

Conc.:1.199ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	14014	19.59	19.84
2	153	8905	12.45	12.50

ID#:23 R.Time:14.9(Scan#:2997)



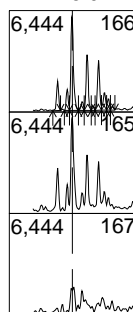
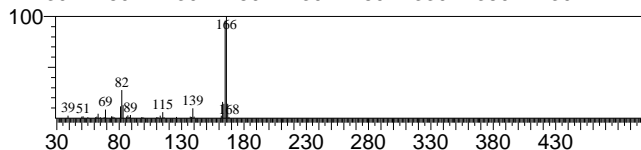
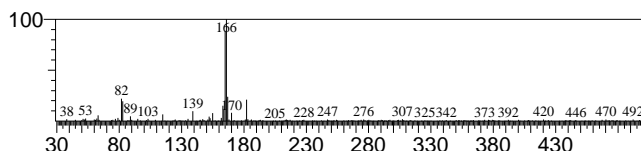
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.883
Area:11246
SI:86

Conc.:0.141ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	4190	77.88	94.93
2	152	3464	* 64.39	49.24

ID#:24 R.Time:16.1(Scan#:3281)



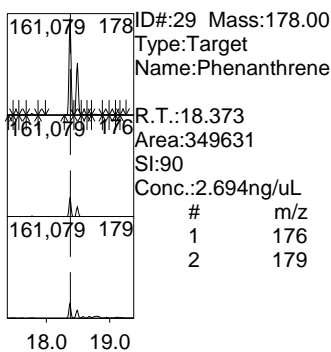
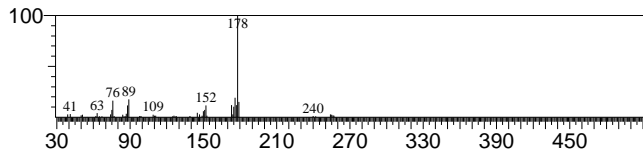
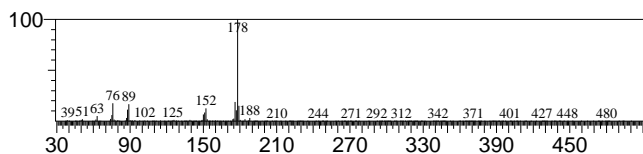
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.116
Area:17242
SI:90

Conc.:0.198ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	5768	95.51	91.21
2	167	1271	* 21.05	13.28

ID#:29 R.Time:18.4(Scan#:3783)

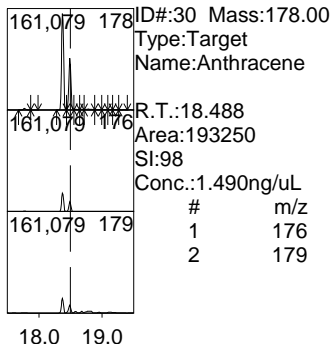
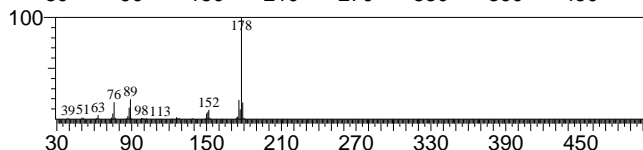
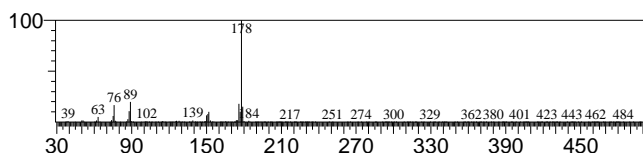


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.373
Area:349631
SI:90
Conc.:2.694ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	30854	18.82	19.27
2	179	24754	15.10	14.18

ID#:30 R.Time:18.5(Scan#:3809)

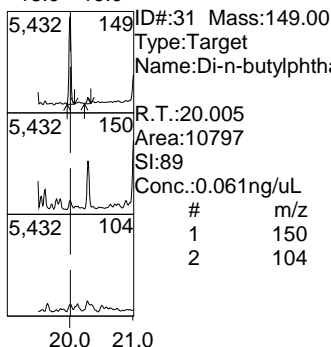
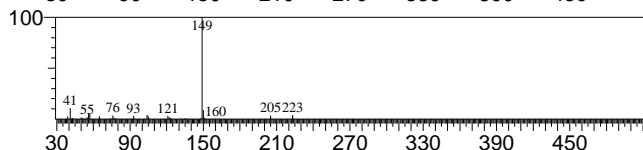
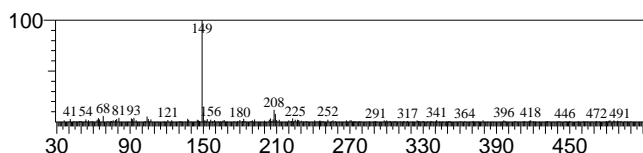


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.488
Area:193250
SI:98
Conc.:1.490ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	15928	18.34	18.61
2	179	12725	14.65	14.75

ID#:31 R.Time:20.0(Scan#:4155)

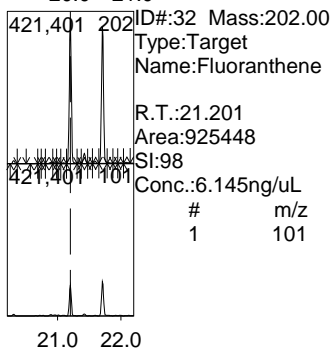
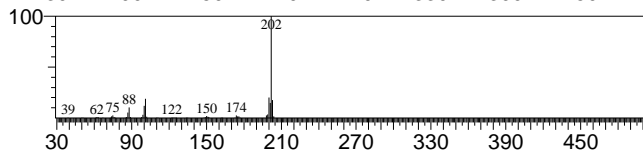
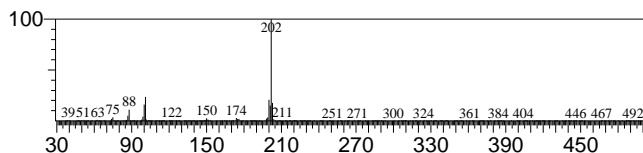


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.005
Area:10797
SI:89
Conc.:0.061ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	434	8.94	8.88
2	104	285	* 5.87	4.02

ID#:32 R.Time:21.2(Scan#:4441)

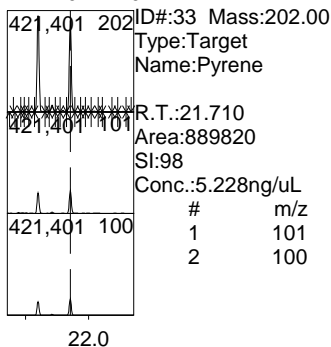
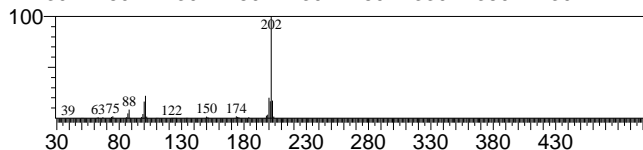
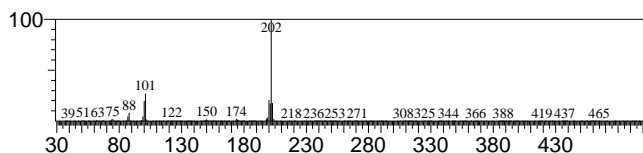


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.201
Area:925448
SI:98
Conc.:6.145ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	87367	21.23	20.51

ID#:33 R.Time:21.7(Scan#:4563)

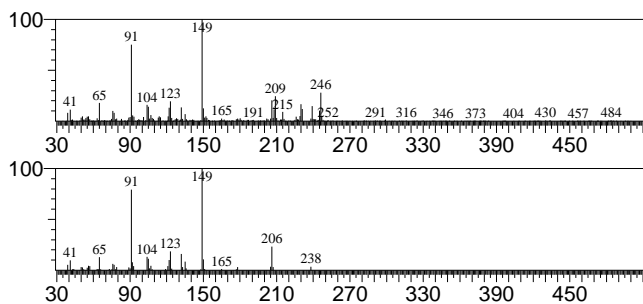


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.710
Area:889820
SI:98
Conc.:5.228ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	95796	24.61	23.49
2	100	70145	18.02	16.96

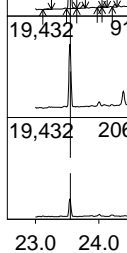
ID#:34 R.Time:23.6(Scan#:5005)



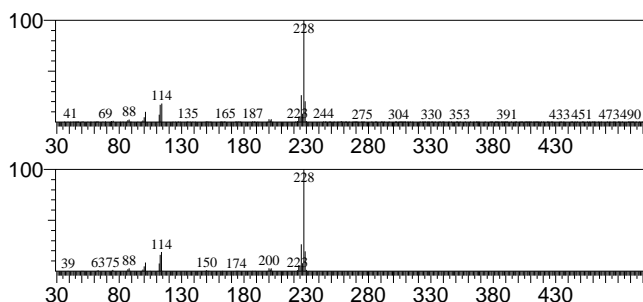
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.546
Area:39632
SI:95
Conc.:0.475ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	12198	69.52	69.36
2	206	3370	19.21	19.97



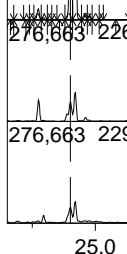
ID#:35 R.Time:24.6(Scan#:5259)



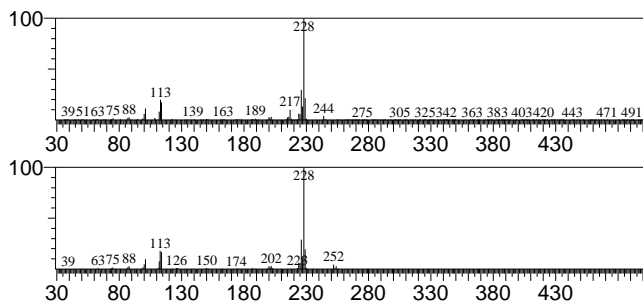
ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.607
Area:593078
SI:98
Conc.:3.447ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	45160	26.89	26.21
2	229	33281	19.82	19.36



ID#:36 R.Time:24.7(Scan#:5277)



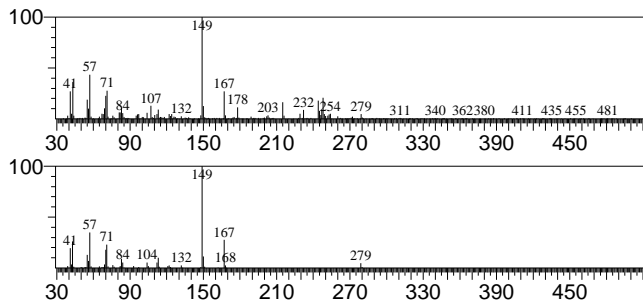
ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.681
Area:670390
SI:96
Conc.:4.099ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	75670	29.89	29.42
2	229	53067	20.96	19.66



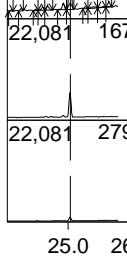
ID#:37 R.Time:25.0(Scan#:5361)



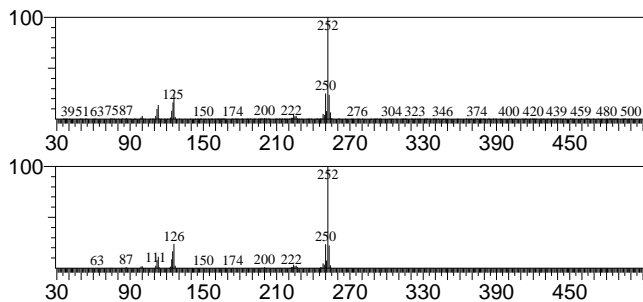
ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.032
Area:43461
SI:93
Conc.:0.357ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	5431	27.85	29.29
2	279	779	3.99	4.16



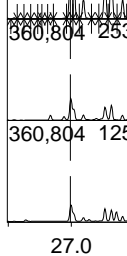
ID#:39 R.Time:27.0(Scan#:5831)



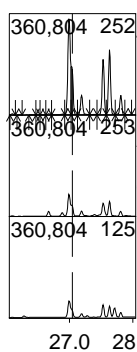
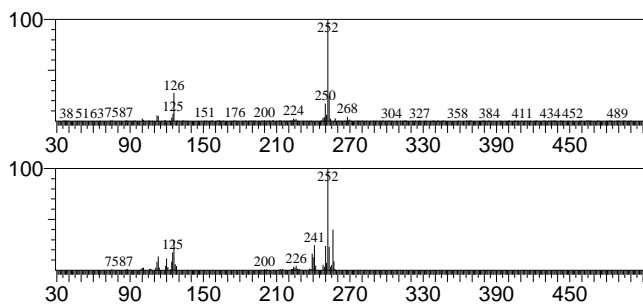
ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.993
Area:1010710
SI:98
Conc.:5.394ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	58500	22.37	20.50
2	125	42794	16.37	14.60



ID#:40 R.Time:27.0(Scan#:5841)

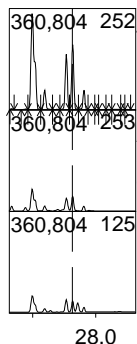
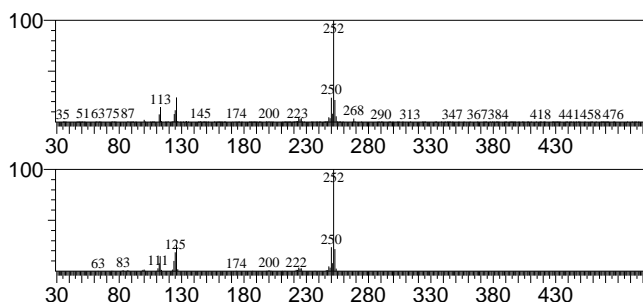


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.030
Area:318961
SI:73
Conc.:1.797ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	14379	23.36	20.19
2	125	8381	13.62	14.03

ID#:41 R.Time:27.6(Scan#:5985)

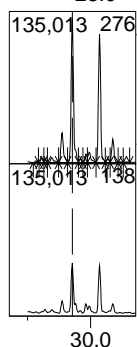
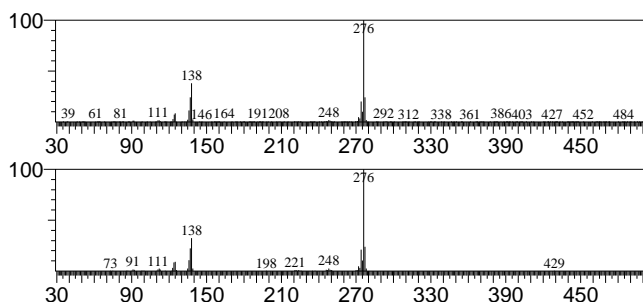


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.634
Area:558691
SI:96
Conc.:3.391ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	52008	22.29	21.99
2	125	30868	13.23	17.18

ID#:42 R.Time:29.7(Scan#:6483)

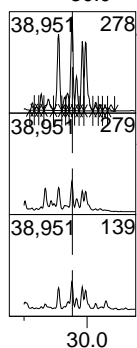
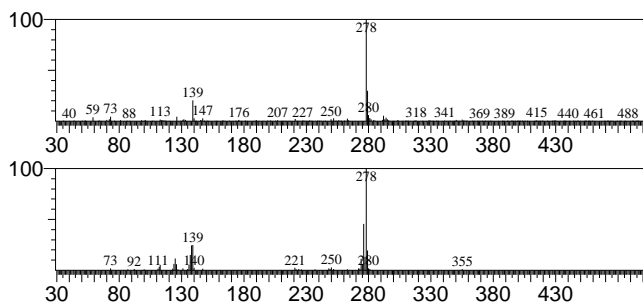


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.709
Area:332107
SI:97
Conc.:2.158ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	44268	34.51	32.23

ID#:43 R.Time:29.8(Scan#:6495)

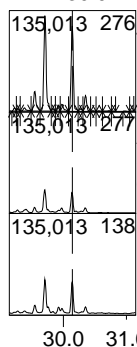
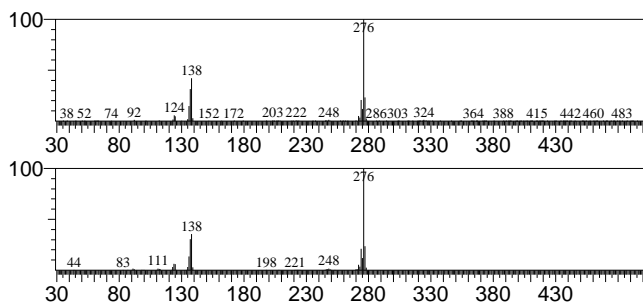


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.761
Area:90818
SI:66
Conc.:0.616ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	10031	29.52	23.98
2	139	9125	26.86	28.79

ID#:44 R.Time:30.1(Scan#:6587)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.140
Area:277971
SI:96
Conc.:1.720ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	25492	22.14	23.18
2	138	42340	36.78	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415851.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 8:27:41 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-08
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 36
 Injection Volume : 1

Internal Standard

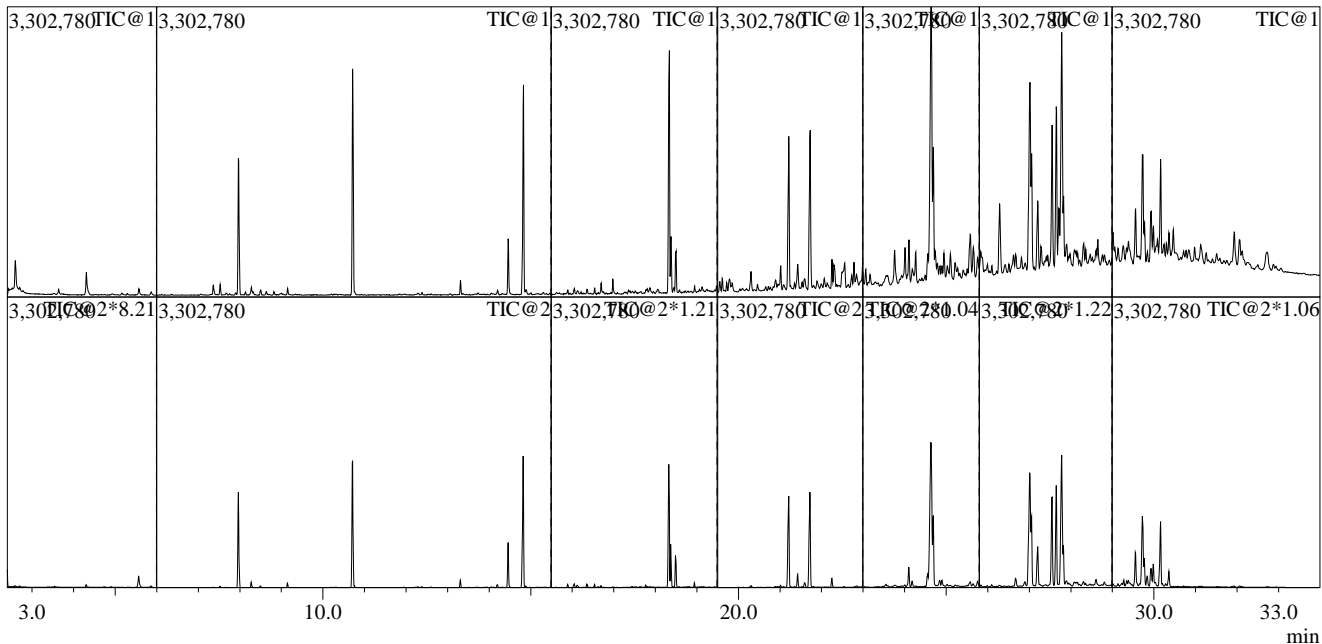
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	549335	20.0000	ng/uL	111.35
2	Naphthalene-D10	10.71	136	2217264	20.0000	ng/uL	112.54
3	Acenaphthene-D10	14.81	164	1008379	20.0000	ng/uL	106.96
4	Phenanthrene-D10	18.32	188	1931169	20.0000	ng/uL	111.42
5	Chrysene-D12	24.64	240	2563079	20.0000	ng/uL	110.54
6	Perylene-D12	27.78	264	2313656	20.0000	ng/uL	98.88
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

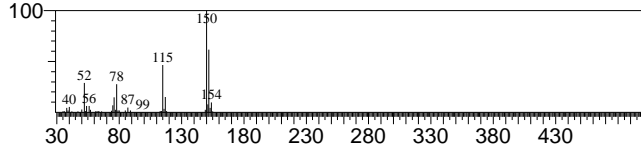
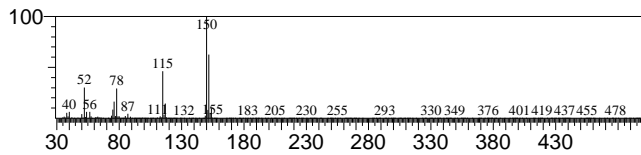
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	29187	1.01	ng/uL	40.5700
8	Nitrobenzene-D5 (Surr)	9.15	82	43257	1.14	ng/uL	45.5900
9	2-Fluorobiphenyl (Surr)	13.30	172	103723	1.22	ng/uL	48.6800
10	2,4,6-Tribromophenol (Surr)	16.69	330	6442	1.04	ng/uL	27.6500
11	Terphenyl-D14 (Surr)	22.25	244	170010	1.65	ng/uL	66.0400
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	25917	0.1954	ng/uL	92
18	2-Methylnaphthalene	12.38	142	8495	0.0990	ng/uL	85
19	1-Methylnaphthalene	12.60	142	5886	0.0696	ng/uL	90
22	Acenaphthylene	14.46	152	587255	4.5993	ng/uL	82
23	Acenaphthene	14.88	153	9297	0.1137	ng/uL	88
24	Fluorene	16.12	166	27284	0.3066	ng/uL	95
29	Phenanthrene	18.37	178	418555	3.0779	ng/uL	90
30	Anthracene	18.49	178	352038	2.5899	ng/uL	98
31	Di-n-butylphthalate	20.00	149	8522	0.0463	ng/uL	84
32	Fluoranthene	21.21	202	1621550	10.2750	ng/uL	98
33	Pyrene	21.72	202	1716410	9.7791	ng/uL	98
34	Butylbenzylphthalate	23.54	149	21084	0.2449	ng/uL	91
35	Benz[a]anthracene	24.61	228	1076534	6.0665	ng/uL	99
36	Chrysene	24.68	228	1298326	7.6982	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	19708	0.1569	ng/uL	88
39	Benzo[b]fluoranthene	27.01	252	2708515	14.7856	ng/uL	96
40	Benzo[k]fluoranthene	27.05	252	739305	4.2598	ng/uL	81
41	Benzo[a]pyrene	27.65	252	1594307	9.8977	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.72	276	1227359	8.1568	ng/uL	98
43	Dibenz[a,h]anthracene	29.77	278	323490	2.2445	ng/uL	67
44	Benzo[ghi]perylene	30.16	276	1014728	6.4227	ng/uL	97

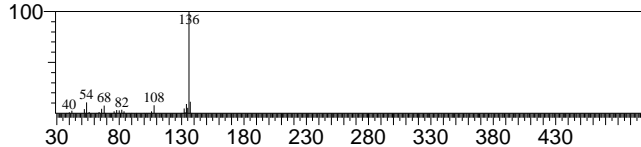
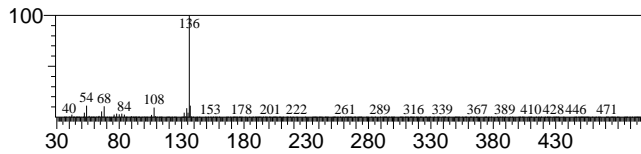


ID#:1 R.Time:8.0(Scan#:1337)



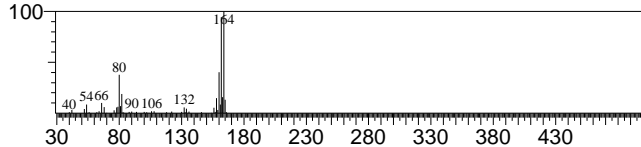
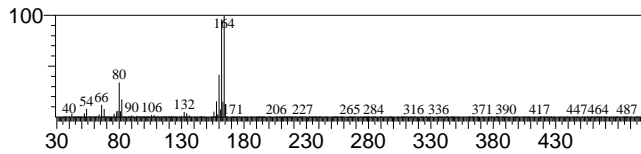
400,789	152	ID#:1	Mass:152.00
400,789	115	Type:ISTD	
		Name:1,4-Dichlorobenzene-D4	
		R.T.:7.966	
		Area:549335	
		SI:99	
		Conc.:20.000ng/uL	
#	m/z	Intensity	Ratio
1	115	168061	65.60
2	150	396416	154.75
		Setting	
		156.27	

ID#:2 R.Time:10.7(Scan#:1995)



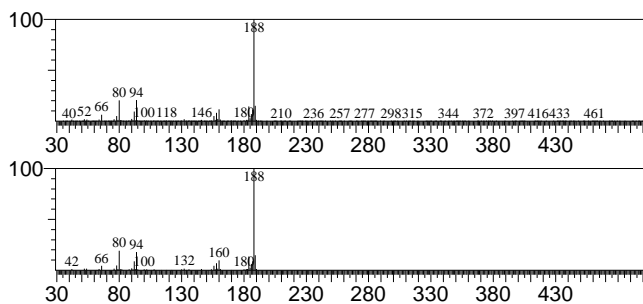
1,050,350	36	ID#:2	Mass:136.00
1,050,350	68	Type:ISTD	
		Name:Naphthalene-D10	
		R.T.:10.711	
		Area:2217264	
		SI:98	
		Conc.:20.000ng/uL	
#	m/z	Intensity	Ratio
1	68	118050	11.35
		Setting	
		10.57	

ID#:3 R.Time:14.8(Scan#:2981)



462,142	164	ID#:3	Mass:164.00
462,142	162	Type:ISTD	
		Name:Acenaphthene-D10	
		R.T.:14.814	
		Area:1008379	
		SI:98	
		Conc.:20.000ng/uL	
#	m/z	Intensity	Ratio
1	162	447631	98.19
2	160	208027	45.63
		Setting	
		45.34	

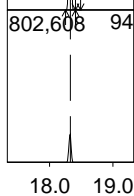
ID#:4 R.Time:18.3(Scan#:3773)



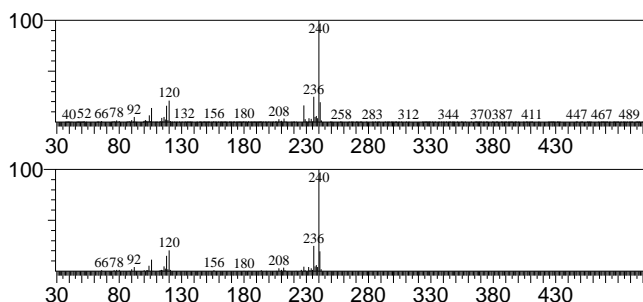
ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.323
Area:1931169
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	153977	19.53	19.68



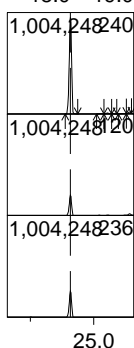
ID#5 R.Time:24.6(Scan#:5265)



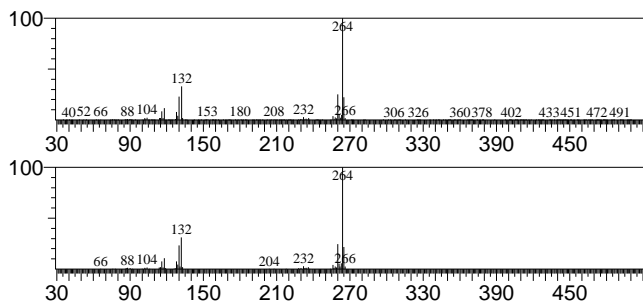
ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.636
Area:2563079
SI:97

#	m/z	Intensity	Ratio	Setting
1	120	194142	21.00	21.03
2	236	249143	26.96	27.55



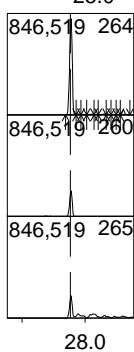
ID#6 R.Time:27.8(Scan#:6019)



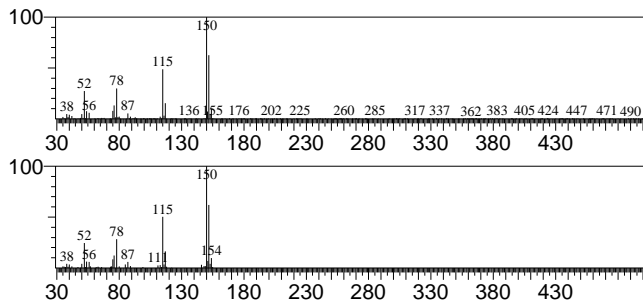
ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.778
Area:2313656
SI:98

#	m/z	Intensity	Ratio	Setting
1	260	198070	26.46	26.18
2	265	163208	21.81	21.61



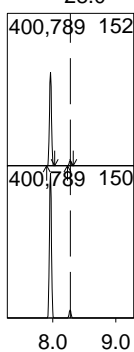
ID#7 R.Time:8.3(Scan#:1411)



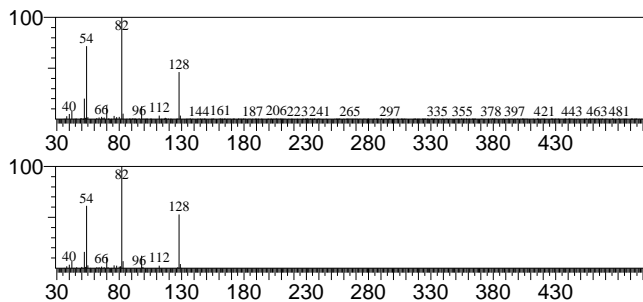
ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:29187
SI:96

#	m/z	Intensity	Ratio	Setting
1	150	21808	156.66	155.04



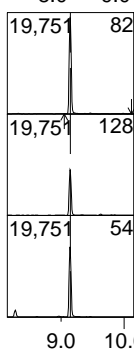
ID#8 R.Time:9.1(Scan#:1619)



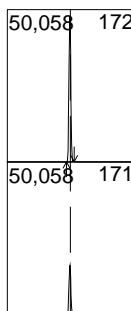
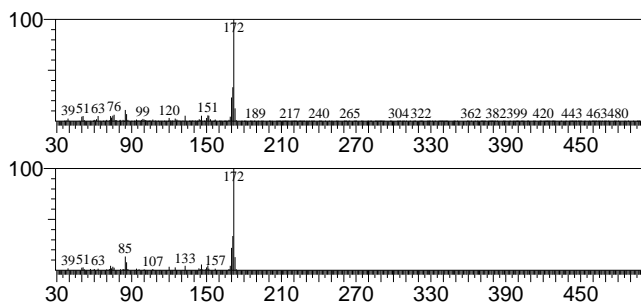
ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:43257
SI:96

#	m/z	Intensity	Ratio	Setting
1	128	9187	46.86	47.90
2	54	14344	73.16	69.01



ID#:9 R.Time:13.3(Scan#:2619)

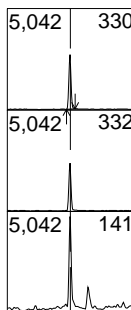
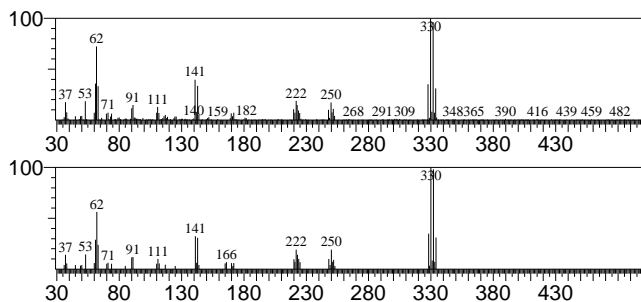


ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.305
Area:103723
SI:96

#	m/z	Intensity	Ratio	Setting
1	171	16885	33.74	33.54

ID#:10 R.Time:16.7(Scan#:3409)

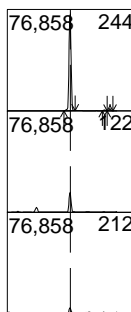
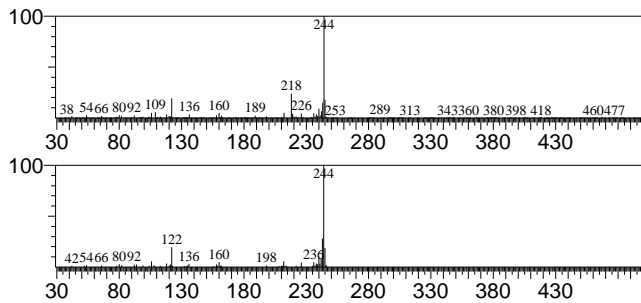


ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.688
Area:6442
SI:96

#	m/z	Intensity	Ratio	Setting
1	332	2471	86.43	88.80
2	141	4661	163.03	153.10

ID#:11 R.Time:22.3(Scan#:4693)

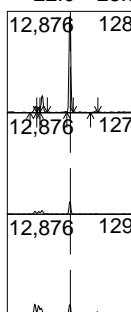
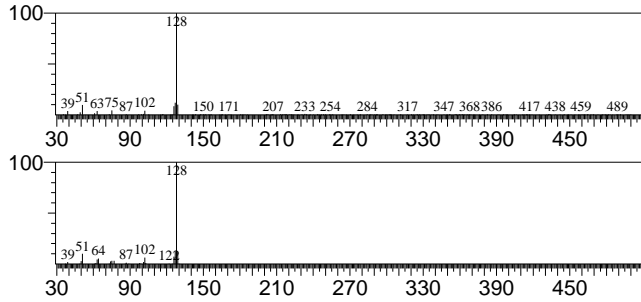


ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.247
Area:170010
SI:95

#	m/z	Intensity	Ratio	Setting
1	122	15075	20.17	20.49
2	212	4362	5.84	6.58

ID#:17 R.Time:10.8(Scan#:2007)

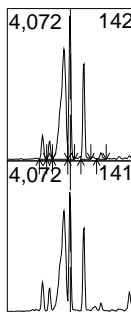
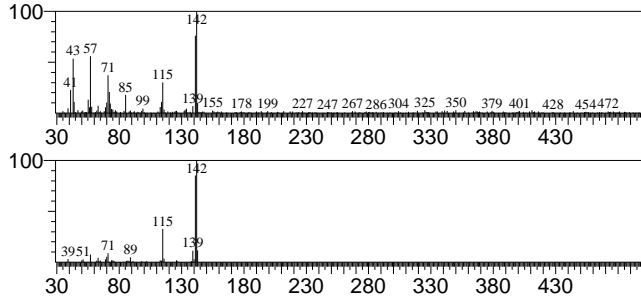


ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.756
Area:25917
SI:92

#	m/z	Intensity	Ratio	Setting
1	127	1660	12.82	12.65
2	129	1344	10.38	10.06

ID#:18 R.Time:12.4(Scan#:2395)

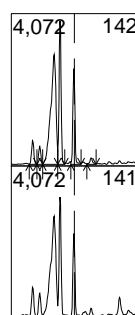
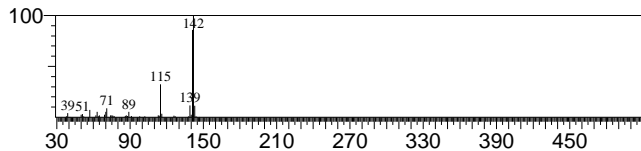
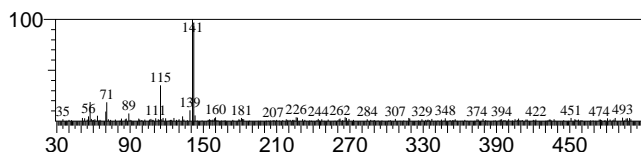


ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.377
Area:8495
SI:85

#	m/z	Intensity	Ratio	Setting
1	141	3296	83.21	83.64

ID#:19 R.Time:12.6(Scan#:2449)



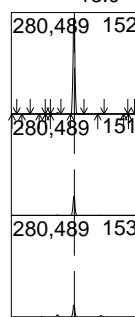
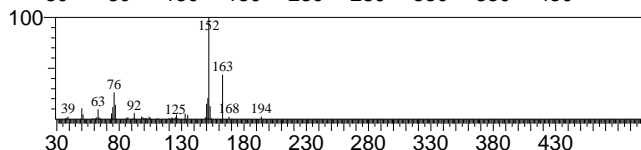
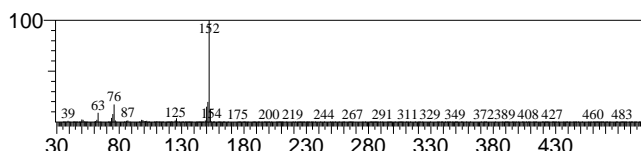
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.596
Area:5886
SI:90

Conc.:0.070ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	2295	87.56	87.02

ID#:22 R.Time:14.5(Scan#:2895)



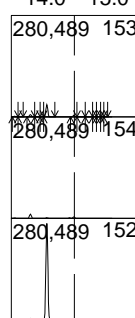
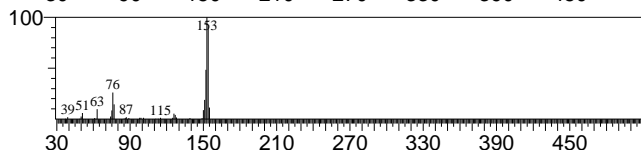
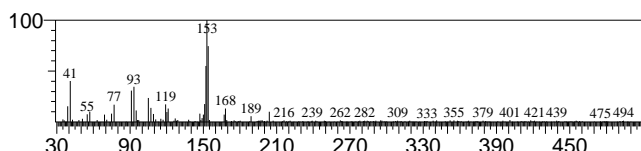
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.457
Area:587255
SI:82

Conc.:4.599ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	55461	19.81	19.84
2	153	35055	12.52	12.50

ID#:23 R.Time:14.9(Scan#:2997)



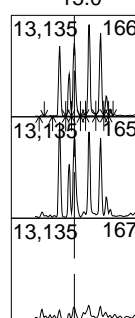
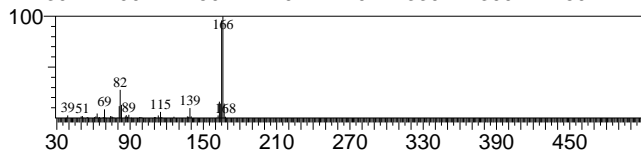
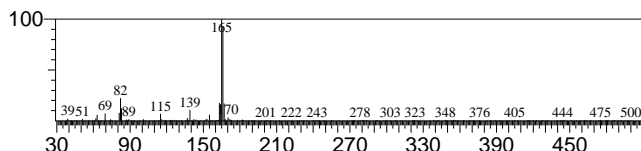
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.883
Area:9297
SI:88

Conc.:0.114ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	4015	87.15	94.93
2	152	2371	51.47	49.24

ID#:24 R.Time:16.1(Scan#:3283)



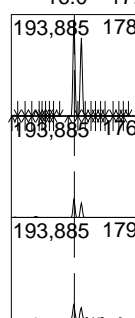
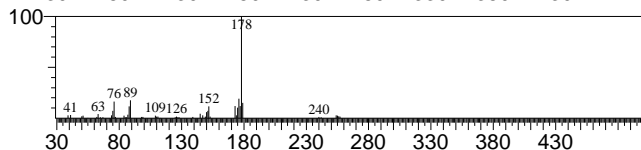
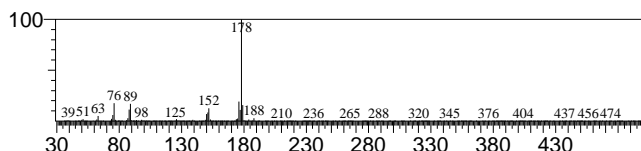
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.120
Area:27284
SI:95

Conc.:0.307ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	9970	108.86	91.21
2	167	1361	14.86	13.28

ID#:29 R.Time:18.4(Scan#:3783)



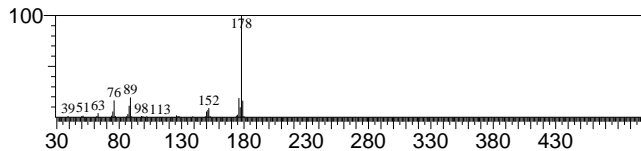
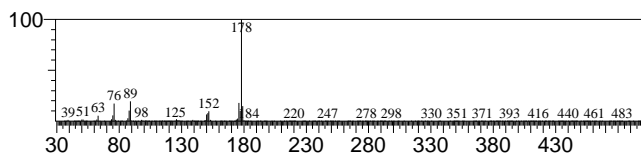
ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.372
Area:418555
SI:90

Conc.:3.078ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	37424	18.89	19.27
2	179	29758	15.02	14.18

ID#:30 R.Time:18.5(Scan#:3809)



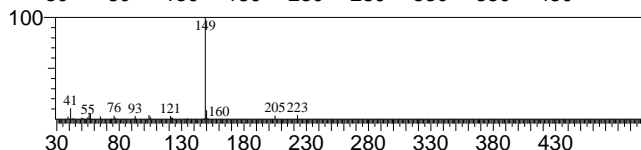
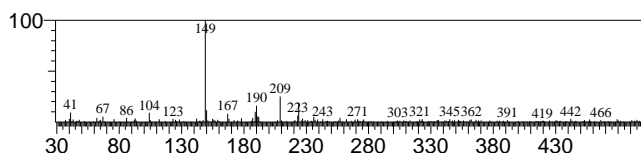
ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.489
Area:352038
SI:98
Conc.:2.590ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	29213	18.58	18.61
2	179	22957	14.60	14.75

18.0 19.0

ID#:31 R.Time:20.0(Scan#:4153)



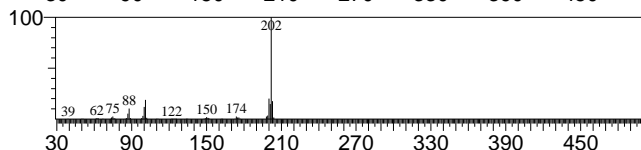
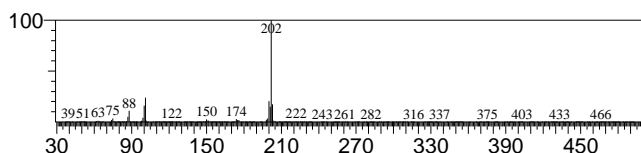
ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.004
Area:8522
SI:84
Conc.:0.046ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	292	7.81	8.88
2	104	216	* 5.77	4.02

20.0 21.0

ID#:32 R.Time:21.2(Scan#:4443)



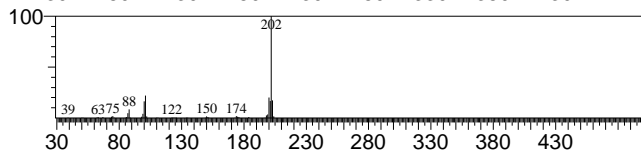
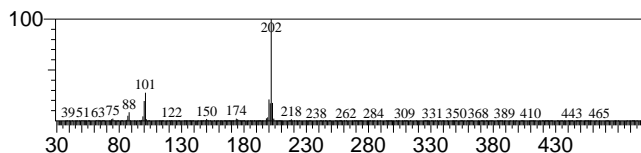
ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.205
Area:1621550
SI:98
Conc.:10.275ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	143676	20.93	20.51

21.0 22.0

ID#:33 R.Time:21.7(Scan#:4565)



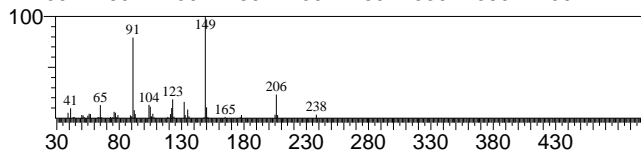
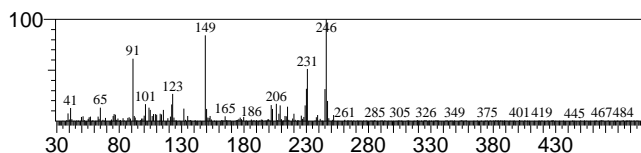
ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.716
Area:1716410
SI:98
Conc.:9.779ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	174806	24.72	23.49
2	100	126539	17.90	16.96

22.0

ID#:34 R.Time:23.5(Scan#:5003)



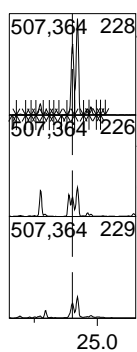
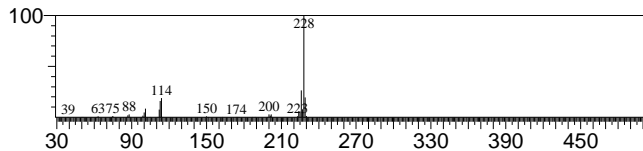
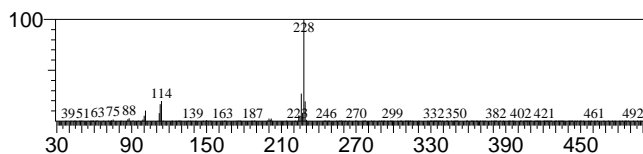
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.545
Area:21084
SI:91
Conc.:0.245ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	6490	69.87	69.36
2	206	1726	18.58	19.97

23.0 24.0

ID#:35 R.Time:24.6(Scan#:5259)

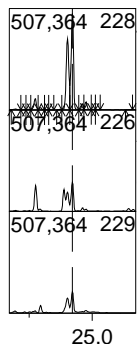
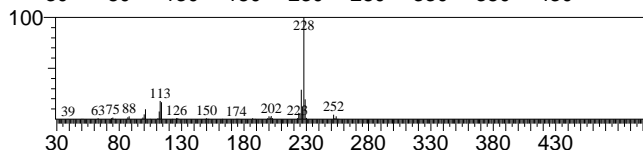
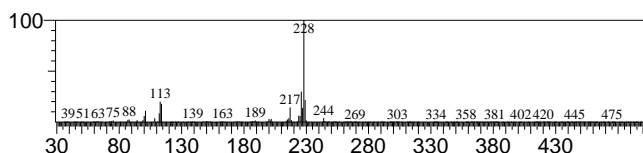


ID#:35 Mass:228.00
Type:Target
Name: Benz[a]anthracene

R.T.:24.608
Area:1076534
SI:99
Conc.:6.067ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	82239	27.07	26.21
2	229	59349	19.53	19.36

ID#:36 R.Time:24.7(Scan#:5277)

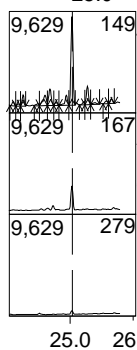
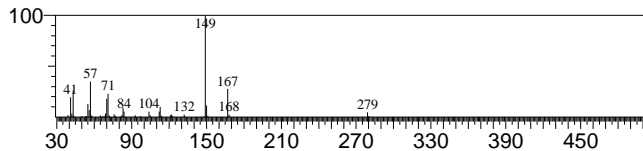
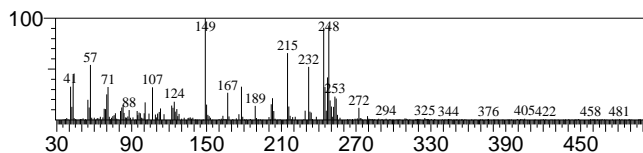


ID#:36 Mass:228.00
Type:Target
Name: Chrysene

R.T.:24.685
Area:1298326
SI:96
Conc.:7.698ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	132573	30.34	29.42
2	229	92811	21.24	19.66

ID#:37 R.Time:25.0(Scan#:5361)

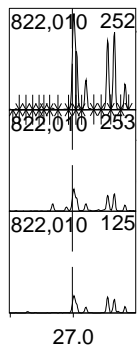
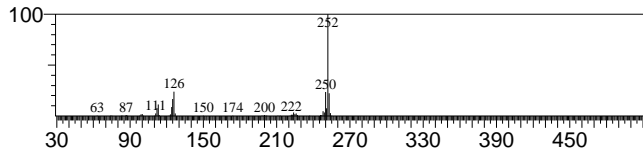
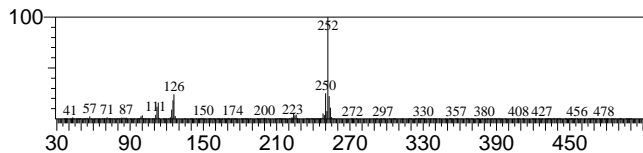


ID#:37 Mass:149.00
Type:Target
Name: Bis(2-ethylhexyl)phthalate

R.T.:25.031
Area:19708
SI:88
Conc.:0.157ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	2283	26.64	29.29
2	279	328	3.83	4.16

ID#:39 R.Time:27.0(Scan#:5835)

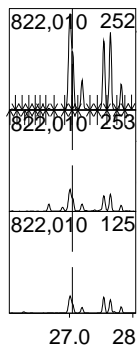
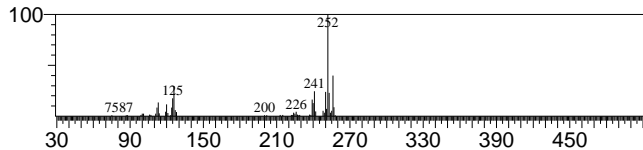
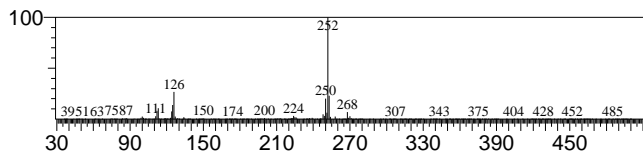


ID#:39 Mass:252.00
Type:Target
Name: Benzo[b]fluoranthene

R.T.:27.009
Area:2708515
SI:96
Conc.:14.786ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	110615	22.26	20.50
2	125	87892	17.69	14.60

ID#:40 R.Time:27.1(Scan#:5845)

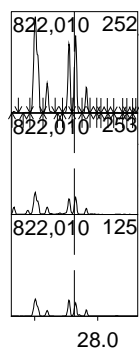
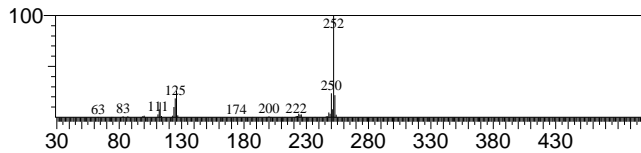
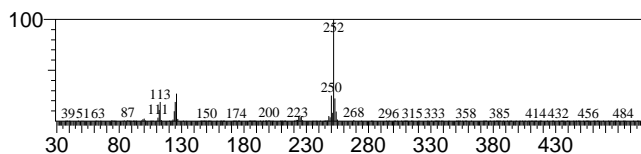


ID#:40 Mass:252.00
Type:Target
Name: Benzo[k]fluoranthene

R.T.:27.050
Area:739305
SI:81
Conc.:4.260ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	33516	22.45	20.19
2	125	20130	13.48	14.03

ID#:41 R.Time:27.7(Scan#:5989)

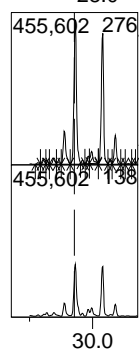
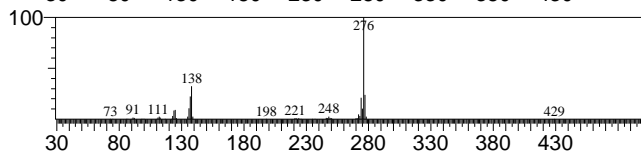
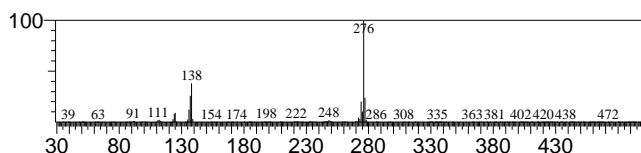


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.648
Area:1594307
SI:97
Conc.:9.898ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	139458	21.98	21.99
2	125	107237	16.90	17.18

ID#:42 R.Time:29.7(Scan#:6487)

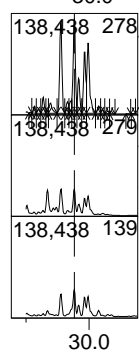
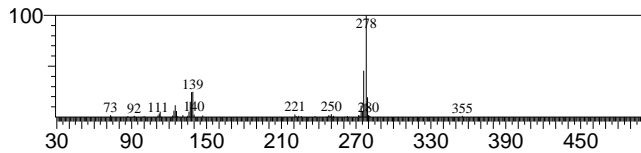
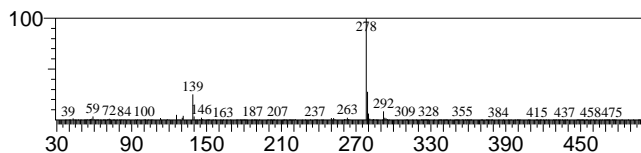


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.724
Area:1227359
SI:98
Conc.:8.157ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	153633	35.63	32.23

ID#:43 R.Time:29.8(Scan#:6497)

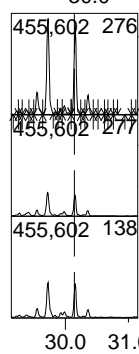
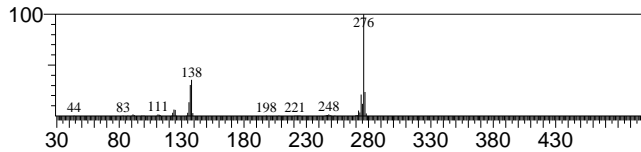
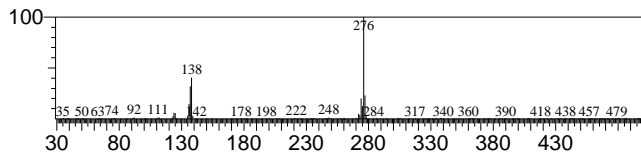


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.766
Area:323490
SI:67
Conc.:2.245ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	32838	26.94	23.98
2	139	30809	25.28	28.79

ID#:44 R.Time:30.2(Scan#:6591)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.156
Area:1014728
SI:97
Conc.:6.423ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	85025	21.54	23.18
2	138	149720	37.93	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415852.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 9:16:15 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-11
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 37
 Injection Volume : 1

Internal Standard

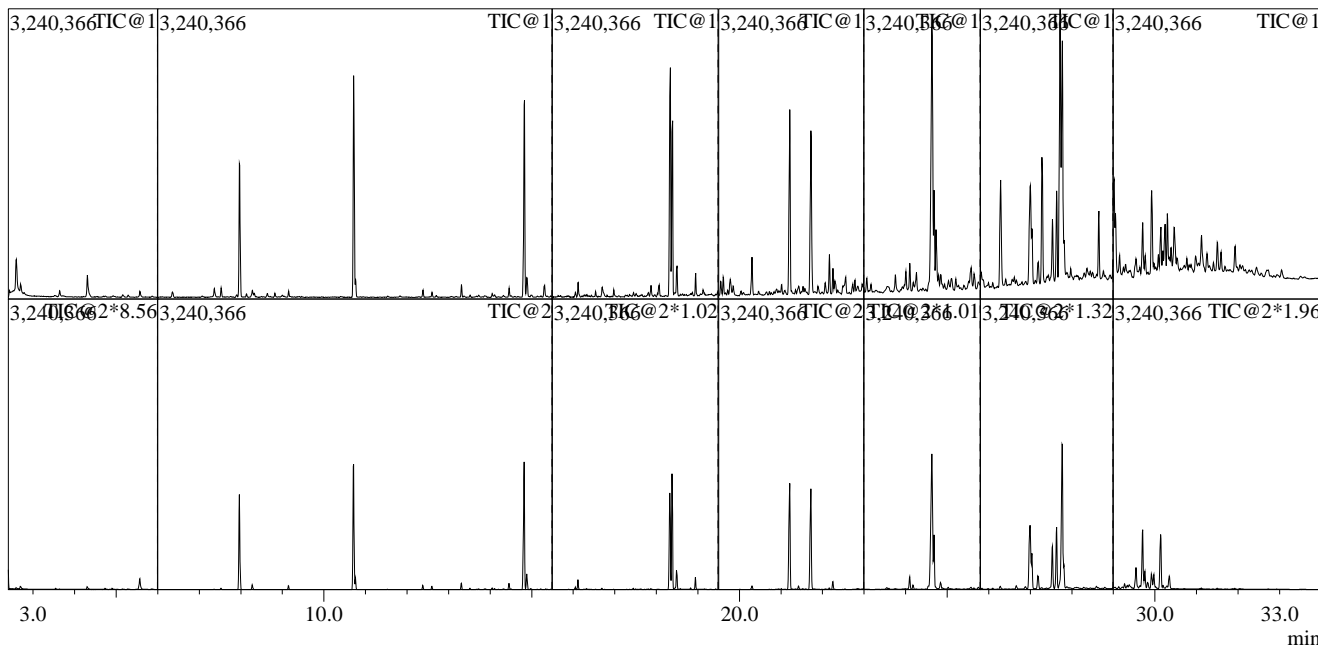
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	535132	20.0000	ng/uL	108.47
2	Naphthalene-D10	10.71	136	2150194	20.0000	ng/uL	109.14
3	Acenaphthene-D10	14.81	164	962772	20.0000	ng/uL	102.12
4	Phenanthrene-D10	18.32	188	1830481	20.0000	ng/uL	105.61
5	Chrysene-D12	24.63	240	2410064	20.0000	ng/uL	103.94
6	Perylene-D12	27.77	264	2341264	20.0000	ng/uL	100.06
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

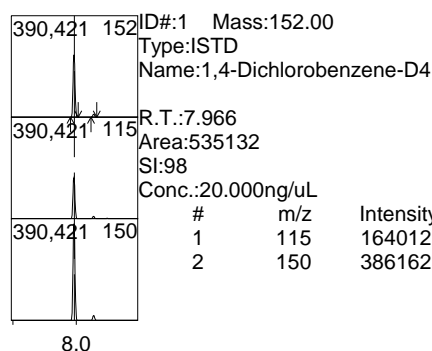
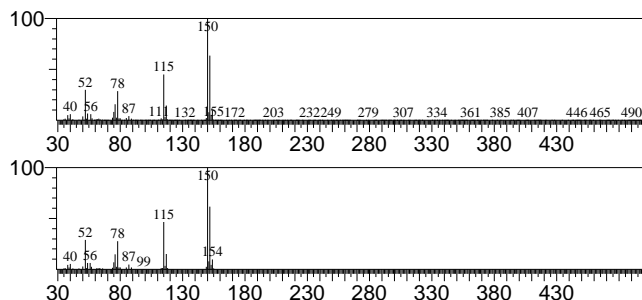
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	26057	0.93	ng/uL	37.1800
8	Nitrobenzene-D5 (Surr)	9.15	82	36753	1.00	ng/uL	39.9500
9	2-Fluorobiphenyl (Surr)	13.30	172	85155	1.05	ng/uL	41.8600
10	2,4,6-Tribromophenol (Surr)	16.69	330	5724	0.93	ng/uL	24.7500
11	Terphenyl-D14 (Surr)	22.25	244	139194	1.44	ng/uL	57.5000
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	168183	1.3079	ng/uL	97
18	2-Methylnaphthalene	12.38	142	40062	0.4816	ng/uL	97
19	1-Methylnaphthalene	12.60	142	32006	0.3903	ng/uL	96
20	Biphenyl	13.51	154	14413	0.1499	ng/uL	93
22	Acenaphthylene	14.45	152	84367	0.6921	ng/uL	84
23	Acenaphthene	14.88	153	102279	1.3102	ng/uL	98
24	Fluorene	16.11	166	88159	1.0376	ng/uL	97
29	Phenanthrene	18.38	178	1413534	10.9664	ng/uL	92
30	Anthracene	18.49	178	245535	1.9058	ng/uL	98
31	Di-n-butylphthalate	20.00	149	7118	0.0408	ng/uL	84
32	Fluoranthene	21.21	202	1847554	12.3510	ng/uL	98
33	Pyrene	21.71	202	1721953	10.4336	ng/uL	98
34	Butylbenzylphthalate	23.54	149	17808	0.2200	ng/uL	93
35	Benz[a]anthracene	24.60	228	791753	4.7450	ng/uL	99
36	Chrysene	24.68	228	861059	5.4297	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	23159	0.1961	ng/uL	87
39	Benzo[b]fluoranthene	26.99	252	1237942	6.6781	ng/uL	98
40	Benzo[k]fluoranthene	27.03	252	356952	2.0325	ng/uL	81
41	Benzo[a]pyrene	27.63	252	852717	5.2314	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.71	276	511358	3.3583	ng/uL	98
43	Dibenz[a,h]anthracene	29.76	278	106327	0.7291	ng/uL	67
44	Benzo[ghi]perylene	30.14	276	429668	2.6875	ng/uL	97



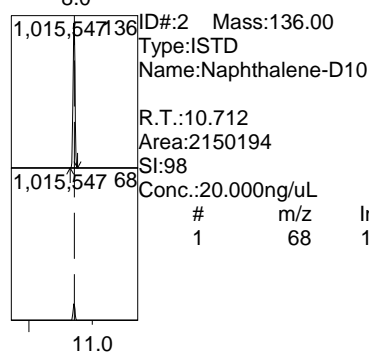
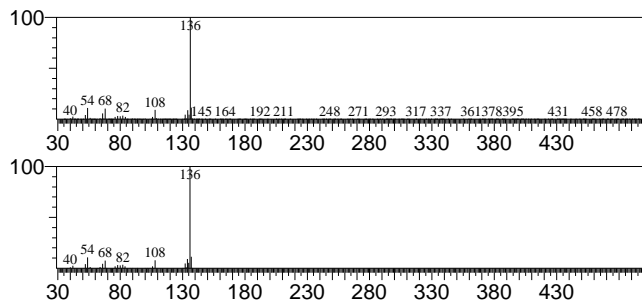
ID#:1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.966
 Area:535132
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	164012	65.42	67.59
2	150	386162	154.02	156.27

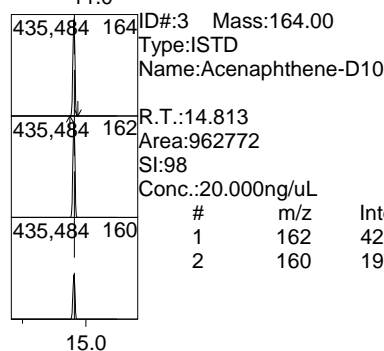
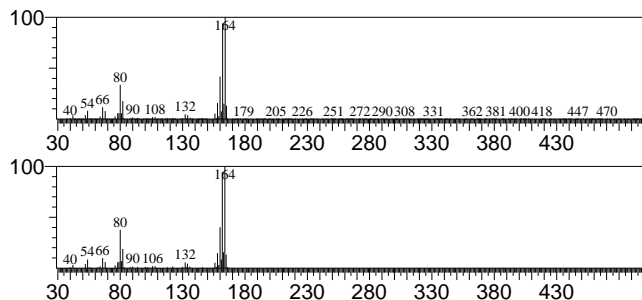
ID#:2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.712
 Area:2150194
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	112003	11.18	10.57

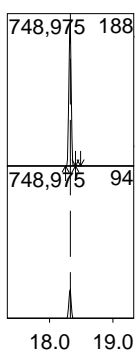
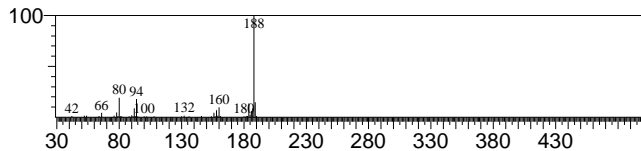
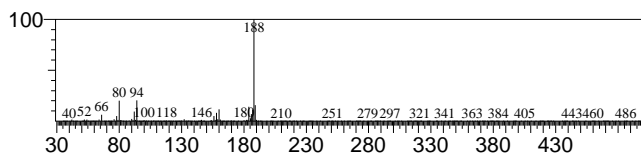
ID#:3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.813
 Area:962772
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	423856	99.57	99.35
2	160	195394	45.90	45.34

ID#:4 R.Time:18.3(Scan#:3773)

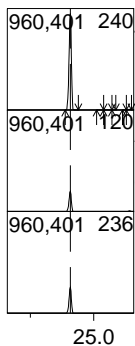
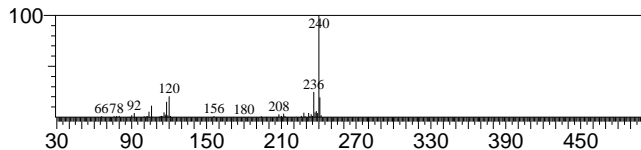
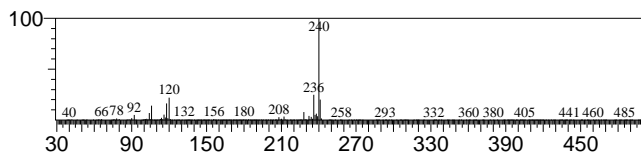


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.324
Area:1830481
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	144635	19.81	19.68

ID#5 R.Time:24.6(Scan#:5265)

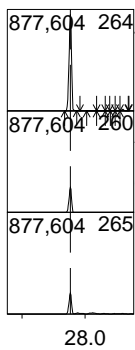
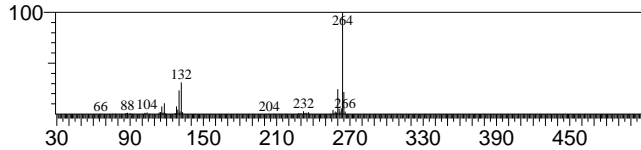
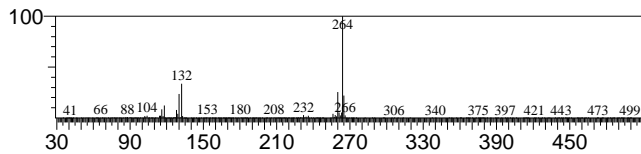


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.632
Area:2410064
SI:98

#	m/z	Intensity	Ratio	Setting
1	120	193626	21.18	21.03
2	236	247972	27.12	27.55

ID#6 R.Time:27.8(Scan#:6017)

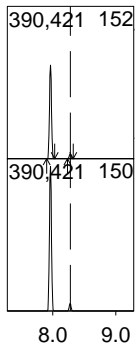
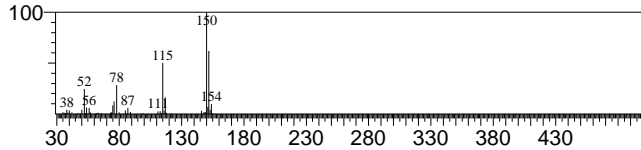
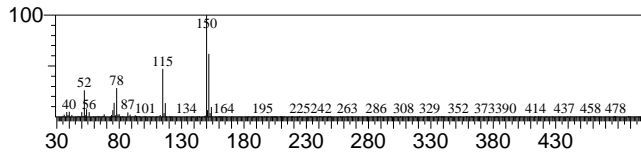


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.768
Area:2341264
SI:98

#	m/z	Intensity	Ratio	Setting
1	260	210254	26.24	26.18
2	265	176396	22.02	21.61

ID#7 R.Time:8.3(Scan#:1411)

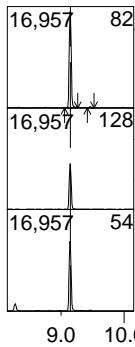
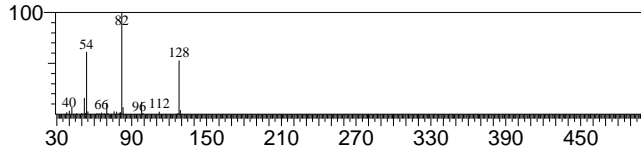
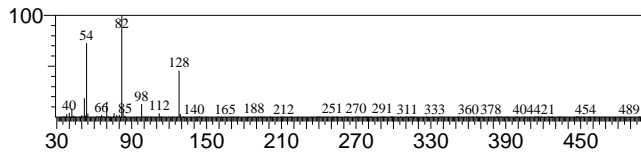


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:26057
SI:96

#	m/z	Intensity	Ratio	Setting
1	150	19811	158.13	155.04

ID#8 R.Time:9.1(Scan#:1619)

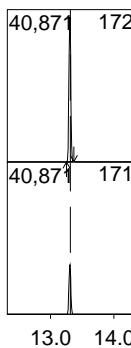
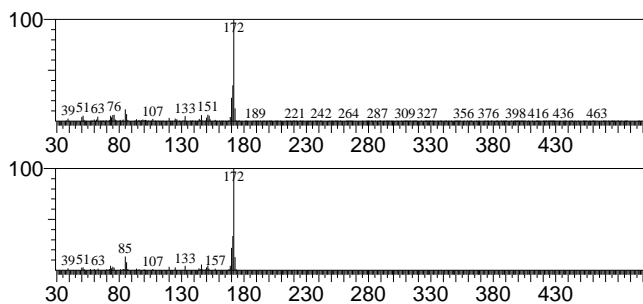


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:36753
SI:96

#	m/z	Intensity	Ratio	Setting
1	128	7877	46.81	47.90
2	54	12280	72.98	69.01

ID#:9 R.Time:13.3(Scan#:2619)



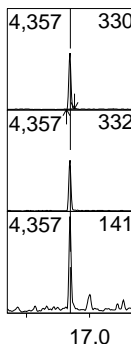
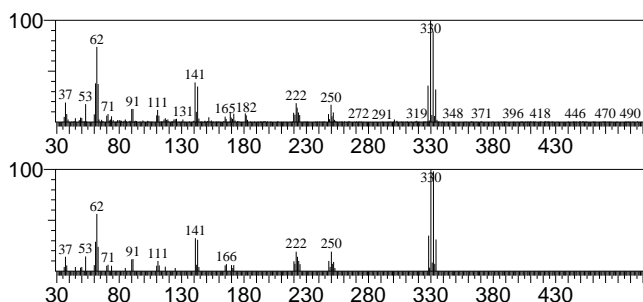
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.305
Area:85155
SI:96

Conc.:1.046ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	13912	34.27	33.54

ID#:10 R.Time:16.7(Scan#:3409)



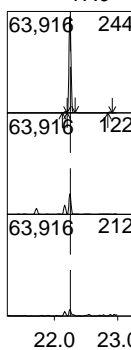
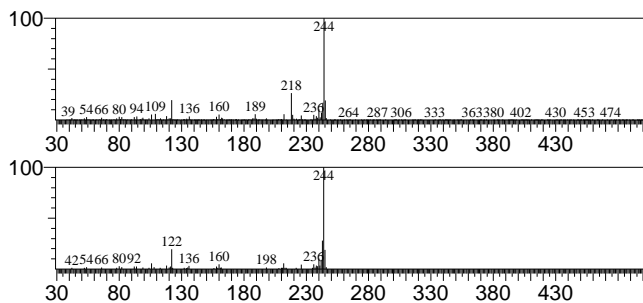
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.688
Area:5724
SI:96

Conc.:0.928ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	2273	89.95	88.80
2	141	4091	161.89	153.10

ID#:11 R.Time:22.3(Scan#:4693)



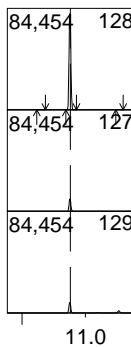
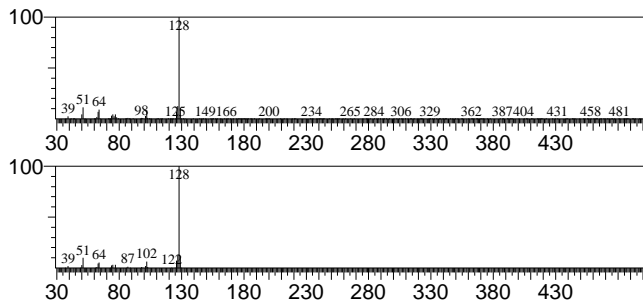
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.246
Area:139194
SI:96

Conc.:1.438ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	12880	20.74	20.49
2	212	3838	6.18	6.58

ID#:17 R.Time:10.8(Scan#:2007)



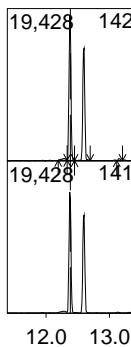
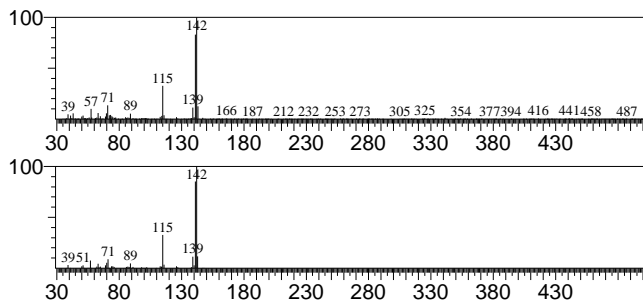
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:168183
SI:97

Conc.:1.308ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	10886	12.67	12.65
2	129	9059	10.54	10.06

ID#:18 R.Time:12.4(Scan#:2395)



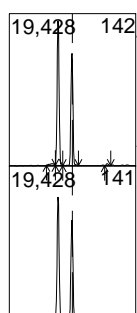
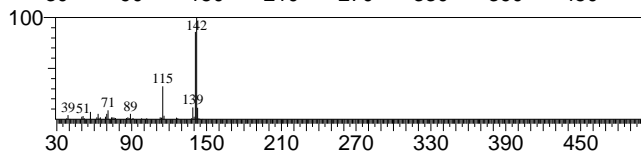
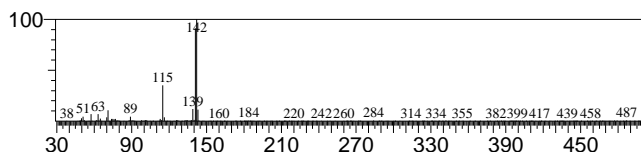
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.377
Area:40062
SI:97

Conc.:0.482ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	16203	83.62	83.64

ID#:19 R.Time:12.6(Scan#:2449)



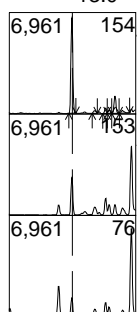
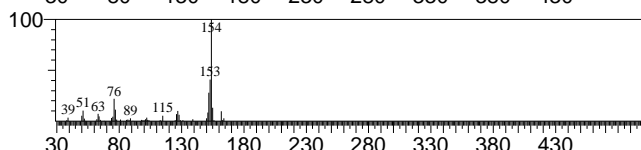
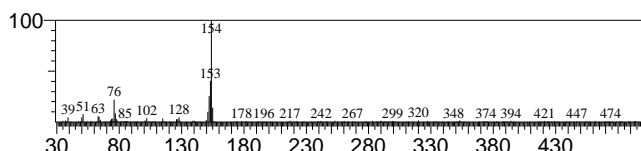
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.596
Area:32006
SI:96

Conc.:0.390ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	13101	87.43	87.02

ID#:20 R.Time:13.5(Scan#:2669)



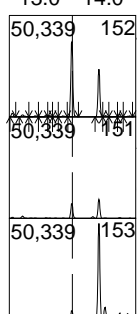
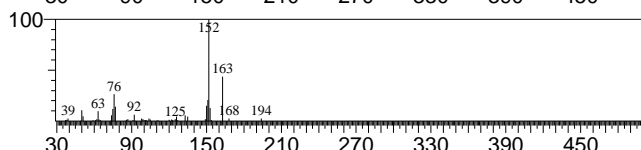
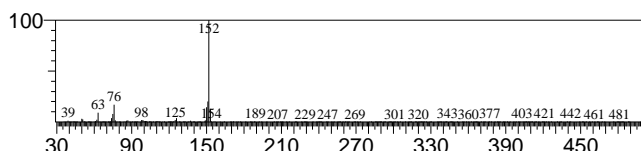
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.513
Area:14413
SI:93

Conc.:0.150ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	2682	38.95	38.33
2	76	1283	18.63	21.10

ID#:22 R.Time:14.5(Scan#:2895)



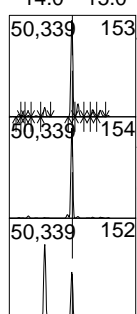
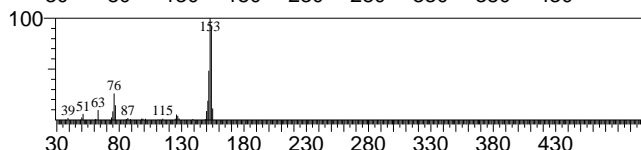
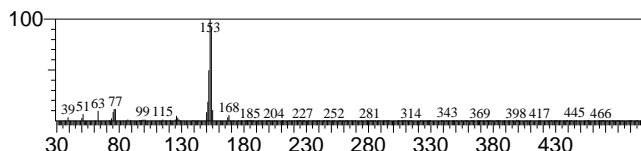
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.455
Area:84367
SI:84

Conc.:0.692ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	7610	19.63	19.84
2	153	4826	12.45	12.50

ID#:23 R.Time:14.9(Scan#:2997)



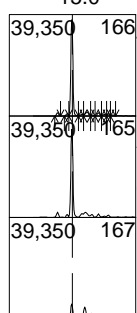
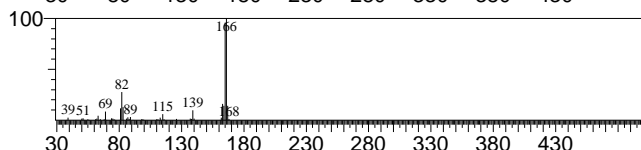
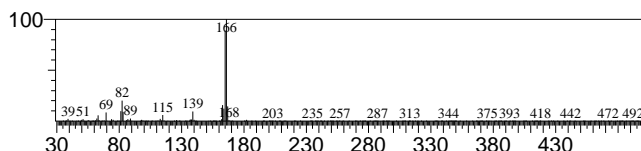
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.884
Area:102279
SI:98

Conc.:1.310ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	46759	92.21	94.93
2	152	25107	49.51	49.24

ID#:24 R.Time:16.1(Scan#:3281)



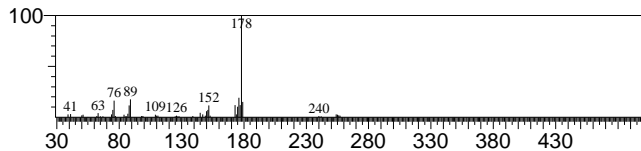
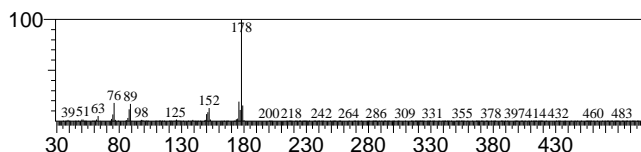
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.113
Area:88159
SI:97

Conc.:1.038ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	36015	91.08	91.21
2	167	5914	14.96	13.28

ID#:29 R.Time:18.4(Scan#:3785)



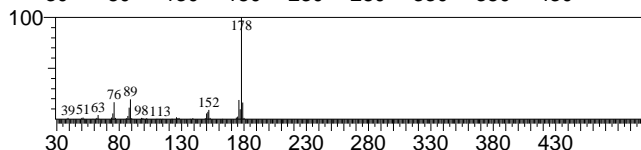
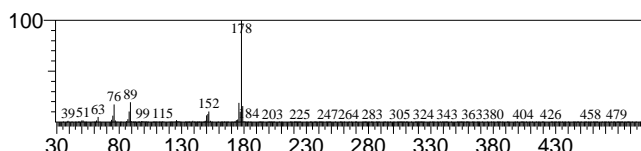
ID#:29 Mass:178.00
 Type:Target
 Name:Phenanthrene
 R.T.:18.379
 Area:1413534
 SI:92
 Conc.:10.966ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	124374	19.38	19.27
2	179	92089	14.35	14.18

ID#:30 Mass:178.00
 Type:Target
 Name:Anthracene
 R.T.:18.489
 Area:245535
 SI:98
 Conc.:1.906ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	19380	18.28	18.61
2	179	15446	14.57	14.75

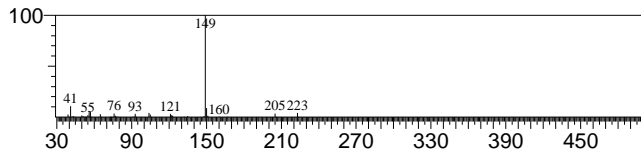
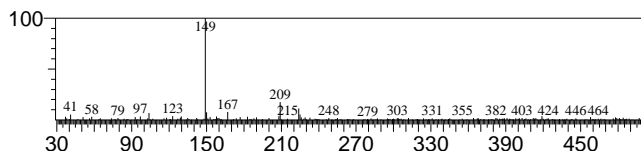
ID#:30 R.Time:18.5(Scan#:3809)



ID#:30 Mass:178.00
 Type:Target
 Name:Anthracene
 R.T.:18.489
 Area:245535
 SI:98
 Conc.:1.906ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	19380	18.28	18.61
2	179	15446	14.57	14.75

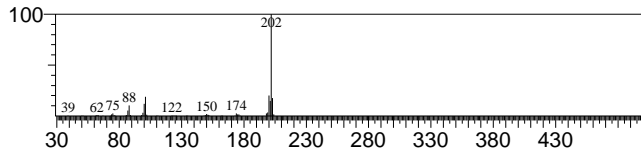
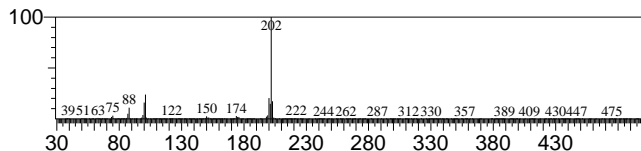
ID#:31 R.Time:20.0(Scan#:4153)



ID#:31 Mass:149.00
 Type:Target
 Name:Di-n-butylphthalate
 R.T.:20.004
 Area:7118
 SI:84
 Conc.:0.041ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	281	8.63	8.88
2	104	176	* 5.40	4.02

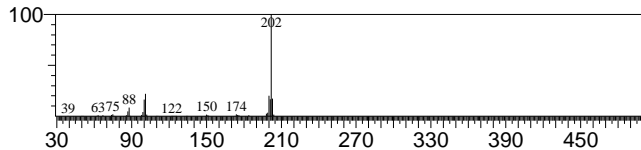
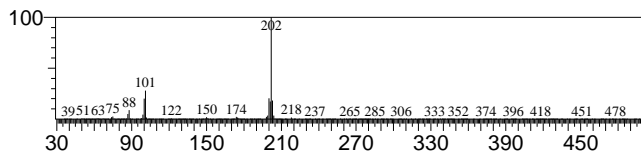
ID#:32 R.Time:21.2(Scan#:4443)



ID#:32 Mass:202.00
 Type:Target
 Name:Fluoranthene
 R.T.:21.205
 Area:1847554
 SI:98
 Conc.:12.351ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	164424	20.97	20.51

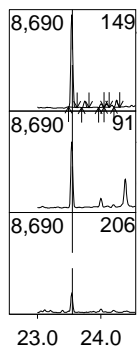
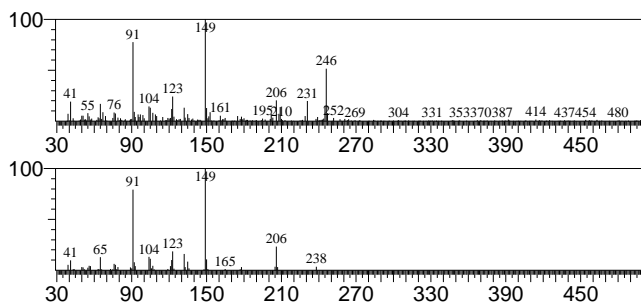
ID#:33 R.Time:21.7(Scan#:4565)



ID#:33 Mass:202.00
 Type:Target
 Name:Pyrene
 R.T.:21.715
 Area:1721953
 SI:98
 Conc.:10.434ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	177044	24.69	23.49
2	100	126421	17.63	16.96

ID#:34 R.Time:23.5(Scan#:5003)

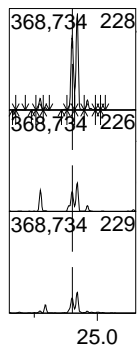
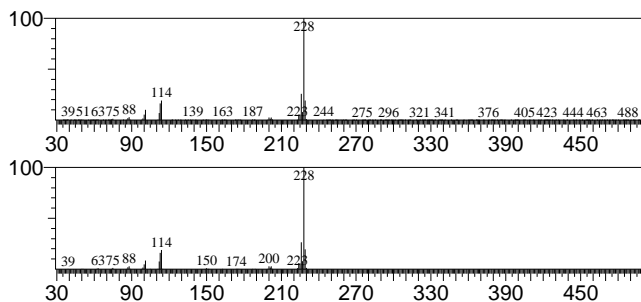


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.543
Area:17808
SI:93
Conc.:0.220ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	5847	71.21	69.36
2	206	1563	19.04	19.97

ID#:35 R.Time:24.6(Scan#:5257)

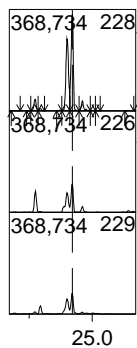
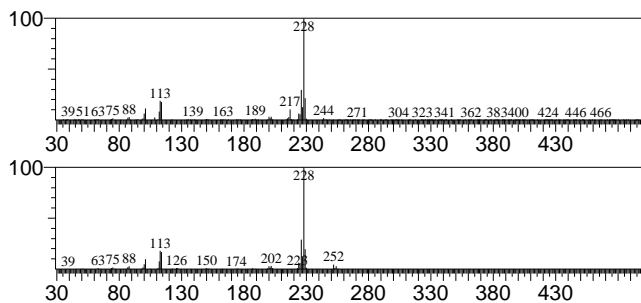


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.602
Area:791753
SI:99
Conc.:4.745ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	62999	26.76	26.21
2	229	46529	19.76	19.36

ID#:36 R.Time:24.7(Scan#:5277)

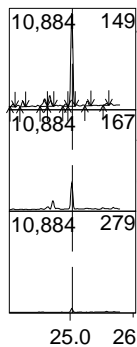
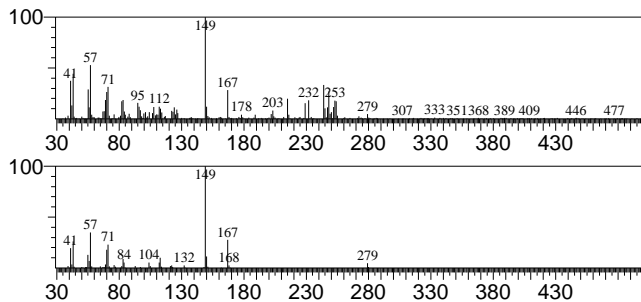


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.681
Area:861059
SI:96
Conc.:5.430ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	102784	29.61	29.42
2	229	73277	21.11	19.66

ID#:37 R.Time:25.0(Scan#:5359)

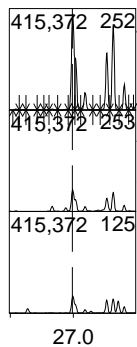
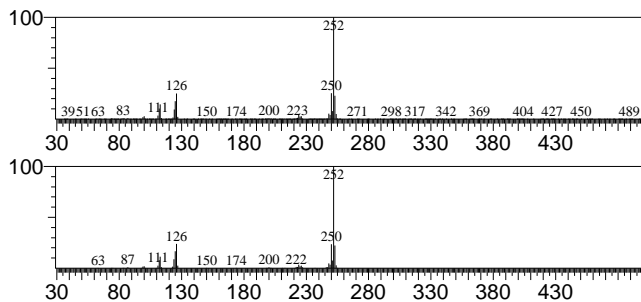


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.028
Area:23159
SI:87
Conc.:0.196ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	2839	27.89	29.29
2	279	410	4.03	4.16

ID#:39 R.Time:27.0(Scan#:5831)

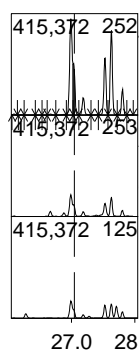
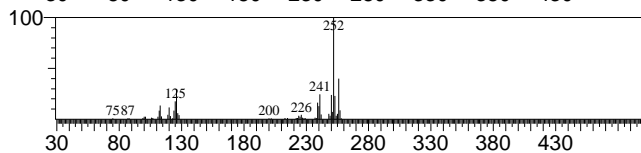
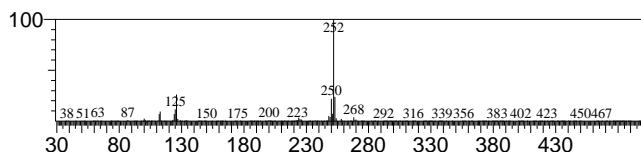


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.991
Area:1237942
SI:98
Conc.:6.678ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	62255	22.08	20.50
2	125	49083	17.41	14.60

ID#:40 R.Time:27.0(Scan#:5841)

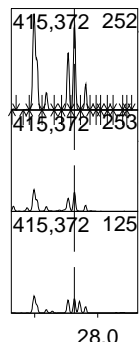
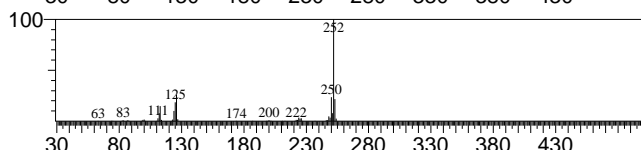
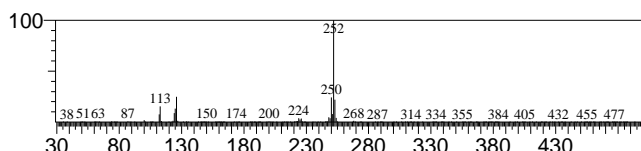


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.031
Area:356952
SI:81
Conc.:2.032ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	16969	22.23	20.19
2	125	10348	13.56	14.03

ID#:41 R.Time:27.6(Scan#:5985)

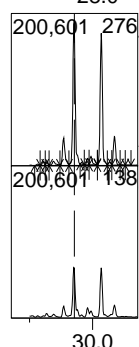
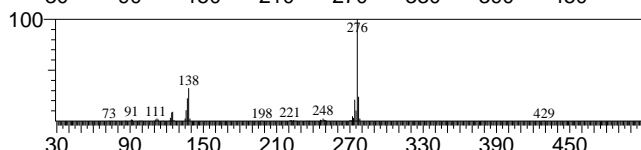
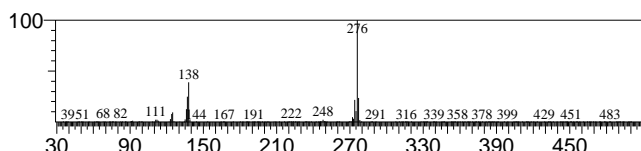


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.630
Area:852717
SI:97
Conc.:5.231ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	76136	21.78	21.99
2	125	47415	13.56	17.18

ID#:42 R.Time:29.7(Scan#:6483)

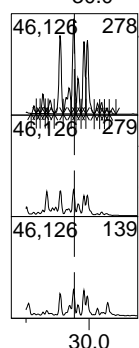
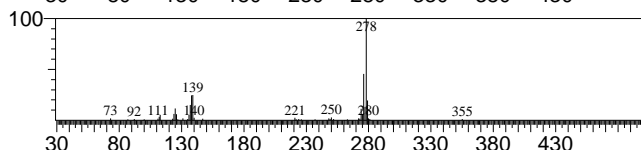
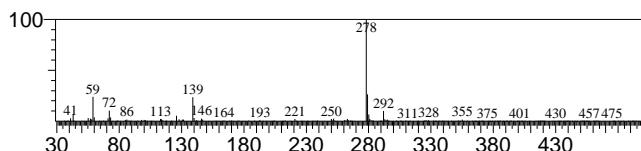


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.705
Area:511358
SI:98
Conc.:3.358ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	63731	33.28	32.23

ID#:43 R.Time:29.8(Scan#:6495)

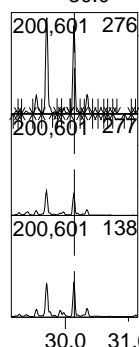
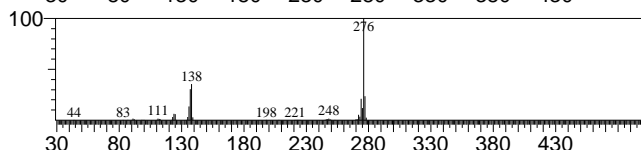
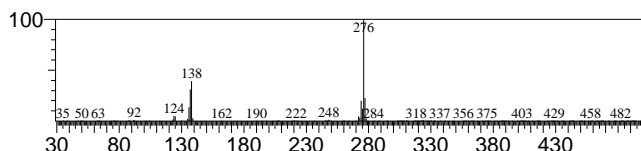


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.756
Area:106327
SI:67
Conc.:0.729ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	10751	26.22	23.98
2	139	10792	26.32	28.79

ID#:44 R.Time:30.1(Scan#:6585)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.136
Area:429668
SI:97
Conc.:2.688ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	41768	23.81	23.18
2	138	65199	37.17	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415853.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 10:08:40 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-13
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 38
 Injection Volume : 1

Internal Standard

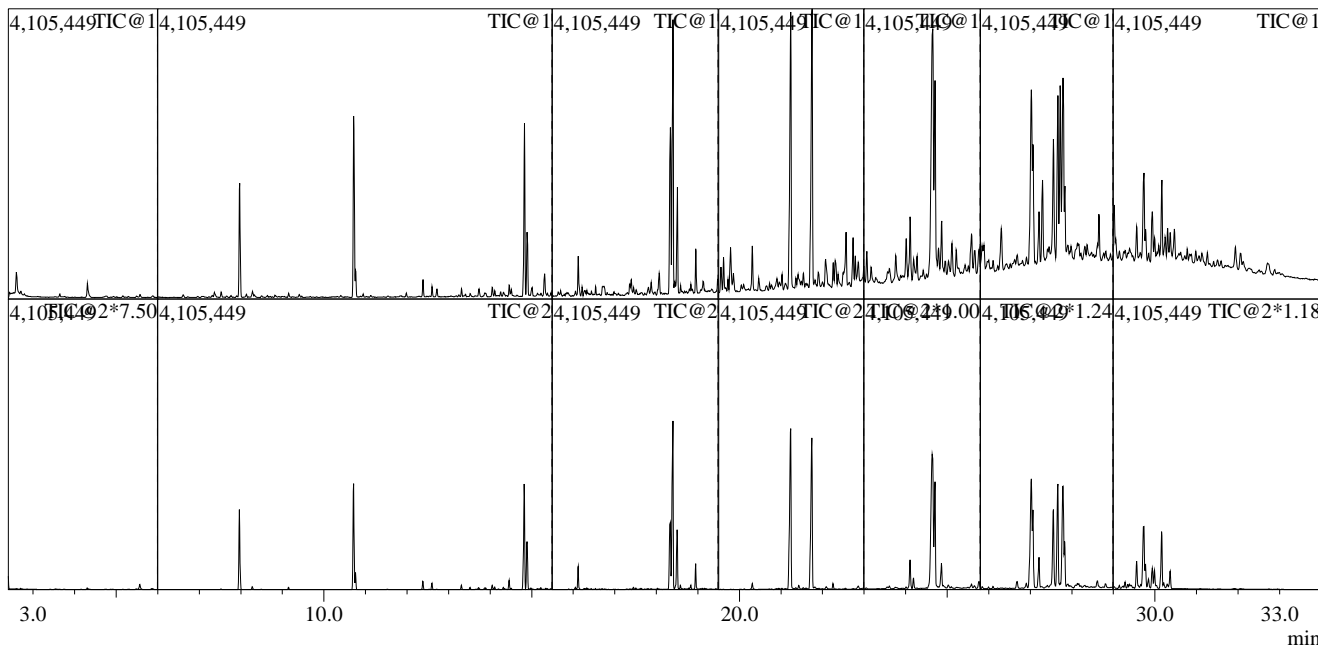
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	566367	20.0000	ng/uL	114.80
2	Naphthalene-D10	10.71	136	2274471	20.0000	ng/uL	115.45
3	Acenaphthene-D10	14.82	164	1036360	20.0000	ng/uL	109.93
4	Phenanthrene-D10	18.33	188	1941660	20.0000	ng/uL	112.03
5	Chrysene-D12	24.65	240	2455130	20.0000	ng/uL	105.88
6	Perylene-D12	27.78	264	2224425	20.0000	ng/uL	95.07
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

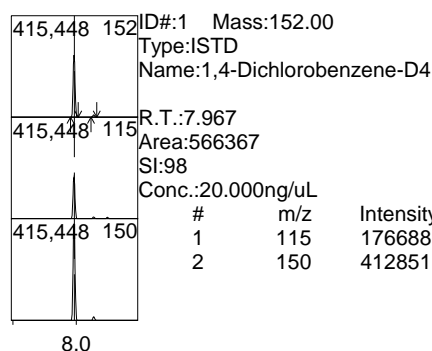
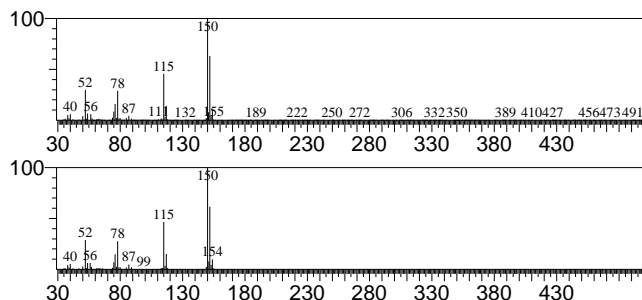
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	20697	0.70	ng/uL	27.9000
8	Nitrobenzene-D5 (Surr)	9.15	82	27925	0.72	ng/uL	28.6900
9	2-Fluorobiphenyl (Surr)	13.31	172	72807	0.83	ng/uL	33.2500
10	2,4,6-Tribromophenol (Surr)	16.69	330	4871	0.61	ng/uL	16.1600
11	Terphenyl-D14 (Surr)	22.25	244	127175	1.29	ng/uL	51.5700
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	324508	2.3856	ng/uL	98
18	2-Methylnaphthalene	12.38	142	100512	1.1422	ng/uL	94
19	1-Methylnaphthalene	12.60	142	77962	0.8988	ng/uL	97
20	Biphenyl	13.51	154	28533	0.2756	ng/uL	93
22	Acenaphthylene	14.46	152	149289	1.1377	ng/uL	83
23	Acenaphthene	14.89	153	418050	4.9749	ng/uL	99
24	Fluorene	16.12	166	292799	3.2013	ng/uL	98
29	Phenanthrene	18.39	178	3211193	23.4865	ng/uL	92
30	Anthracene	18.50	178	1039174	7.6039	ng/uL	98
31	Di-n-butylphthalate	20.01	149	8825	0.0477	ng/uL	81
32	Fluoranthene	21.23	202	4666894	29.4121	ng/uL	98
33	Pyrene	21.74	202	4278378	25.4475	ng/uL	97
34	Butylbenzylphthalate	23.55	149	18634	0.2260	ng/uL	92
35	Benz[a]anthracene	24.62	228	2730504	16.0636	ng/uL	98
36	Chrysene	24.70	228	2368432	14.6607	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.04	149	37133	0.3087	ng/uL	90
39	Benzo[b]fluoranthene	27.02	252	3273741	18.5880	ng/uL	97
40	Benzo[k]fluoranthene	27.06	252	1066956	6.3942	ng/uL	81
41	Benzo[a]pyrene	27.66	252	2279669	14.7203	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.73	276	1274487	8.8098	ng/uL	98
43	Dibenz[a,h]anthracene	29.77	278	316387	2.2833	ng/uL	67
44	Benzo[ghi]perylene	30.16	276	1034798	6.8125	ng/uL	97



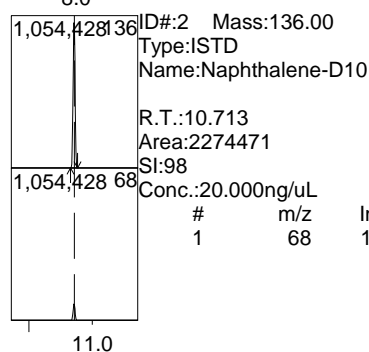
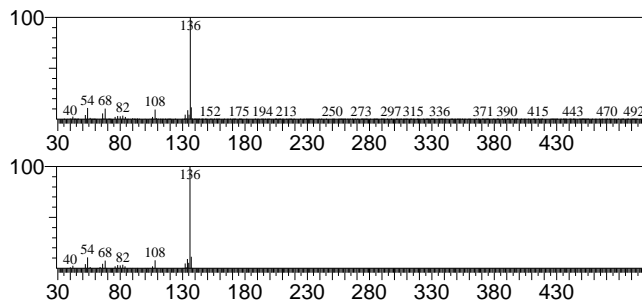
ID#1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:566367
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	66.32	67.59	
2	150	412851	154.97	156.27

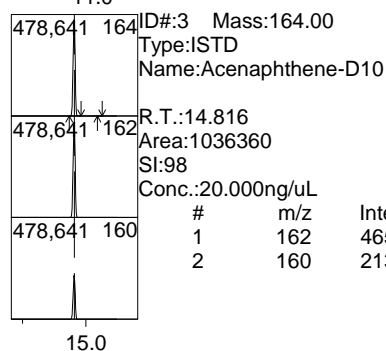
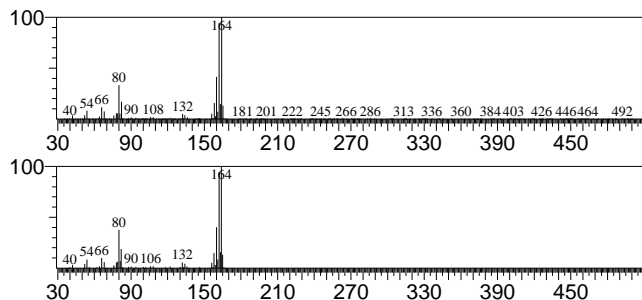
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.713
 Area:2274471
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	114279	11.11	10.57

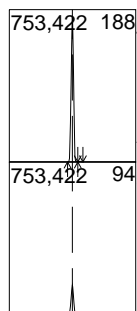
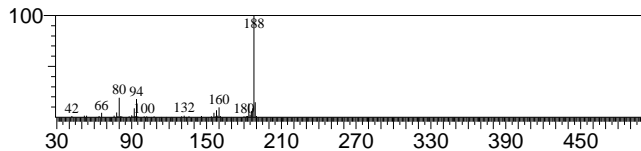
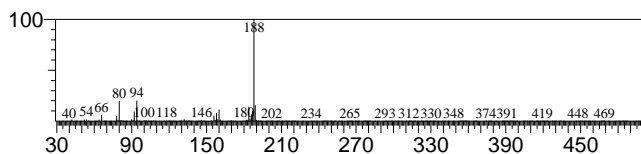
ID#3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.816
 Area:1036360
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	465599	98.51	99.35
2	160	213441	45.16	45.34

ID#:4 R.Time:18.3(Scan#:3773)

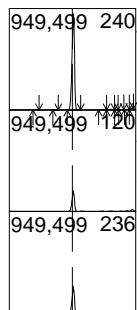
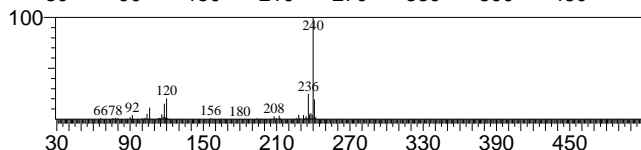
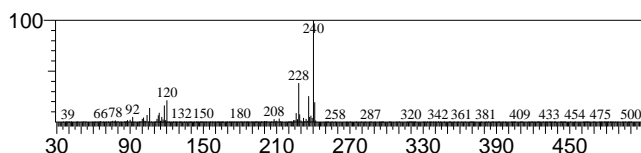


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.329
Area:1941660
SI:97

#	m/z	Intensity	Ratio	Setting
1	94	141708	20.10	19.68

ID#5 R.Time:24.7(Scan#:5269)

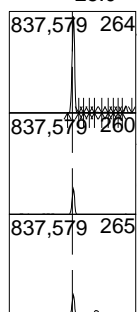
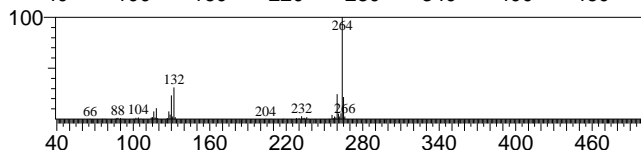
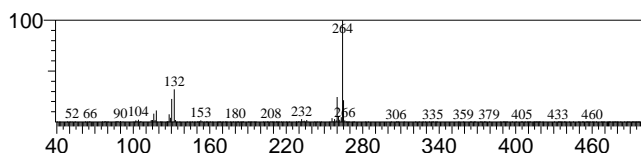


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.649
Area:2455130
SI:93

#	m/z	Intensity	Ratio	Setting
1	120	188198	20.69	21.03
2	236	240770	26.47	27.55

ID#6 R.Time:27.8(Scan#:6021)

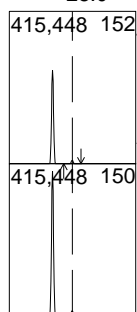
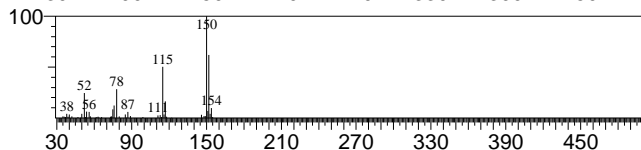
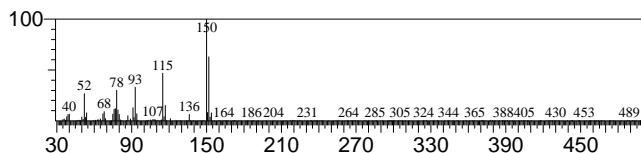


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.784
Area:2224425
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	200598	26.30	26.18
2	265	163113	21.39	21.61

ID#7 R.Time:8.3(Scan#:1411)

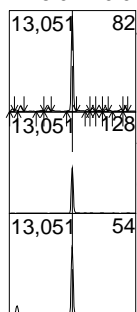
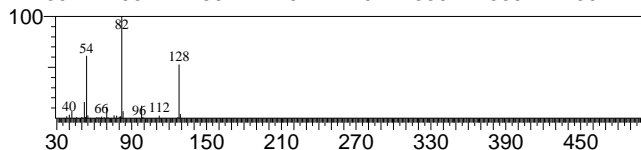
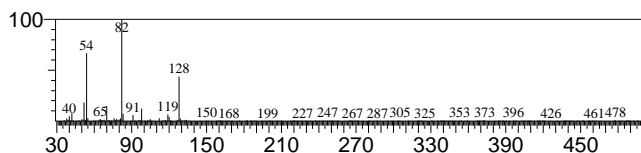


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.278
Area:20697
SI:94

#	m/z	Intensity	Ratio	Setting
1	150	15190	159.21	155.04

ID#8 R.Time:9.2(Scan#:1621)

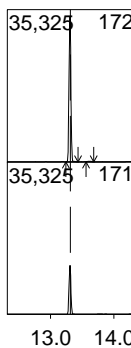
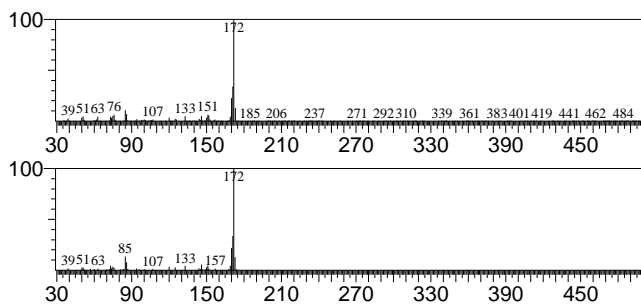


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.147
Area:27925
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	6041	46.91	47.90
2	54	8732	67.81	69.01

ID#:9 R.Time:13.3(Scan#:2619)



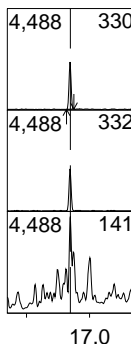
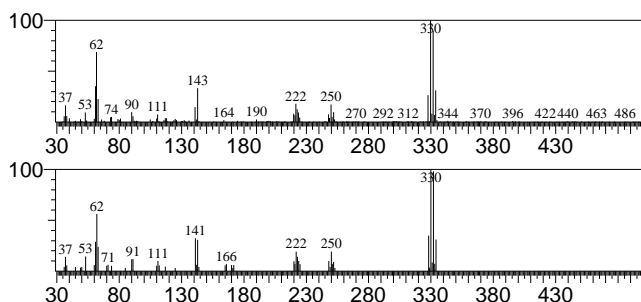
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:72807
SI:96

Conc.:0.831ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	11984	33.75	33.54

ID#:10 R.Time:16.7(Scan#:3409)



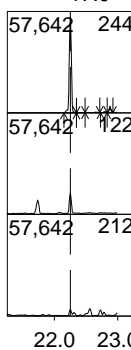
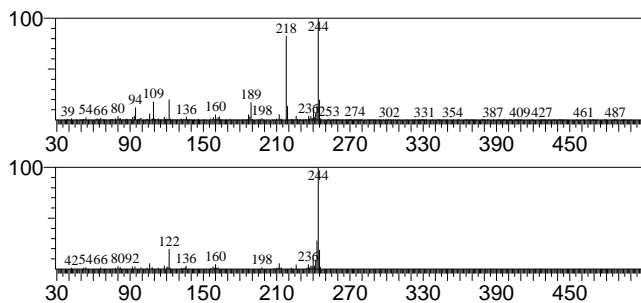
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.690
Area:4871
SI:92

Conc.:0.606ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	1926	86.87	88.80
2	141	1867	* 84.21	153.10

ID#:11 R.Time:22.3(Scan#:4693)



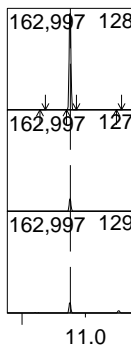
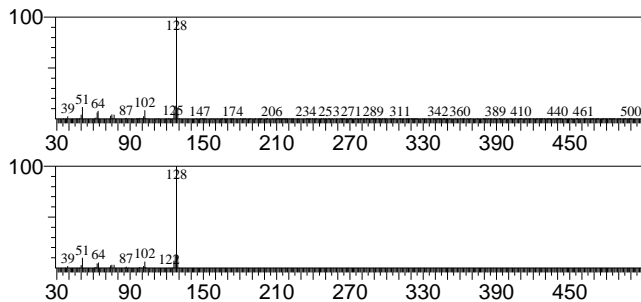
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.252
Area:127175
SI:95

Conc.:1.289ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	11930	21.05	20.49
2	212	3635	6.41	6.58

ID#:17 R.Time:10.8(Scan#:2007)



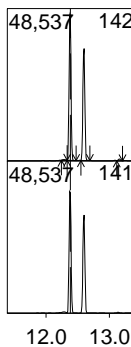
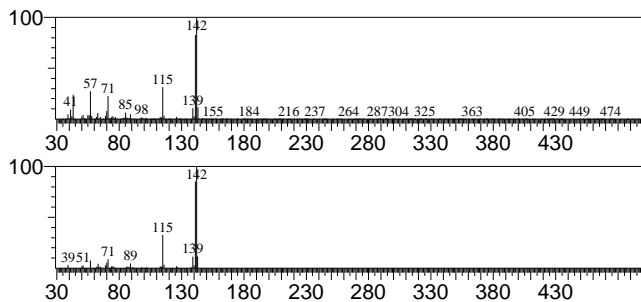
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.758
Area:324508
SI:98

Conc.:2.386ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	20969	12.60	12.65
2	129	17828	10.72	10.06

ID#:18 R.Time:12.4(Scan#:2395)



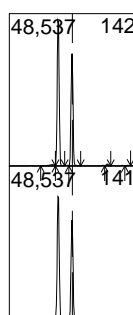
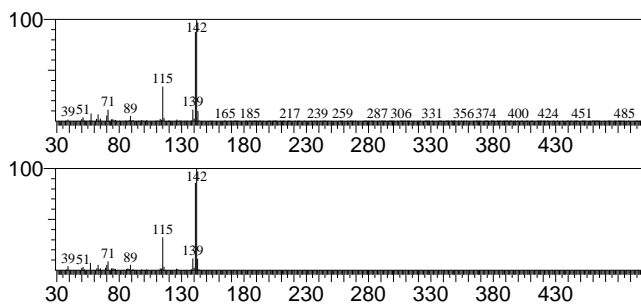
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.379
Area:100512
SI:94

Conc.:1.142ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	40611	83.81	83.64

ID#:19 R.Time:12.6(Scan#:2449)



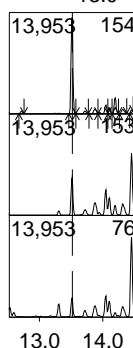
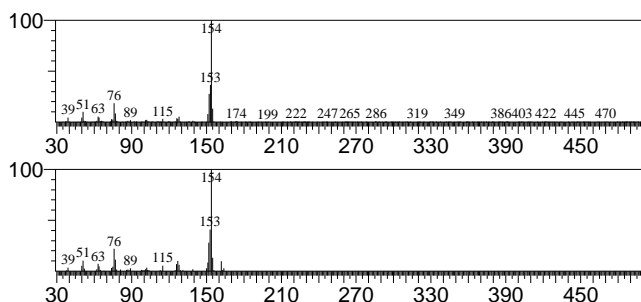
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.598
Area:77962
SI:97

Conc.:0.899ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	33052	87.61	87.02

ID#:20 R.Time:13.5(Scan#:2669)



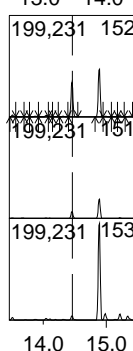
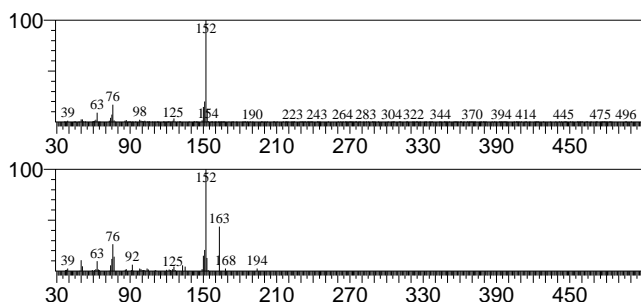
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.515
Area:28533
SI:93

Conc.:0.276ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	5374	38.42	38.33
2	76	2612	18.68	21.10

ID#:22 R.Time:14.5(Scan#:2895)



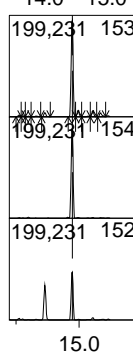
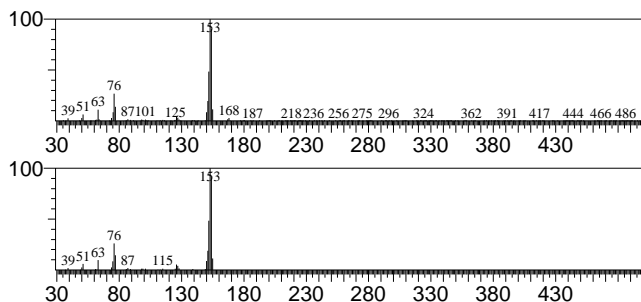
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.457
Area:149289
SI:83

Conc.:1.138ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	14047	19.60	19.84
2	153	8842	12.34	12.50

ID#:23 R.Time:14.9(Scan#:2999)



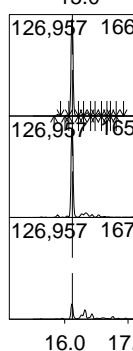
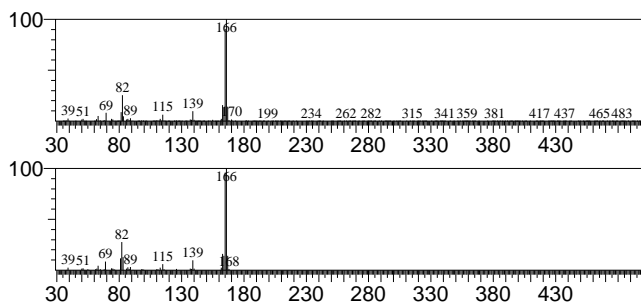
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.888
Area:418050
SI:99

Conc.:4.975ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	184129	92.86	94.93
2	152	98268	49.56	49.24

ID#:24 R.Time:16.1(Scan#:3283)



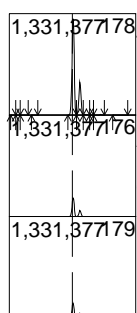
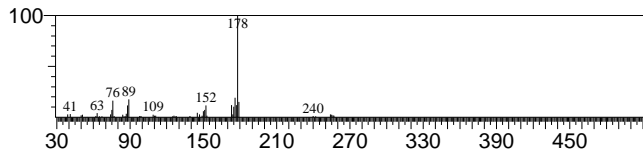
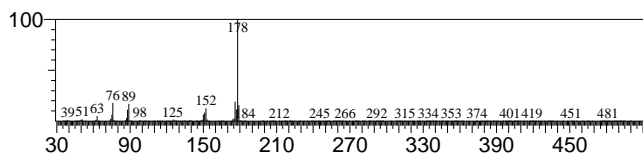
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.117
Area:292799
SI:98

Conc.:3.201ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	116121	92.39	91.21
2	167	16797	13.36	13.28

ID#:29 R.Time:18.4(Scan#:3787)

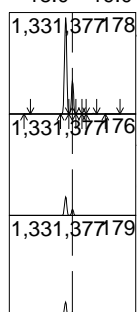
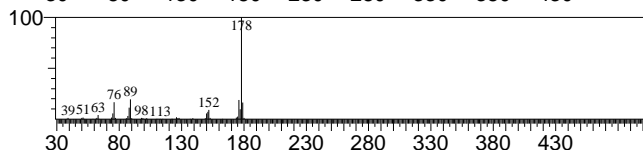
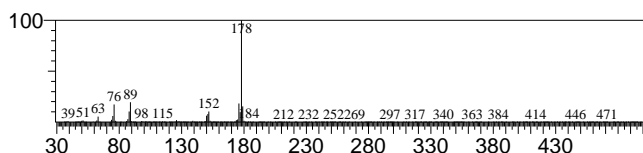


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.391
Area:3211193
SI:92
Conc.:23.486ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	249436	19.44	19.27
2	179	198754	15.49	14.18

ID#:30 R.Time:18.5(Scan#:3811)

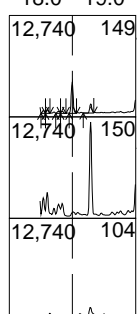
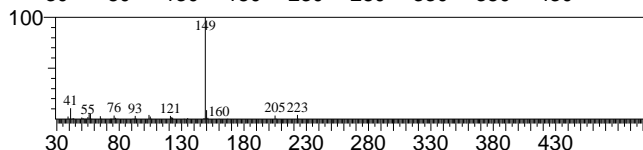
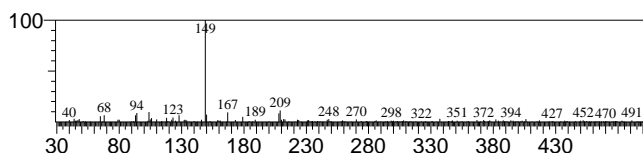


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.498
Area:1039174
SI:98
Conc.:7.604ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	83844	18.53	18.61
2	179	65471	14.47	14.75

ID#:31 R.Time:20.0(Scan#:4155)

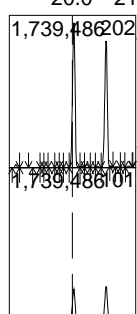
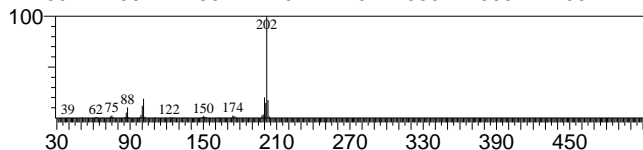
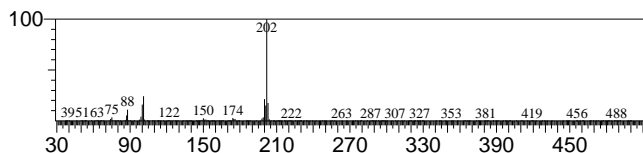


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.008
Area:8825
SI:81
Conc.:0.048ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	373	9.07	8.88
2	104	274	* 6.66	4.02

ID#:32 R.Time:21.2(Scan#:4447)

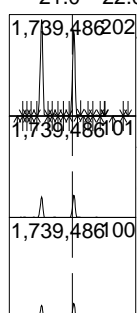
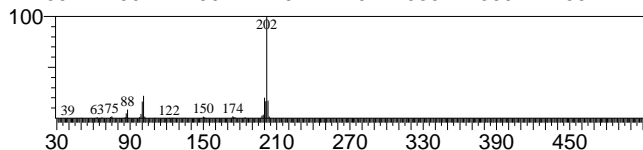
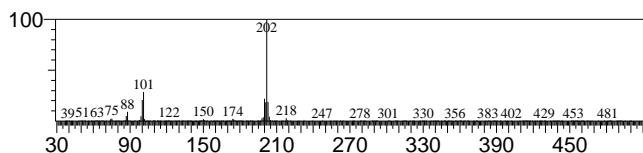


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.226
Area:4666894
SI:98
Conc.:29.412ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	337464	21.47	20.51

ID#:33 R.Time:21.7(Scan#:4569)

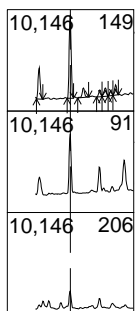
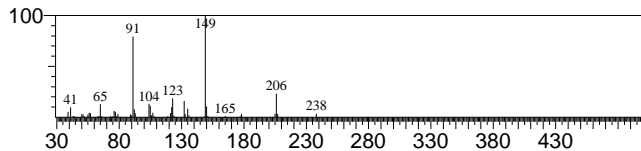
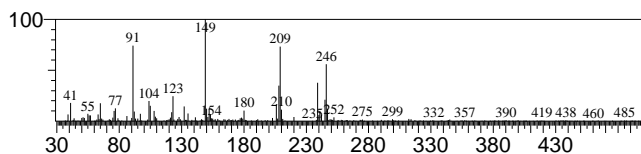


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.736
Area:4278378
SI:97
Conc.:25.448ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	350662	26.16	23.49
2	100	251471	18.76	16.96

ID#:34 R.Time:23.6(Scan#:5005)

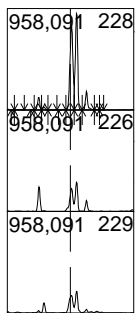
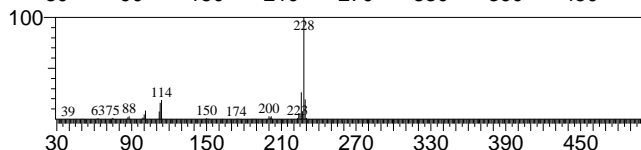
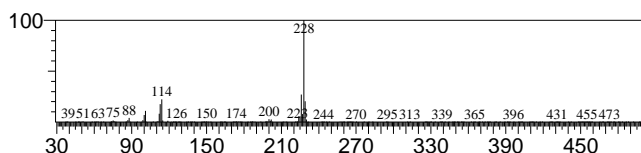


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.549
Area:18634
SI:92
Conc.:0.226ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	6212	71.63	69.36
2	206	1672	19.28	19.97

ID#:35 R.Time:24.6(Scan#:5263)

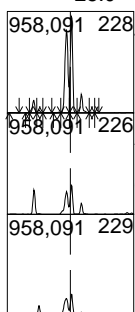
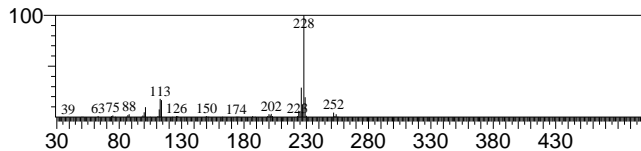
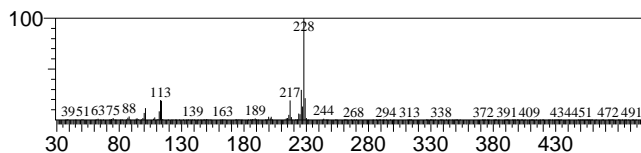


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.624
Area:2730504
SI:98
Conc.:16.064ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	166525	26.39	26.21
2	229	127734	20.25	19.36

ID#:36 R.Time:24.7(Scan#:5281)

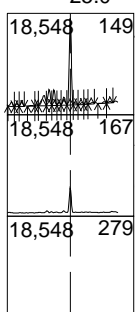
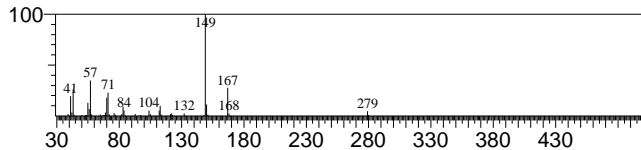
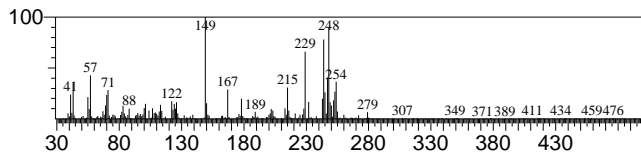


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.703
Area:2368432
SI:96
Conc.:14.661ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	226136	29.83	29.42
2	229	168755	22.26	19.66

ID#:37 R.Time:25.0(Scan#:5361)

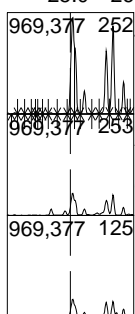
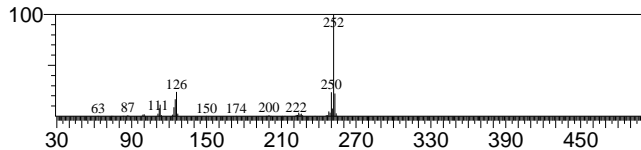
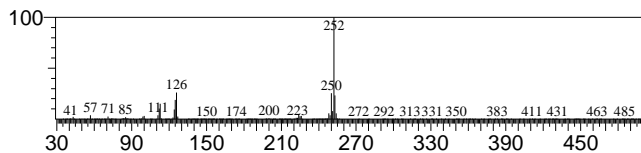


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.036
Area:37133
SI:90
Conc.:0.309ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	4551	28.29	29.29
2	279	657	4.08	4.16

ID#:39 R.Time:27.0(Scan#:5839)

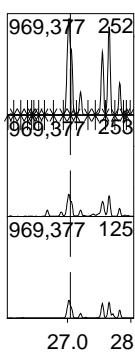
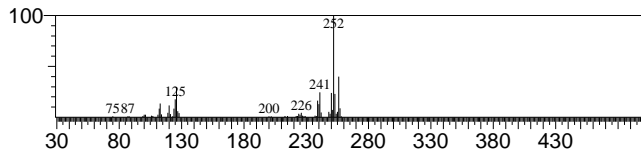
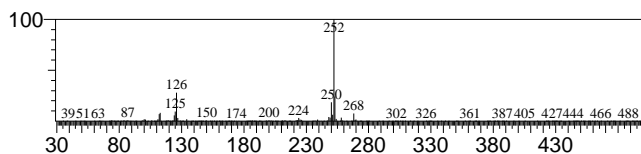


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.021
Area:3273741
SI:97
Conc.:18.588ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	121903	22.60	20.50
2	125	102059	18.92	14.60

ID#:40 R.Time:27.1(Scan#:5847)

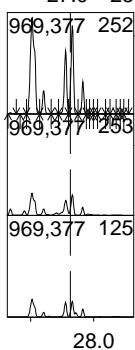
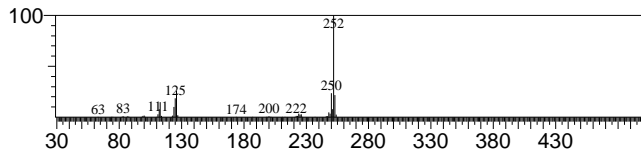
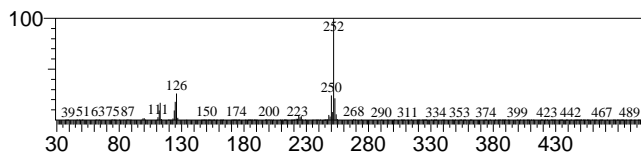


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.058
Area:1066956
SI:81
Conc.:6.394ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	44620	23.86	20.19
2	125	27098	14.49	14.03

ID#:41 R.Time:27.7(Scan#:5991)

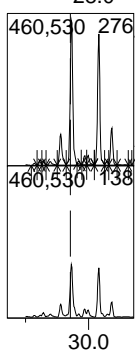
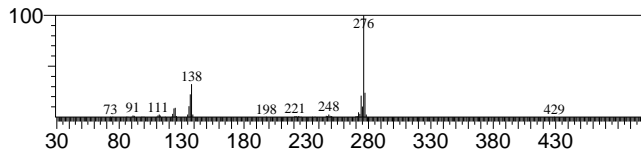
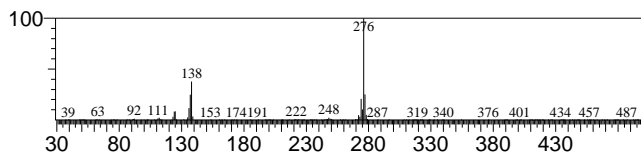


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.660
Area:2279669
SI:98
Conc.:14.720ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	181387	22.36	21.99
2	125	140088	17.27	17.18

ID#:42 R.Time:29.7(Scan#:6487)

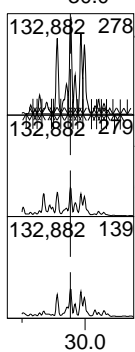
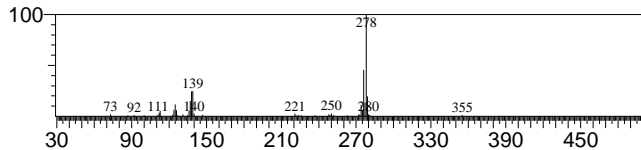
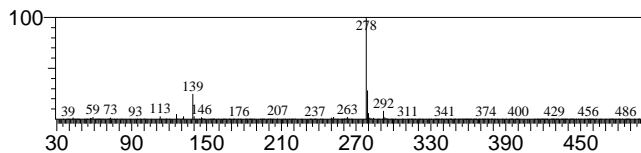


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.728
Area:1274487
SI:98
Conc.:8.810ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	149413	35.66	32.23

ID#:43 R.Time:29.8(Scan#:6499)

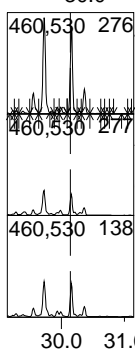
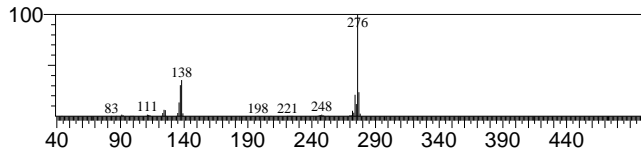
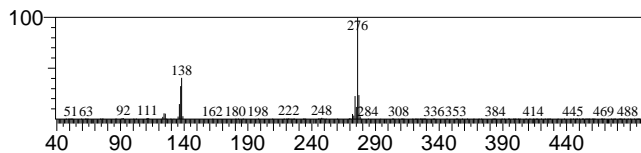


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.771
Area:316387
SI:67
Conc.:2.283ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	31766	27.54	23.98
2	139	29523	25.59	28.79

ID#:44 R.Time:30.2(Scan#:6591)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.160
Area:1034798
SI:97
Conc.:6.812ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	93597	23.79	23.18
2	138	148212	37.66	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415854.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 11:01:17 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-02
 Sample ID : 10
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 39
 Injection Volume : 1

Internal Standard

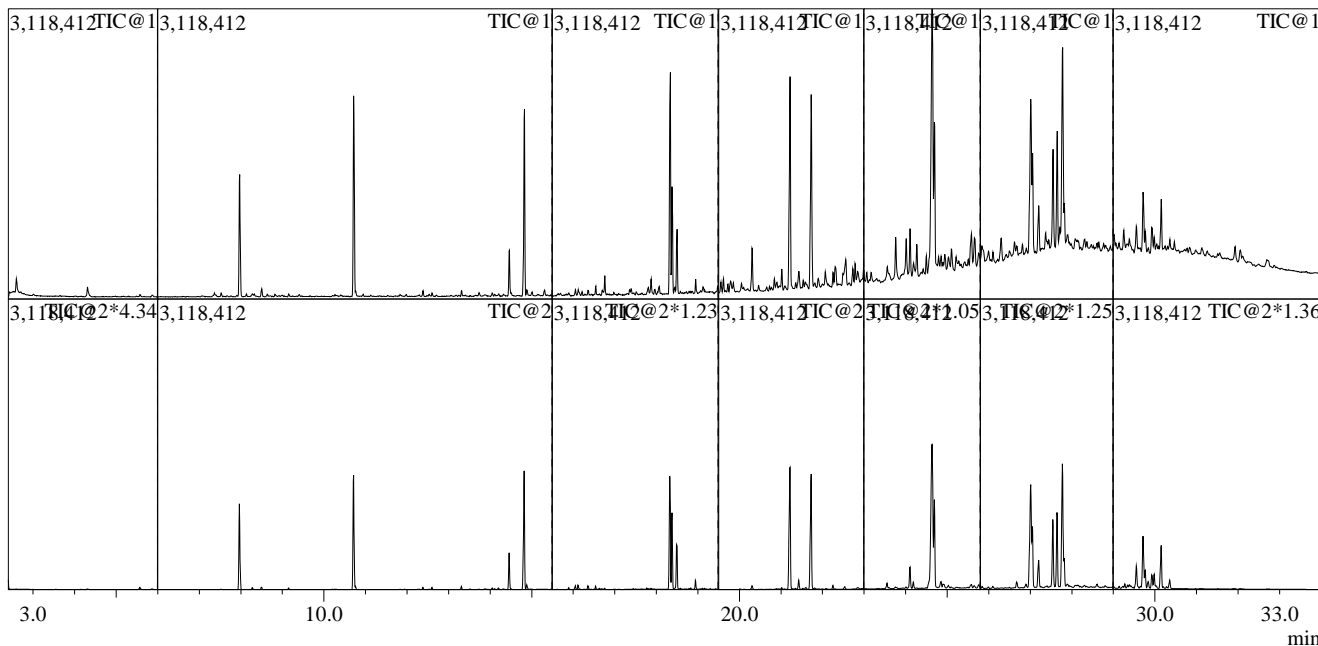
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	466450	20.0000	ng/uL	94.55
2	Naphthalene-D10	10.71	136	1838694	20.0000	ng/uL	93.33
3	Acenaphthene-D10	14.81	164	845329	20.0000	ng/uL	89.67
4	Phenanthrene-D10	18.32	188	1646256	20.0000	ng/uL	94.98
5	Chrysene-D12	24.64	240	2153220	20.0000	ng/uL	92.86
6	Perylene-D12	27.77	264	1912530	20.0000	ng/uL	81.74
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

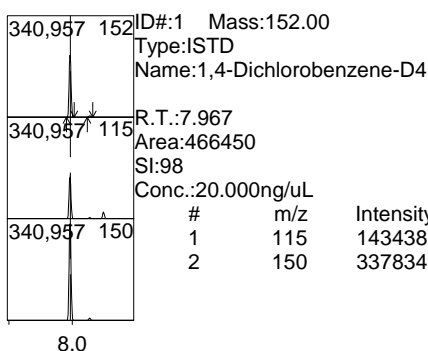
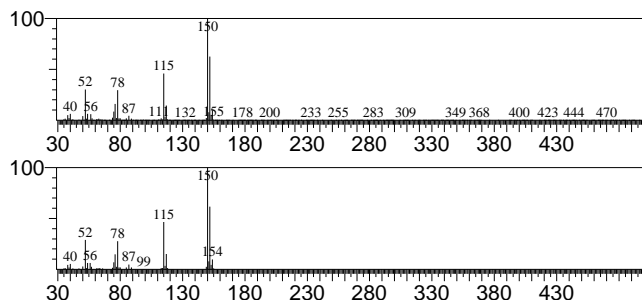
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	10529	0.43	ng/uL	17.2300
8	Nitrobenzene-D5 (Surr)	9.15	82	14692	0.47	ng/uL	18.6700
9	2-Fluorobiphenyl (Surr)	13.31	172	38481	0.54	ng/uL	21.5400
10	2,4,6-Tribromophenol (Surr)	16.69	330	2427	0.07	ng/uL	1.7800
11	Terphenyl-D14 (Surr)	22.25	244	62799	0.73	ng/uL	29.0400
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	44004	0.4002	ng/uL	96
18	2-Methylnaphthalene	12.38	142	21660	0.3045	ng/uL	89
19	1-Methylnaphthalene	12.60	142	18181	0.2593	ng/uL	95
20	Biphenyl	13.51	154	6539	0.0774	ng/uL	91
22	Acenaphthylene	14.46	152	458748	4.2859	ng/uL	83
23	Acenaphthene	14.88	153	27996	0.4084	ng/uL	93
24	Fluorene	16.12	166	35711	0.4787	ng/uL	95
29	Phenanthrene	18.38	178	746281	6.4377	ng/uL	90
30	Anthracene	18.49	178	488481	4.2157	ng/uL	98
31	Di-n-butylphthalate	20.01	149	12935	0.0824	ng/uL	86
32	Fluoranthene	21.21	202	2253143	16.7480	ng/uL	98
33	Pyrene	21.72	202	1923535	13.0453	ng/uL	98
34	Butylbenzylphthalate	23.55	149	52341	0.7237	ng/uL	96
35	Benz[a]anthracene	24.61	228	1248216	8.3729	ng/uL	98
36	Chrysene	24.69	228	1421614	10.0337	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	27990	0.2653	ng/uL	90
39	Benzo[b]fluoranthene	27.01	252	1998835	13.2000	ng/uL	97
40	Benzo[k]fluoranthene	27.04	252	744862	5.1919	ng/uL	66
41	Benzo[a]pyrene	27.64	252	1064526	7.9949	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.72	276	633221	5.0909	ng/uL	98
43	Dibenz[a,h]anthracene	29.76	278	162177	1.3613	ng/uL	68
44	Benzo[ghi]perylene	30.15	276	481872	3.6897	ng/uL	98



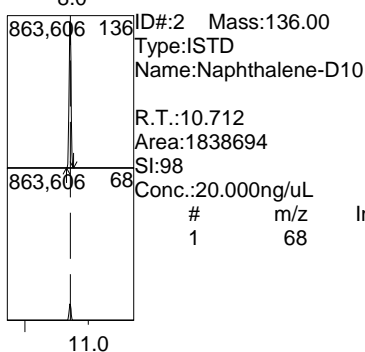
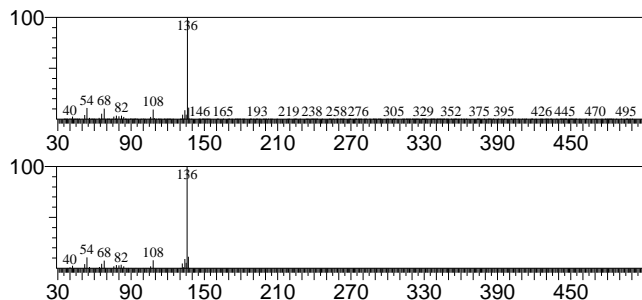
ID#1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:466450
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	143438	66.01	67.59
2	150	337834	155.46	156.27

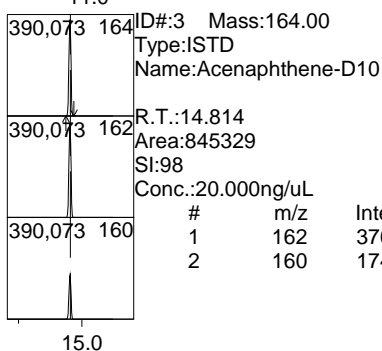
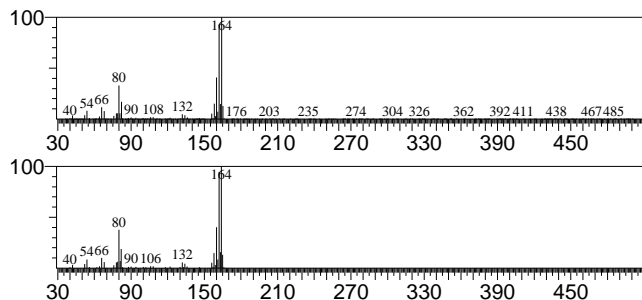
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.712
 Area:1838694
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	95059	11.17	10.57

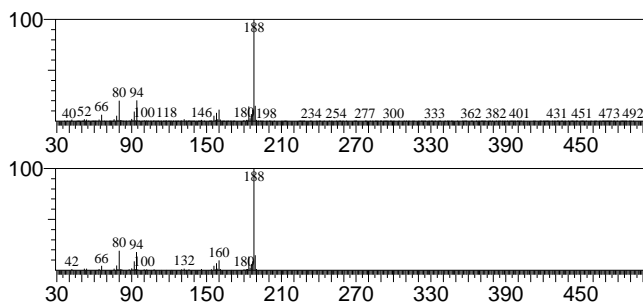
ID#3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.814
 Area:845329
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	376413	97.85	99.35
2	160	174086	45.25	45.34

ID#:4 R.Time:18.3(Scan#:3773)

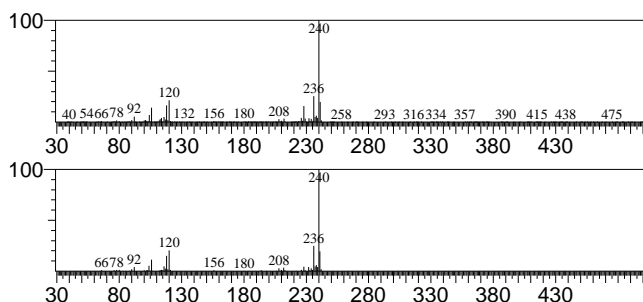


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.324
Area:1646256
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	133448	19.53	19.68

ID#5 R.Time:24.6(Scan#:5267)

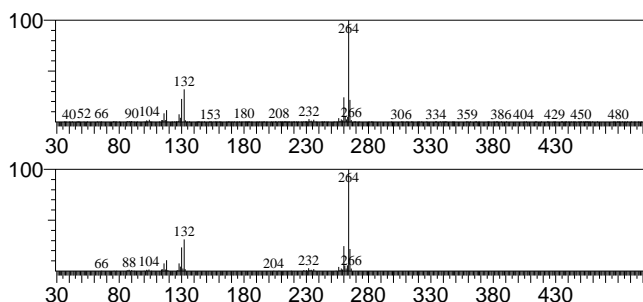


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.638
Area:2153220
SI:96
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	168835	20.47	21.03
2	236	216880	26.30	27.55

ID#6 R.Time:27.8(Scan#:6019)

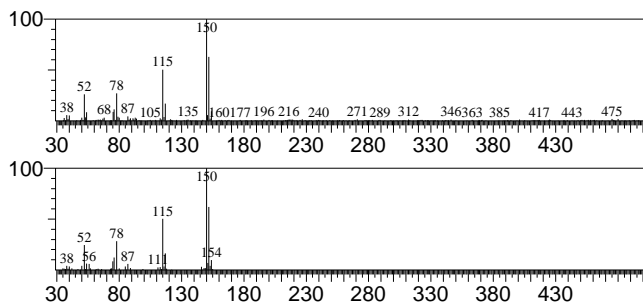


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.774
Area:1912530
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	179730	26.02	26.18
2	265	146122	21.15	21.61

ID#7 R.Time:8.3(Scan#:1411)

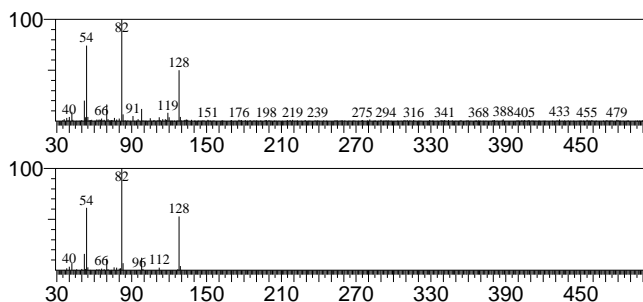


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.279
Area:10529
SI:94
Conc.:0.431ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	7865	157.87	155.04

ID#8 R.Time:9.2(Scan#:1621)

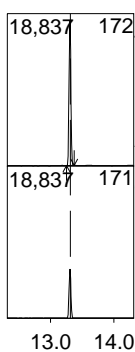
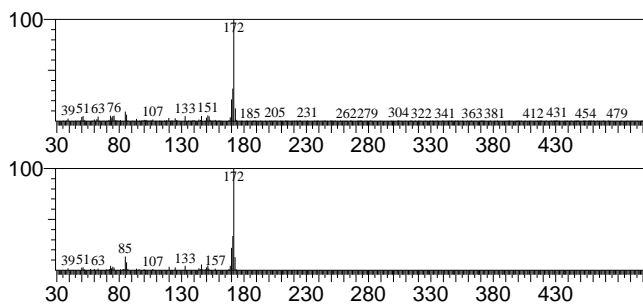


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.149
Area:14692
SI:96
Conc.:0.467ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	3209	46.62	47.90
2	54	4826	70.11	69.01

ID#:9 R.Time:13.3(Scan#:2619)



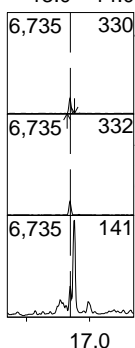
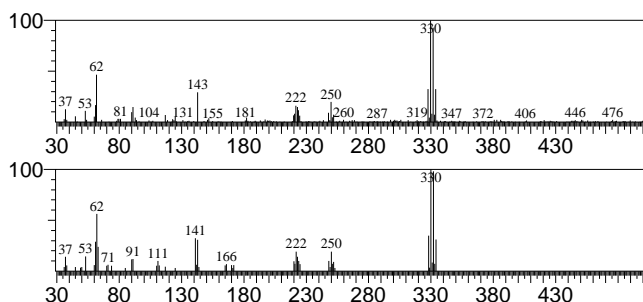
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:38481
SI:95

Conc.:0.539ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	6429	34.02	33.54

ID#:10 R.Time:16.7(Scan#:3409)



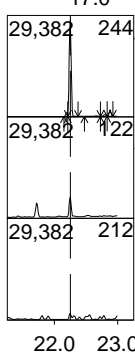
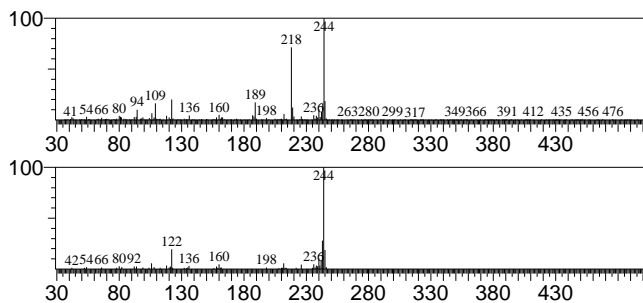
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.689
Area:2427
SI:86

Conc.:0.067ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	957	89.36	88.80
2	141	0	* 0.00	153.10

ID#:11 R.Time:22.3(Scan#:4693)



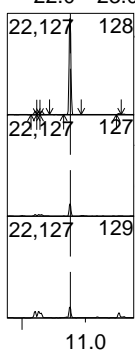
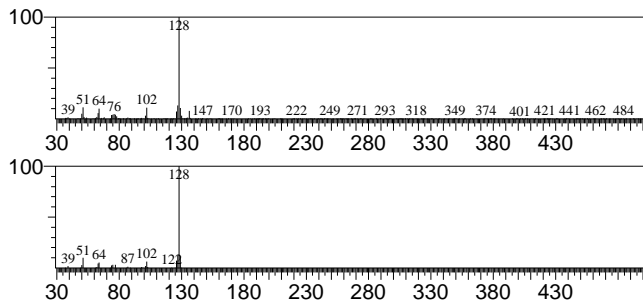
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.249
Area:62799
SI:96

Conc.:0.726ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	5927	20.74	20.49
2	212	1800	6.30	6.58

ID#:17 R.Time:10.8(Scan#:2007)



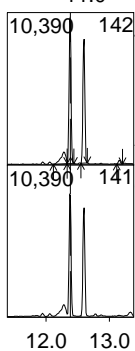
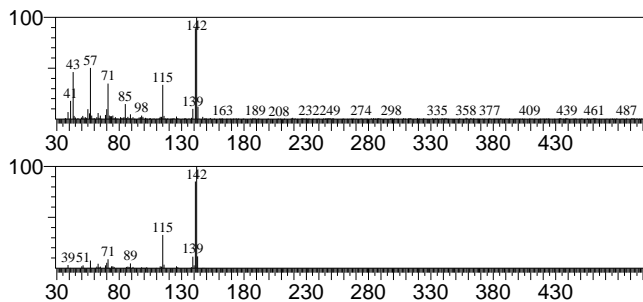
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.758
Area:44004
SI:96

Conc.:0.400ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	2782	12.37	12.65
2	129	2437	10.83	10.06

ID#:18 R.Time:12.4(Scan#:2395)



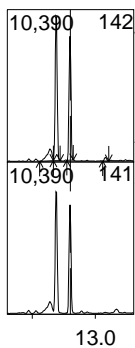
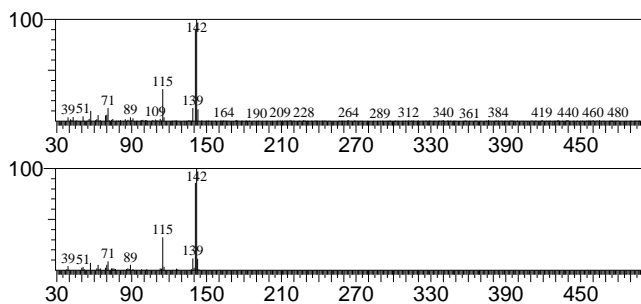
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.379
Area:21660
SI:89

Conc.:0.304ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	8607	84.32	83.64

ID#:19 R.Time:12.6(Scan#:2449)



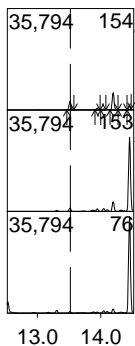
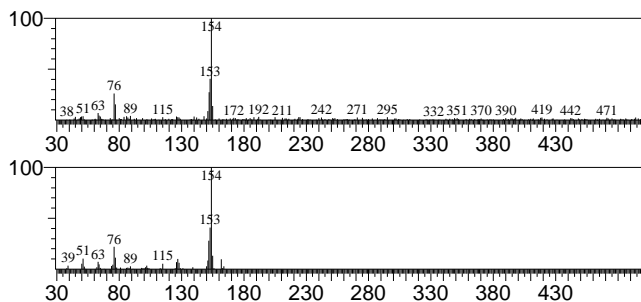
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.598
Area:18181
SI:95

Conc.:0.259ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	7801	87.37	87.02

ID#:20 R.Time:13.5(Scan#:2669)



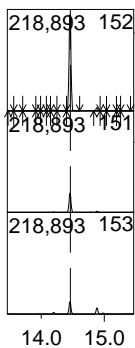
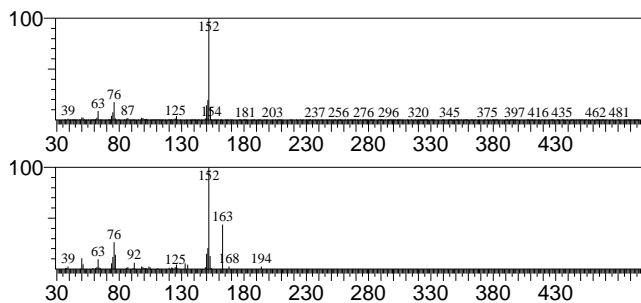
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.515
Area:6539
SI:91

Conc.:0.077ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	1236	38.63	38.33
2	76	596	18.63	21.10

ID#:22 R.Time:14.5(Scan#:2895)



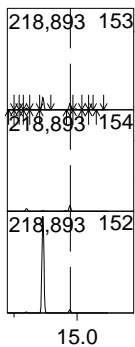
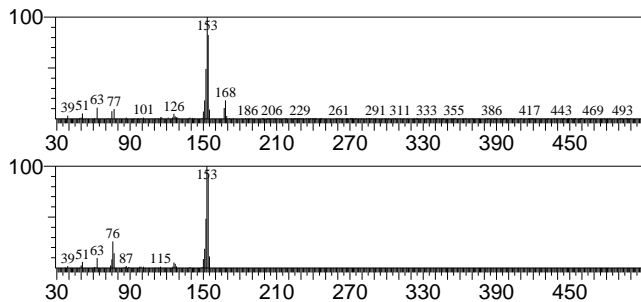
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.458
Area:458748
SI:83

Conc.:4.286ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	43289	19.76	19.84
2	153	27498	12.55	12.50

ID#:23 R.Time:14.9(Scan#:2997)



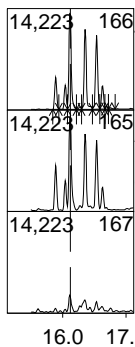
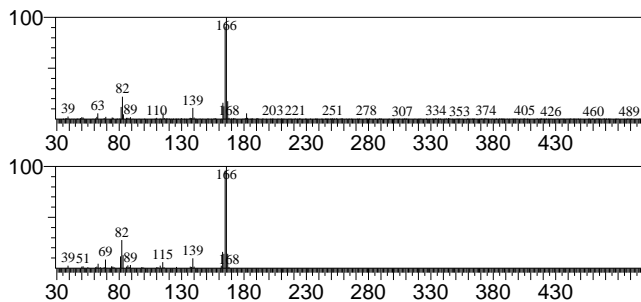
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.884
Area:27996
SI:93

Conc.:0.408ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	12415	89.86	94.93
2	152	7120	51.53	49.24

ID#:24 R.Time:16.1(Scan#:3281)



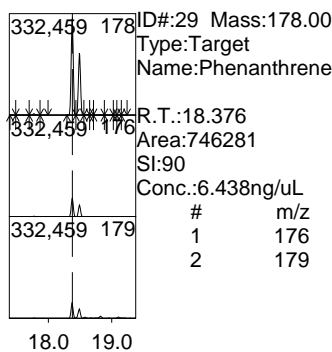
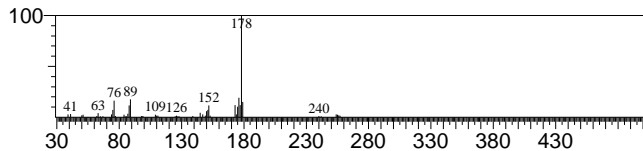
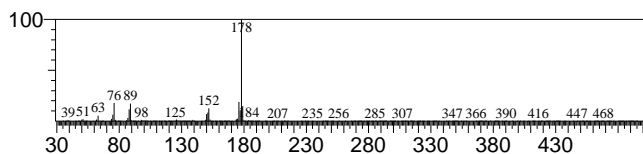
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.116
Area:35711
SI:95

Conc.:0.479ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	13045	94.21	91.21
2	167	2340	16.90	13.28

ID#:29 R.Time:18.4(Scan#:3785)

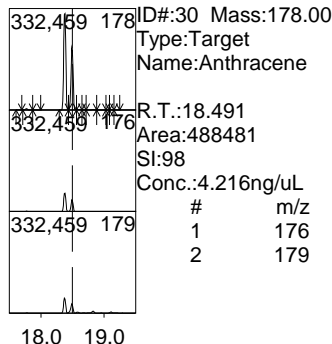
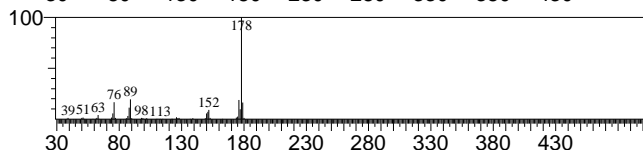
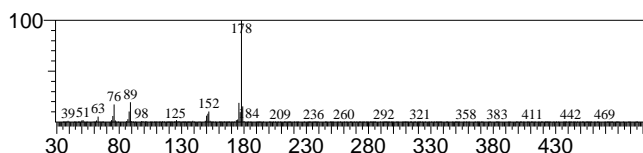


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.376
Area:746281
SI:90
Conc.:6.438ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	63519	19.18	19.27
2	179	46700	14.10	14.18

ID#:30 R.Time:18.5(Scan#:3809)

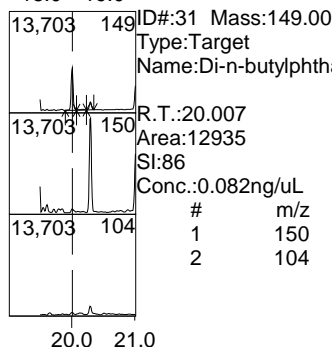
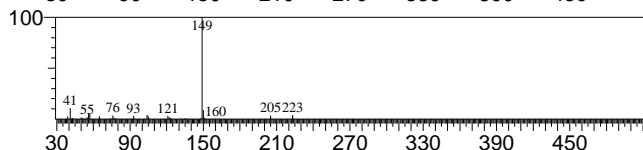
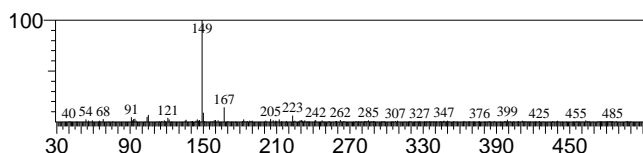


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.491
Area:488481
SI:98
Conc.:4.216ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	39298	18.48	18.61
2	179	31639	14.88	14.75

ID#:31 R.Time:20.0(Scan#:4155)

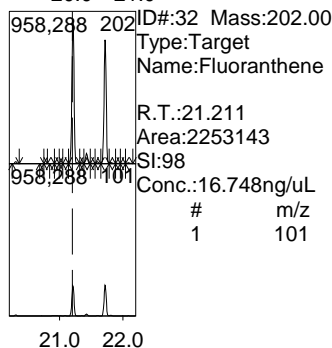
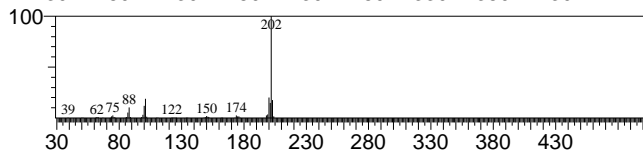
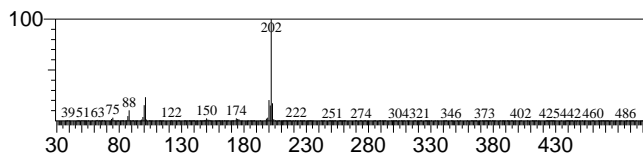


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.007
Area:12935
SI:86
Conc.:0.082ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	488	8.27	8.88
2	104	261	4.42	4.02

ID#:32 R.Time:21.2(Scan#:4443)

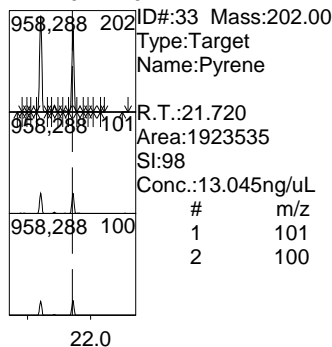
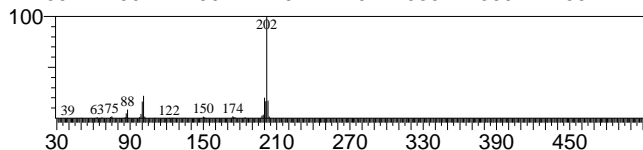
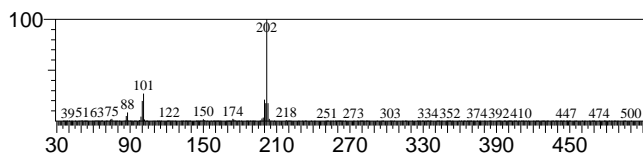


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.211
Area:2253143
SI:98
Conc.:16.748ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	191116	21.22	20.51

ID#:33 R.Time:21.7(Scan#:4565)

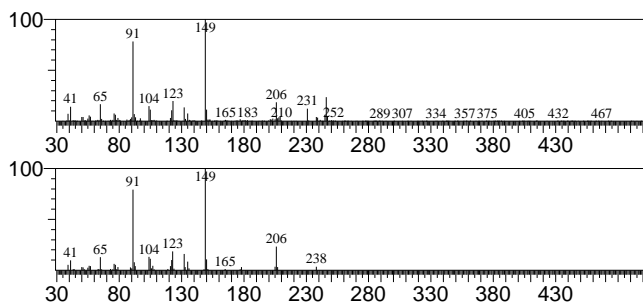


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.720
Area:1923535
SI:98
Conc.:13.045ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	190237	24.70	23.49
2	100	139716	18.14	16.96

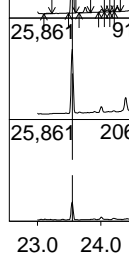
ID#:34 R.Time:23.6(Scan#:5005)



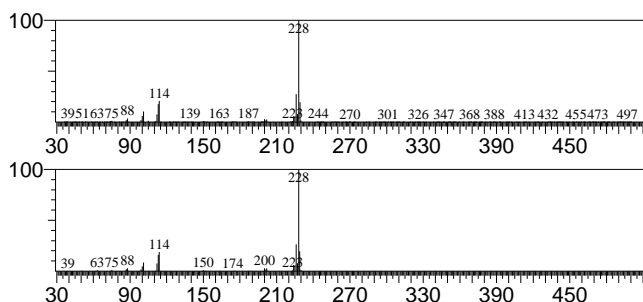
ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.549
Area:52341
SI:96
Conc.:0.724ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	16957	69.97	69.36
2	206	4682	19.32	19.97



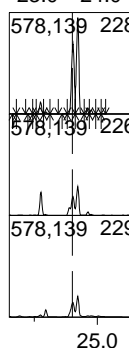
ID#:35 R.Time:24.6(Scan#:5261)



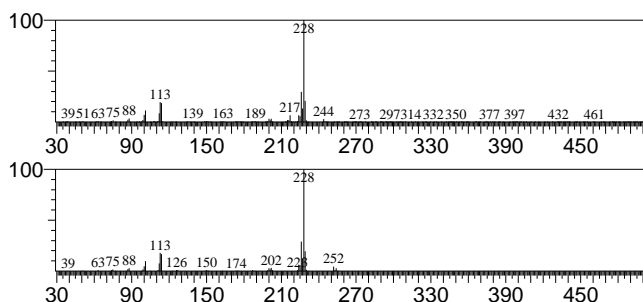
ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.614
Area:1248216
SI:98
Conc.:8.373ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	93972	26.65	26.21
2	229	68746	19.50	19.36



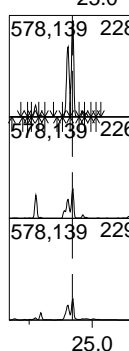
ID#:36 R.Time:24.7(Scan#:5279)



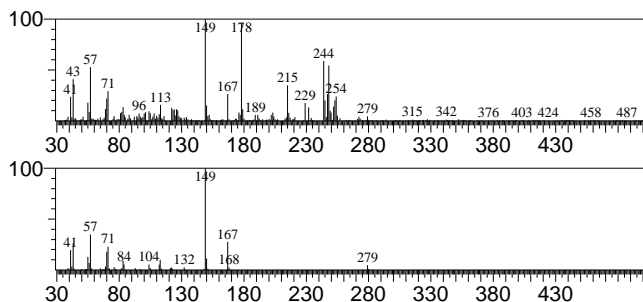
ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.690
Area:1421614
SI:96
Conc.:10.034ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	156920	29.66	29.42
2	229	110200	20.83	19.66



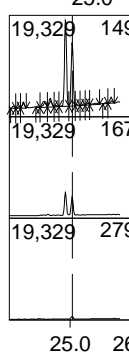
ID#:37 R.Time:25.0(Scan#:5361)



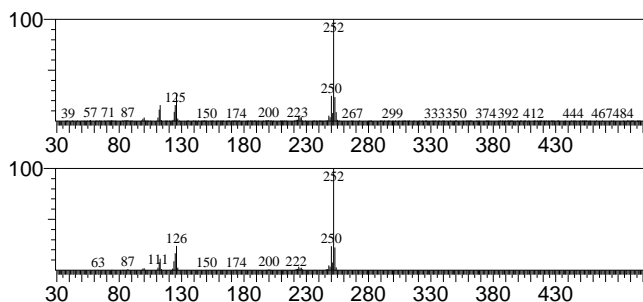
ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.034
Area:27990
SI:90
Conc.:0.265ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	3429	27.85	29.29
2	279	509	4.13	4.16



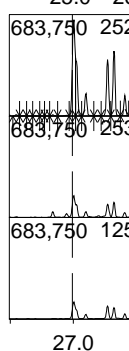
ID#:39 R.Time:27.0(Scan#:5835)



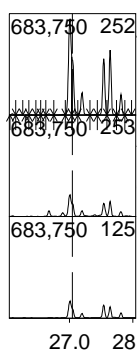
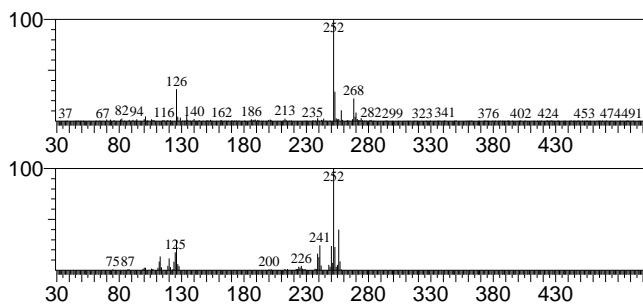
ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.007
Area:1998835
SI:97
Conc.:13.200ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	97774	22.64	20.50
2	125	73453	17.00	14.60



ID#:40 R.Time:27.0(Scan#:5843)

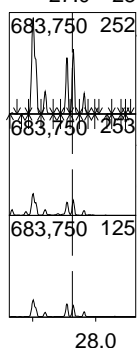
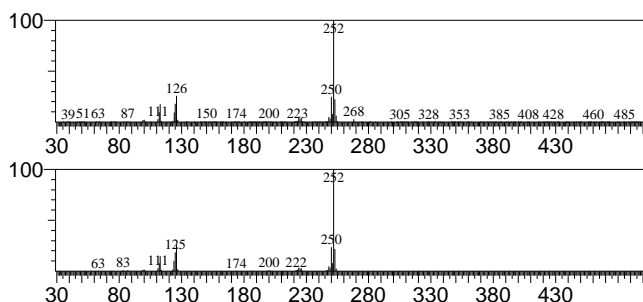


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.042
Area:744862
SI:66
Conc.:5.192ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	20948	25.20	20.19
2	125	10835	13.03	14.03

ID#:41 R.Time:27.6(Scan#:5987)

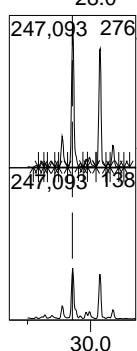
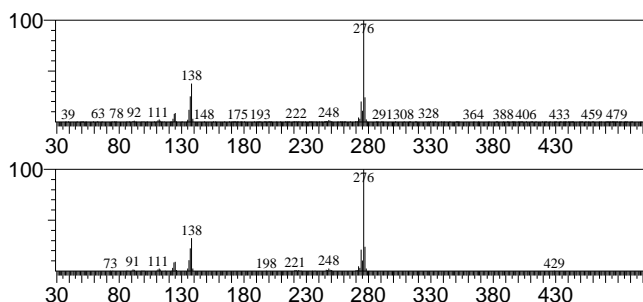


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.643
Area:1064526
SI:98
Conc.:7.995ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	99597	22.73	21.99
2	125	75052	17.13	17.18

ID#:42 R.Time:29.7(Scan#:6485)

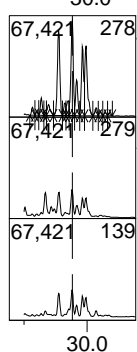
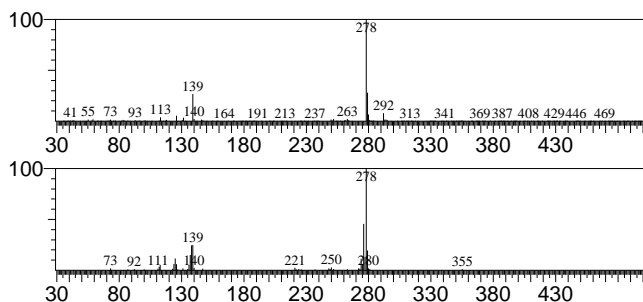


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.716
Area:633221
SI:98
Conc.:5.091ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	81333	34.49	32.23

ID#:43 R.Time:29.8(Scan#:6497)

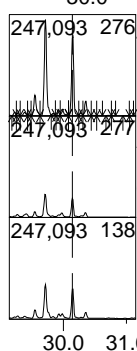
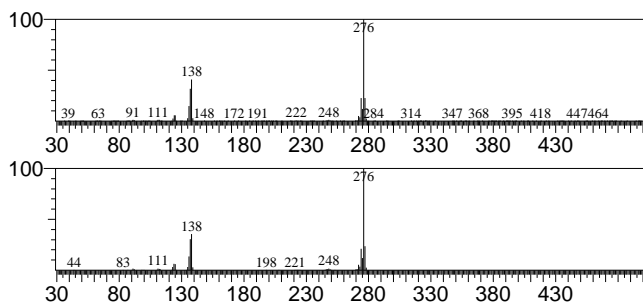


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.764
Area:162177
SI:68
Conc.:1.361ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	16252	27.75	23.98
2	139	14874	25.40	28.79

ID#:44 R.Time:30.2(Scan#:6589)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.147
Area:481872
SI:98
Conc.:3.690ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	41037	21.15	23.18
2	138	71848	37.02	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415855.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 11:53:22 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-04
 Sample ID : 10
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 40
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	501475	20.0000	ng/uL	101.65
2	Naphthalene-D10	10.71	136	1981322	20.0000	ng/uL	100.57
3	Acenaphthene-D10	14.81	164	901765	20.0000	ng/uL	95.65
4	Phenanthrene-D10	18.32	188	1726415	20.0000	ng/uL	99.61
5	Chrysene-D12	24.63	240	2275395	20.0000	ng/uL	98.13
6	Perylene-D12	27.77	264	2078838	20.0000	ng/uL	88.85
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

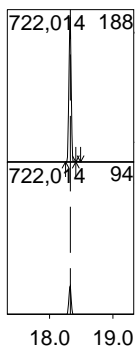
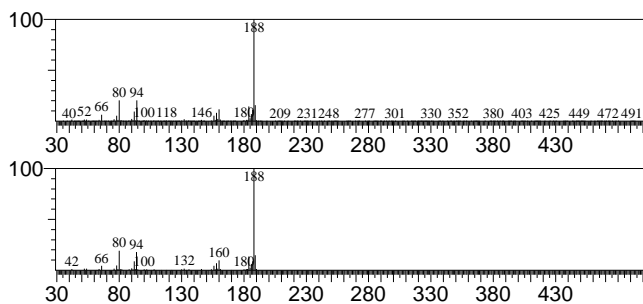
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	12594	0.48	ng/uL	19.1700
8	Nitrobenzene-D5 (Surr)	9.15	82	16535	0.49	ng/uL	19.5000
9	2-Fluorobiphenyl (Surr)	13.31	172	41403	0.54	ng/uL	21.7300
10	2,4,6-Tribromophenol (Surr)	16.69	330	2379	0.02	ng/uL	0.4500
11	Terphenyl-D14 (Surr)	22.25	244	64898	0.71	ng/uL	28.4000
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	20919	0.1765	ng/uL	96
18	2-Methylnaphthalene	12.38	142	13828	0.1804	ng/uL	88
19	1-Methylnaphthalene	12.60	142	12653	0.1675	ng/uL	95
20	Biphenyl	13.52	154	4760	0.0528	ng/uL	91
22	Acenaphthylene	14.46	152	105879	0.9273	ng/uL	83
23	Acenaphthene	14.88	153	8376	0.1146	ng/uL	88
24	Fluorene	16.12	166	19975	0.2510	ng/uL	93
29	Phenanthrene	18.37	178	503342	4.1404	ng/uL	91
30	Anthracene	18.49	178	146852	1.2085	ng/uL	98
31	Di-n-butylphthalate	20.01	149	233807	1.4206	ng/uL	98
32	Fluoranthene	21.20	202	844230	5.9839	ng/uL	98
33	Pyrene	21.71	202	767564	4.9261	ng/uL	98
34	Butylbenzylphthalate	23.55	149	16299	0.2133	ng/uL	93
35	Benz[a]anthracene	24.60	228	443438	2.8148	ng/uL	98
36	Chrysene	24.68	228	449076	2.9994	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	439514	3.9422	ng/uL	98
39	Benzo[b]fluoranthene	26.99	252	635816	3.8629	ng/uL	98
40	Benzo[k]fluoranthene	27.03	252	172612	1.1069	ng/uL	80
41	Benzo[a]pyrene	27.63	252	392078	2.7090	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.71	276	193581	1.4318	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	48312	0.3731	ng/uL	66
44	Benzo[ghi]perylene	30.14	276	156318	1.1012	ng/uL	97

ID#:4 R.Time:18.3(Scan#:3773)

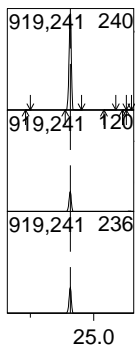
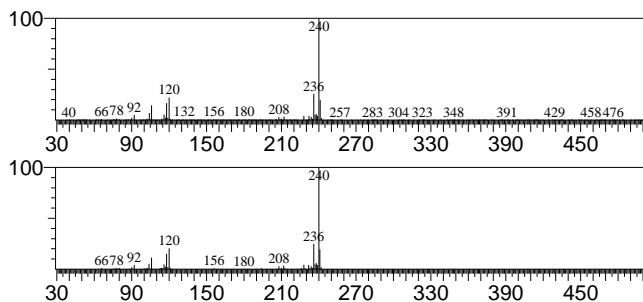


ID#:4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.324
Area:1726415
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	140047	19.72	19.68

ID#:5 R.Time:24.6(Scan#:5265)

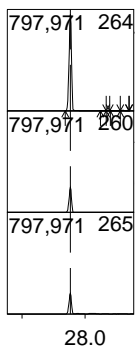
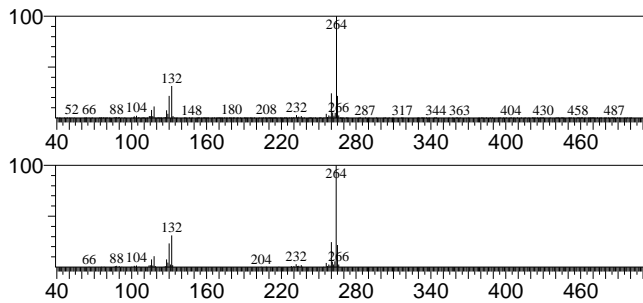


ID#:5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.632
Area:2275395
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	182729	20.68	21.03
2	236	235456	26.65	27.55

ID#:6 R.Time:27.8(Scan#:6017)

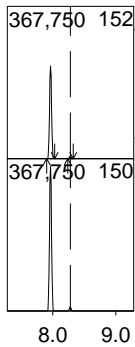
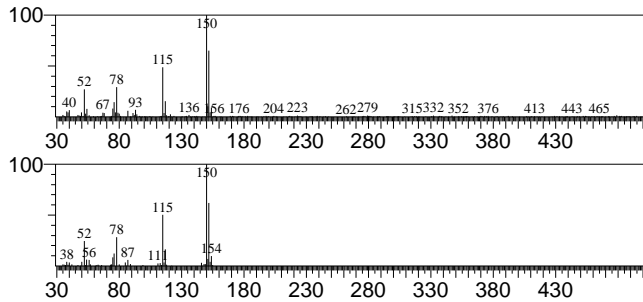


ID#:6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.767
Area:2078838
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	190899	25.87	26.18
2	265	160539	21.76	21.61

ID#:7 R.Time:8.3(Scan#:1411)

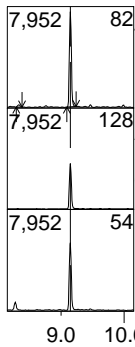
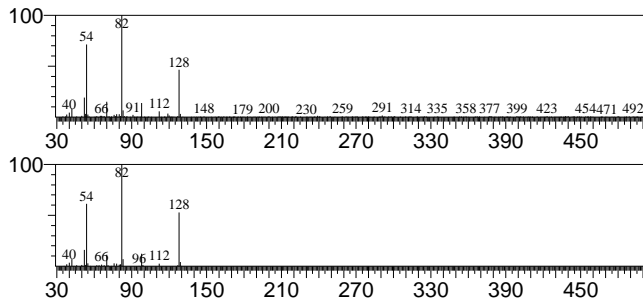


ID#:7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.278
Area:12594
SI:95
Conc.:0.479ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	9634	157.93	155.04

ID#:8 R.Time:9.2(Scan#:1621)

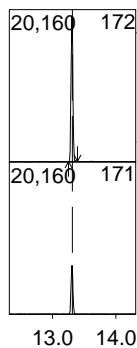
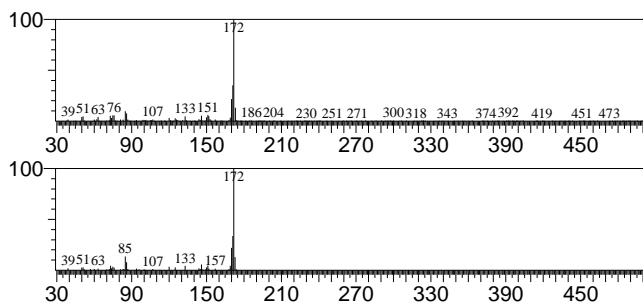


ID#:8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.148
Area:16535
SI:96
Conc.:0.488ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	3718	47.26	47.90
2	54	5459	69.38	69.01

ID#:9 R.Time:13.3(Scan#:2619)



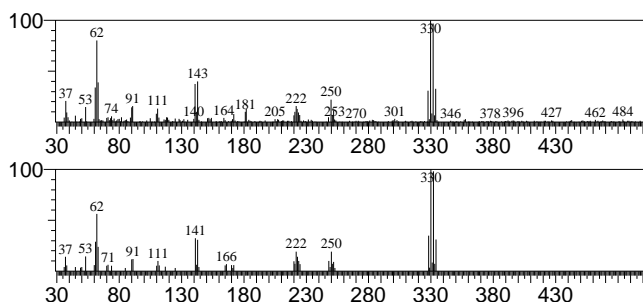
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.306
Area:41403
SI:96

Conc.:0.543ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	6750	33.52	33.54

ID#:10 R.Time:16.7(Scan#:3409)



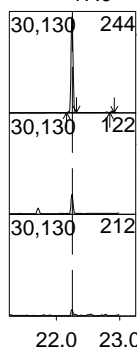
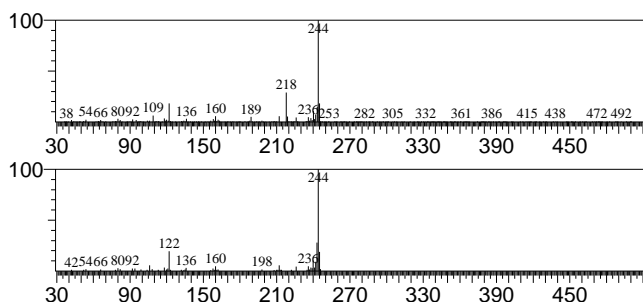
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.690
Area:2379
SI:94

Conc.:0.017ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	894	89.67	88.80
2	141	1487	149.15	153.10

ID#:11 R.Time:22.3(Scan#:4693)



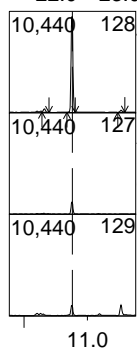
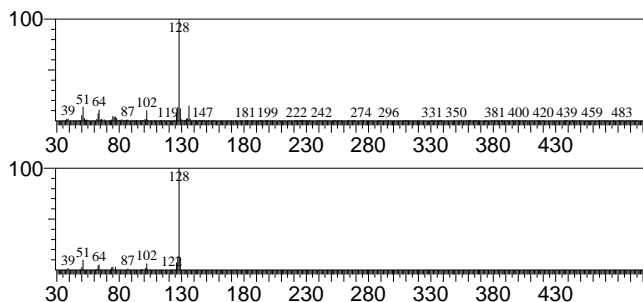
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.247
Area:64898
SI:95

Conc.:0.710ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	5756	19.48	20.49
2	212	1634	5.53	6.58

ID#:17 R.Time:10.8(Scan#:2007)



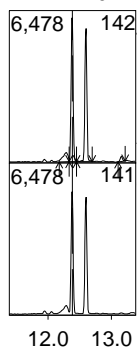
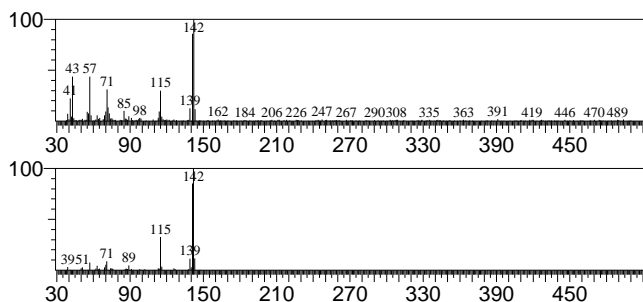
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.757
Area:20919
SI:96

Conc.:0.177ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	1321	12.53	12.65
2	129	1109	10.52	10.06

ID#:18 R.Time:12.4(Scan#:2395)



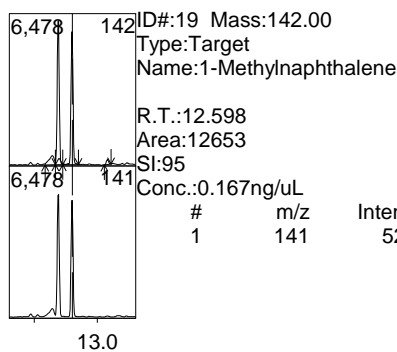
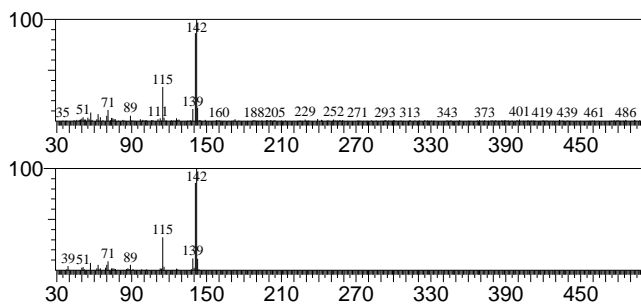
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.379
Area:13828
SI:88

Conc.:0.180ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	5313	84.58	83.64

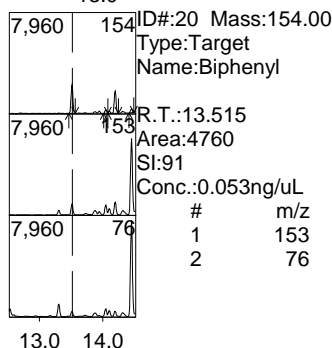
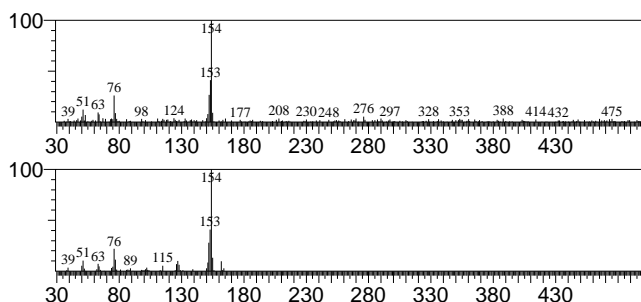
ID#:19 R.Time:12.6(Scan#:2449)



ID#:19 Mass:142.00
 Type:Target
 Name:1-Methylnaphthalene
 R.T.:12.598
 Area:12653
 SI:95
 Conc.:0.167ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	5221	87.57	87.02

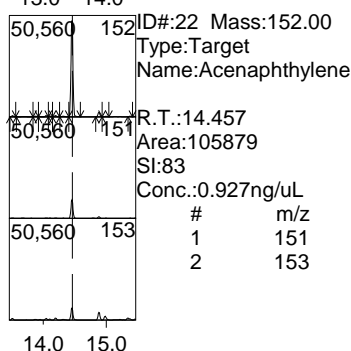
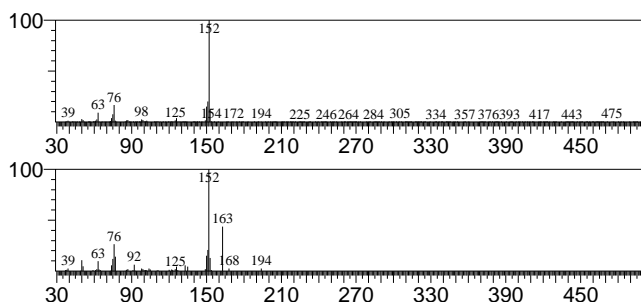
ID#:20 R.Time:13.5(Scan#:2669)



ID#:20 Mass:154.00
 Type:Target
 Name:Biphenyl
 R.T.:13.515
 Area:4760
 SI:91
 Conc.:0.053ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	909	39.03	38.33
2	76	397	17.05	21.10

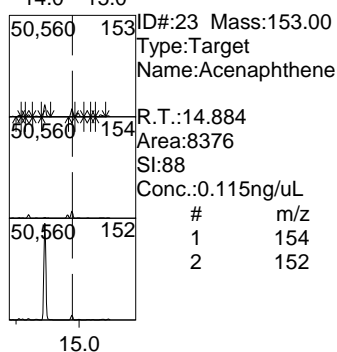
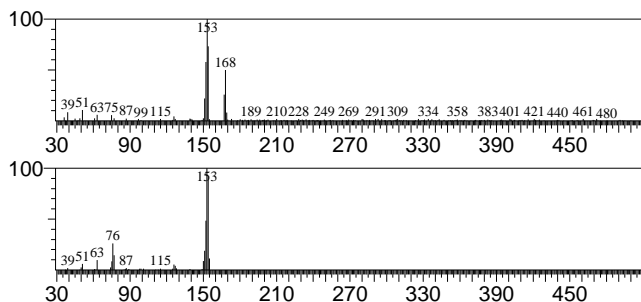
ID#:22 R.Time:14.5(Scan#:2895)



ID#:22 Mass:152.00
 Type:Target
 Name:Acenaphthylene
 R.T.:14.457
 Area:105879
 SI:83
 Conc.:0.927ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	9797	19.38	19.84
2	153	6269	12.40	12.50

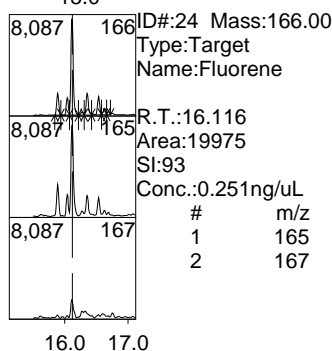
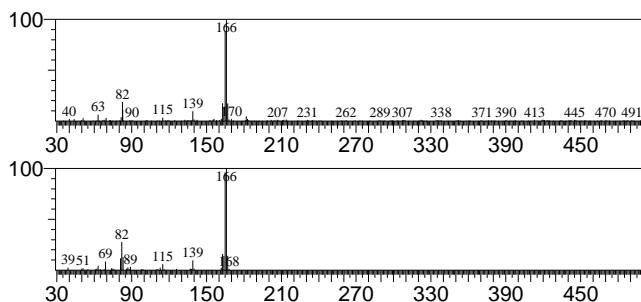
ID#:23 R.Time:14.9(Scan#:2997)



ID#:23 Mass:153.00
 Type:Target
 Name:Acenaphthene
 R.T.:14.884
 Area:8376
 SI:88
 Conc.:0.115ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	3377	82.69	94.93
2	152	2319	56.78	49.24

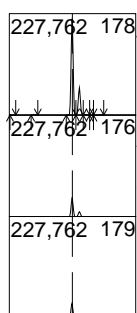
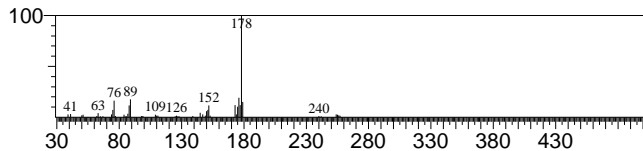
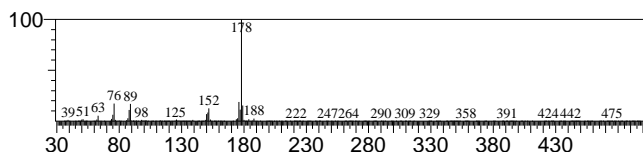
ID#:24 R.Time:16.1(Scan#:3281)



ID#:24 Mass:166.00
 Type:Target
 Name:Fluorene
 R.T.:16.116
 Area:19975
 SI:93
 Conc.:0.251ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	7287	92.29	91.21
2	167	1444	* 18.29	13.28

ID#:29 R.Time:18.4(Scan#:3783)

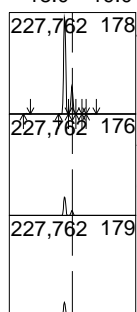
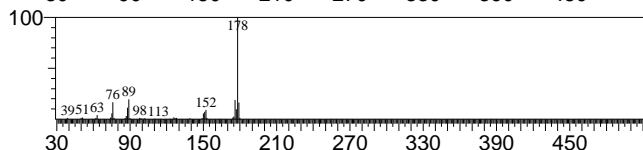
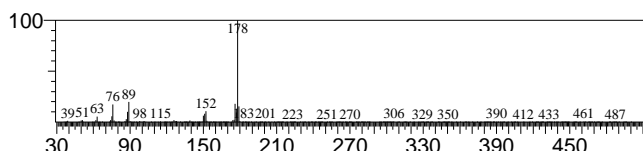


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.374
Area:503342
SI:91
Conc.:4.140ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	43787	19.01	19.27
2	179	35234	15.30	14.18

ID#:30 R.Time:18.5(Scan#:3809)

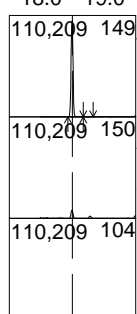
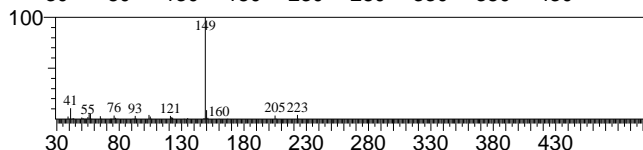
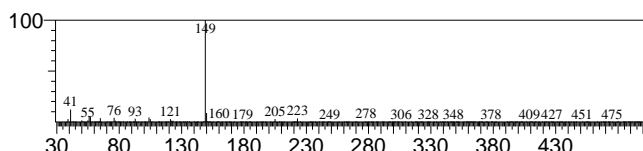


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.489
Area:146852
SI:98
Conc.:1.209ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	11725	18.32	18.61
2	179	9206	14.38	14.75

ID#:31 R.Time:20.0(Scan#:4155)

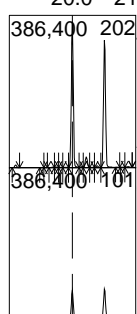
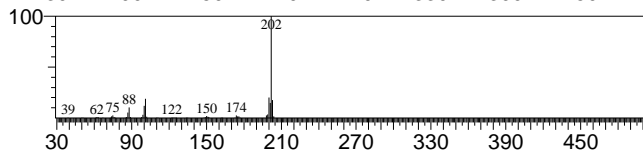
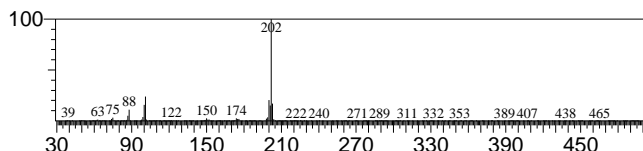


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.006
Area:233807
SI:98
Conc.:1.421ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	9440	8.64	8.88
2	104	4397	4.03	4.02

ID#:32 R.Time:21.2(Scan#:4441)

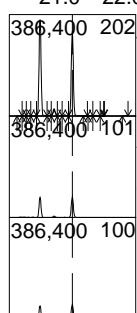
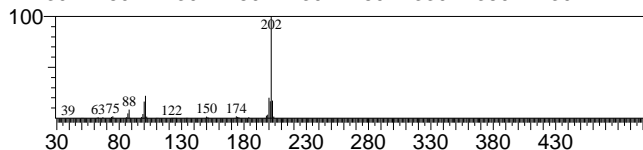
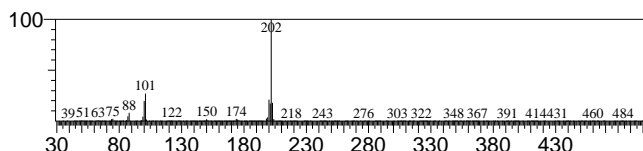


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.200
Area:844230
SI:98
Conc.:5.984ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	78109	20.60	20.51

ID#:33 R.Time:21.7(Scan#:4563)

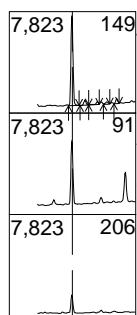
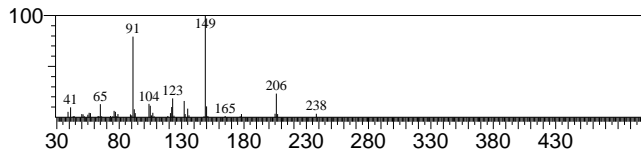
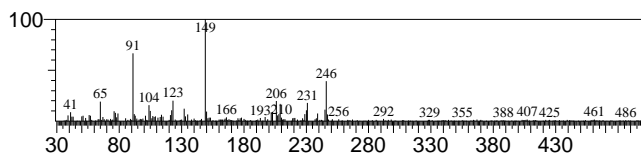


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.710
Area:767564
SI:98
Conc.:4.926ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	80103	24.18	23.49
2	100	57851	17.47	16.96

ID#:34 R.Time:23.5(Scan#:5003)

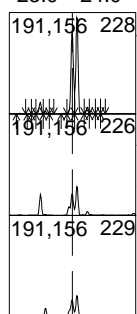
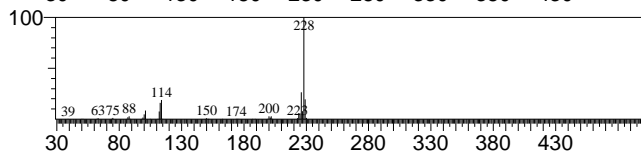
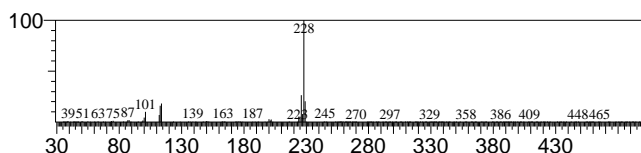


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.545
Area:16299
SI:93
Conc.:0.213ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	4918	69.99	69.36
2	206	1354	19.27	19.97

ID#:35 R.Time:24.6(Scan#:5257)

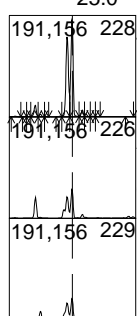
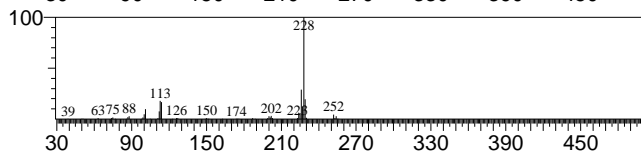
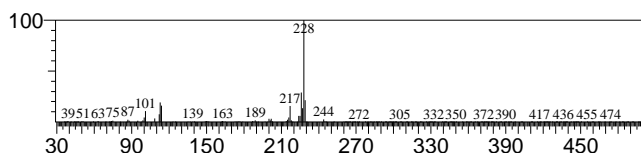


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.602
Area:443438
SI:98
Conc.:2.815ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	36601	26.66	26.21
2	229	27117	19.75	19.36

ID#:36 R.Time:24.7(Scan#:5275)

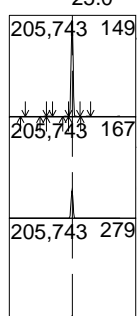
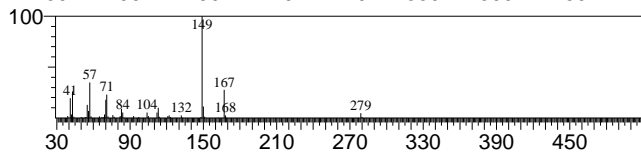
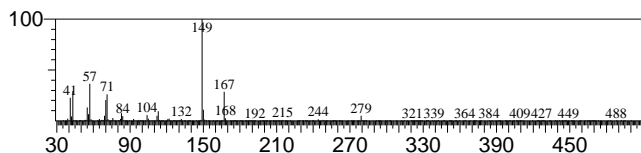


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.678
Area:449076
SI:96
Conc.:2.999ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	50624	29.77	29.42
2	229	36551	21.49	19.66

ID#:37 R.Time:25.0(Scan#:5361)

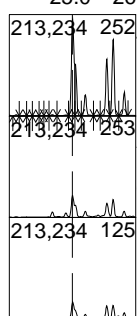
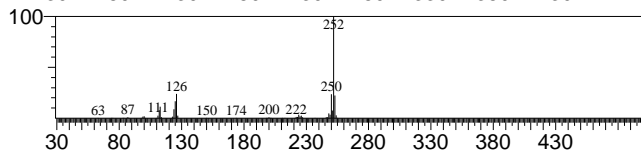
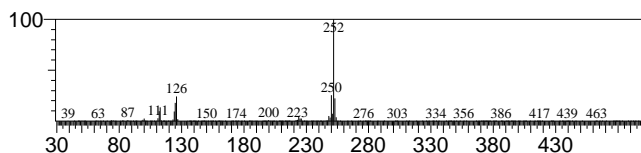


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.032
Area:439514
SI:98
Conc.:3.942ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	57510	28.43	29.29
2	279	8483	4.19	4.16

ID#:39 R.Time:27.0(Scan#:5831)

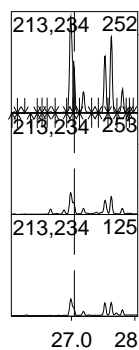
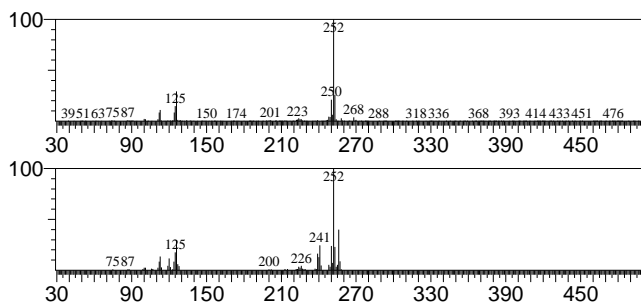


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.989
Area:635816
SI:98
Conc.:3.863ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	30365	21.60	20.50
2	125	23763	16.91	14.60

ID#:40 R.Time:27.0(Scan#:5841)

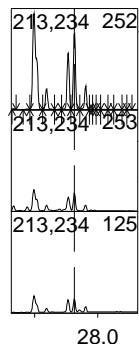
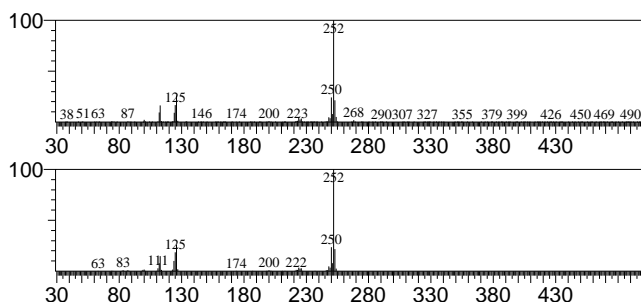


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.030
Area:172612
SI:80
Conc.:1.107ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	8076	22.99	20.19
2	125	4460	12.69	14.03

ID#:41 R.Time:27.6(Scan#:5985)

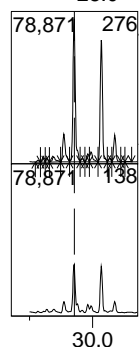
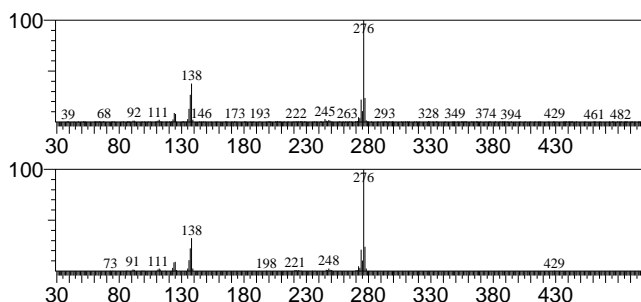


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.630
Area:392078
SI:97
Conc.:2.709ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	35275	21.94	21.99
2	125	24199	15.05	17.18

ID#:42 R.Time:29.7(Scan#:6483)

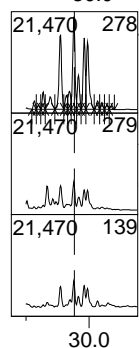
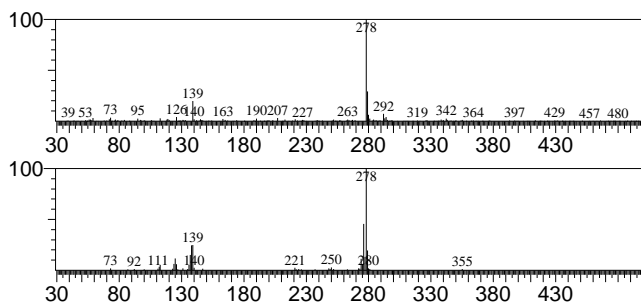


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.706
Area:193581
SI:97
Conc.:1.432ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	24863	33.39	32.23

ID#:43 R.Time:29.8(Scan#:6495)

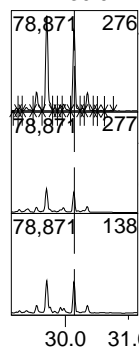
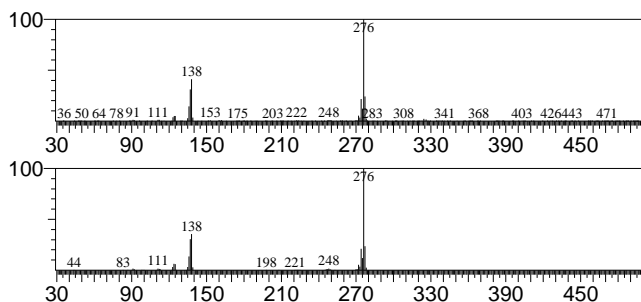


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.759
Area:48312
SI:66
Conc.:0.373ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	5335	28.42	23.98
2	139	5039	26.84	28.79

ID#:44 R.Time:30.1(Scan#:6585)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.137
Area:156318
SI:97
Conc.:1.101ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	15494	24.48	23.18
2	138	24127	38.12	37.16

Data File : Q:\SVOA\MS4\0613\062613\SV415856.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP_030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 12:45:35 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-07
 Sample ID : 20
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 41
 Injection Volume : 1

Internal Standard

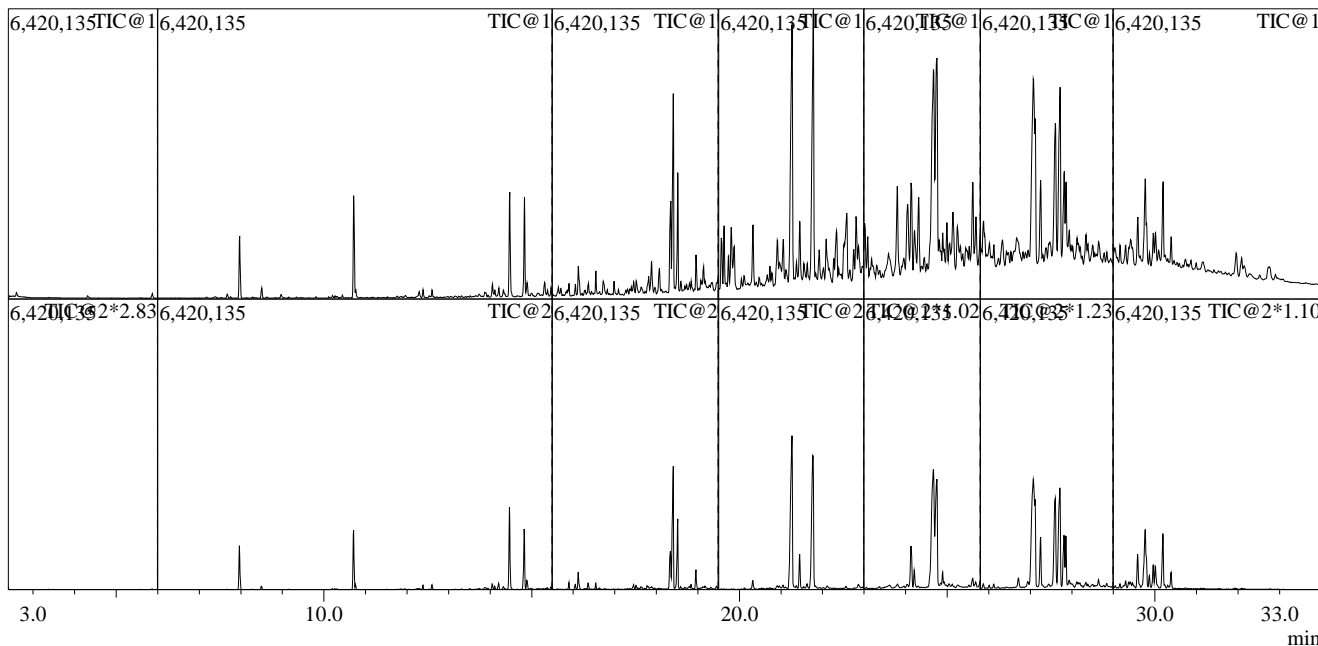
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	492960	20.0000	ng/uL	99.92
2	Naphthalene-D10	10.71	136	1961950	20.0000	ng/uL	99.58
3	Acenaphthene-D10	14.82	164	880021	20.0000	ng/uL	93.35
4	Phenanthrene-D10	18.33	188	1664296	20.0000	ng/uL	96.03
5	Chrysene-D12	24.68	240	1954278	20.0000	ng/uL	84.28
6	Perylene-D12	27.81	264	1587890	20.0000	ng/uL	67.86
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

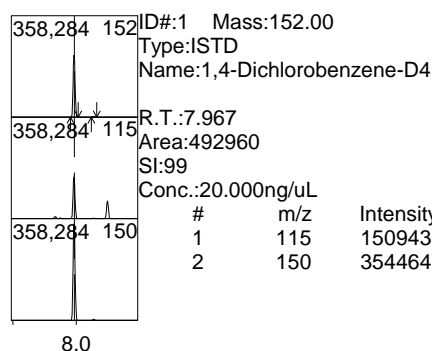
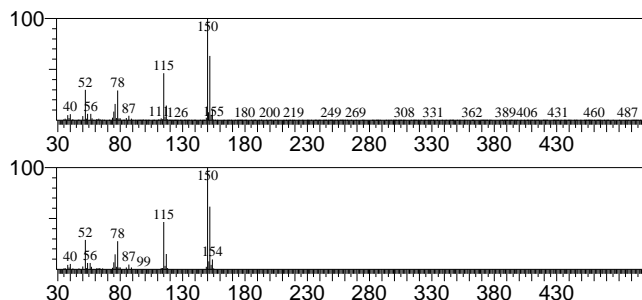
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	5970	0.23	ng/uL	9.2500
8	Nitrobenzene-D5 (Surr)	9.15	82	7125	0.21	ng/uL	8.4900
9	2-Fluorobiphenyl (Surr)	13.31	172	17710	0.24	ng/uL	9.5200
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.	ng/uL	-
11	Terphenyl-D14 (Surr)	22.26	244	24233	0.31	ng/uL	12.3500
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	152284	1.2978	ng/uL	97
18	2-Methylnaphthalene	12.38	142	86819	1.1437	ng/uL	97
19	1-Methylnaphthalene	12.60	142	87842	1.1741	ng/uL	97
20	Biphenyl	13.52	154	18620	0.2118	ng/uL	91
22	Acenaphthylene	14.47	152	2169879	19.4731	ng/uL	82
23	Acenaphthene	14.89	153	122829	1.7214	ng/uL	97
24	Fluorene	16.12	166	370234	4.7671	ng/uL	98
29	Phenanthrene	18.40	178	4047755	34.5389	ng/uL	92
30	Anthracene	18.51	178	2010052	17.1592	ng/uL	99
32	Fluoranthene	21.26	202	9443921	69.4374	ng/uL	98
33	Pyrene	21.77	202	8133295	60.7745	ng/uL	97
35	Benz[a]anthracene	24.66	228	6177051	45.6531	ng/uL	98
36	Chrysene	24.74	228	5398227	41.9791	ng/uL	96
39	Benzo[b]fluoranthene	27.07	252	9434603	75.0428	ng/uL	96
40	Benzo[k]fluoranthene	27.07	252	9446749	79.3090	ng/uL	81
41	Benzo[a]pyrene	27.71	252	4345814	39.3110	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.76	276	2223924	21.5351	ng/uL	98
43	Dibenz[a,h]anthracene	29.80	278	688556	6.9612	ng/uL	70
44	Benzo[ghi]perylene	30.19	276	1776482	16.3836	ng/uL	98



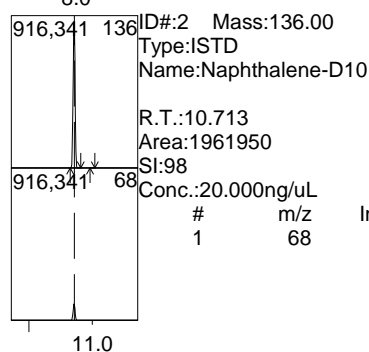
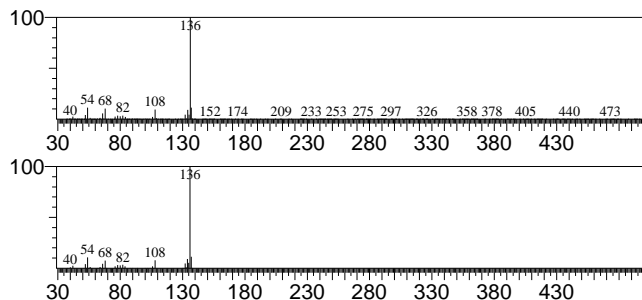
ID#1 R.Time:8.0(Scan#:1337)



ID#1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.967
 Area:492960
 SI:99
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	150943	66.02	67.59
2	150	354464	155.03	156.27

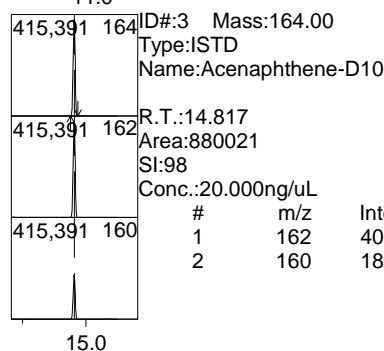
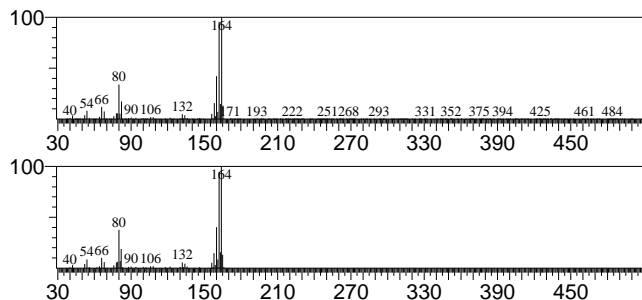
ID#2 R.Time:10.7(Scan#:1995)



ID#2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.713
 Area:1961950
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	99577	11.09	10.57

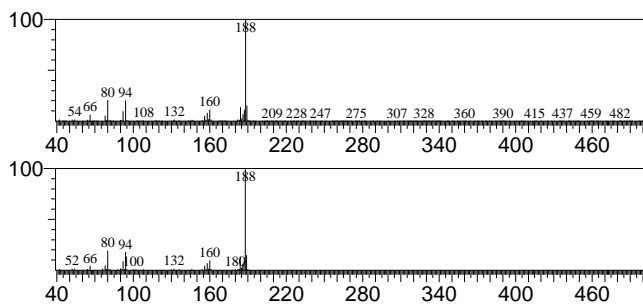
ID#3 R.Time:14.8(Scan#:2981)



ID#3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.817
 Area:880021
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	408544	99.00	99.35
2	160	188157	45.60	45.34

ID#:4 R.Time:18.3(Scan#:3775)

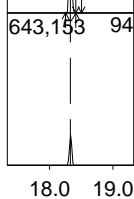


643,153 188 ID#4 Mass:188.00
 Type:ISTD
 Name:Phenanthrene-D10

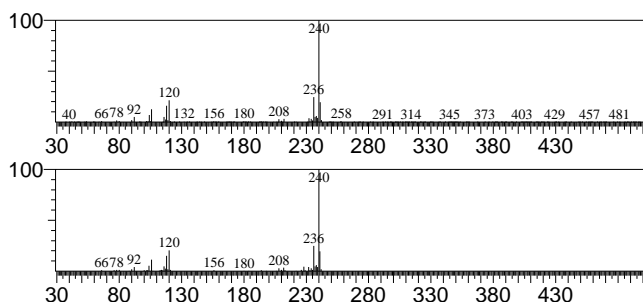
R.T.:18.333
 Area:1664296
 SI:97

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	123200	20.18	19.68



ID#:5 R.Time:24.7(Scan#:5277)

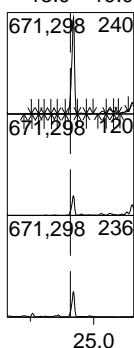


671,298 240 ID#5 Mass:240.00
 Type:ISTD
 Name:Chrysene-D12

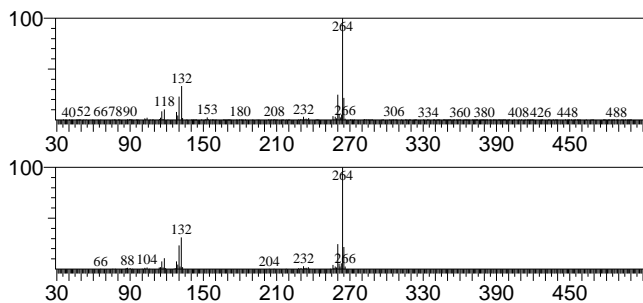
R.T.:24.681
 Area:1954278
 SI:96

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	128615	20.14	21.03
2	236	165564	25.92	27.55



ID#:6 R.Time:27.8(Scan#:6027)

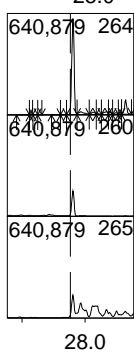


640,879 264 ID#6 Mass:264.00
 Type:ISTD
 Name:Perylene-D12

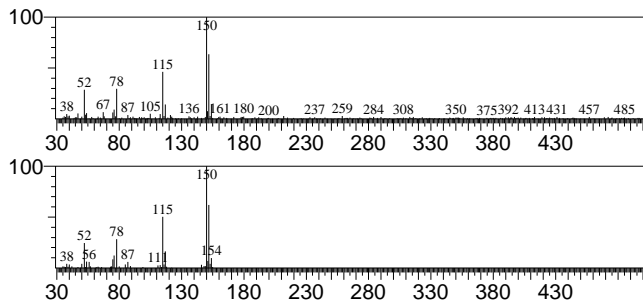
R.T.:27.808
 Area:1587890
 SI:97

Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	155515	26.07	26.18
2	265	124125	20.81	21.61



ID#:7 R.Time:8.3(Scan#:1411)

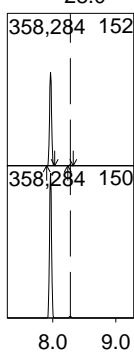


358,284 152 ID#7 Mass:152.00
 Type:Surrogate/SMC
 Name:1,2-Dichlorobenzene-D4 (Surr)

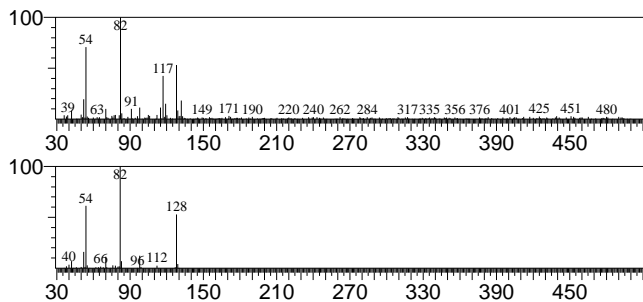
R.T.:8.279
 Area:5970
 SI:94

Conc.:0.231ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	4460	159.00	155.04



ID#:8 R.Time:9.2(Scan#:1621)

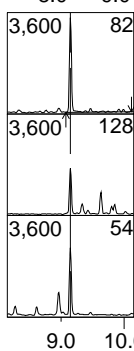


3,600 82 ID#8 Mass:82.00
 Type:Surrogate/SMC
 Name:Nitrobenzene-D5 (Surr)

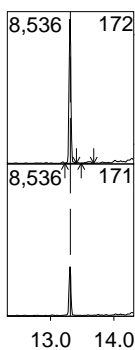
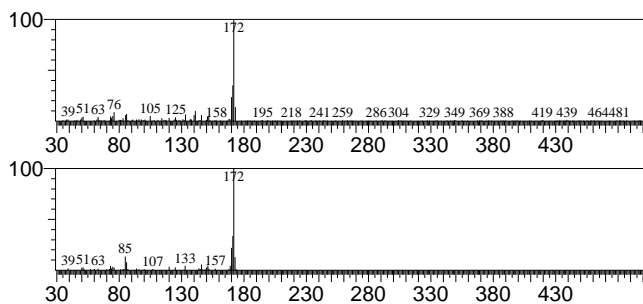
R.T.:9.150
 Area:7125
 SI:94

Conc.:0.212ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	1692	47.73	47.90
2	54	2470	69.68	69.01



ID#:9 R.Time:13.3(Scan#:2619)



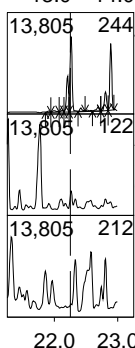
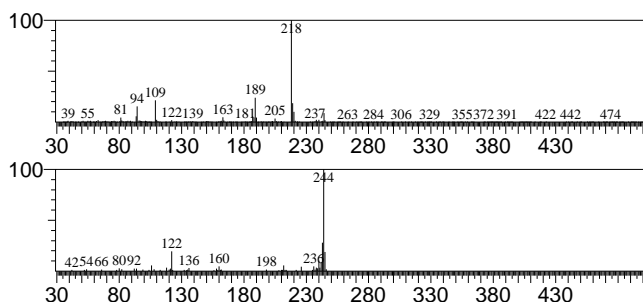
ID#9 Mass:172.00
 Type:Surrogate/SMC
 Name:2-Fluorobiphenyl (Surr)

R.T.:13.307
 Area:17710
 SI:94

Conc.:0.238ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	2884	33.73	33.54

ID#11 R.Time:22.3(Scan#:4695)



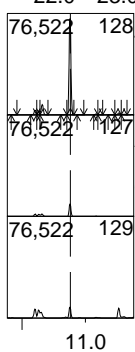
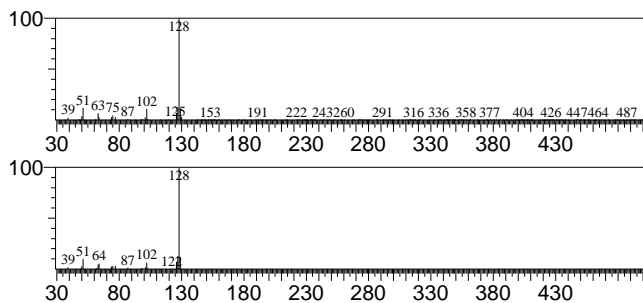
ID#11 Mass:244.00
 Type:Surrogate/SMC
 Name:Terphenyl-D14 (Surr)

R.T.:22.262
 Area:24233
 SI:57

Conc.:0.309ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	2460	24.75	20.49
2	212	438	* 4.41	6.58

ID#17 R.Time:10.8(Scan#:2007)



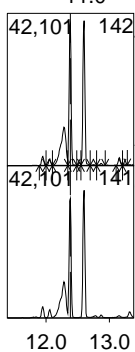
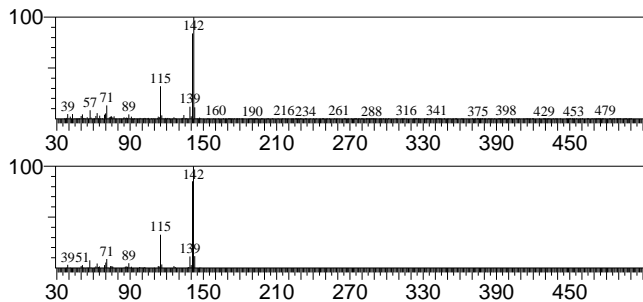
ID#17 Mass:128.00
 Type:Target
 Name:Naphthalene

R.T.:10.758
 Area:152284
 SI:97

Conc.:1.298ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	9872	12.69	12.65
2	129	8462	10.88	10.06

ID#18 R.Time:12.4(Scan#:2397)



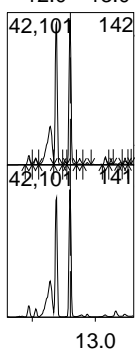
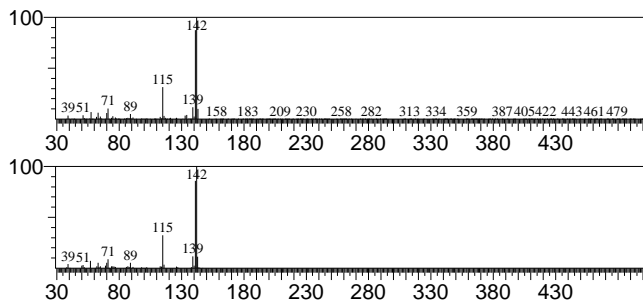
ID#18 Mass:142.00
 Type:Target
 Name:2-Methylnaphthalene

R.T.:12.380
 Area:86819
 SI:97

Conc.:1.144ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	34119	83.55	83.64

ID#19 R.Time:12.6(Scan#:2449)



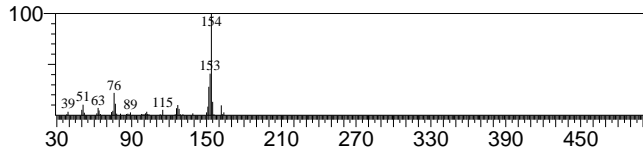
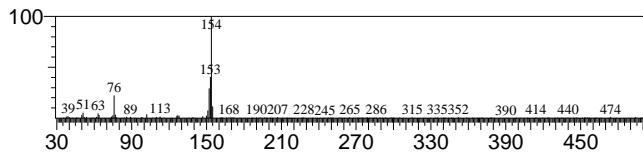
ID#19 Mass:142.00
 Type:Target
 Name:1-Methylnaphthalene

R.T.:12.598
 Area:87842
 SI:97

Conc.:1.174ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	36991	88.10	87.02

ID#:20 R.Time:13.5(Scan#:2669)



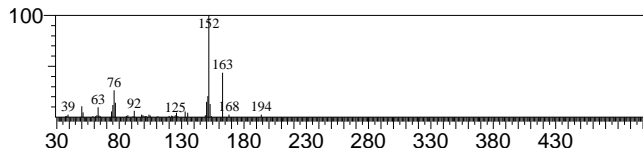
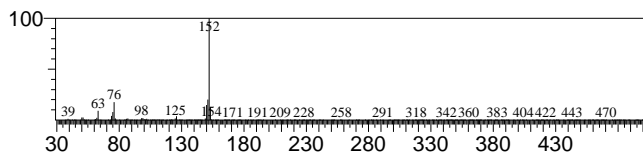
ID#:20 Mass:154.00
 Type:Target
 Name:Biphenyl

R.T.:13.516
 Area:18620
 SI:91
 Conc.:0.212ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	3533	38.08	38.33
2	76	1654	17.82	21.10

13.0 14.0

ID#:22 R.Time:14.5(Scan#:2897)



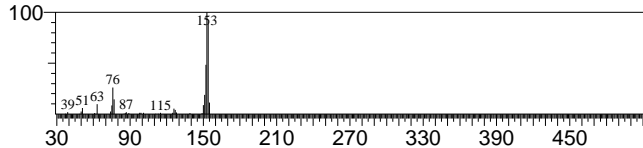
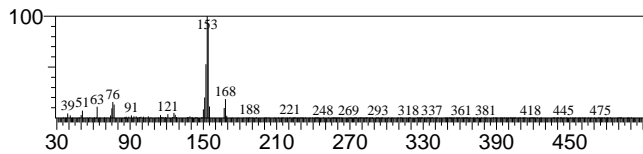
ID#:22 Mass:152.00
 Type:Target
 Name:Acenaphthylene

R.T.:14.467
 Area:2169879
 SI:82
 Conc.:19.473ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	203476	20.07	19.84
2	153	129555	12.78	12.50

14.0 15.0

ID#:23 R.Time:14.9(Scan#:2997)



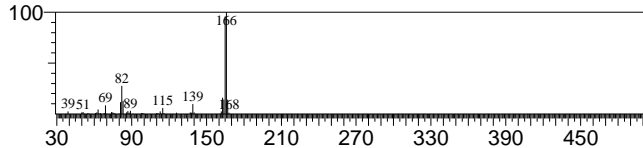
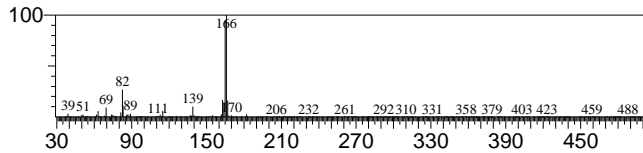
ID#:23 Mass:153.00
 Type:Target
 Name:Acenaphthene

R.T.:14.887
 Area:122829
 SI:97
 Conc.:1.721ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	52756	91.16	94.93
2	152	29376	50.76	49.24

15.0

ID#:24 R.Time:16.1(Scan#:3283)



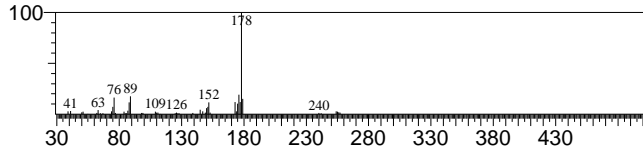
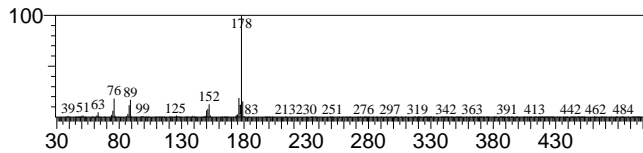
ID#:24 Mass:166.00
 Type:Target
 Name:Fluorene

R.T.:16.121
 Area:370234
 SI:98
 Conc.:4.767ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	141321	93.99	91.21
2	167	22765	15.14	13.28

16.0 17.0

ID#:29 R.Time:18.4(Scan#:3789)



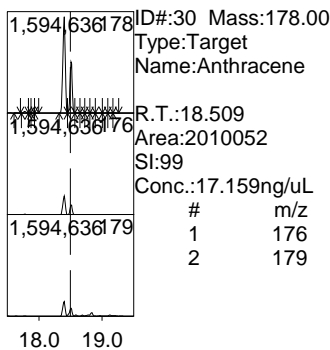
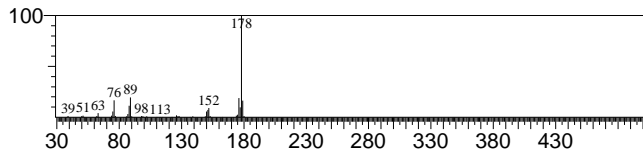
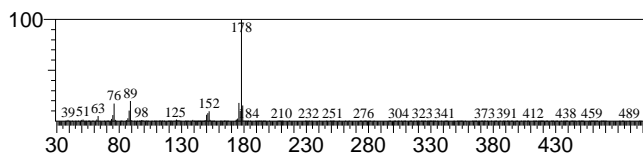
ID#:29 Mass:178.00
 Type:Target
 Name:Phenanthrene

R.T.:18.398
 Area:4047755
 SI:92
 Conc.:34.539ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	297451	19.50	19.27
2	179	230207	15.09	14.18

18.0 19.0

ID#:30 R.Time:18.5(Scan#:3813)

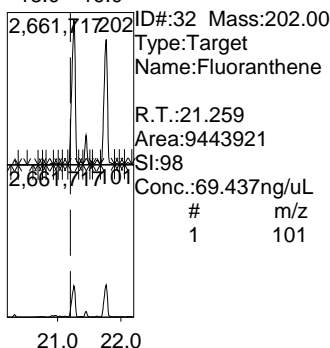
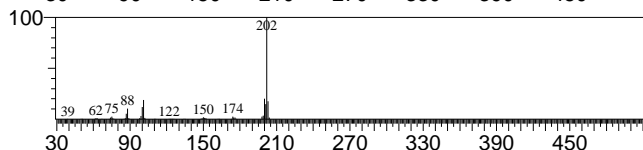
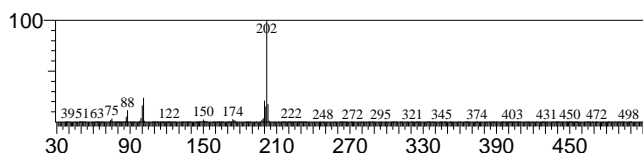


ID#:30 Mass:178.00
 Type:Target
 Name:Anthracene

R.T.:18.509
 Area:2010052
 SI:99
 Conc.:17.159ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	153424	18.78	18.61
2	179	122203	14.96	14.75

ID#:32 R.Time:21.3(Scan#:4455)

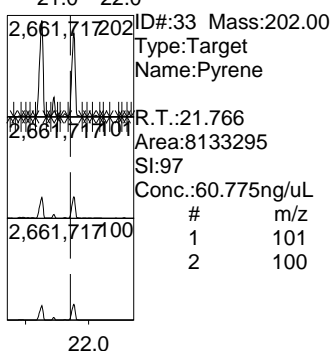
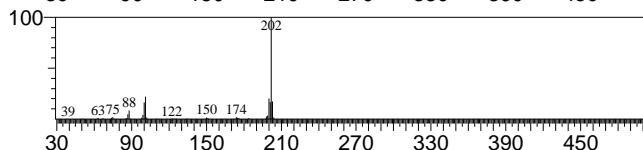
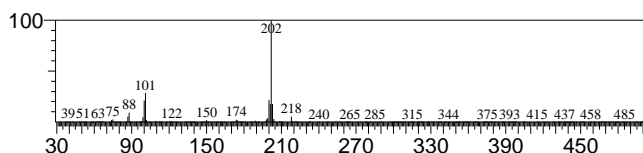


ID#:32 Mass:202.00
 Type:Target
 Name:Fluoranthene

R.T.:21.259
 Area:9443921
 SI:98
 Conc.:69.437ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	484505	21.57	20.51

ID#:33 R.Time:21.8(Scan#:4577)

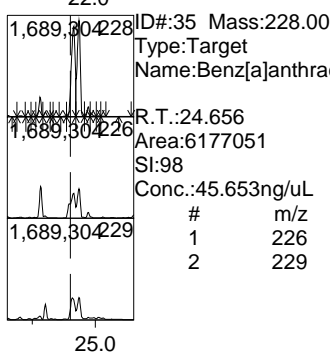
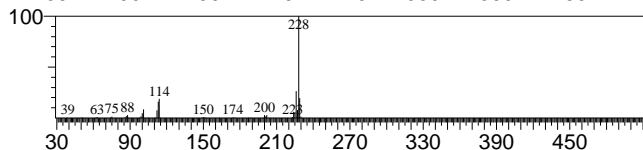
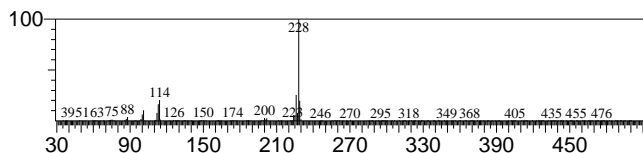


ID#:33 Mass:202.00
 Type:Target
 Name:Pyrene

R.T.:21.766
 Area:8133295
 SI:97
 Conc.:60.775ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	505871	25.68	23.49
2	100	371642	18.86	16.96

ID#:35 R.Time:24.7(Scan#:5271)

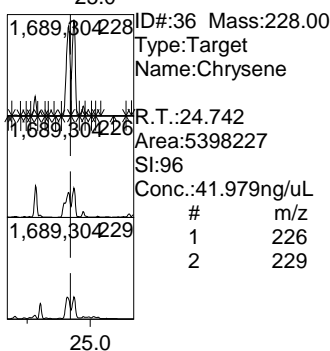
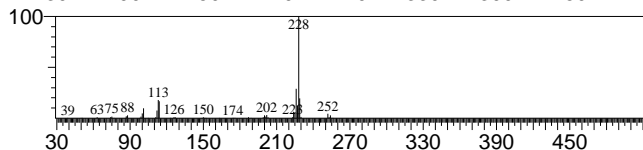
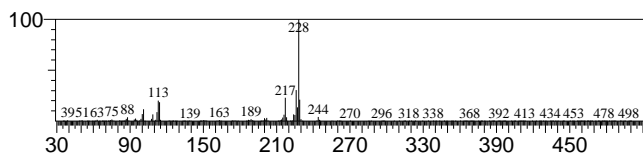


ID#:35 Mass:228.00
 Type:Target
 Name:Benzo[a]anthracene

R.T.:24.656
 Area:6177051
 SI:98
 Conc.:45.653ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	314272	27.23	26.21
2	229	223391	19.36	19.36

ID#:36 R.Time:24.7(Scan#:5291)

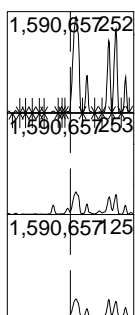
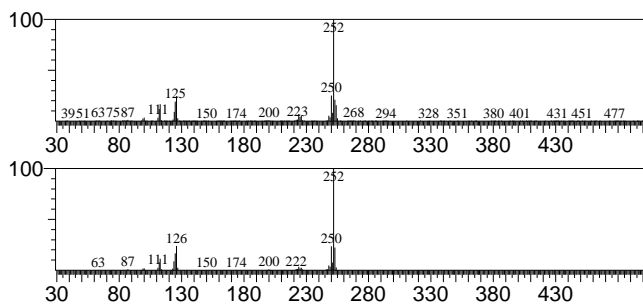


ID#:36 Mass:228.00
 Type:Target
 Name:Chrysene

R.T.:24.742
 Area:5398227
 SI:96
 Conc.:41.979ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	384255	30.33	29.42
2	229	272022	21.47	19.66

ID#:39 R.Time:27.1(Scan#:5851)

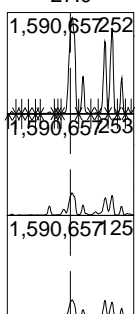
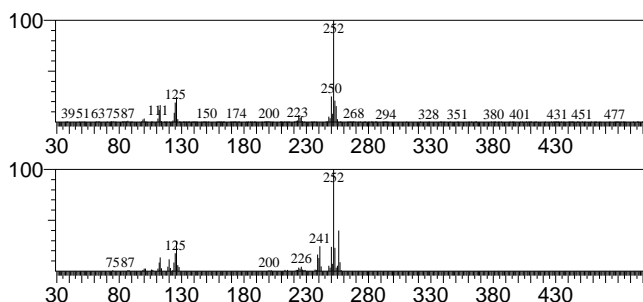


ID#:39 Mass:252.00
 Type:Target
 Name:Benzo[b]fluoranthene

R.T.:27.073
 Area:9434603
 SI:96
 Conc.:75.043ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	301364	22.19	20.50
2	125	241110	17.75	14.60

ID#:40 R.Time:27.1(Scan#:5851)

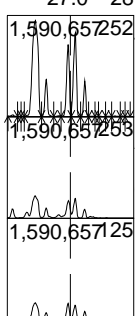
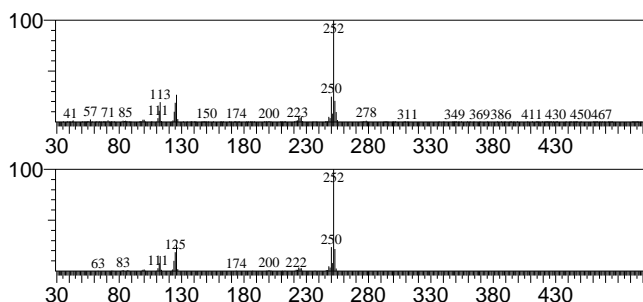


ID#:40 Mass:252.00
 Type:Target
 Name:Benzo[k]fluoranthene

R.T.:27.073
 Area:9446749
 SI:81
 Conc.:79.309ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	301364	22.19	20.19
2	125	241110	17.75	14.03

ID#:41 R.Time:27.7(Scan#:6003)

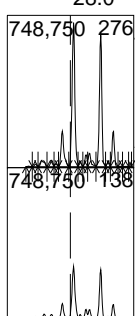
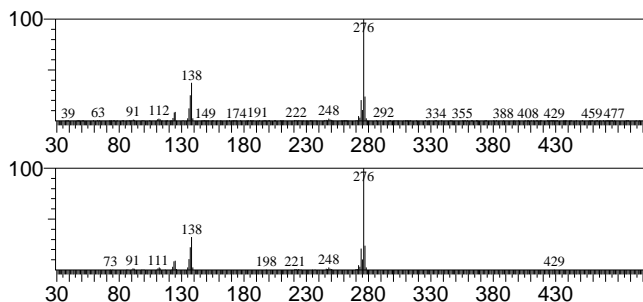


ID#:41 Mass:252.00
 Type:Target
 Name:Benzo[a]pyrene

R.T.:27.705
 Area:4345814
 SI:97
 Conc.:39.311ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	270913	21.88	21.99
2	125	218009	17.61	17.18

ID#:42 R.Time:29.8(Scan#:6495)

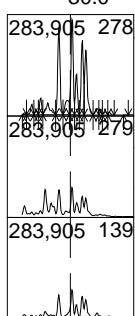
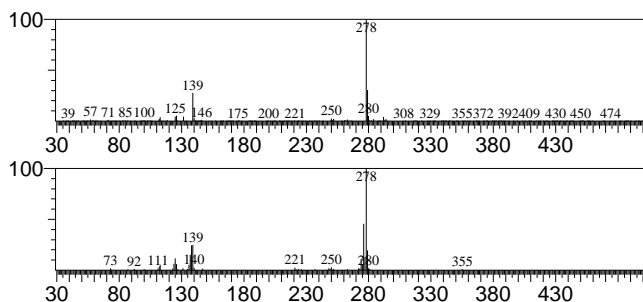


ID#:42 Mass:276.00
 Type:Target
 Name:Indeno[1,2,3-cd]pyrene

R.T.:29.761
 Area:2223924
 SI:98
 Conc.:21.535ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	236217	35.97	32.23

ID#:43 R.Time:29.8(Scan#:6503)

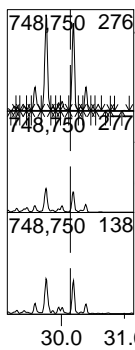
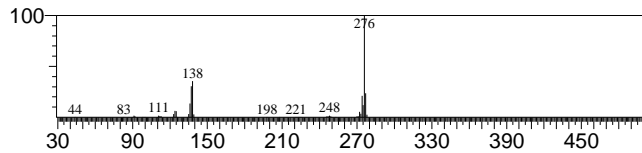
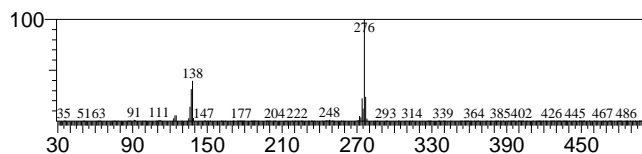


ID#:43 Mass:278.00
 Type:Target
 Name:Dibenz[a,h]anthracene

R.T.:29.795
 Area:688556
 SI:70
 Conc.:6.961ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	73522	29.98	23.98
2	139	66872	27.27	28.79

ID#:44 R.Time:30.2(Scan#:6599)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.191
Area:1776482
SI:98
Conc.:16.384ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	147566	23.11	23.18
2	138	240454	37.66	37.16

Data File : Q:\SVOA\MS4\0613\062713\SV415881.qgd
 Method File : Q:\SVOA\MS4\0613\062713\SIMA4AW062713.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP_030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 10:13:20 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-07
 Sample ID : 100
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 22
 Injection Volume : 1

Internal Standard

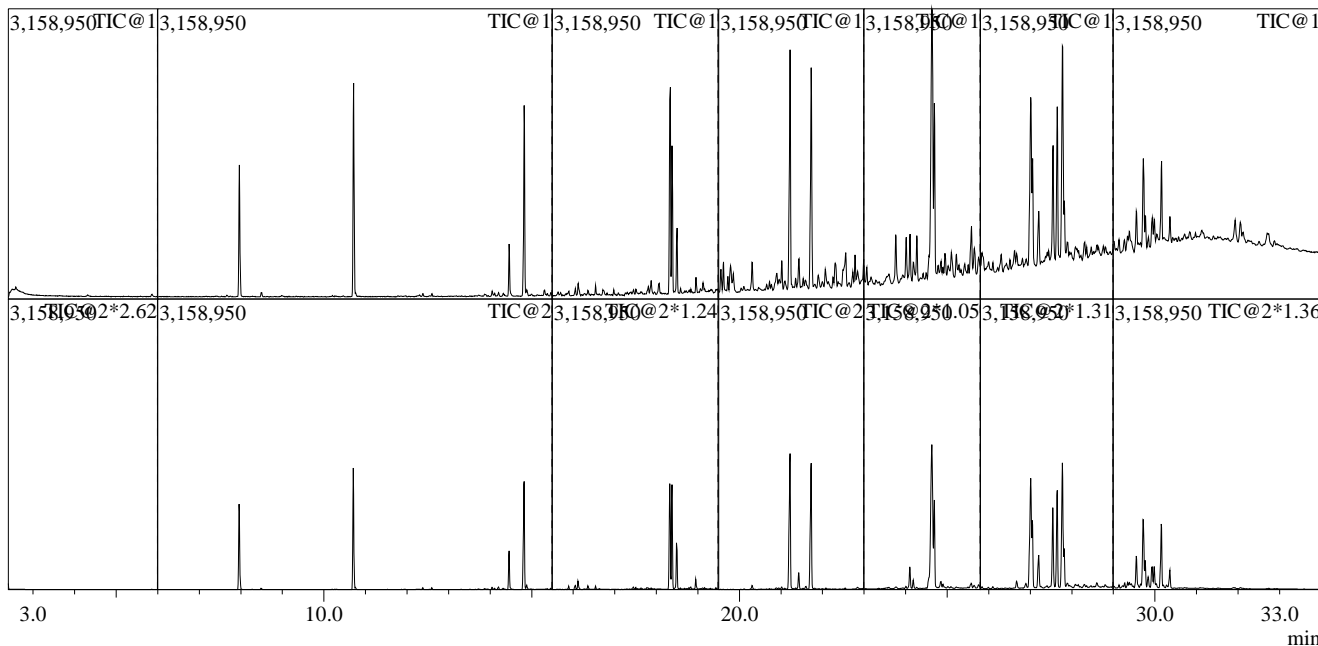
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.96	152	496571	20.0000	ng/uL	111.10
2	Naphthalene-D10	10.71	136	1908763	20.0000	ng/uL	112.54
3	Acenaphthene-D10	14.81	164	789567	20.0000	ng/uL	106.11
4	Phenanthrene-D10	18.32	188	1543424	20.0000	ng/uL	106.59
5	Chrysene-D12	24.64	240	1989269	20.0000	ng/uL	104.70
6	Perylene-D12	27.77	264	1858272	20.0000	ng/uL	101.93
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

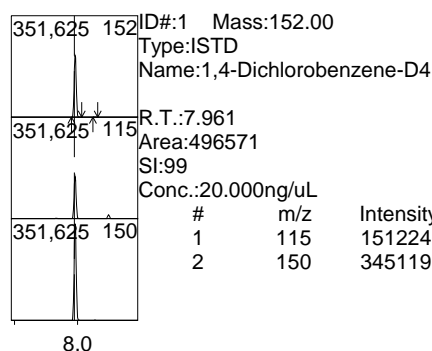
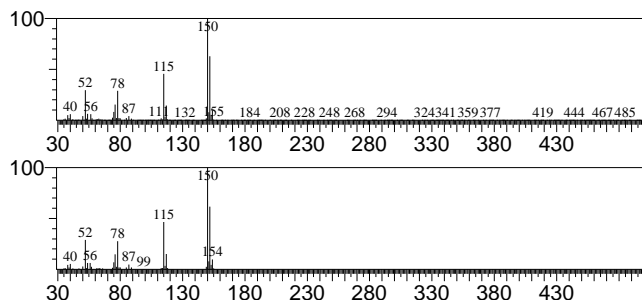
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	-	152	---	N.D.	ng/uL	-
8	Nitrobenzene-D5 (Surr)	-	82	---	N.D.	ng/uL	-
9	2-Fluorobiphenyl (Surr)	-	172	---	N.D.	ng/uL	-
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.(Peak)	ng/uL	-
11	Terphenyl-D14 (Surr)	-	244	---	N.D.	ng/uL	-
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.75	128	31726	0.2779	ng/uL	93
18	2-Methylnaphthalene	12.38	142	17627	0.2387	ng/uL	95
19	1-Methylnaphthalene	12.59	142	18560	0.2550	ng/uL	96
20	Biphenyl	13.51	154	3762	0.0477	ng/uL	89
22	Acenaphthylene	14.46	152	497177	4.9729	ng/uL	82
23	Acenaphthene	14.88	153	26285	0.4106	ng/uL	92
24	Fluorene	16.12	166	74645	1.0712	ng/uL	97
29	Phenanthrene	18.38	178	1002626	9.2253	ng/uL	92
30	Anthracene	18.49	178	476111	4.3827	ng/uL	99
32	Fluoranthene	21.21	202	2474326	19.6175	ng/uL	98
33	Pyrene	21.72	202	2196978	16.1277	ng/uL	98
35	Benz[a]anthracene	24.61	228	1544011	11.2107	ng/uL	98
36	Chrysene	24.69	228	1402769	10.7167	ng/uL	96
39	Benzo[b]fluoranthene	27.01	252	2050568	13.9370	ng/uL	96
40	Benzo[k]fluoranthene	27.04	252	769944	5.5235	ng/uL	73
41	Benzo[a]pyrene	27.65	252	1378946	10.6586	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.72	276	879167	7.2746	ng/uL	98
43	Dibenz[a,h]anthracene	29.77	278	256601	2.2167	ng/uL	94
44	Benzo[ghi]perylene	30.15	276	730539	5.7571	ng/uL	98



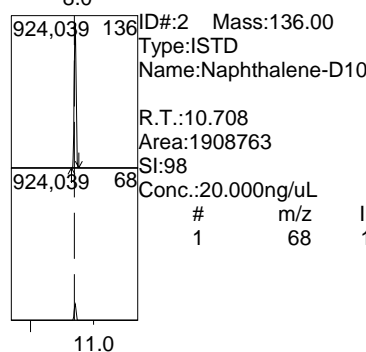
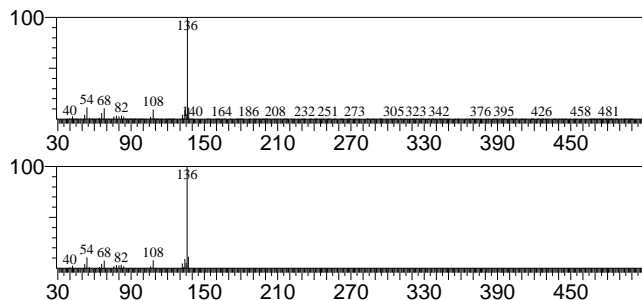
ID#:1 R.Time:8.0(Scan#:1335)



ID#:1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.961
 Area:496571
 SI:99
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	151224	68.61	64.48
2	150	345119	156.58	153.57

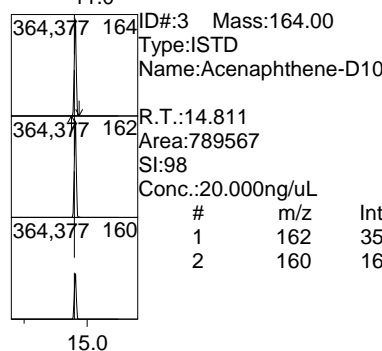
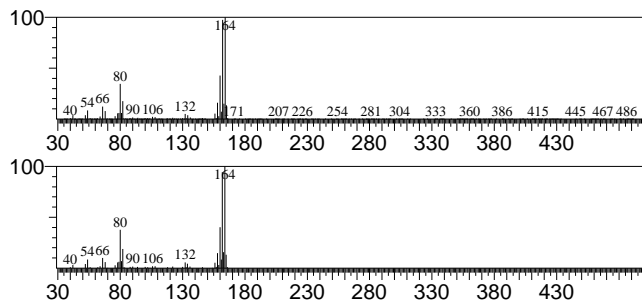
ID#:2 R.Time:10.7(Scan#:1995)



ID#:2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.708
 Area:1908763
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	103141	11.15	10.82

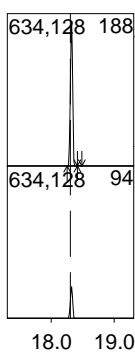
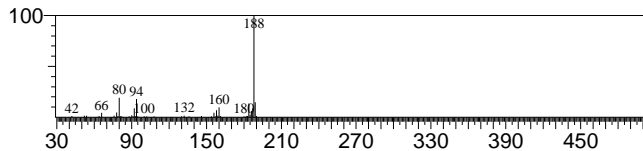
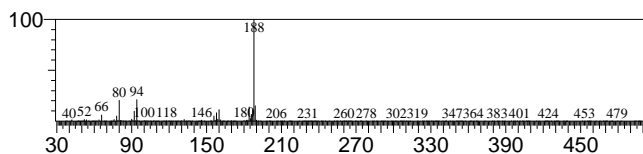
ID#:3 R.Time:14.8(Scan#:2979)



ID#:3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.811
 Area:789567
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	353712	99.93	99.23
2	160	166244	46.97	46.00

ID#:4 R.Time:18.3(Scan#:3773)

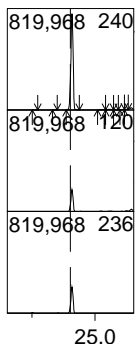
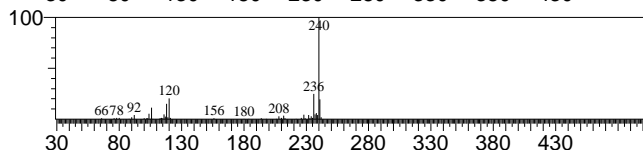
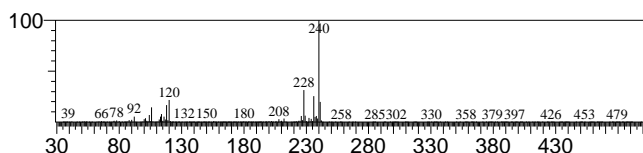


ID#:4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.323
Area:1543424
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	133085	21.52	19.88

ID#:5 R.Time:24.6(Scan#:5265)

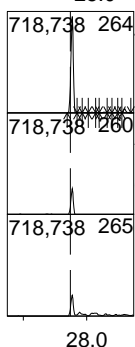
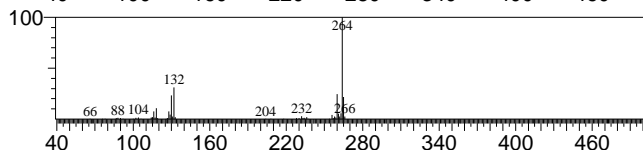
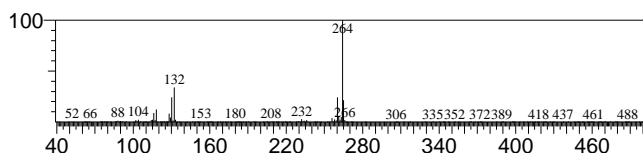


ID#:5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.636
Area:1989269
SI:94

#	m/z	Intensity	Ratio	Setting
1	120	173837	22.64	20.31
2	236	209342	27.26	26.45

ID#:6 R.Time:27.8(Scan#:6019)

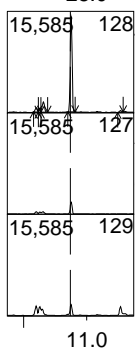
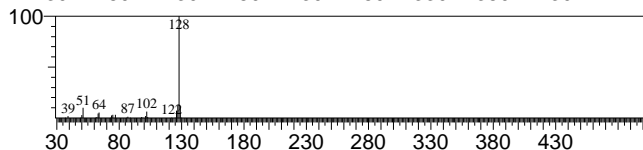
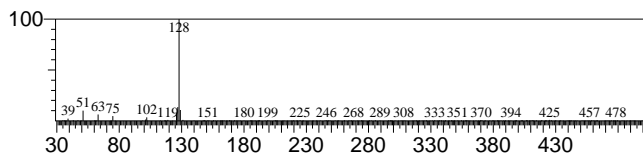


ID#:6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.773
Area:1858272
SI:98

#	m/z	Intensity	Ratio	Setting
1	260	178962	26.56	26.41
2	265	141887	21.06	22.02

ID#:17 R.Time:10.8(Scan#:2005)

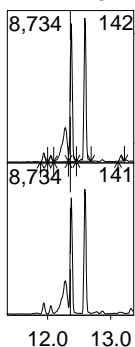
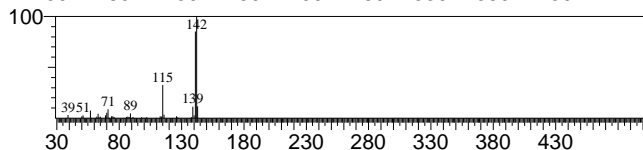
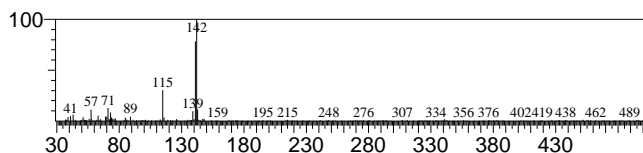


ID#:17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.754
Area:31726
SI:93

#	m/z	Intensity	Ratio	Setting
1	127	1953	12.63	12.53
2	129	1715	11.09	10.49

ID#:18 R.Time:12.4(Scan#:2395)

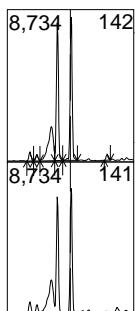
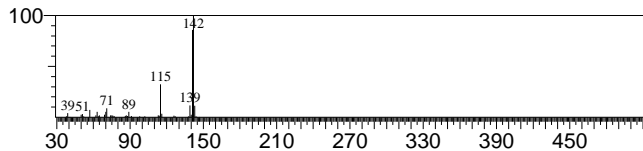
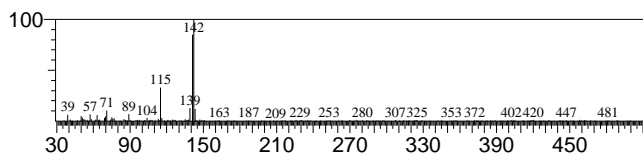


ID#:18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.376
Area:17627
SI:95

#	m/z	Intensity	Ratio	Setting
1	141	6829	83.41	83.37

ID#:19 R.Time:12.6(Scan#:2447)

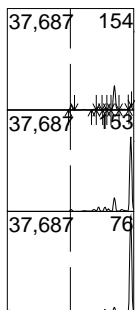
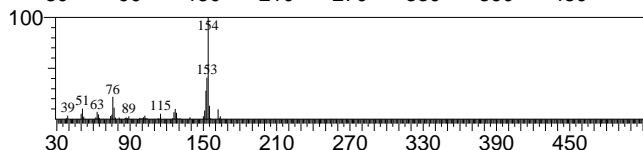
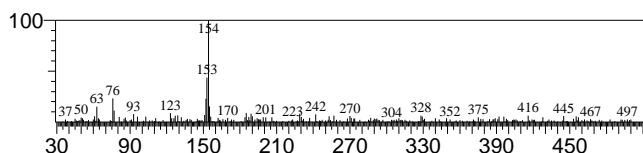


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.594
Area:18560
SI:96
Conc.:0.255ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	7412	86.18	87.35

ID#:20 R.Time:13.5(Scan#:2667)

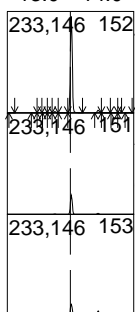
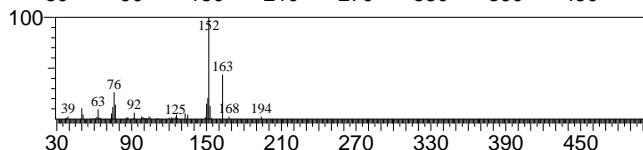
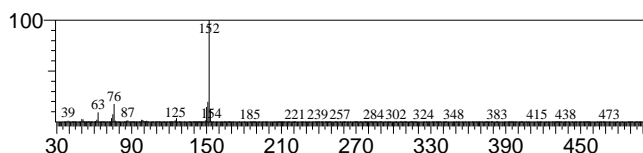


ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.511
Area:3762
SI:89
Conc.:0.048ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	678	37.63	38.35
2	76	346	19.20	20.37

ID#:22 R.Time:14.5(Scan#:2895)

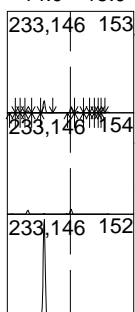
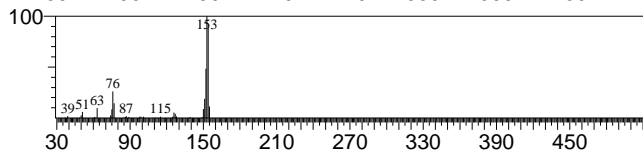
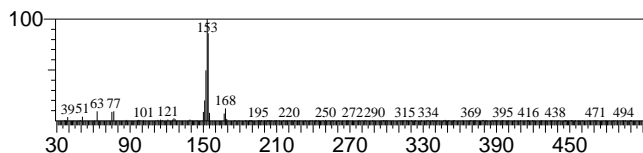


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.456
Area:497177
SI:82
Conc.:4.973ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	45738	19.75	19.61
2	153	28781	12.43	12.58

ID#:23 R.Time:14.9(Scan#:2997)

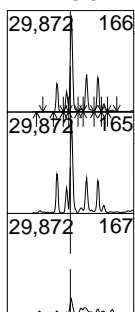
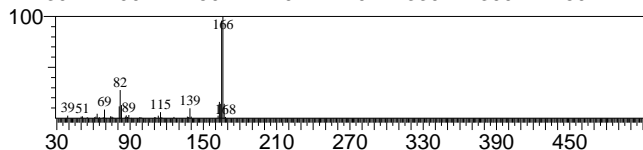
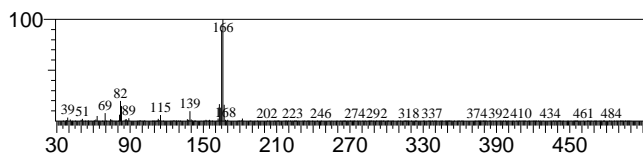


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.881
Area:26285
SI:92
Conc.:0.411ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	11146	88.09	94.96
2	152	6435	50.86	48.87

ID#:24 R.Time:16.1(Scan#:3281)

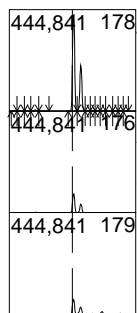
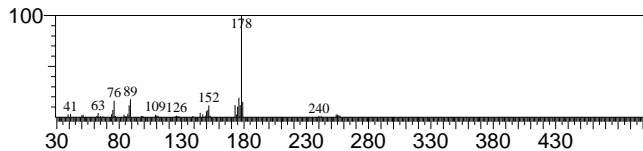
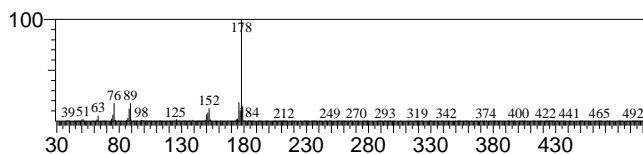


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.115
Area:74645
SI:97
Conc.:1.071ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	27191	93.54	91.81
2	167	4508	15.51	12.42

ID#:29 R.Time:18.4(Scan#:3785)

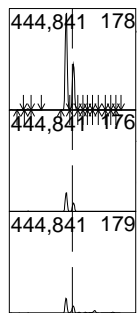
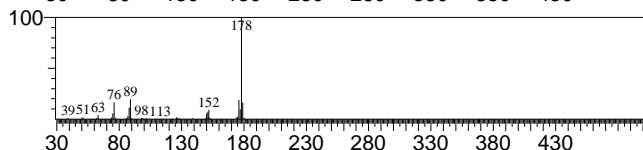
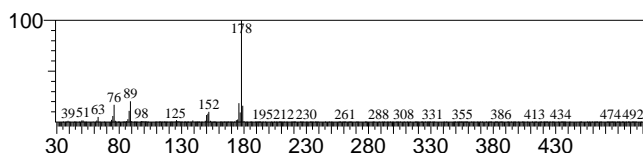


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.376
Area:1002626
SI:92
Conc.:9.225ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	85676	19.35	18.95
2	179	61108	13.80	15.06

ID#:30 R.Time:18.5(Scan#:3809)

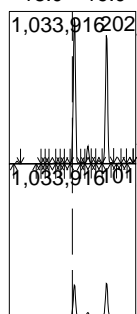
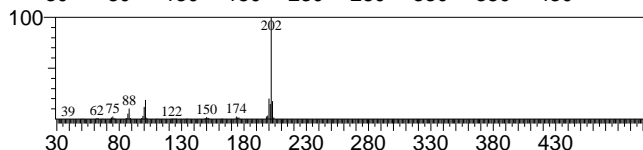
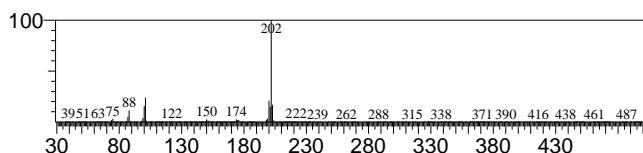


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.490
Area:476111
SI:99
Conc.:4.383ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	38747	18.57	18.49
2	179	31224	14.96	15.34

ID#:32 R.Time:21.2(Scan#:4443)

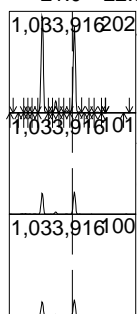
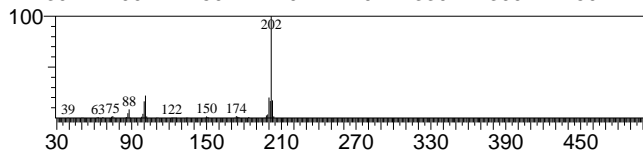
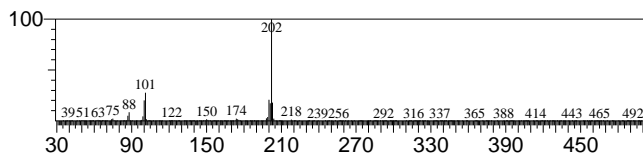


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.211
Area:2474326
SI:98
Conc.:19.617ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	208938	21.66	20.26

ID#:33 R.Time:21.7(Scan#:4565)

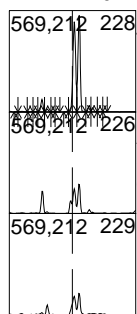
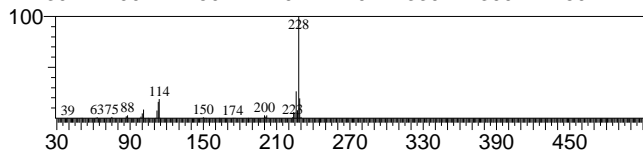
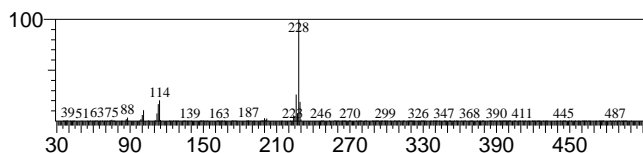


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.720
Area:2196978
SI:98
Conc.:16.128ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	219254	25.52	23.39
2	100	160071	18.63	16.94

ID#:35 R.Time:24.6(Scan#:5259)

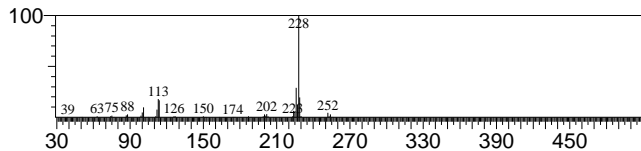
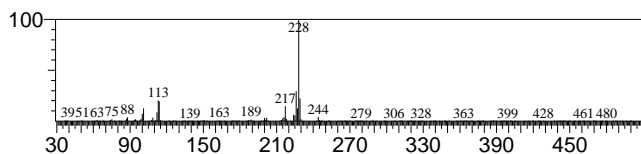


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.611
Area:1544011
SI:98
Conc.:11.211ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	118776	26.73	26.32
2	229	87293	19.65	19.39

ID#:36 R.Time:24.7(Scan#:5279)



ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.688
Area:1402769
SI:96
Conc.:10.717ng/uL

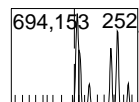
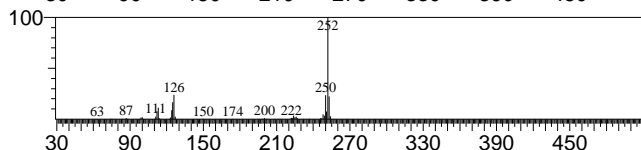
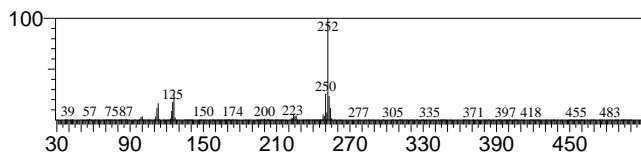
#	m/z	Intensity	Ratio	Setting
1	226	151671	29.54	29.38
2	229	109478	21.32	19.67

ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

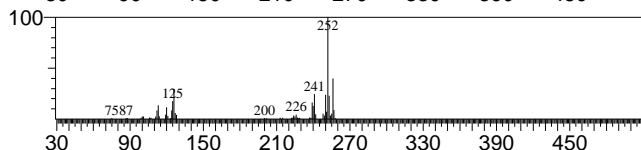
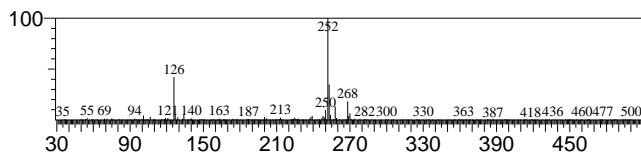
R.T.:27.007
Area:2050568
SI:96
Conc.:13.937ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	98324	22.69	20.54
2	125	79670	* 18.39	13.71

ID#:39 R.Time:27.0(Scan#:5835)



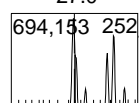
ID#:40 R.Time:27.0(Scan#:5843)



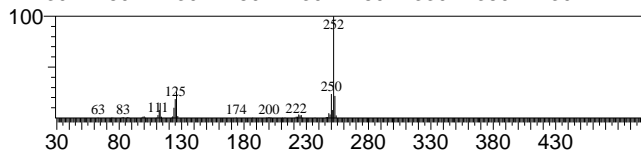
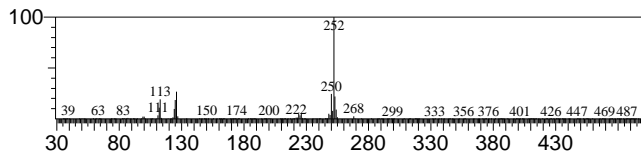
ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.042
Area:769944
SI:73
Conc.:5.523ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	23957	25.24	19.81
2	125	13246	13.96	13.26



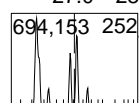
ID#:41 R.Time:27.6(Scan#:5987)



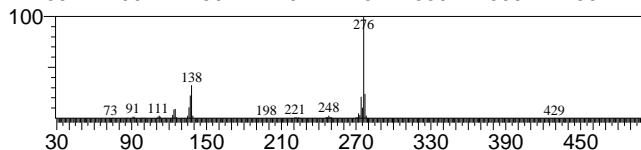
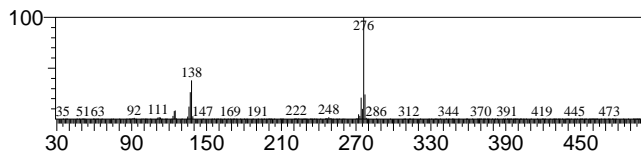
ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.645
Area:1378946
SI:97
Conc.:10.659ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	119248	22.72	21.50
2	125	98578	18.78	16.30



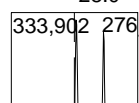
ID#:42 R.Time:29.7(Scan#:6485)



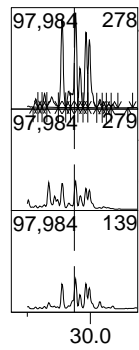
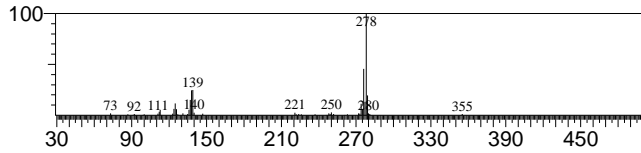
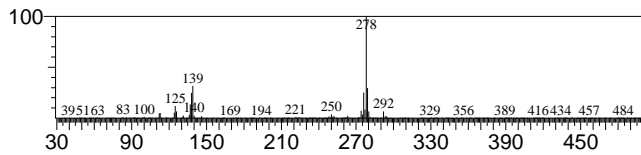
ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.720
Area:879167
SI:98
Conc.:7.275ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	121607	39.11	31.69



ID#:43 R.Time:29.8(Scan#:6497)

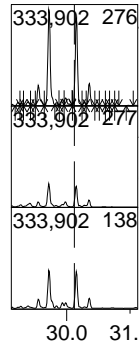
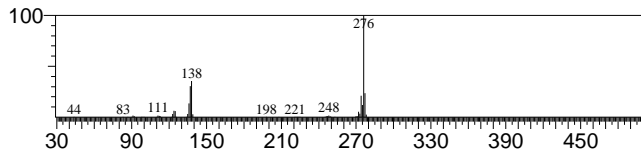
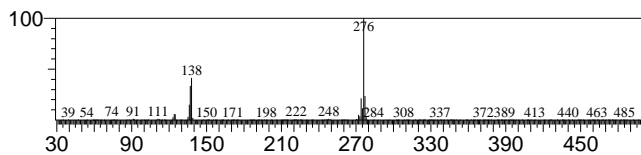


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.765
Area:256601
SI:94
Conc.:2.217ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	25023	28.32	24.49
2	139	27734	31.39	29.48

ID#:44 R.Time:30.2(Scan#:6589)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.152
Area:730539
SI:98
Conc.:5.757ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	68166	23.66	24.57
2	138	120606	41.87	37.24

Data File : Q:\SVOA\MS4\0613\062713\SV415884.qgd
 Method File : Q:\SVOA\MS4\0613\062713\SIMA4AW062713.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP_030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 12:40:27 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1306385-04
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 25
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.96	152	548771	20.0000	ng/uL	122.78
2	Naphthalene-D10	10.71	136	2134157	20.0000	ng/uL	125.83
3	Acenaphthene-D10	14.81	164	924060	20.0000	ng/uL	124.18
4	Phenanthrene-D10	18.32	188	1693625	20.0000	ng/uL	116.97
5	Chrysene-D12	24.63	240	2066311	20.0000	ng/uL	108.76
6	Perylene-D12	27.77	264	1731988	20.0000	ng/uL	95.01
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

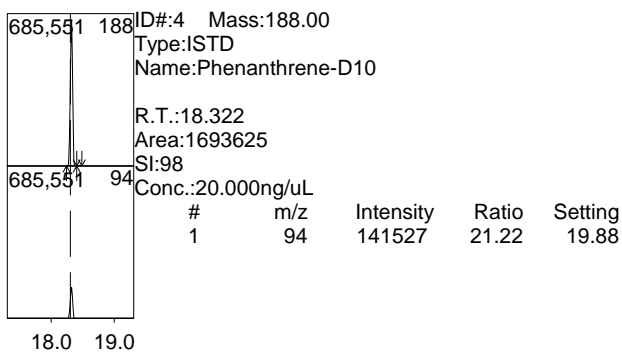
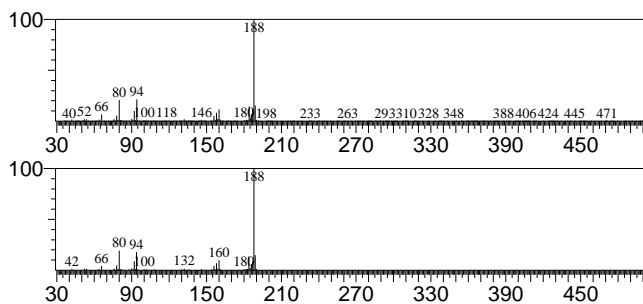
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.27	152	31822	1.11	ng/uL	44.2700
8	Nitrobenzene-D5 (Surr)	9.15	82	48364	1.32	ng/uL	52.9600
9	2-Fluorobiphenyl (Surr)	13.30	172	108144	1.38	ng/uL	55.3900
10	2,4,6-Tribromophenol (Surr)	16.69	330	9263	2.15	ng/uL	57.2900
11	Terphenyl-D14 (Surr)	22.25	244	137776	1.66	ng/uL	66.3800
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.75	128	55906	0.4380	ng/uL	96
18	2-Methylnaphthalene	12.37	142	36570	0.4429	ng/uL	90
19	1-Methylnaphthalene	12.59	142	33331	0.4095	ng/uL	96
20	Biphenyl	13.51	154	12415	0.1345	ng/uL	92
22	Acenaphthylene	14.45	152	278061	2.3765	ng/uL	82
23	Acenaphthene	14.88	153	21488	0.2868	ng/uL	91
24	Fluorene	16.11	166	51008	0.6255	ng/uL	96
29	Phenanthrene	18.38	178	1211758	10.1607	ng/uL	91
30	Anthracene	18.49	178	376289	3.1566	ng/uL	98
31	Di-n-butylphthalate	20.00	149	583813	3.6158	ng/uL	98
32	Fluoranthene	21.21	202	1955125	14.1263	ng/uL	98
33	Pyrene	21.72	202	1782245	12.5954	ng/uL	98
34	Butylbenzylphthalate	23.54	149	39670	0.5716	ng/uL	95
35	Benz[a]anthracene	24.61	228	1038969	7.2624	ng/uL	98
36	Chrysene	24.68	228	998649	7.3449	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.03	149	1042494	10.2967	ng/uL	98
39	Benzo[b]fluoranthene	27.00	252	1301222	9.4888	ng/uL	97
40	Benzo[k]fluoranthene	27.04	252	423858	3.2624	ng/uL	78
41	Benzo[a]pyrene	27.64	252	839492	6.9620	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.72	276	419895	3.7277	ng/uL	98
43	Dibenz[a,h]anthracene	29.77	278	102212	0.9474	ng/uL	67
44	Benzo[ghi]perylene	30.15	276	340933	2.8827	ng/uL	97

ID#:4 R.Time:18.3(Scan#:3773)

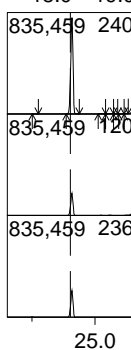
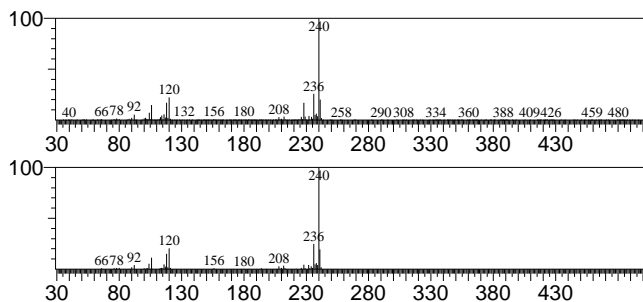


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.322
Area:1693625
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	141527	21.22	19.88

ID#5 R.Time:24.6(Scan#:5265)

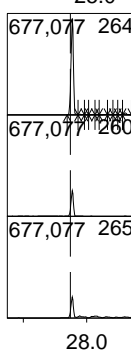
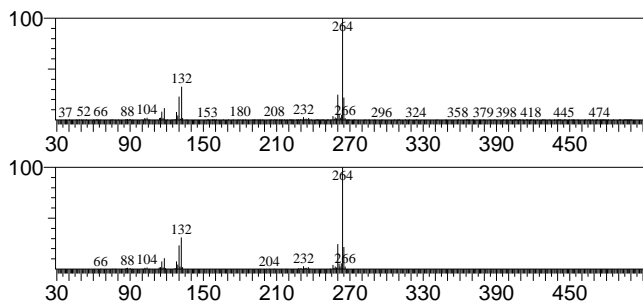


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.634
Area:2066311
SI:96
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	180174	23.04	20.31
2	236	215223	27.52	26.45

ID#6 R.Time:27.8(Scan#:6019)

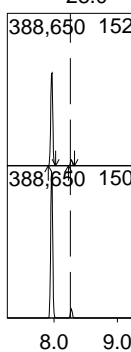
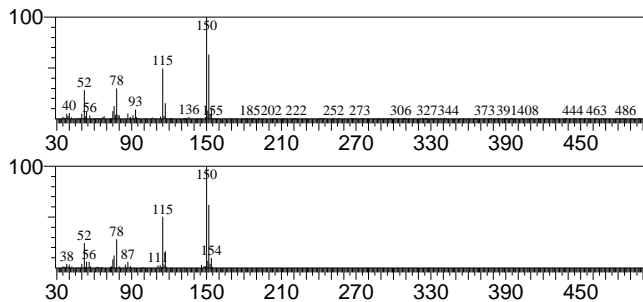


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.775
Area:1731988
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	166848	26.55	26.41
2	265	134165	21.35	22.02

ID#7 R.Time:8.3(Scan#:1411)

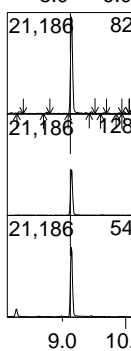
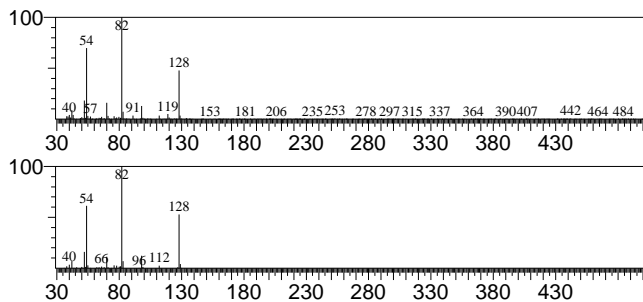


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.274
Area:31822
SI:96
Conc.:1.107ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	23815	157.24	155.80

ID#8 R.Time:9.1(Scan#:1619)

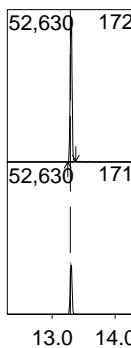
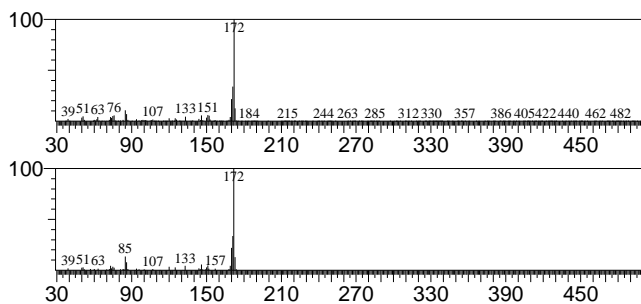


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.145
Area:48364
SI:97
Conc.:1.324ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	9883	47.34	49.40
2	54	15158	72.61	70.65

ID#:9 R.Time:13.3(Scan#:2617)



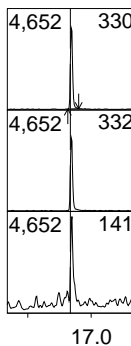
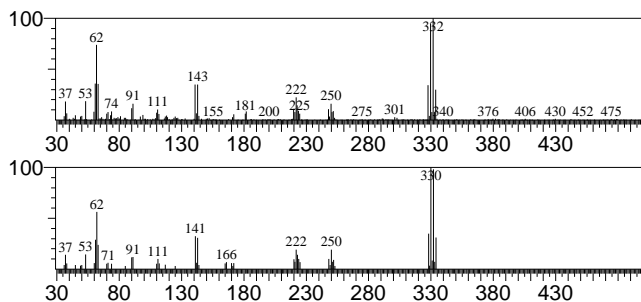
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.302
Area:108144
SI:96

Conc.:1.385ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	17809	33.65	33.74

ID#:10 R.Time:16.7(Scan#:3409)



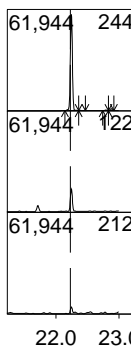
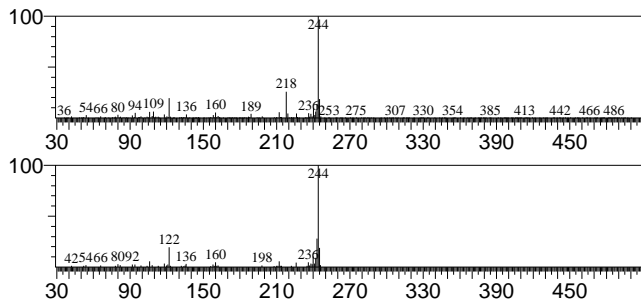
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.691
Area:9263
SI:95

Conc.:2.148ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	3495	90.19	93.03
2	141	3340	* 86.19	125.39

ID#:11 R.Time:22.2(Scan#:4691)



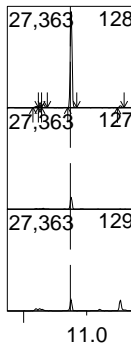
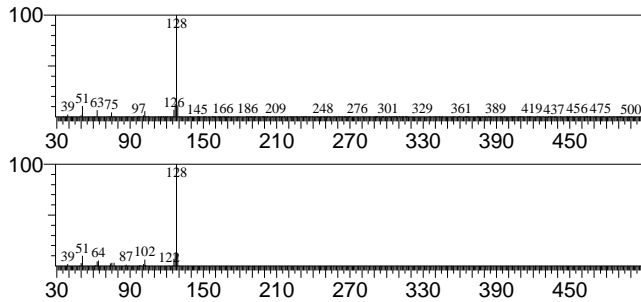
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.245
Area:137776
SI:96

Conc.:1.660ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	14187	23.55	20.59
2	212	4161	6.91	6.58

ID#:17 R.Time:10.8(Scan#:2005)



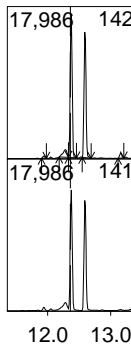
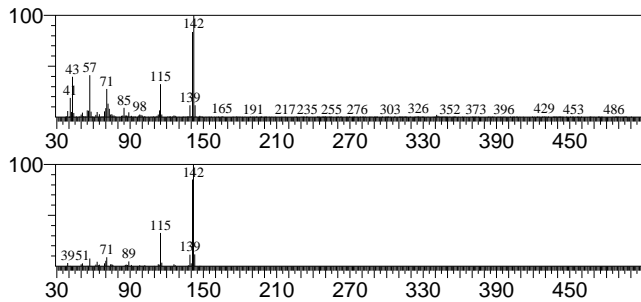
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.753
Area:55906
SI:96

Conc.:0.438ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	3428	12.48	12.53
2	129	3104	11.30	10.49

ID#:18 R.Time:12.4(Scan#:2395)



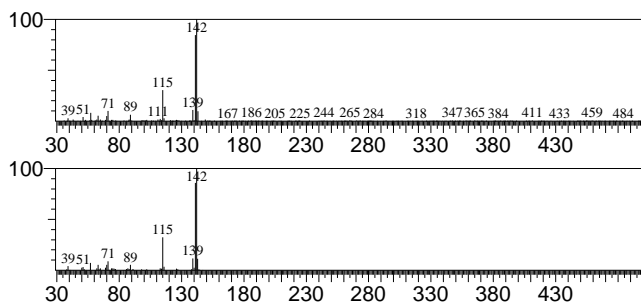
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.375
Area:36570
SI:90

Conc.:0.443ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	14956	83.29	83.37

ID#:19 R.Time:12.6(Scan#:2447)

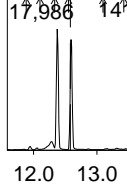


ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

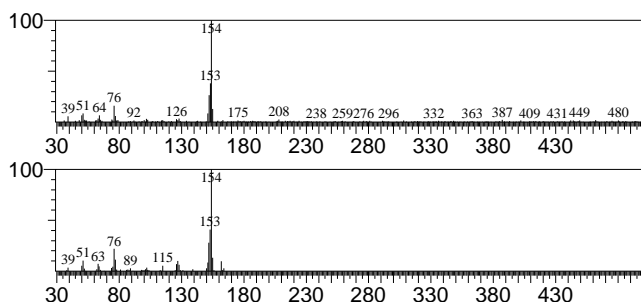
R.T.:12.594
Area:33331
SI:96

Conc.:0.410ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	13654	87.63	87.35



ID#:20 R.Time:13.5(Scan#:2667)

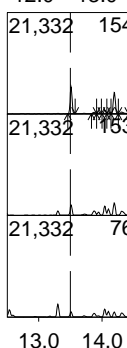


ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

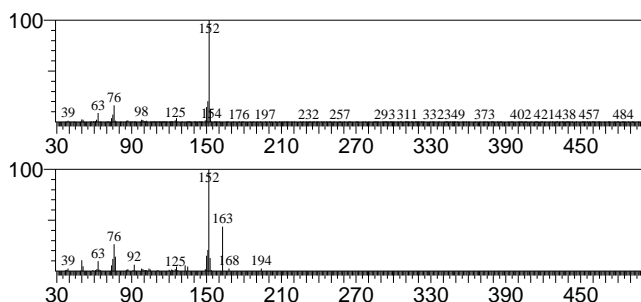
R.T.:13.511
Area:12415
SI:92

Conc.:0.135ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	2291	38.68	38.35
2	76	1170	19.75	20.37



ID#:22 R.Time:14.5(Scan#:2893)

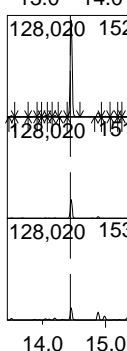


ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

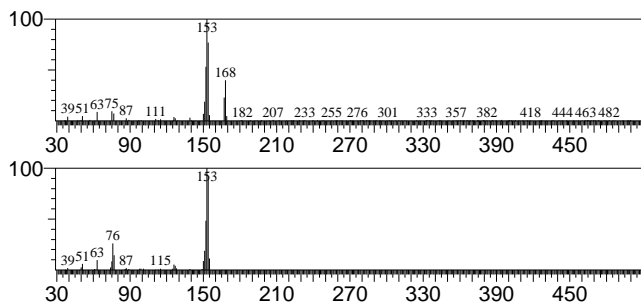
R.T.:14.454
Area:278061
SI:82

Conc.:2.376ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	24477	19.41	19.61
2	153	16024	12.71	12.58



ID#:23 R.Time:14.9(Scan#:2997)

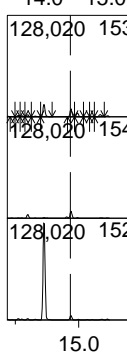


ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

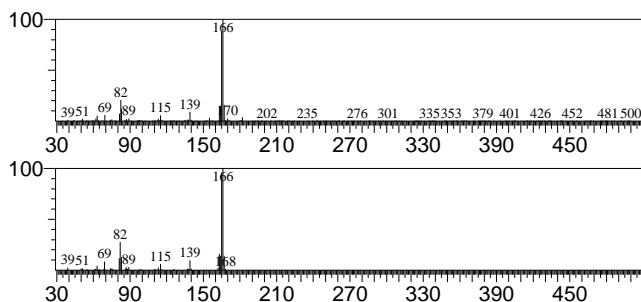
R.T.:14.880
Area:21488
SI:91

Conc.:0.287ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	8402	83.61	94.96
2	152	5594	55.67	48.87



ID#:24 R.Time:16.1(Scan#:3281)

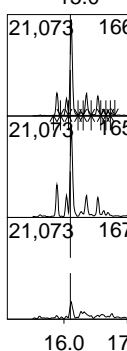


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

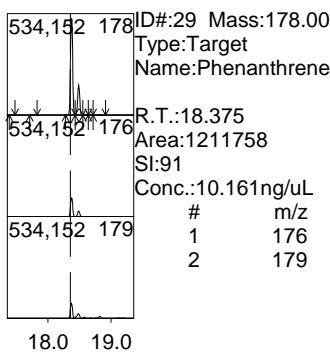
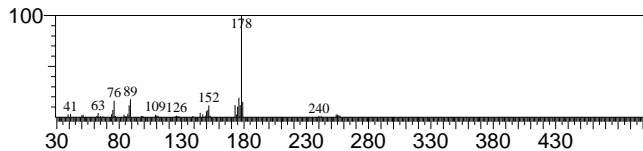
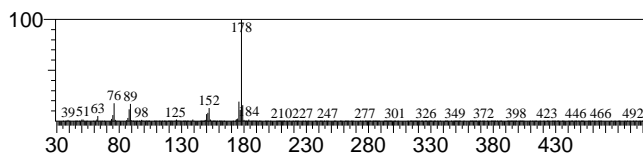
R.T.:16.113
Area:51008
SI:96

Conc.:0.625ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	19318	93.59	91.81
2	167	3311	16.04	12.42



ID#:29 R.Time:18.4(Scan#:3783)

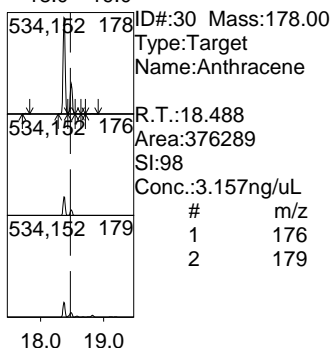
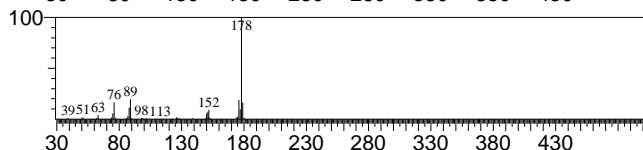
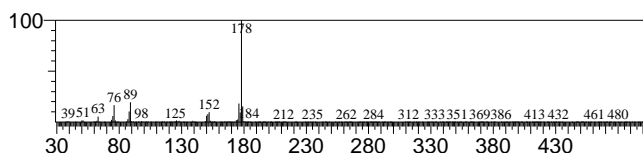


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.375
Area:1211758
SI:91
Conc.:10.161ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	102238	19.24	18.95
2	179	81733	15.38	15.06

ID#:30 R.Time:18.5(Scan#:3809)

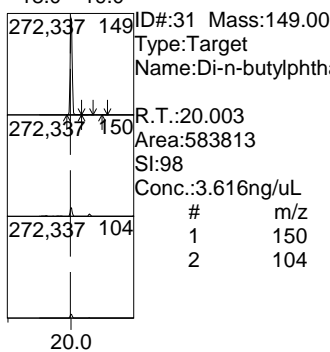
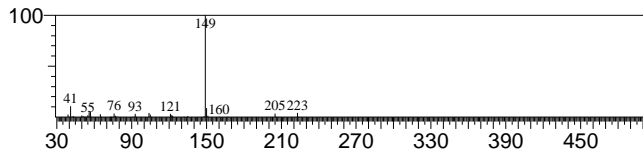
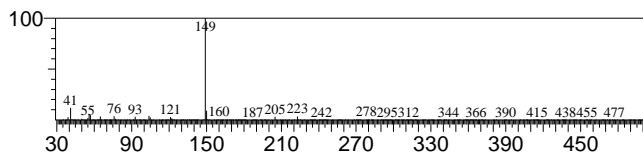


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.488
Area:376289
SI:98
Conc.:3.157ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	30285	18.40	18.49
2	179	23467	14.26	15.34

ID#:31 R.Time:20.0(Scan#:4153)

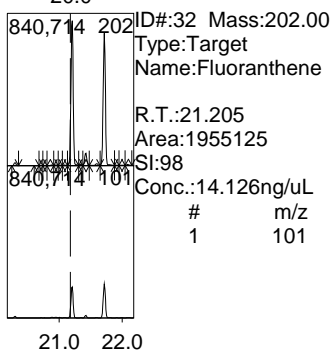
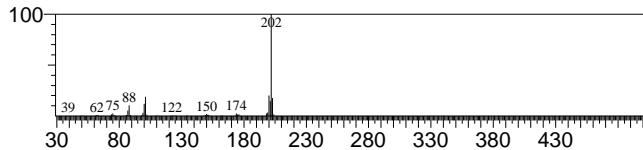
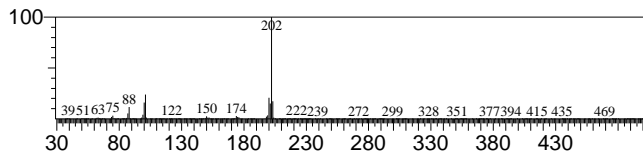


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.003
Area:583813
SI:98
Conc.:3.616ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	23989	8.90	8.65
2	104	10902	4.04	3.90

ID#:32 R.Time:21.2(Scan#:4443)

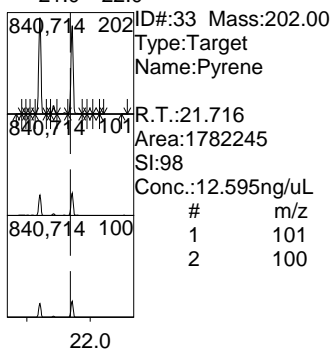
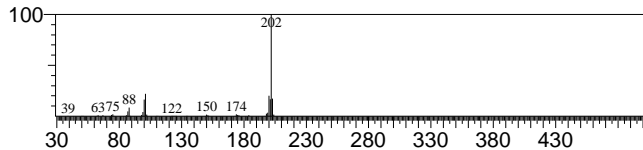
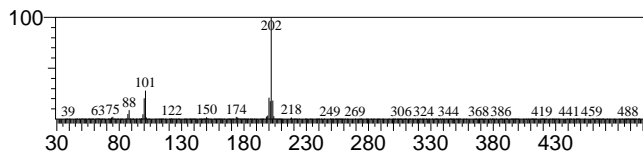


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.205
Area:1955125
SI:98
Conc.:14.126ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	175184	21.45	20.26

ID#:33 R.Time:21.7(Scan#:4565)

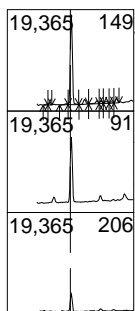
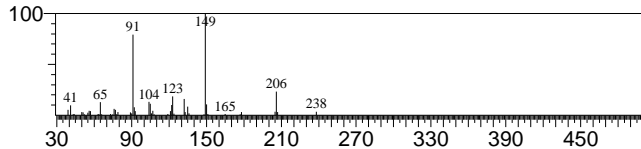
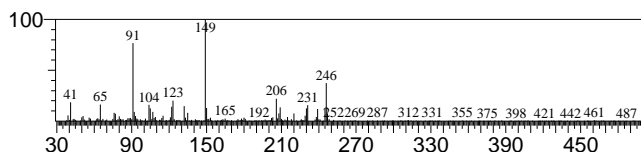


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.716
Area:1782245
SI:98
Conc.:12.595ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	190845	25.51	23.39
2	100	136290	18.22	16.94

ID#:34 R.Time:23.5(Scan#:5003)

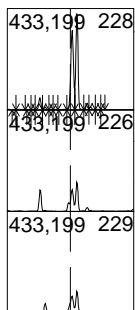
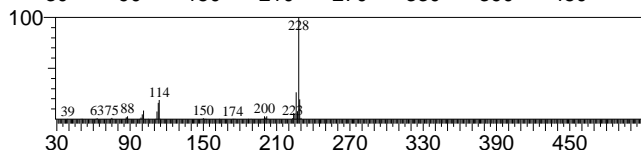
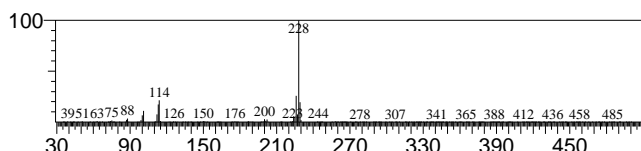


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.544
Area:39670
SI:95
Conc.:0.572ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	12826	72.12	69.74
2	206	3403	19.13	20.16

ID#:35 R.Time:24.6(Scan#:5259)

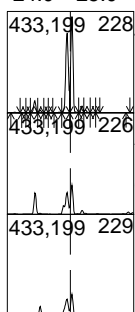
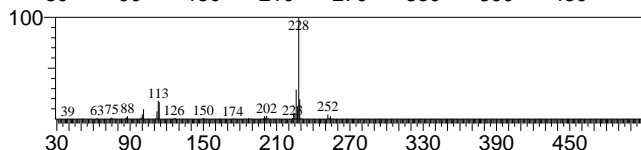
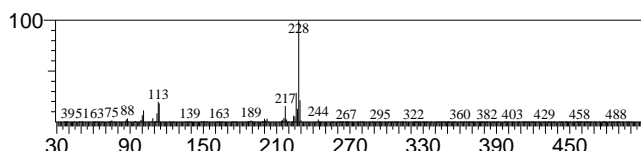


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.608
Area:1038969
SI:98
Conc.:7.262ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	77034	26.51	26.32
2	229	57698	19.85	19.39

ID#:36 R.Time:24.7(Scan#:5277)

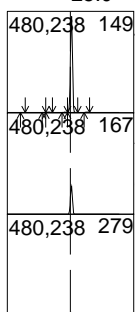
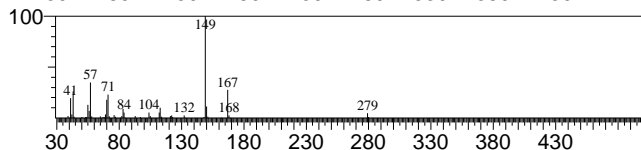
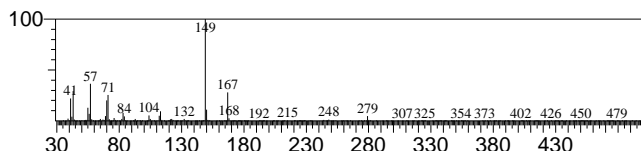


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.685
Area:998649
SI:96
Conc.:7.345ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	112919	29.88	29.38
2	229	81612	21.60	19.67

ID#:37 R.Time:25.0(Scan#:5361)

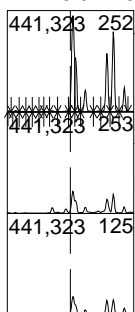
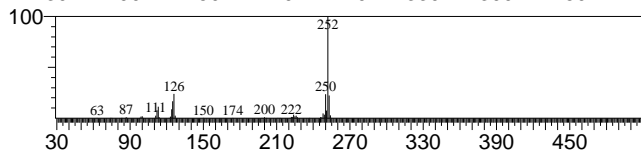
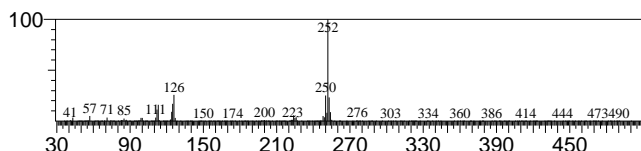


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.033
Area:1042494
SI:98
Conc.:10.297ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	134085	28.56	28.40
2	279	17256	3.68	4.04

ID#:39 R.Time:27.0(Scan#:5833)

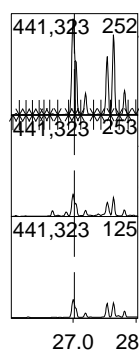
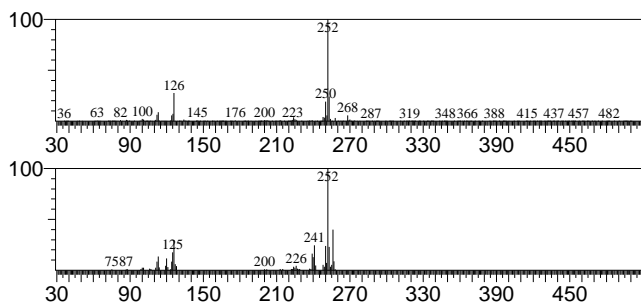


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.003
Area:1301222
SI:97
Conc.:9.489ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	68028	22.37	20.54
2	125	54789	* 18.01	13.71

ID#:40 R.Time:27.0(Scan#:5843)

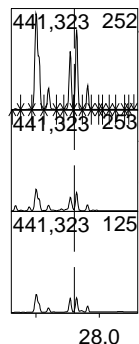
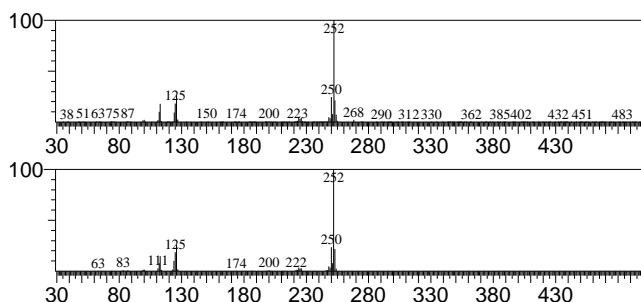


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.042
Area:423858
SI:78
Conc.:3.262ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	19676	23.28	19.81
2	125	12719	15.05	13.26

ID#:41 R.Time:27.6(Scan#:5987)

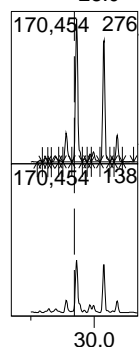
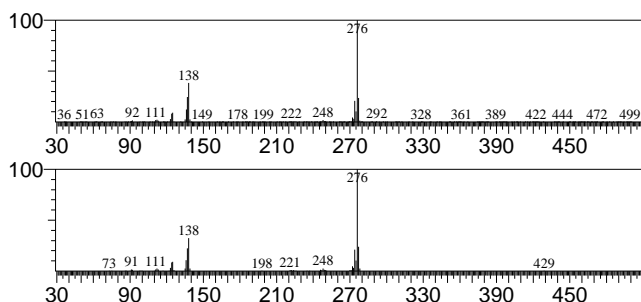


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.642
Area:839492
SI:97
Conc.:6.962ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	78694	22.36	21.50
2	125	61043	17.34	16.30

ID#:42 R.Time:29.7(Scan#:6487)

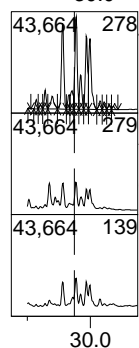
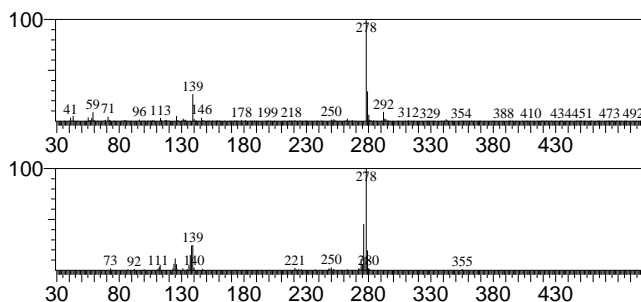


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.724
Area:419895
SI:98
Conc.:3.728ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	58333	36.27	31.69

ID#:43 R.Time:29.8(Scan#:6499)

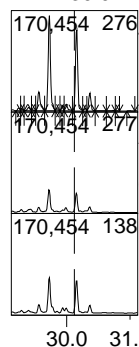
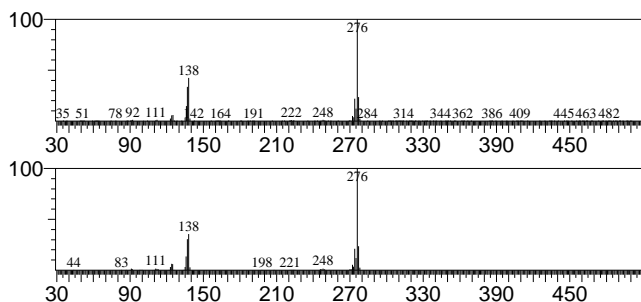


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.772
Area:102212
SI:67
Conc.:0.947ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	10352	28.05	24.49
2	139	10406	28.20	29.48

ID#:44 R.Time:30.2(Scan#:6591)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.155
Area:340933
SI:97
Conc.:2.883ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	28469	20.75	24.57
2	138	53744	39.18	37.24

PAH Quality Control Data

PREPARATION BATCH SUMMARY

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Batch: CF32503

Batch Matrix: Solid

Preparation: 3541

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SS-500-01	1306385-01	SV415849.D	06/25/13 09:30	MS/MSD - Data Package
SS-500-02	1306385-02	SV415854.D	06/25/13 09:30	Data Package
SS-501-01	1306385-03	SV415850.D	06/25/13 09:30	Data Package
SS-501-02	1306385-04	SV415884.D	06/25/13 09:30	Data Package
SS-502-01	1306385-05	SV415839.D	06/25/13 09:30	Data Package
SS-502-02	1306385-06	SV415840.D	06/25/13 09:30	Data Package
SS-505-01	1306385-07	SV415881.D	06/25/13 09:30	Data Package
SS-505-01	1306385-07	SV415856.D	06/25/13 09:30	Data Package
SS-505-01	1306385-07RE1	SV415881.D	06/25/13 09:30	Data Package
SS-505-02	1306385-08	SV415851.D	06/25/13 09:30	Data Package
SS-506-01	1306385-09	SV415841.D	06/25/13 09:30	Data Package
SS-506-02	1306385-10	SV415847.D	06/25/13 09:30	Data Package
SS-507-01	1306385-11	SV415852.D	06/25/13 09:30	Data Package
SS-507-02	1306385-12	SV415848.D	06/25/13 09:30	Data Package
DUP	1306385-13	SV415853.D	06/25/13 09:30	Data Package
Blank	CF32503-BLK1	SV415831.D	06/25/13 09:30	
LCS	CF32503-BS1	SV415829.D	06/25/13 09:30	
LCS Dup	CF32503-BSD1	SV415830.D	06/25/13 09:30	
SS-500-01	CF32503-MS1	SV415882.D	06/25/13 09:30	
SS-500-01	CF32503-MSD1	SV415883.D	06/25/13 09:30	

METHOD BLANK DATA SHEET

8270C SIM

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1306385</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>CF32503-BLK1</u>
Prepared:	<u>06/25/13 09:30</u>	Preparation:	<u>3541</u>
Analyzed:	<u>06/26/13 16:47</u>	Instrument:	<u>SVOAMS4</u>
Batch:	<u>CF32503</u>	Sequence:	<u>CWF0289</u>
		Calibration:	<u>1306027</u>

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
91-57-6	2-Methylnaphthalene	0.017	U
83-32-9	Acenaphthene	0.017	U
208-96-8	Acenaphthylene	0.017	U
120-12-7	Anthracene	0.017	U
56-55-3	Benzo(a)anthracene	0.017	U
50-32-8	Benzo(a)pyrene	0.017	U
205-99-2	Benzo(b)fluoranthene	0.017	U
191-24-2	Benzo(g,h,i)perylene	0.017	U
207-08-9	Benzo(k)fluoranthene	0.017	U
218-01-9	Chrysene	0.017	U
53-70-3	Dibenzo(a,h)Anthracene	0.017	U
206-44-0	Fluoranthene	0.017	U
86-73-7	Fluorene	0.017	U
193-39-5	Indeno(1,2,3-cd)Pyrene	0.017	U
91-20-3	Naphthalene	0.017	U
85-01-8	Phenanthrene	0.017	U
129-00-0	Pyrene	0.017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3333	0.152	46	30 - 130	
2-Fluorobiphenyl	0.3333	0.170	51	30 - 130	
Nitrobenzene-d5	0.3333	0.170	51	30 - 130	
p-Terphenyl-d14	0.3333	0.219	66	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	375569	7.96	472513	7.97	
Naphthalene-d8	1442750	10.71	1836680	10.71	
Acenaphthene-d10	650469	14.81	835030	14.82	
Phenanthrene-d10	1247718	18.32	1582059	18.32	
Chrysene-d12	1686303	24.62	2031218	24.63	
Perylene-d12	1526861	27.75	1986396	27.76	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

8270C SIM

SS-500-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CF32503

Laboratory ID: CF32503-MS1

Preparation: 3541

Initial/Final: 14.9 g / 0.5 ml

Source Sample Name: SS-500-01

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	0.2985	0.049	0.207	53	40 - 140
Acenaphthene	0.2985	0.031	0.274	81	40 - 140
Acenaphthylene	0.2985	0.682	0.935	85	40 - 140
Anthracene	0.2985	0.724	1.16	146 *	40 - 140
Benzo(a)anthracene	0.2985	1.55	2.19	217 *	40 - 140
Benzo(a)pyrene	0.2985	1.51	2.16	218 *	40 - 140
Benzo(b)fluoranthene	0.2985	2.42	3.10	228 *	40 - 140
Benzo(g,h,i)perylene	0.2985	0.807	1.15	114	40 - 140
Benzo(k)fluoranthene	0.2985	0.644	1.29	215 *	40 - 140
Chrysene	0.2985	1.58	2.51	309 *	40 - 140
Dibenzo(a,h)Anthracene	0.2985	0.291	0.558	89	40 - 140
Fluoranthene	0.2985	2.22	4.22	671 *	40 - 140
Fluorene	0.2985	0.051	0.302	84	40 - 140
Indeno(1,2,3-cd)Pyrene	0.2985	1.10	1.52	142 *	40 - 140
Naphthalene	0.2985	0.057	0.231	59	40 - 140
Phenanthrene	0.2985	0.680	2.29	540 *	40 - 140
Pyrene	0.2985	1.96	3.44	498 *	40 - 140

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #		QC LIMITS	
			REC. #	% RPD #	RPD	REC.
2-Methylnaphthalene	0.2888	0.126	27 *	48 *	30	40 - 140
Acenaphthene	0.2888	0.141	38 *	64 *	30	40 - 140
Acenaphthylene	0.2888	0.542	-49 *	53 *	30	40 - 140
Anthracene	0.2888	0.635	-31 *	58 *	30	40 - 140
Benzo(a)anthracene	0.2888	1.12	-146 *	65 *	30	40 - 140
Benzo(a)pyrene	0.2888	1.14	-128 *	62 *	30	40 - 140
Benzo(b)fluoranthene	0.2888	1.59	-288 *	65 *	30	40 - 140
Benzo(g,h,i)perylene	0.2888	0.603	-71 *	62 *	30	40 - 140
Benzo(k)fluoranthene	0.2888	0.737	32 *	54 *	30	40 - 140
Chrysene	0.2888	1.21	-128 *	70 *	30	40 - 140
Dibenzo(a,h)Anthracene	0.2888	0.325	12 *	53 *	30	40 - 140
Fluoranthene	0.2888	1.61	-212 *	90 *	30	40 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

8270C SIM

SS-500-01

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CF32503

Laboratory ID: CF32503-MSD1

Preparation: 3541

Initial/Final: 15.4 g / 0.5 ml

Source Sample Name: SS-500-01

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Fluorene	0.2888	0.175	43	53 *	30	40 - 140
Indeno(1,2,3-cd)Pyrene	0.2888	0.814	-98 *	61 *	30	40 - 140
Naphthalene	0.2888	0.117	21 *	65 *	30	40 - 140
Phenanthrene	0.2888	0.576	-36 *	120 *	30	40 - 140
Pyrene	0.2888	1.38	-199 *	85 *	30	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CF32503

Laboratory ID: CF32503-BS1

Preparation: 3541

Initial/Final: 15 g / 0.5 ml

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	0.2667	0.139	52	40 - 140
Acenaphthene	0.2667	0.143	54	40 - 140
Acenaphthylene	0.2667	0.136	51	40 - 140
Anthracene	0.2667	0.172	64	40 - 140
Benzo(a)anthracene	0.2667	0.206	77	40 - 140
Benzo(a)pyrene	0.2667	0.196	73	40 - 140
Benzo(b)fluoranthene	0.2667	0.198	74	40 - 140
Benzo(g,h,i)perylene	0.2667	0.219	82	40 - 140
Benzo(k)fluoranthene	0.2667	0.207	78	40 - 140
Chrysene	0.2667	0.207	78	40 - 140
Dibenzo(a,h)Anthracene	0.2667	0.235	88	40 - 140
Fluoranthene	0.2667	0.196	73	40 - 140
Fluorene	0.2667	0.152	57	40 - 140
Indeno(1,2,3-cd)Pyrene	0.2667	0.222	83	40 - 140
Naphthalene	0.2667	0.137	51	40 - 140
Phenanthrene	0.2667	0.172	64	40 - 140
Pyrene	0.2667	0.206	77	40 - 140

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
2-Methylnaphthalene	0.2667	0.149	56	6	30	40 - 140
Acenaphthene	0.2667	0.148	55	3	30	40 - 140
Acenaphthylene	0.2667	0.141	53	4	30	40 - 140
Anthracene	0.2667	0.178	67	4	30	40 - 140
Benzo(a)anthracene	0.2667	0.201	75	3	30	40 - 140
Benzo(a)pyrene	0.2667	0.194	73	1	30	40 - 140
Benzo(b)fluoranthene	0.2667	0.209	78	6	30	40 - 140
Benzo(g,h,i)perylene	0.2667	0.207	78	6	30	40 - 140
Benzo(k)fluoranthene	0.2667	0.193	72	7	30	40 - 140
Chrysene	0.2667	0.201	75	3	30	40 - 140

Data File : Q:\SVOA\MS4\0613\062613\SV415829.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/26/2013 3:23:57 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CF32503-BS1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 26
 Injection Volume : 1

Internal Standard

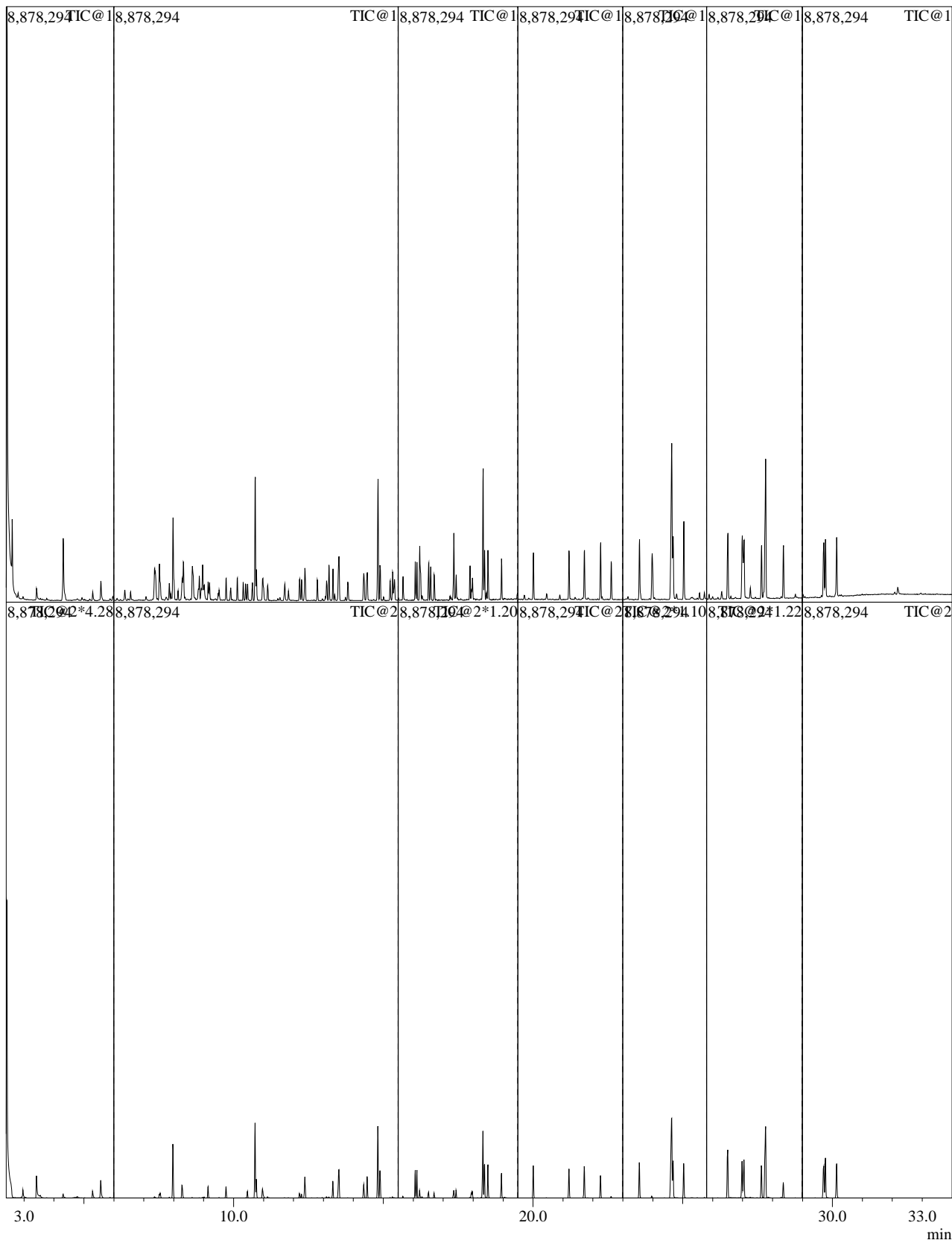
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	415204	20.0000	ng/uL	87.87
2	Naphthalene-D10	10.71	136	1594866	20.0000	ng/uL	86.83
3	Acenaphthene-D10	14.82	164	699118	20.0000	ng/uL	83.72
4	Phenanthrene-D10	18.32	188	1326424	20.0000	ng/uL	83.84
5	Chrysene-D12	24.63	240	1602879	20.0000	ng/uL	78.91
6	Perylene-D12	27.76	264	1562420	20.0000	ng/uL	78.66
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	97047	4.4615	ng/uL	178.46
8	Nitrobenzene-D5 (Surr)	9.15	82	139399	5.1066	ng/uL	204.26
9	2-Fluorobiphenyl (Surr)	13.31	172	296488	5.0176	ng/uL	200.71
10	2,4,6-Tribromophenol (Surr)	16.69	330	26638	9.7615	ng/uL	260.31
11	Terphenyl-D14 (Surr)	22.25	244	522726	8.1171	ng/uL	324.69
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	38843	3.3027	ng/uL	92
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	3.42	79	113417	3.1872	ng/uL	94
17	Naphthalene	10.76	128	391395	4.1034	ng/uL	98
18	2-Methylnaphthalene	12.38	142	257833	4.1785	ng/uL	97
19	1-Methylnaphthalene	12.60	142	2864	0.0471	ng/uL	86
20	Biphenyl	13.52	154	281681	4.0339	ng/uL	89
21	Dimethylphthalate	14.35	163	285969	4.6609	ng/uL	73
22	Acenaphthylene	14.46	152	360792	4.0757	ng/uL	84
23	Acenaphthene	14.89	153	242451	4.2770	ng/uL	98
24	Fluorene	16.12	166	280644	4.5486	ng/uL	96
25	Diethylphthalate	16.06	149	392326	5.1547	ng/uL	97
26	Hexachlorobenzene	17.43	284	69471	6.1814	ng/uL	96
27	Pentachloronitrobenzene	17.97	237	30315	5.5283	ng/uL	94
28	Pentachlorophenol	17.94	266	32452	3.0957	ng/uL	95
29	Phenanthrene	18.38	178	482317	5.1639	ng/uL	91
30	Anthracene	18.49	178	481859	5.1613	ng/uL	98
31	Di-n-butylphthalate	20.01	149	803230	6.3520	ng/uL	98
32	Fluoranthene	21.20	202	636790	5.8747	ng/uL	98
33	Pyrene	21.71	202	678137	6.1781	ng/uL	98
34	Butylbenzylphthalate	23.55	149	485427	9.0161	ng/uL	98
35	Benz[a]anthracene	24.60	228	687412	6.1943	ng/uL	99
36	Chrysene	24.68	228	654263	6.2033	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.03	149	667806	8.5030	ng/uL	98
38	Di-n-octylphthalate	26.50	149	1042638	7.6466	ng/uL	98
39	Benzo[b]fluoranthene	26.98	252	734572	5.9380	ng/uL	96
40	Benzo[k]fluoranthene	27.04	252	729456	6.2239	ng/uL	73
41	Benzo[a]pyrene	27.63	252	639119	5.8755	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.71	276	675247	6.6453	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	686323	7.0518	ng/uL	93
44	Benzo[ghi]perylene	30.14	276	700015	6.5611	ng/uL	98



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 Level # : 1
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 [6]=20, [7]=5
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 Dilution Factor : 1
 Vial # : 27
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	400507	20.0000	ng/uL	84.76
2	Naphthalene-D10	10.72	136	1566864	20.0000	ng/uL	85.31
3	Acenaphthene-D10	14.82	164	709877	20.0000	ng/uL	85.01
4	Phenanthrene-D10	18.33	188	1348510	20.0000	ng/uL	85.24
5	Chrysene-D12	24.63	240	1728612	20.0000	ng/uL	85.10
6	Perylene-D12	27.76	264	1662938	20.0000	ng/uL	83.72
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	101071	4.8170	ng/uL	192.68
8	Nitrobenzene-D5 (Surr)	9.15	82	145106	5.4107	ng/uL	216.43
9	2-Fluorobiphenyl (Surr)	13.31	172	304048	5.0676	ng/uL	202.70
10	2,4,6-Tribromophenol (Surr)	16.69	330	27125	9.7783	ng/uL	260.75
11	Terphenyl-D14 (Surr)	22.25	244	511888	7.3707	ng/uL	294.83
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	39858	3.5134	ng/uL	92
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	3.41	79	115894	3.3763	ng/uL	94
17	Naphthalene	10.76	128	408310	4.3573	ng/uL	98
18	2-Methylnaphthalene	12.38	142	270614	4.4640	ng/uL	98
19	1-Methylnaphthalene	12.60	142	2753	0.0461	ng/uL	88
20	Biphenyl	13.52	154	296114	4.1763	ng/uL	88
21	Dimethylphthalate	14.35	163	302422	4.8543	ng/uL	74
22	Acenaphthylene	14.46	152	379927	4.2268	ng/uL	85
23	Acenaphthene	14.89	153	254860	4.4277	ng/uL	99
24	Fluorene	16.12	166	294659	4.7033	ng/uL	96
25	Diethylphthalate	16.07	149	412401	5.3741	ng/uL	97
26	Hexachlorobenzene	17.43	284	62384	5.3434	ng/uL	96
27	Pentachloronitrobenzene	17.97	237	32458	5.8221	ng/uL	95
28	Pentachlorophenol	17.94	266	27466	2.6194	ng/uL	94
29	Phenanthrene	18.38	178	504410	5.3120	ng/uL	90
30	Anthracene	18.49	178	508022	5.3524	ng/uL	98
31	Di-n-butylphthalate	20.01	149	819886	6.3775	ng/uL	98
32	Fluoranthene	21.20	202	659274	5.9825	ng/uL	98
33	Pyrene	21.71	202	693074	5.8550	ng/uL	98
34	Butylbenzylphthalate	23.55	149	498287	8.5818	ng/uL	98
35	Benz[a]anthracene	24.60	228	720316	6.0187	ng/uL	99
36	Chrysene	24.68	228	685971	6.0308	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.04	149	689617	8.1420	ng/uL	98
38	Di-n-octylphthalate	26.50	149	1088108	7.4977	ng/uL	98
39	Benzo[b]fluoranthene	26.98	252	826787	6.2795	ng/uL	97
40	Benzo[k]fluoranthene	27.04	252	723254	5.7980	ng/uL	73
41	Benzo[a]pyrene	27.63	252	673399	5.8165	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.71	276	686095	6.3439	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	699496	6.7527	ng/uL	94
44	Benzo[ghi]perylene	30.14	276	704524	6.2042	ng/uL	98

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 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 28
 Injection Volume : 1

Internal Standard

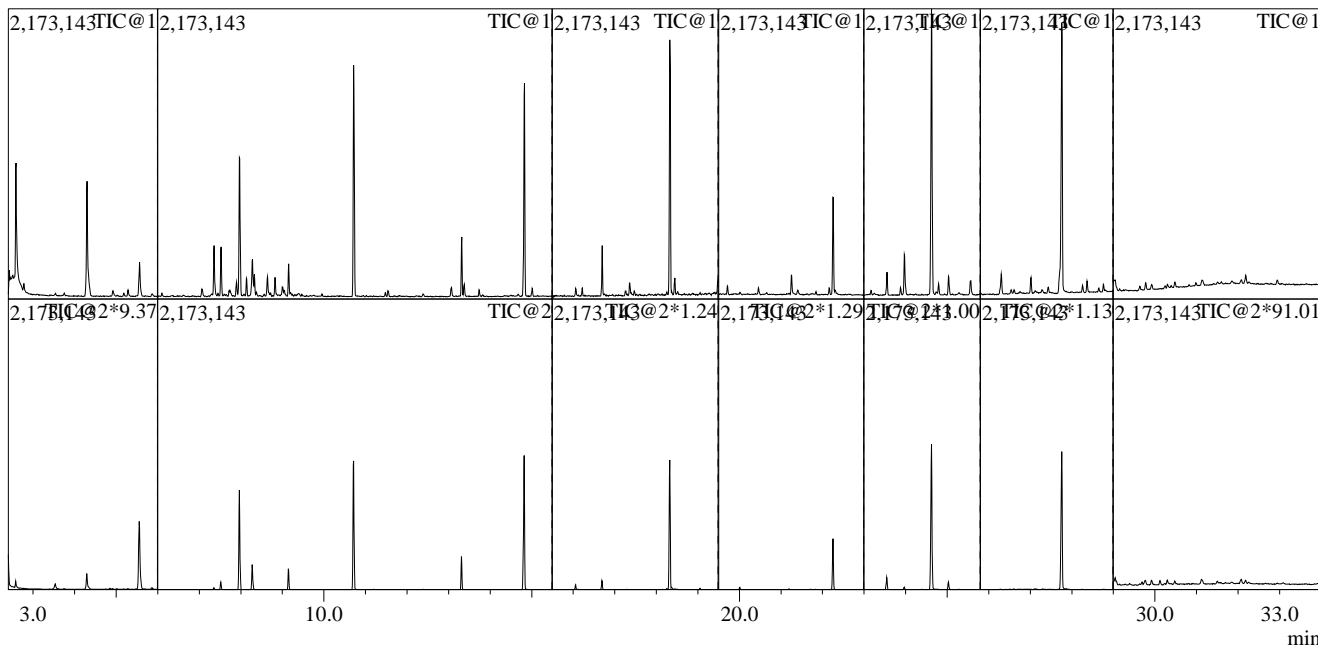
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1	1,4-Dichlorobenzene-D4	7.97	152	375569	20.0000	ng/uL	79.48
2	Naphthalene-D10	10.71	136	1442750	20.0000	ng/uL	78.55
3	Acenaphthene-D10	14.81	164	650469	20.0000	ng/uL	77.90
4	Phenanthrene-D10	18.32	188	1247718	20.0000	ng/uL	78.87
5	Chrysene-D12	24.62	240	1686303	20.0000	ng/uL	83.02
6	Perylene-D12	27.76	264	1526861	20.0000	ng/uL	76.87
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

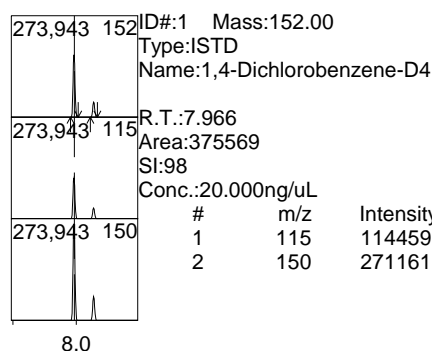
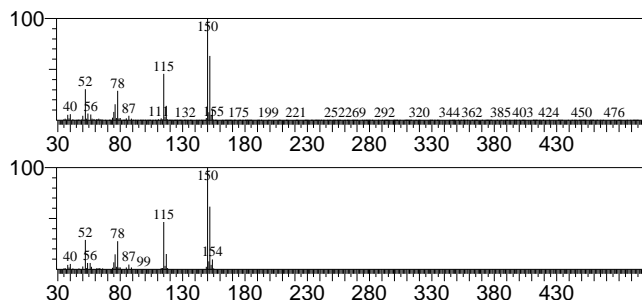
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	89860	4.57	ng/uL	182.6800
8	Nitrobenzene-D5 (Surr)	9.15	82	126170	5.11	ng/uL	204.3700
9	2-Fluorobiphenyl (Surr)	13.31	172	279761	5.09	ng/uL	203.5500
10	2,4,6-Tribromophenol (Surr)	16.69	330	23392	9.07	ng/uL	241.7600
11	Terphenyl-D14 (Surr)	22.25	244	444225	6.56	ng/uL	262.2800
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.76	128	3687	0.0427	ng/uL	81
29	Phenanthrene	18.37	178	10938	0.1245	ng/uL	77
31	Di-n-butylphthalate	20.01	149	20776	0.1747	ng/uL	96
32	Fluoranthene	21.19	202	5893	0.0578	ng/uL	92
33	Pyrene	21.70	202	2817	0.0244	ng/uL	86
37	Bis(2-ethylhexyl)phthalate	25.03	149	80311	0.9720	ng/uL	98



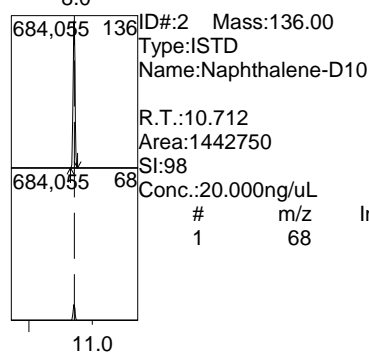
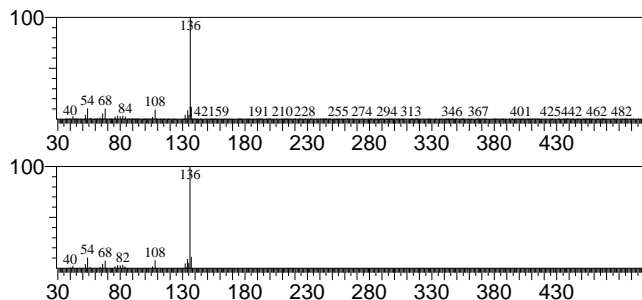
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ID#:1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.966
 Area:375569
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	114459	65.16	67.59
2	150	271161	154.38	156.27

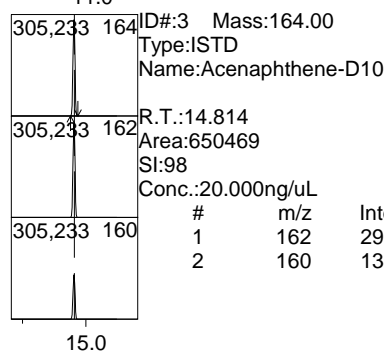
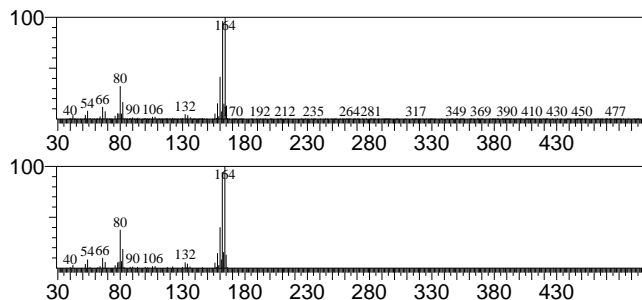
ID#:2 R.Time:10.7(Scan#:1995)



ID#:2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.712
 Area:1442750
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	73626	10.86	10.57

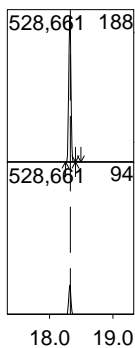
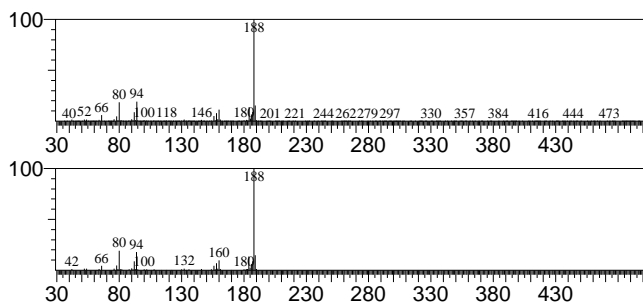
ID#:3 R.Time:14.8(Scan#:2981)



ID#:3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.814
 Area:650469
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	298914	98.78	99.35
2	160	139936	46.25	45.34

ID#:4 R.Time:18.3(Scan#:3771)

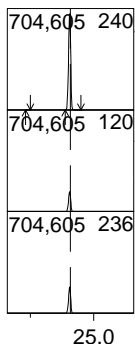
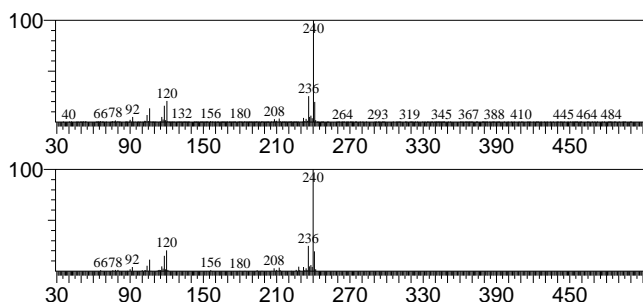


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.320
Area:1247718
SI:99

#	m/z	Intensity	Ratio	Setting
1	94	102183	19.84	19.68

ID#5 R.Time:24.6(Scan#:5263)

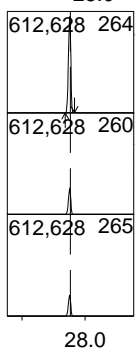
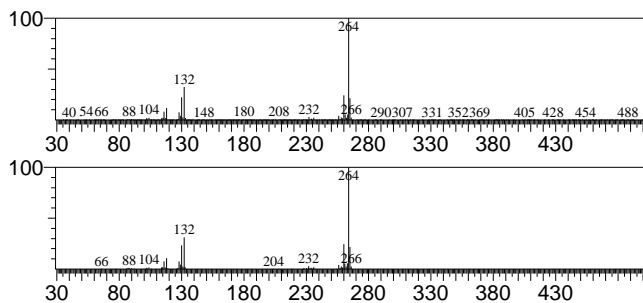


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.622
Area:1686303
SI:98

#	m/z	Intensity	Ratio	Setting
1	120	138398	20.24	21.03
2	236	181232	26.50	27.55

ID#6 R.Time:27.8(Scan#:6015)

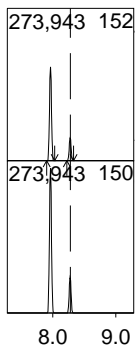
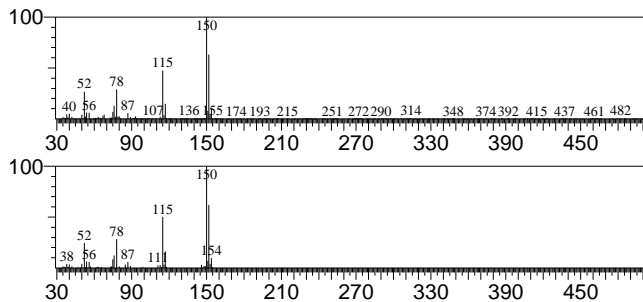


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.756
Area:1526861
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	153119	26.25	26.18
2	265	124249	21.30	21.61

ID#7 R.Time:8.3(Scan#:1411)

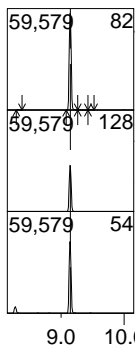
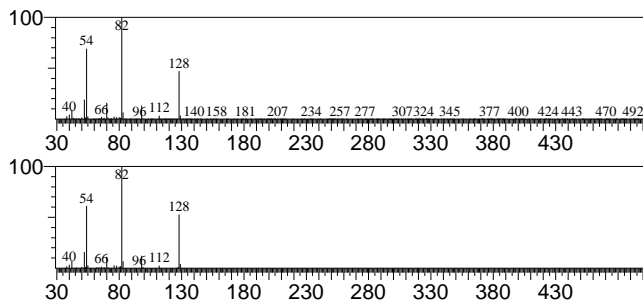


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.277
Area:89860
SI:97

#	m/z	Intensity	Ratio	Setting
1	150	66802	156.56	155.04

ID#8 R.Time:9.1(Scan#:1619)

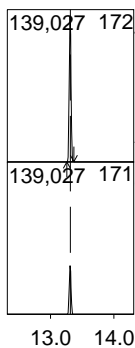
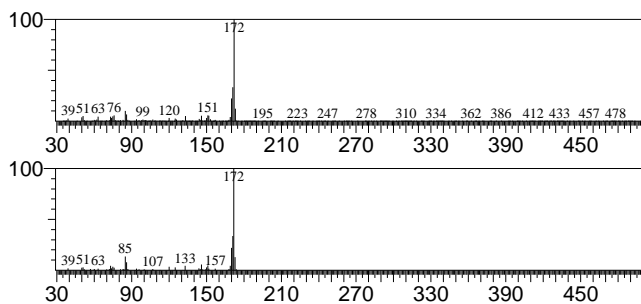


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.146
Area:126170
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	28228	47.55	47.90
2	54	44399	74.78	69.01

ID#:9 R.Time:13.3(Scan#:2619)



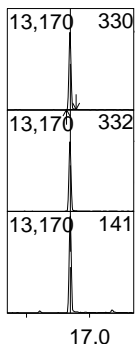
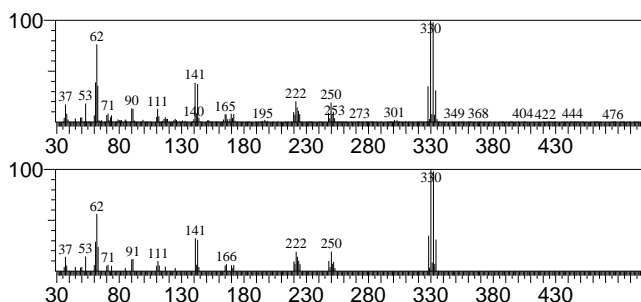
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.309
Area:279761
SI:97

Conc.:5.089ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	47541	33.63	33.54

ID#:10 R.Time:16.7(Scan#:3409)



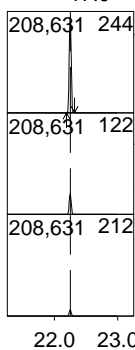
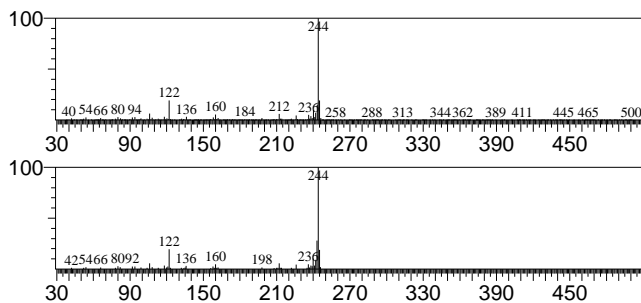
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.689
Area:23392
SI:97

Conc.:9.066ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	9595	89.80	88.80
2	141	12990	121.57	153.10

ID#:11 R.Time:22.3(Scan#:4693)



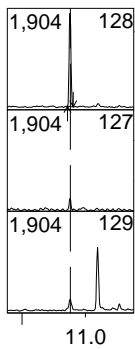
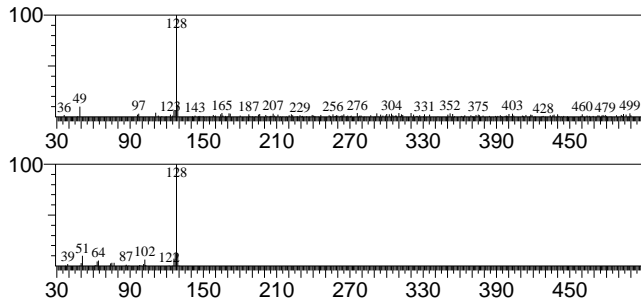
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.250
Area:444225
SI:97

Conc.:6.557ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	44429	21.51	20.49
2	212	13850	6.71	6.58

ID#:17 R.Time:10.8(Scan#:2007)



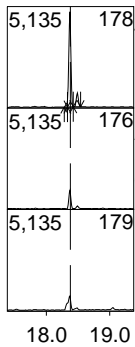
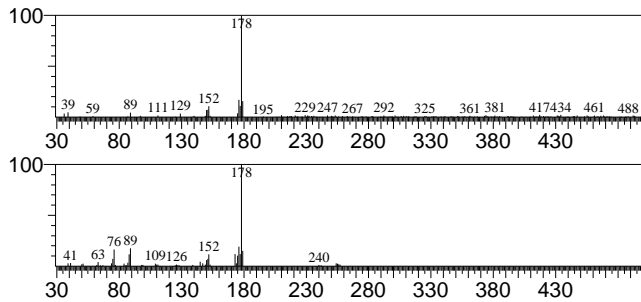
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.758
Area:3687
SI:81

Conc.:0.043ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	192	10.26	12.65
2	129	177	9.46	10.06

ID#:29 R.Time:18.4(Scan#:3783)



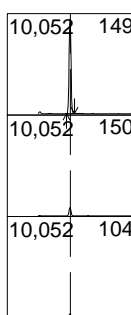
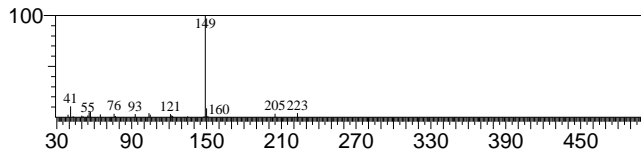
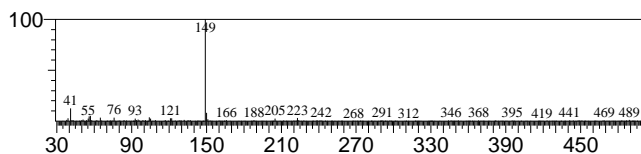
ID#29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.371
Area:10938
SI:77

Conc.:0.124ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	986	19.41	19.27
2	179	559	11.00	14.18

ID#:31 R.Time:20.0(Scan#:4155)

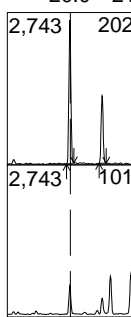
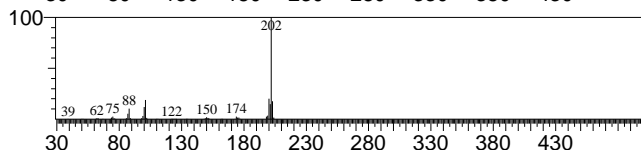
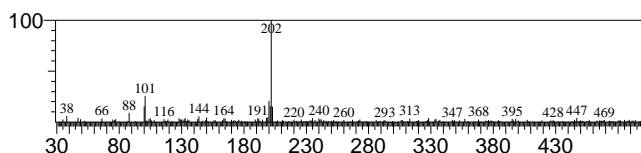


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.006
Area:20776
SI:96
Conc.:0.175ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	867	8.81	8.88
2	104	401	4.08	4.02

ID#:32 R.Time:21.2(Scan#:4439)

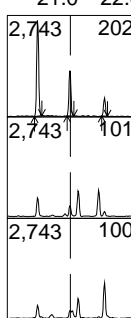
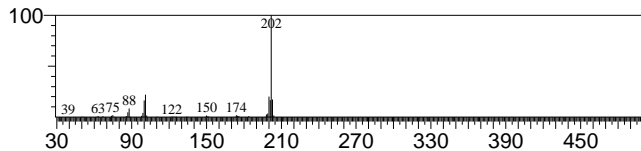
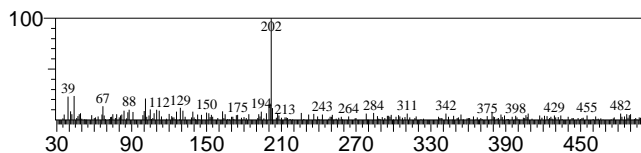


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.194
Area:5893
SI:92
Conc.:0.058ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	520	19.41	20.51

ID#:33 R.Time:21.7(Scan#:4561)

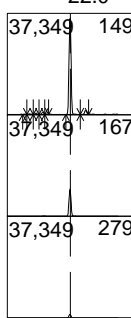
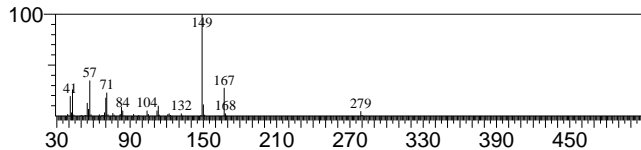
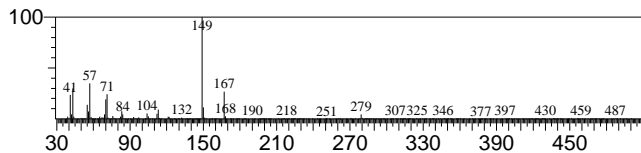


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.704
Area:2817
SI:86
Conc.:0.024ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	299	23.92	23.49
2	100	185	14.80	16.96

ID#:37 R.Time:25.0(Scan#:5361)



ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.032
Area:80311
SI:98
Conc.:0.972ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	10135	27.55	29.29
2	279	1414	3.84	4.16

Data File : Q:\SVOA\MS4\0613\062713\SV415882.qgd
 Method File : Q:\SVOA\MS4\0613\062713\SIMA4AW062713.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 11:02:14 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CF32503-MS1
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 23
 Injection Volume : 1

Internal Standard

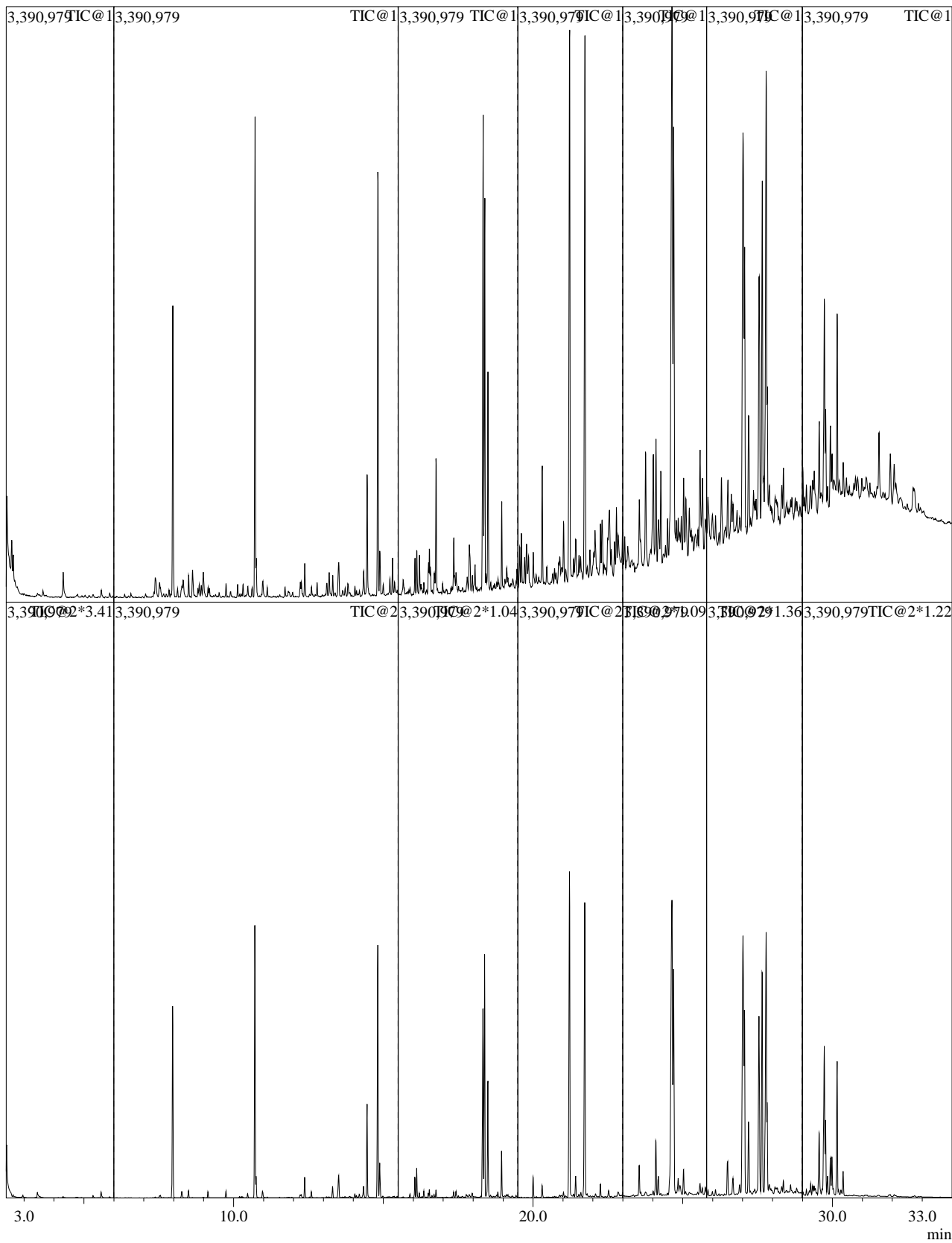
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.96	152	581938	20.0000	ng/uL	130.20
2	Naphthalene-D10	10.71	136	2278662	20.0000	ng/uL	134.35
3	Acenaphthene-D10	14.81	164	961349	20.0000	ng/uL	129.19
4	Phenanthrene-D10	18.32	188	1798942	20.0000	ng/uL	124.24
5	Chrysene-D12	24.64	240	2240628	20.0000	ng/uL	117.93
6	Perylene-D12	27.78	264	2033065	20.0000	ng/uL	111.52
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.27	152	17953	0.5889	ng/uL	23.55
8	Nitrobenzene-D5 (Surr)	9.14	82	28613	0.7336	ng/uL	29.35
9	2-Fluorobiphenyl (Surr)	13.30	172	74601	0.9181	ng/uL	36.73
10	2,4,6-Tribromophenol (Surr)	16.69	330	9047	1.9189	ng/uL	51.17
11	Terphenyl-D14 (Surr)	22.25	244	115061	1.2782	ng/uL	51.13
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	-	88	---	N.D.	ng/uL	---
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	-	79	---	N.D.	ng/uL	---
17	Naphthalene	10.75	128	169232	1.2418	ng/uL	98
18	2-Methylnaphthalene	12.38	142	97620	1.1073	ng/uL	96
19	1-Methylnaphthalene	12.59	142	30380	0.3496	ng/uL	97
20	Biphenyl	13.51	154	86365	0.8994	ng/uL	89
21	Dimethylphthalate	14.34	163	77179	0.9148	ng/uL	49
22	Acenaphthylene	14.46	152	609302	5.0055	ng/uL	83
23	Acenaphthene	14.88	153	114889	1.4739	ng/uL	97
24	Fluorene	16.11	166	137653	1.6225	ng/uL	96
25	Diethylphthalate	16.05	149	123976	0.3588	ng/uL	97
26	Hexachlorobenzene	17.42	284	19854	0.5148	ng/uL	94
27	Pentachloronitrobenzene	17.97	237	7254	0.9754	ng/uL	92
28	Pentachlorophenol	17.95	266	5028	0.5768	ng/uL	76
29	Phenanthrene	18.38	178	1555711	12.2811	ng/uL	92
30	Anthracene	18.49	178	786395	6.2107	ng/uL	98
31	Di-n-butylphthalate	20.00	149	204690	1.1935	ng/uL	97
32	Fluoranthene	21.22	202	3327619	22.6354	ng/uL	98
33	Pyrene	21.72	202	2831549	18.4542	ng/uL	97
34	Butylbenzylphthalate	23.55	149	158846	2.1106	ng/uL	97
35	Benz[a]anthracene	24.61	228	1824862	11.7635	ng/uL	98
36	Chrysene	24.70	228	1980118	13.4304	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.03	149	176823	1.6106	ng/uL	97
38	Di-n-octylphthalate	26.50	149	252647	1.4240	ng/uL	97
39	Benzo[b]fluoranthene	27.01	252	2673613	16.6094	ng/uL	96
40	Benzo[k]fluoranthene	27.06	252	1050951	6.8912	ng/uL	78
41	Benzo[a]pyrene	27.65	252	1636796	11.5640	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.72	276	1078790	8.1589	ng/uL	98
43	Dibenz[a,h]anthracene	29.77	278	378652	2.9899	ng/uL	67
44	Benzo[ghi]perylene	30.16	276	854428	6.1545	ng/uL	98



Data File : Q:\SVOA\MS4\0613\062713\SV415883.qgd
 Method File : Q:\SVOA\MS4\0613\062713\SIMA4AW062713.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 11:51:13 AM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CF32503-MSD1
 Sample ID : 5
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 24
 Injection Volume : 1

Internal Standard

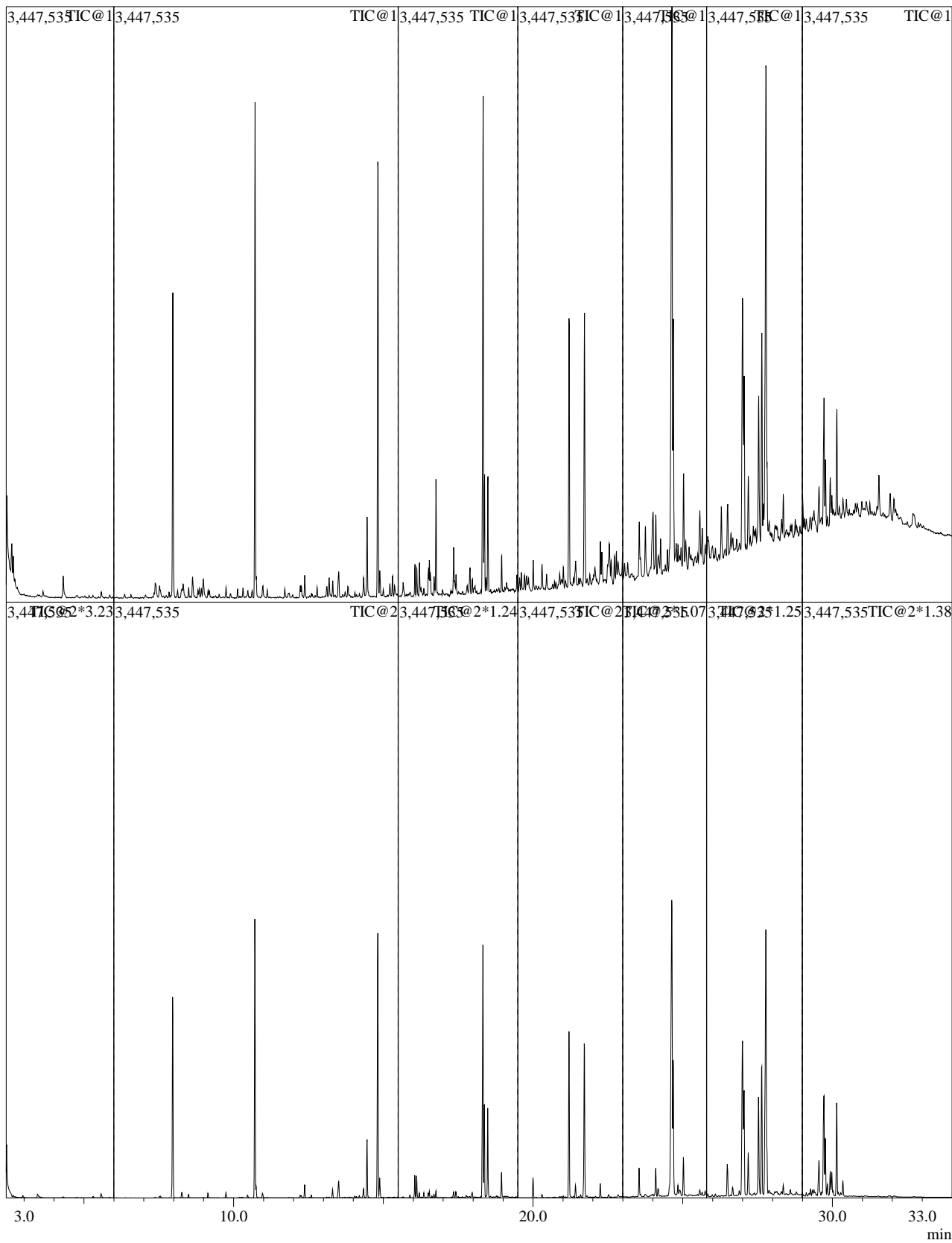
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.96	152	612904	20.0000	ng/uL	137.13
2	Naphthalene-D10	10.71	136	2372153	20.0000	ng/uL	139.86
3	Acenaphthene-D10	14.81	164	1046599	20.0000	ng/uL	140.65
4	Phenanthrene-D10	18.32	188	1982837	20.0000	ng/uL	136.94
5	Chrysene-D12	24.63	240	2561433	20.0000	ng/uL	134.82
6	Perylene-D12	27.77	264	2305111	20.0000	ng/uL	126.44
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.27	152	15007	0.4674	ng/uL	18.69
8	Nitrobenzene-D5 (Surr)	9.14	82	22592	0.5564	ng/uL	22.26
9	2-Fluorobiphenyl (Surr)	13.30	172	57761	0.6530	ng/uL	26.12
10	2,4,6-Tribromophenol (Surr)	16.69	330	8077	1.4210	ng/uL	37.89
11	Terphenyl-D14 (Surr)	22.24	244	120844	1.1743	ng/uL	46.97
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	-	88	---	N.D.	ng/uL	---
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	-	79	---	N.D.	ng/uL	---
17	Naphthalene	10.75	128	92502	0.6520	ng/uL	96
18	2-Methylnaphthalene	12.38	142	63851	0.6957	ng/uL	96
19	1-Methylnaphthalene	12.59	142	12620	0.1395	ng/uL	95
20	Biphenyl	13.51	154	62520	0.5981	ng/uL	88
21	Dimethylphthalate	14.34	163	63185	0.6879	ng/uL	72
22	Acenaphthylene	14.46	152	397906	3.0026	ng/uL	83
23	Acenaphthene	14.88	153	66197	0.7800	ng/uL	94
24	Fluorene	16.11	166	89280	0.9666	ng/uL	96
25	Diethylphthalate	16.05	149	117037	0.1687	ng/uL	97
26	Hexachlorobenzene	17.42	284	18188	0.2593	ng/uL	94
27	Pentachloronitrobenzene	17.97	237	6905	0.8423	ng/uL	93
28	Pentachlorophenol	17.95	266	5738	0.5882	ng/uL	77
29	Phenanthrene	18.37	178	445265	3.1890	ng/uL	91
30	Anthracene	18.49	178	490932	3.5177	ng/uL	98
31	Di-n-butylphthalate	20.00	149	198615	1.0507	ng/uL	98
32	Fluoranthene	21.20	202	1442038	8.8994	ng/uL	98
33	Pyrene	21.71	202	1342203	7.6520	ng/uL	98
34	Butylbenzylphthalate	23.54	149	146418	1.7018	ng/uL	98
35	Benz[a]anthracene	24.61	228	1102379	6.2162	ng/uL	99
36	Chrysene	24.68	228	1132801	6.7211	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.03	149	295253	2.3525	ng/uL	98
38	Di-n-octylphthalate	26.49	149	256526	1.2752	ng/uL	98
39	Benzo[b]fluoranthene	27.00	252	1604218	8.7898	ng/uL	97
40	Benzo[k]fluoranthene	27.04	252	704701	4.0754	ng/uL	77
41	Benzo[a]pyrene	27.64	252	1009789	6.2922	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.71	276	676421	4.5120	ng/uL	98
43	Dibenz[a,h]anthracene	29.76	278	258382	1.7994	ng/uL	67
44	Benzo[ghi]perylene	30.14	276	525659	3.3395	ng/uL	98



PAH Calibration Data

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415787

Injection Date: 06/25/13

Instrument ID: SVOAMS4

Injection Time: 11:02

Sequence: CWF0276

Lab Sample ID: CWF0276-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	56.1	PASS
68	Less than 2% of 69	1.64	PASS
69	Less than 100% of 198	44.1	PASS
70	Less than 2% of 69	0.46	PASS
127	40 - 60% of 198	55	PASS
197	Less than 1% of 198	0.683	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.69	PASS
275	10 - 30% of 198	22.6	PASS
365	1 - 100% of 198	1.45	PASS
441	0.01 - 100% of 443	74.4	PASS
442	40 - 110% of 198	56.7	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415826

Injection Date: 06/26/13

Instrument ID: SVOAMS4

Injection Time: 13:17

Sequence: CWF0289

Lab Sample ID: CWF0289-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.2	PASS
68	Less than 2% of 69	1.74	PASS
69	Less than 100% of 198	46.6	PASS
70	Less than 2% of 69	0.48	PASS
127	40 - 60% of 198	54.7	PASS
197	Less than 1% of 198	0.417	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.87	PASS
275	10 - 30% of 198	22.6	PASS
365	1 - 100% of 198	1.46	PASS
441	0.01 - 100% of 443	80	PASS
442	40 - 110% of 198	53.4	PASS
443	17 - 23% of 442	19.5	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415843

Injection Date: 06/27/13

Instrument ID: SVOAMS4

Injection Time: 02:19

Sequence: CWF0290

Lab Sample ID: CWF0290-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.2	PASS
68	Less than 2% of 69	1.63	PASS
69	Less than 100% of 198	45.8	PASS
70	Less than 2% of 69	0.451	PASS
127	40 - 60% of 198	55.4	PASS
197	Less than 1% of 198	0.771	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.56	PASS
275	10 - 30% of 198	23.4	PASS
365	1 - 100% of 198	1.34	PASS
441	0.01 - 100% of 443	79	PASS
442	40 - 110% of 198	52.2	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415874

Injection Date: 06/28/13

Instrument ID: SVOAMS4

Injection Time: 04:52

Sequence: CWF0330

Lab Sample ID: CWF0330-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	57.3	PASS
68	Less than 2% of 69	1.73	PASS
69	Less than 100% of 198	46.2	PASS
70	Less than 2% of 69	0.527	PASS
127	40 - 60% of 198	54.5	PASS
197	Less than 1% of 198	0.557	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.86	PASS
275	10 - 30% of 198	23.1	PASS
365	1 - 100% of 198	1.48	PASS
441	0.01 - 100% of 443	78.3	PASS
442	40 - 110% of 198	51.9	PASS
443	17 - 23% of 442	19.3	PASS

CONTINUING CALIBRATION CHECK

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Instrument ID: <u>SVOAMS4</u>	Calibration: <u>1306027</u>
Lab File ID: <u>SV415827.D</u>	Calibration Date: <u>06/25/13 13:53</u>
Sequence: <u>CWF0289</u>	Injection Date: <u>06/26/13</u>
Lab Sample ID: <u>CWF0289-CCV1</u>	Injection Time: <u>13:30</u>

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	5.000	5.16	0.7737995	0.798273		3.2	30
Acenaphthene	A	5.000	4.84	1.621686	1.569232		-3.2	30
Acenaphthylene	A	5.000	5.06	2.532435	2.564478		1.3	30
Anthracene	A	5.000	5.13	1.407701	1.444775		2.6	30
Benzo(a)anthracene	A	5.000	4.95	1.384697	1.3711		-1.0	30
Benzo(a)pyrene	A	5.000	5.08	1.392409	1.415988		1.7	30
Benzo(b)fluoranthene	A	5.000	4.71	1.583523	1.490333		-5.9	30
Benzo(g,h,i)perylene	A	5.000	5.35	1.365721	1.461926		7.0	30
Benzo(k)fluoranthene	A	5.000	4.58	1.50027	1.373505		-8.4	30
Chrysene	A	5.000	4.83	1.316018	1.271279		-3.4	30
Dibenzo(a,h)Anthracene	A	5.000	5.56	1.245842	1.385361		11.2	30
Fluoranthene	A	5.000	4.88	1.6344	1.596345		-2.3	30
Fluorene	A	5.000	5.07	1.765071	1.789804		1.4	30
Indeno(1,2,3-cd)Pyrene	A	5.000	5.50	1.300716	1.430148		10.0	30
Naphthalene	A	5.000	5.15	1.196117	1.233064		3.1	30
Phenanthrene	A	5.000	5.02	1.408333	1.415292		0.5	30
Pyrene	A	5.000	4.81	1.369584	1.318076		-3.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Instrument ID: <u>SVOAMS4</u>	Calibration: <u>1306027</u>
Lab File ID: <u>SV415844.D</u>	Calibration Date: <u>06/25/13 13:53</u>
Sequence: <u>CWF0290</u>	Injection Date: <u>06/27/13</u>
Lab Sample ID: <u>CWF0290-CCV1</u>	Injection Time: <u>02:32</u>

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	5.000	5.17	0.7737995	0.7997413		3.4	30
Acenaphthene	A	5.000	4.81	1.621686	1.560578		-3.8	30
Acenaphthylene	A	5.000	4.96	2.532435	2.51461		-0.7	30
Anthracene	A	5.000	5.07	1.407701	1.42744		1.4	30
Benzo(a)anthracene	A	5.000	4.72	1.384697	1.305796		-5.7	30
Benzo(a)pyrene	A	5.000	4.91	1.392409	1.366746		-1.8	30
Benzo(b)fluoranthene	A	5.000	4.58	1.583523	1.450266		-8.4	30
Benzo(g,h,i)perylene	A	5.000	4.28	1.365721	1.16864		-14.4	30
Benzo(k)fluoranthene	A	5.000	4.65	1.50027	1.395017		-7.0	30
Chrysene	A	5.000	4.65	1.316018	1.222927		-7.1	30
Dibenzo(a,h)Anthracene	A	5.000	4.88	1.245842	1.215442		-2.4	30
Fluoranthene	A	5.000	4.89	1.6344	1.597787		-2.2	30
Fluorene	A	5.000	4.89	1.765071	1.726983		-2.2	30
Indeno(1,2,3-cd)Pyrene	A	5.000	4.69	1.300716	1.220355		-6.2	30
Naphthalene	A	5.000	5.08	1.196117	1.214884		1.6	30
Phenanthrene	A	5.000	4.91	1.408333	1.382579		-1.8	30
Pyrene	A	5.000	4.52	1.369584	1.237607		-9.6	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Instrument ID: <u>SVOAMS4</u>	Calibration: <u>1306027</u>
Lab File ID: <u>SV415875.D</u>	Calibration Date: <u>06/25/13 13:53</u>
Sequence: <u>CWF0330</u>	Injection Date: <u>06/28/13</u>
Lab Sample ID: <u>CWF0330-CCV1</u>	Injection Time: <u>05:05</u>

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	5.000	5.12	0.7737995	0.7917995		2.3	30
Acenaphthene	A	5.000	5.06	1.621686	1.640574		1.2	30
Acenaphthylene	A	5.000	5.21	2.532435	2.640568		4.3	30
Anthracene	A	5.000	5.15	1.407701	1.449918		3.0	30
Benzo(a)anthracene	A	5.000	4.94	1.384697	1.368272		-1.2	30
Benzo(a)pyrene	A	5.000	5.24	1.392409	1.460396		4.9	30
Benzo(b)fluoranthene	A	5.000	4.70	1.583523	1.488281		-6.0	30
Benzo(g,h,i)perylene	A	5.000	4.94	1.365721	1.349879		-1.2	30
Benzo(k)fluoranthene	A	5.000	5.01	1.50027	1.503737		0.2	30
Chrysene	A	5.000	4.92	1.316018	1.296255		-1.5	30
Dibenzo(a,h)Anthracene	A	5.000	5.44	1.245842	1.354456		8.7	30
Fluoranthene	A	5.000	5.06	1.6344	1.655087		1.3	30
Fluorene	A	5.000	5.13	1.765071	1.812092		2.7	30
Indeno(1,2,3-cd)Pyrene	A	5.000	5.31	1.300716	1.380472		6.1	30
Naphthalene	A	5.000	5.11	1.196117	1.222503		2.2	30
Phenanthrene	A	5.000	4.98	1.408333	1.401654		-0.5	30
Pyrene	A	5.000	4.84	1.369584	1.326608		-3.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0276</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL1)								
Lab File ID: SV415789.D				Analyzed: 06/25/13 12:03				
1,2-Dichlorobenzene-d4	0.05000	180		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.05000	120		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.05000	100		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.05000	120		22.26	22.273	-0.0130	+/-1.0	
Cal Standard (CWF0276-CAL2)								
Lab File ID: SV415790.D				Analyzed: 06/25/13 12:53				
1,2-Dichlorobenzene-d4	0.1000	140		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.1000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.1000	90		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	0.1000	100		22.26	22.273	-0.0130	+/-1.0	
Cal Standard (CWF0276-CAL3)								
Lab File ID: SV415791.D				Analyzed: 06/25/13 13:43				
1,2-Dichlorobenzene-d4	0.2000	115		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.2000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.2000	90		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.2000	95		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL4)								
Lab File ID: SV415792.D				Analyzed: 06/25/13 14:34				
1,2-Dichlorobenzene-d4	0.5000	108		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.5000	104		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.5000	96		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.5000	104		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL5)								
Lab File ID: SV415793.D				Analyzed: 06/25/13 15:25				
1,2-Dichlorobenzene-d4	1.000	105		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	1.000	107		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	1.000	103		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	1.000	102		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL6)								
Lab File ID: SV415794.D				Analyzed: 06/25/13 16:16				
1,2-Dichlorobenzene-d4	2.000	101		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	2.000	104		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	2.000	108		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	2.000	105		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL7)								
Lab File ID: SV415795.D				Analyzed: 06/25/13 17:06				
1,2-Dichlorobenzene-d4	5.000	99		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	5.000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	5.000	108		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	5.000	100		22.27	22.273	-0.0030	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0276</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL8)								
Lab File ID: SV415796.D				Analyzed: 06/25/13 17:57				
1,2-Dichlorobenzene-d4	10.00	95		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	10.00	96		13.33	13.325	0.0050	+/-1.0	
Nitrobenzene-d5	10.00	108		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	10.00	97		22.28	22.273	0.0070	+/-1.0	
Cal Standard (CWF0276-CAL9)								
Lab File ID: SV415797.D				Analyzed: 06/25/13 18:47				
1,2-Dichlorobenzene-d4	20.00	92		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	20.00	91		13.33	13.325	0.0050	+/-1.0	
Nitrobenzene-d5	20.00	106		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	20.00	94		22.28	22.273	0.0070	+/-1.0	
Cal Standard (CWF0276-CALA)								
Lab File ID: SV415798.D				Analyzed: 06/25/13 19:37				
1,2-Dichlorobenzene-d4	50.00	82		8.3	8.28875	0.0113	+/-1.0	
2-Fluorobiphenyl	50.00	83		13.35	13.325	0.0250	+/-1.0	
Nitrobenzene-d5	50.00	98		9.18	9.156	0.0240	+/-1.0	
p-Terphenyl-d14	50.00	89		22.3	22.273	0.0270	+/-1.0	
Secondary Cal Check (CWF0276-SCV1)								
Lab File ID: SV415799.D				Analyzed: 06/25/13 20:27				
1,2-Dichlorobenzene-d4	5.000	94	70 - 130	8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	5.000	94	70 - 130	13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	5.000	104	70 - 130	9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	5.000	95	70 - 130	22.27	22.273	-0.0030	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0290</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (CWF0290-CCV1)								
Lab File ID: SV415844.D				Analyzed: 06/27/13 02:32				
1,2-Dichlorobenzene-d4	5.000	99	70 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	5.000	94	70 - 130	13.31	13.325	-0.0150	+/-1.0	
Nitrobenzene-d5	5.000	107	70 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	5.000	105	70 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-506-02 (1306385-10)								
Lab File ID: SV415847.D				Analyzed: 06/27/13 04:58				
1,2-Dichlorobenzene-d4	0.3483	44	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3483	48	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3483	48	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3483	72	30 - 130	22.25	22.273	-0.0230	+/-1.0	
SS-507-02 (1306385-12)								
Lab File ID: SV415848.D				Analyzed: 06/27/13 05:47				
1,2-Dichlorobenzene-d4	0.3632	54	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3632	56	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3632	60	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3632	73	30 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-500-01 (1306385-01)								
Lab File ID: SV415849.D				Analyzed: 06/27/13 06:35				
1,2-Dichlorobenzene-d4	0.3658	34	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3658	43	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3658	36	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3658	76	30 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-501-01 (1306385-03)								
Lab File ID: SV415850.D				Analyzed: 06/27/13 07:24				
1,2-Dichlorobenzene-d4	0.3730	44	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3730	49	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3730	49	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3730	70	30 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-505-02 (1306385-08)								
Lab File ID: SV415851.D				Analyzed: 06/27/13 08:12				
1,2-Dichlorobenzene-d4	0.3501	51	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3501	61	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3501	57	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3501	83	30 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-507-01 (1306385-11)								
Lab File ID: SV415852.D				Analyzed: 06/27/13 09:01				
1,2-Dichlorobenzene-d4	0.3653	46	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3653	52	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3653	50	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3653	72	30 - 130	22.24	22.273	-0.0330	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1306385</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0330</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (CWF0330-CCV1)			Lab File ID: SV415875.D		Analyzed: 06/28/13 05:05			
1,2-Dichlorobenzene-d4	5.000	98	70 - 130	8.26	8.28875	-0.0288	+/-1.0	
2-Fluorobiphenyl	5.000	101	70 - 130	13.29	13.325	-0.0350	+/-1.0	
Nitrobenzene-d5	5.000	112	70 - 130	9.13	9.156	-0.0260	+/-1.0	
p-Terphenyl-d14	5.000	100	70 - 130	22.23	22.273	-0.0430	+/-1.0	
SS-505-01 (1306385-07RE1)			Lab File ID: SV415881.D		Analyzed: 06/28/13 09:58			
1,2-Dichlorobenzene-d4	0.3509		30 - 130		8.28875		+/-1.0	*
2-Fluorobiphenyl	0.3509		30 - 130		13.325		+/-1.0	*
Nitrobenzene-d5	0.3509		30 - 130		9.156		+/-1.0	*
p-Terphenyl-d14	0.3509		30 - 130		22.273		+/-1.0	*
Matrix Spike (CF32503-MS1)			Lab File ID: SV415882.D		Analyzed: 06/28/13 10:47			
1,2-Dichlorobenzene-d4	0.3732	30	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3732	46	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3732	37	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3732	64	30 - 130	22.24	22.273	-0.0330	+/-1.0	
Matrix Spike Dup (CF32503-MSD1)			Lab File ID: SV415883.D		Analyzed: 06/28/13 11:36			
1,2-Dichlorobenzene-d4	0.3610	24	30 - 130	8.27	8.28875	-0.0188	+/-1.0	*
2-Fluorobiphenyl	0.3610	32	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3610	28	30 - 130	9.14	9.156	-0.0160	+/-1.0	*
p-Terphenyl-d14	0.3610	59	30 - 130	22.24	22.273	-0.0330	+/-1.0	
SS-501-02 (1306385-04)			Lab File ID: SV415884.D		Analyzed: 06/28/13 12:25			
1,2-Dichlorobenzene-d4	0.3662	56	30 - 130	8.27	8.28875	-0.0188	+/-1.0	
2-Fluorobiphenyl	0.3662	69	30 - 130	13.3	13.325	-0.0250	+/-1.0	
Nitrobenzene-d5	0.3662	66	30 - 130	9.14	9.156	-0.0160	+/-1.0	
p-Terphenyl-d14	0.3662	83	30 - 130	22.24	22.273	-0.0330	+/-1.0	

**INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM**

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0276

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL1)			Lab File ID: SV415789.D			Analyzed: 06/25/13 12:03			
1,4-Dichlorobenzene-d4	445298	7.97	486943	7.97	91	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1718635	10.72	1846771	10.72	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	766654	14.82	784183	14.83	98	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1482609	18.33	1504953	18.34	99	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1912763	24.64	1896651	24.65	101	50 - 200	-0.0100	+/-0.50	
Perylene-d12	1759542	27.79	1699182	27.79	104	50 - 200	0.0000	+/-0.50	
Cal Standard (CWF0276-CAL2)			Lab File ID: SV415790.D			Analyzed: 06/25/13 12:53			
1,4-Dichlorobenzene-d4	477873	7.97	486943	7.97	98	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1832174	10.72	1846771	10.72	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	787755	14.82	784183	14.83	100	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1513373	18.34	1504953	18.34	101	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1976196	24.65	1896651	24.65	104	50 - 200	0.0000	+/-0.50	
Perylene-d12	1855559	27.79	1699182	27.79	109	50 - 200	0.0000	+/-0.50	
Cal Standard (CWF0276-CAL3)			Lab File ID: SV415791.D			Analyzed: 06/25/13 13:43			
1,4-Dichlorobenzene-d4	503638	7.97	486943	7.97	103	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1916883	10.72	1846771	10.72	104	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	817751	14.83	784183	14.83	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1600707	18.34	1504953	18.34	106	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2041304	24.65	1896651	24.65	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	1823896	27.79	1699182	27.79	107	50 - 200	0.0000	+/-0.50	
Cal Standard (CWF0276-CAL4)			Lab File ID: SV415792.D			Analyzed: 06/25/13 14:34			
1,4-Dichlorobenzene-d4	516331	7.97	486943	7.97	106	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1971188	10.72	1846771	10.72	107	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	852881	14.83	784183	14.83	109	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1591557	18.34	1504953	18.34	106	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2039555	24.65	1896651	24.65	108	50 - 200	0.0000	+/-0.50	
Perylene-d12	1901273	27.79	1699182	27.79	112	50 - 200	0.0000	+/-0.50	
Cal Standard (CWF0276-CAL5)			Lab File ID: SV415793.D			Analyzed: 06/25/13 15:25			
1,4-Dichlorobenzene-d4	486943	7.97	486943	7.97	100	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1846771	10.72	1846771	10.72	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	784183	14.83	784183	14.83	100	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1504953	18.34	1504953	18.34	100	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1896651	24.65	1896651	24.65	100	50 - 200	0.0000	+/-0.50	
Perylene-d12	1699182	27.79	1699182	27.79	100	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0276

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL6)			Lab File ID: SV415794.D			Analyzed: 06/25/13 16:16			
1,4-Dichlorobenzene-d4	490117	7.97	486943	7.97	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1833257	10.72	1846771	10.72	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	789458	14.83	784183	14.83	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1457934	18.34	1504953	18.34	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1823367	24.65	1896651	24.65	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	1746155	27.8	1699182	27.79	103	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL7)			Lab File ID: SV415795.D			Analyzed: 06/25/13 17:06			
1,4-Dichlorobenzene-d4	459036	7.98	486943	7.97	94	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1771403	10.73	1846771	10.72	96	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	767478	14.83	784183	14.83	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1440985	18.34	1504953	18.34	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1783987	24.66	1896651	24.65	94	50 - 200	0.0100	+/-0.50	
Perylene-d12	1709681	27.8	1699182	27.79	101	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL8)			Lab File ID: SV415796.D			Analyzed: 06/25/13 17:57			
1,4-Dichlorobenzene-d4	453841	7.98	486943	7.97	93	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1745745	10.73	1846771	10.72	95	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	772440	14.84	784183	14.83	99	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1490678	18.35	1504953	18.34	99	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1802152	24.66	1896651	24.65	95	50 - 200	0.0100	+/-0.50	
Perylene-d12	1776218	27.8	1699182	27.79	105	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL9)			Lab File ID: SV415797.D			Analyzed: 06/25/13 18:47			
1,4-Dichlorobenzene-d4	458148	7.98	486943	7.97	94	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1801150	10.73	1846771	10.72	98	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	790956	14.84	784183	14.83	101	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1539622	18.35	1504953	18.34	102	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1829818	24.67	1896651	24.65	96	50 - 200	0.0200	+/-0.50	
Perylene-d12	1836407	27.8	1699182	27.79	108	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CALA)			Lab File ID: SV415798.D			Analyzed: 06/25/13 19:37			
1,4-Dichlorobenzene-d4	466037	7.98	486943	7.97	96	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1861302	10.74	1846771	10.72	101	50 - 200	0.0200	+/-0.50	
Acenaphthene-d10	784881	14.85	784183	14.83	100	50 - 200	0.0200	+/-0.50	
Phenanthrene-d10	1553373	18.37	1504953	18.34	103	50 - 200	0.0300	+/-0.50	
Chrysene-d12	1659646	24.69	1896651	24.65	88	50 - 200	0.0400	+/-0.50	
Perylene-d12	1858308	27.82	1699182	27.79	109	50 - 200	0.0300	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0289

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SS-502-02 (1306385-06)			Lab File ID: SV415840.D			Analyzed: 06/27/13 00:11			
1,4-Dichlorobenzene-d4	451007	7.96	472513	7.97	95	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	1800557	10.71	1836680	10.71	98	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	804927	14.81	835030	14.82	96	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1564490	18.32	1582059	18.32	99	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2116164	24.62	2031218	24.63	104	50 - 200	-0.0100	+/-0.50	
Perylene-d12	2052143	27.76	1986396	27.76	103	50 - 200	0.0000	+/-0.50	
SS-506-01 (1306385-09)			Lab File ID: SV415841.D			Analyzed: 06/27/13 01:00			
1,4-Dichlorobenzene-d4	504934	7.96	472513	7.97	107	50 - 200	-0.0100	+/-0.50	
Naphthalene-d8	2001242	10.71	1836680	10.71	109	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	931887	14.81	835030	14.82	112	50 - 200	-0.0100	+/-0.50	
Phenanthrene-d10	1732424	18.32	1582059	18.32	110	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2266139	24.64	2031218	24.63	112	50 - 200	0.0100	+/-0.50	
Perylene-d12	2150536	27.78	1986396	27.76	108	50 - 200	0.0200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0290

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (CWF0290-CCV1)			Lab File ID: SV415844.D			Analyzed: 06/27/13 02:32			
1,4-Dichlorobenzene-d4	493334	7.96				50 - 200		+/-0.50	
Naphthalene-d8	1970137	10.71				50 - 200		+/-0.50	
Acenaphthene-d10	942756	14.81				50 - 200		+/-0.50	
Phenanthrene-d10	1733190	18.32				50 - 200		+/-0.50	
Chrysene-d12	2318752	24.62				50 - 200		+/-0.50	
Perylene-d12	2339797	27.76				50 - 200		+/-0.50	
SS-506-02 (1306385-10)			Lab File ID: SV415847.D			Analyzed: 06/27/13 04:58			
1,4-Dichlorobenzene-d4	478595	7.96	493334	7.96	97	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1912549	10.71	1970137	10.71	97	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	871121	14.81	942756	14.81	92	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1613794	18.32	1733190	18.32	93	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2160186	24.63	2318752	24.62	93	50 - 200	0.0100	+/-0.50	
Perylene-d12	2035461	27.76	2339797	27.76	87	50 - 200	0.0000	+/-0.50	
SS-507-02 (1306385-12)			Lab File ID: SV415848.D			Analyzed: 06/27/13 05:47			
1,4-Dichlorobenzene-d4	445318	7.96	493334	7.96	90	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1777062	10.71	1970137	10.71	90	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	806684	14.81	942756	14.81	86	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1548225	18.32	1733190	18.32	89	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2064367	24.62	2318752	24.62	89	50 - 200	0.0000	+/-0.50	
Perylene-d12	1956680	27.76	2339797	27.76	84	50 - 200	0.0000	+/-0.50	
SS-500-01 (1306385-01)			Lab File ID: SV415849.D			Analyzed: 06/27/13 06:35			
1,4-Dichlorobenzene-d4	556851	7.96	493334	7.96	113	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2169821	10.71	1970137	10.71	110	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	985073	14.81	942756	14.81	104	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1873867	18.32	1733190	18.32	108	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2414494	24.63	2318752	24.62	104	50 - 200	0.0100	+/-0.50	
Perylene-d12	2269963	27.77	2339797	27.76	97	50 - 200	0.0100	+/-0.50	
SS-501-01 (1306385-03)			Lab File ID: SV415850.D			Analyzed: 06/27/13 07:24			
1,4-Dichlorobenzene-d4	538347	7.96	493334	7.96	109	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2136533	10.71	1970137	10.71	108	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	985423	14.81	942756	14.81	105	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1842932	18.32	1733190	18.32	106	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2485245	24.63	2318752	24.62	107	50 - 200	0.0100	+/-0.50	
Perylene-d12	2366556	27.77	2339797	27.76	101	50 - 200	0.0100	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0290

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SS-505-02 (1306385-08)									
Lab File ID: SV415851.D					Analyzed: 06/27/13 08:12				
1,4-Dichlorobenzene-d4	549335	7.96	493334	7.96	111	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2217264	10.71	1970137	10.71	113	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1008379	14.81	942756	14.81	107	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1931169	18.32	1733190	18.32	111	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2563079	24.63	2318752	24.62	111	50 - 200	0.0100	+/-0.50	
Perylene-d12	2313656	27.77	2339797	27.76	99	50 - 200	0.0100	+/-0.50	
SS-507-01 (1306385-11)									
Lab File ID: SV415852.D					Analyzed: 06/27/13 09:01				
1,4-Dichlorobenzene-d4	535132	7.96	493334	7.96	108	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2150194	10.71	1970137	10.71	109	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	962772	14.81	942756	14.81	102	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1830481	18.32	1733190	18.32	106	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2410064	24.63	2318752	24.62	104	50 - 200	0.0100	+/-0.50	
Perylene-d12	2341264	27.76	2339797	27.76	100	50 - 200	0.0000	+/-0.50	
DUP (1306385-13)									
Lab File ID: SV415853.D					Analyzed: 06/27/13 09:50				
1,4-Dichlorobenzene-d4	566367	7.96	493334	7.96	115	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	2274471	10.71	1970137	10.71	115	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1036360	14.81	942756	14.81	110	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1941660	18.32	1733190	18.32	112	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2455130	24.64	2318752	24.62	106	50 - 200	0.0200	+/-0.50	
Perylene-d12	2224425	27.78	2339797	27.76	95	50 - 200	0.0200	+/-0.50	
SS-500-02 (1306385-02)									
Lab File ID: SV415854.D					Analyzed: 06/27/13 10:42				
1,4-Dichlorobenzene-d4	466450	7.96	493334	7.96	95	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1838694	10.71	1970137	10.71	93	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	845329	14.81	942756	14.81	90	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1646256	18.32	1733190	18.32	95	50 - 200	0.0000	+/-0.50	
Chrysene-d12	2153220	24.63	2318752	24.62	93	50 - 200	0.0100	+/-0.50	
Perylene-d12	1912530	27.77	2339797	27.76	82	50 - 200	0.0100	+/-0.50	
SS-505-01 (1306385-07)									
Lab File ID: SV415856.D					Analyzed: 06/27/13 12:27				
1,4-Dichlorobenzene-d4	492960	7.96	493334	7.96	100	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1961950	10.71	1970137	10.71	100	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	880021	14.81	942756	14.81	93	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1664296	18.33	1733190	18.32	96	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1954278	24.68	2318752	24.62	84	50 - 200	0.0600	+/-0.50	
Perylene-d12	1587890	27.8	2339797	27.76	68	50 - 200	0.0400	+/-0.50	

INITIAL CALIBRATION DATA
8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
1,1-Biphenyl	0.05	2.135514	0.1	2.006461	0.2	2.021642	0.5	2.068237	1	2.120551	2	2.101188
1,4-Dioxane	0.05	0.4877633	0.1	0.5331961	0.2	0.5154496	0.5	0.5705642	1	0.598222	2	0.598755
2-Methylnaphthalene	0.05	0.8632432	0.1	0.8037446	0.2	0.7763645	0.5	0.8017297	1	0.8203074	2	0.8210196
Acenaphthene	0.05	1.765594	0.1	1.726425	0.2	1.634605	0.5	1.682298	1	1.742246	2	1.69857
Acenaphthylene	0.05	2.680218	0.1	2.526674	0.2	2.408557	0.5	2.64534	1	2.756193	2	2.788445
Anthracene	0.05	1.586662	0.1	1.456482	0.2	1.387137	0.5	1.468147	1	1.482943	2	1.500493
Benzo(a)anthracene	0.05	1.459878	0.1	1.429818	0.2	1.372652	0.5	1.433881	1	1.432462	2	1.432751
Benzo(a)pyrene	0.05	1.627696	0.1	1.340405	0.2	1.321128	0.5	1.420669	1	1.51653	2	1.474611
Benzo(b)fluoranthene	0.05	2.023254	0.1	1.62032	0.2	1.590167	0.5	1.565078	1	1.643144	2	1.604709
Benzo(g,h,i)perylene	0.05	1.695441	0.1	1.408524	0.2	1.353641	0.5	1.400115	1	1.455771	2	1.439013
Benzo(k)fluoranthene	0.05	1.778872	0.1	1.493997	0.2	1.505459	0.5	1.540336	1	1.63428	2	1.510364
Chrysene	0.05	1.582214	0.1	1.421114	0.2	1.333265	0.5	1.358669	1	1.384261	2	1.347321
Dibenzo(a,h)Anthracene	0.05	1.503573	0.1	1.263123	0.2	1.185813	0.5	1.257578	1	1.303933	2	1.30895
Fluoranthene	0.05	1.853759	0.1	1.707709	0.2	1.653269	0.5	1.729049	1	1.762327	2	1.751142
Fluorene	0.05	1.946119	0.1	1.806907	0.2	1.744052	0.5	1.818636	1	1.86079	2	1.857262
Indeno(1,2,3-cd)Pyrene	0.05	1.543811	0.1	1.290608	0.2	1.225947	0.5	1.319832	1	1.368188	2	1.33999
Naphthalene	0.05	1.313601	0.1	1.244642	0.2	1.214211	0.5	1.254979	1	1.276628	2	1.259447
Phenanthrene	0.05	1.649794	0.1	1.496128	0.2	1.4433	0.5	1.465559	1	1.506213	2	1.491467
Pyrene	0.05	1.488946	0.1	1.380531	0.2	1.335274	0.5	1.406346	1	1.452518	2	1.44497
1,2-Dichlorobenzene-d4	0.05	1.898953	0.1	1.456872	0.2	1.219527	0.5	1.133227	1	1.105304	2	1.060441
2-Fluorobiphenyl	0.05	1.871509	0.1	1.745974	0.2	1.715803	0.5	1.746926	1	1.804655	2	1.767909
Nitrobenzene-d5	0.05	0.3221161	0.1	0.2971334	0.2	0.3109214	0.5	0.3315564	1	0.354045	2	0.3710882
p-Terphenyl-d14	0.05	0.9121883	0.1	0.8016411	0.2	0.7812163	0.5	0.8298477	1	0.8195709	2	0.8451837

INITIAL CALIBRATION DATA (Continued)

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
1,1-Biphenyl	5	1.981242	10	1.868409	20	1.675488	50	1.362331				
1,4-Dioxane	5	0.5865335	10	0.590427	20	0.6012424	50	0.564956				
2-Methylnaphthalene	5	0.7824329	10	0.7544057	20	0.7015818	50	0.6131658				
Acenaphthene	5	1.639656	10	1.549089	20	1.486746	50	1.291636				
Acenaphthylene	5	2.625941	10	2.512894	20	2.364918	50	2.015169				
Anthracene	5	1.468923	10	1.360463	20	1.283012	50	1.082748				
Benzo(a)anthracene	5	1.389026	10	1.335421	20	1.311813	50	1.249272				
Benzo(a)pyrene	5	1.443764	10	1.360494	20	1.316122	50	1.102668				
Benzo(b)fluoranthene	5	1.595942	10	1.479109	20	1.453281	50	1.260227				
Benzo(g,h,i)perylene	5	1.407151	10	1.34653	20	1.16364	50	0.9873799				
Benzo(k)fluoranthene	5	1.439129	10	1.340538	20	1.259451	50	0.9105457				
Chrysene	5	1.306465	10	1.218235	20	1.146982	50	1.061658				
Dibenzo(a,h)Anthracene	5	1.304718	10	1.261481	20	1.147689	50	0.9215663				
Fluoranthene	5	1.642038	10	1.543785	20	1.458767	50	1.242157				
Fluorene	5	1.794845	10	1.744842	20	1.654431	50	1.422828				
Indeno(1,2,3-cd)Pyrene	5	1.372672	10	1.266072	20	1.230969	50	1.049076				
Naphthalene	5	1.214147	10	1.172129	20	1.085153	50	0.9262321				
Phenanthrene	5	1.423063	10	1.321859	20	1.235004	50	1.050947				
Pyrene	5	1.383165	10	1.325236	20	1.27658	50	1.202279				
1,2-Dichlorobenzene-d4	5	1.039265	10	0.9989269	20	0.9646293	50	0.86096				
2-Fluorobiphenyl	5	1.689372	10	1.624628	20	1.539025	50	1.398096				
Nitrobenzene-d5	5	0.3692486	10	0.3686919	20	0.3624329	50	0.3359607				
p-Terphenyl-d14	5	0.802331	10	0.7776492	20	0.7531066	50	0.7125288				

INITIAL CALIBRATION DATA (Continued)

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	1.997637	7.32362	13.53111	4.689891E-02			20	
1,4-Dioxane	0.5647109	7.016358	2.955	0.1789459			20	
2-Methylnaphthalene	0.7737995	9.19333	12.394	6.031274E-02			20	
Acenaphthene	1.621686	8.928925	14.906	0.0965671			CCC (30)	
Acenaphthylene	2.532435	9.026941	14.478	9.001744E-02			20	
Anthracene	1.407701	10.04281	18.513	8.910234E-02			20	
Benzo(a)anthracene	1.384697	4.870889	24.63	5.171097E-02			20	
Benzo(a)pyrene	1.392409	10.1434	27.659	7.560403E-02			CCC (30)	
Benzo(b)fluoranthene	1.583523	12.12247	27.016	0.1032552			20	
Benzo(g,h,i)perylene	1.365721	13.62042	30.175	9.270954E-02			20	
Benzo(k)fluoranthene	1.50027	10.12509	27.06778	5.726792E-02			20	
Chrysene	1.316018	11.11545	24.708	7.516842E-02			20	
Dibenzo(a,h)Anthracene	1.245842	11.85497	29.801	8.123701E-02			20	
Fluoranthene	1.6344	10.9026	21.221	6.151283E-02			CCC (30)	
Fluorene	1.765071	8.148338	16.137	8.372662E-02			20	
Indeno(1,2,3-cd)Pyrene	1.300716	9.785769	29.744	8.127758E-02			20	
Naphthalene	1.196117	9.511651	10.771	8.230437E-02			20	
Phenanthrene	1.408333	11.89247	18.396	8.263843E-02			20	
Pyrene	1.369584	6.358248	21.732	7.045578E-02			20	
1,2-Dichlorobenzene-d4	1.047785	10.48857	8.28875	7.596728E-02			20	
2-Fluorobiphenyl	1.69039	8.165657	13.325	7.373046E-02			20	
Nitrobenzene-d5	0.3423195	7.7793	9.156	0.106144			20	
p-Terphenyl-d14	0.8035264	6.751556	22.273	5.114995E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Laboratory ID: CWF0276-SCV1

Sequence: CWF0276

Standard ID: 3F24062

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
1,1-Biphenyl	5.000	4.90	-2.0	30.00
1,2-Dichlorobenzene-d4	5.000	4.71	-5.8	30.00
2-Fluorobiphenyl	5.000	4.69	-6.2	30.00
2-Methylnaphthalene	5.000	5.15	3.0	30.00
Acenaphthene	5.000	5.06	1.2	30.00
Acenaphthylene	5.000	4.81	-3.8	30.00
Anthracene	5.000	5.08	1.6	30.00
Benzo(a)anthracene	5.000	4.87	-2.6	30.00
Benzo(a)pyrene	5.000	4.58	-8.4	30.00
Benzo(b)fluoranthene	5.000	4.48	-10.4	30.00
Benzo(g,h,i)perylene	5.000	4.89	-2.2	30.00
Benzo(k)fluoranthene	5.000	4.75	-5.0	30.00
Chrysene	5.000	4.76	-4.8	30.00
Dibenzo(a,h)Anthracene	5.000	5.31	6.2	30.00
Fluoranthene	5.000	5.00	0.0	30.00
Fluorene	5.000	5.12	2.4	30.00
Indeno(1,2,3-cd)Pyrene	5.000	4.95	-1.0	30.00
Naphthalene	5.000	5.05	1.0	30.00
Nitrobenzene-d5	5.000	5.21	4.2	30.00
Phenanthrene	5.000	5.02	0.4	30.00
p-Terphenyl-d14	5.000	4.77	-4.6	30.00
Pyrene	5.000	4.86	-2.8	30.00

* Values outside of QC limits

Method: Q:\SVOA\MS4\0613\062513\SIM44AW.agm Calibrated: 06/25/2013

ID#	Compound Name	RF(1) Internal Standard	RF(2)	RF(3)	RF(4)	RF(5)	RF(6)	RF(7)	RF(8)	RF(9)	RF(10)	Mean RF	%RSD
1	1,4-Dichlorobenzene-D4	--	1.220	1.133	1.105	1.060	1.039	0.999	0.965	0.861	--	1.048	10.489
2	Naphthalene-D10	0.297	0.311	0.332	0.354	0.371	0.369	0.369	0.362	0.336	0.322	0.342	7.779
3	Acenaphthene-D10	1.746	1.716	1.805	1.768	1.689	1.689	1.625	1.539	1.398	1.872	1.690	8.166
4	Phenanthrene-D10	--	0.038	0.046	0.048	0.056	0.049	0.045	0.040	0.039	--	0.045	13.348
5	Chrysene-D12	0.802	0.781	0.830	0.820	0.845	0.802	0.778	0.753	0.713	0.912	0.804	6.752
6	Perylene-D12												
7	1,2-Dichlorobenzene-D4 (Surr)												
8	Nitrobenzene-D5 (Surr)												
9	2-Fluorobiphenyl (Surr)												
10	2,4,6-Trichlorophenol (Surr)												
11	Terphenyl-D14 (Surr)												
12	1,4-Dioxane-d8 (IS)												
13	1,4-Dioxane-d8 (Surr)	0.524	0.527	0.526	0.546	0.556	0.549	0.566	0.559	0.547	0.558	0.546	2.788
14	1,4-Dioxane (IS1)	0.551	0.515	0.571	0.598	0.599	0.587	0.590	0.601	0.565	0.488	0.567	6.782
15	1,4-Dioxane (IS7)	1.018	0.979	1.084	1.095	1.077	1.068	1.044	1.075	1.033	0.874	1.035	6.447
16	Pyridine	1.773	1.464	1.583	1.604	1.631	1.716	1.693	1.722	1.657	2.297	1.714	12.980
17	Naphthalene	1.245	1.214	1.255	1.277	1.259	1.214	1.172	1.085	0.926	1.314	1.196	9.512
18	2-Methylnaphthalene	0.804	0.776	0.802	0.820	0.821	0.782	0.754	0.702	0.613	0.863	0.774	9.193
19	1-Methylnaphthalene	0.771	0.787	0.794	0.799	0.777	0.777	0.747	0.705	0.600	0.837	0.763	8.827
20	Biphenyl	2.006	2.022	2.068	2.121	2.101	1.981	1.868	1.675	--	2.136	1.998	7.324
21	Dimethylphthalate	1.750	1.659	1.774	1.835	1.891	1.815	1.754	1.718	1.514	1.843	1.755	6.163
22	Acenaphthylene	2.527	2.409	2.645	2.756	2.788	2.626	2.513	2.365	2.015	2.680	2.532	9.027
23	Acenaphthene	1.726	1.635	1.682	1.742	1.699	1.640	1.549	1.487	1.292	1.766	1.622	8.929
24	Fluorene	1.807	1.744	1.819	1.861	1.857	1.795	1.745	1.654	1.423	1.946	1.765	8.148
25	Diethylphthalate	--	--	3.955	3.181	2.597	2.233	2.047	1.992	1.824	--	2.547	30.264
26	Hexachlorobenzene	0.251	0.219	0.228	0.230	0.228	0.202	0.191	0.169	0.145	0.246	0.211	16.167
27	Pentachlorotirobenzene	0.067	0.063	0.080	0.089	0.097	0.093	0.090	0.087	0.079	--	0.083	14.000
28	Pentachlorophenol	0.063	0.068	0.094	0.113	0.143	0.159	0.165	0.171	--	--	0.122	35.754
29	Phenanthrene	1.496	1.443	1.466	1.506	1.491	1.423	1.322	1.235	1.051	1.650	1.408	11.892
30	Anthracene	1.456	1.387	1.468	1.483	1.500	1.469	1.360	1.283	1.083	1.587	1.408	10.043
31	Di-n-butylphthalate	1.922	1.771	1.876	1.975	2.037	1.974	1.904	1.796	1.534	2.278	1.907	10.113
32	Fluoranthene	1.708	1.653	1.729	1.762	1.751	1.642	1.544	1.459	1.242	1.854	1.634	10.903
33	Pyrene	1.381	1.335	1.406	1.445	1.445	1.383	1.325	1.277	1.202	1.489	1.370	6.358
34	Butylbenzylphthalate	0.555	0.532	0.623	0.694	0.736	0.750	0.750	0.724	0.705	0.650	0.672	11.796
35	Benz[a]anthracene	1.430	1.373	1.434	1.432	1.433	1.389	1.335	1.312	1.249	1.460	1.385	4.871
36	Chrysene	1.421	1.333	1.359	1.384	1.347	1.306	1.218	1.147	1.062	1.582	1.316	11.115
37	Bis(2-ethylhexyl)phthalate	0.797	0.777	0.911	1.003	1.110	1.116	1.098	1.059	1.003	0.926	0.980	12.674
38	Di-n-octylphthalate	1.365	1.418	1.582	1.901	2.013	2.082	2.017	1.933	1.594	1.550	1.745	15.494
39	Benzo[b]fluoranthene	1.620	1.590	1.565	1.643	1.605	1.596	1.479	1.453	1.260	2.023	1.584	12.122
40	Benzo[k]fluoranthene	1.494	1.505	1.540	1.634	1.510	1.439	1.341	1.259	1.179	1.779	1.500	10.125
41	Benzo[a]pyrene	1.340	1.321	1.421	1.517	1.475	1.444	1.360	1.316	1.103	1.628	1.392	10.143
42	Indeno[1,2,3-cd]pyrene	1.291	1.226	1.320	1.368	1.340	1.373	1.266	1.231	1.049	1.544	1.301	9.786
43	Dibenz[a,h]anthracene	1.263	1.186	1.258	1.304	1.309	1.305	1.261	1.148	0.922	1.504	1.246	11.855
44	Benzo[ghi]perylene	1.409	1.354	1.400	1.456	1.439	1.407	1.347	1.164	0.987	1.695	1.366	13.620

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 [6]=20, [7]=5
 Sample Amount : 1
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 Injection Volume : 1

Internal Standard

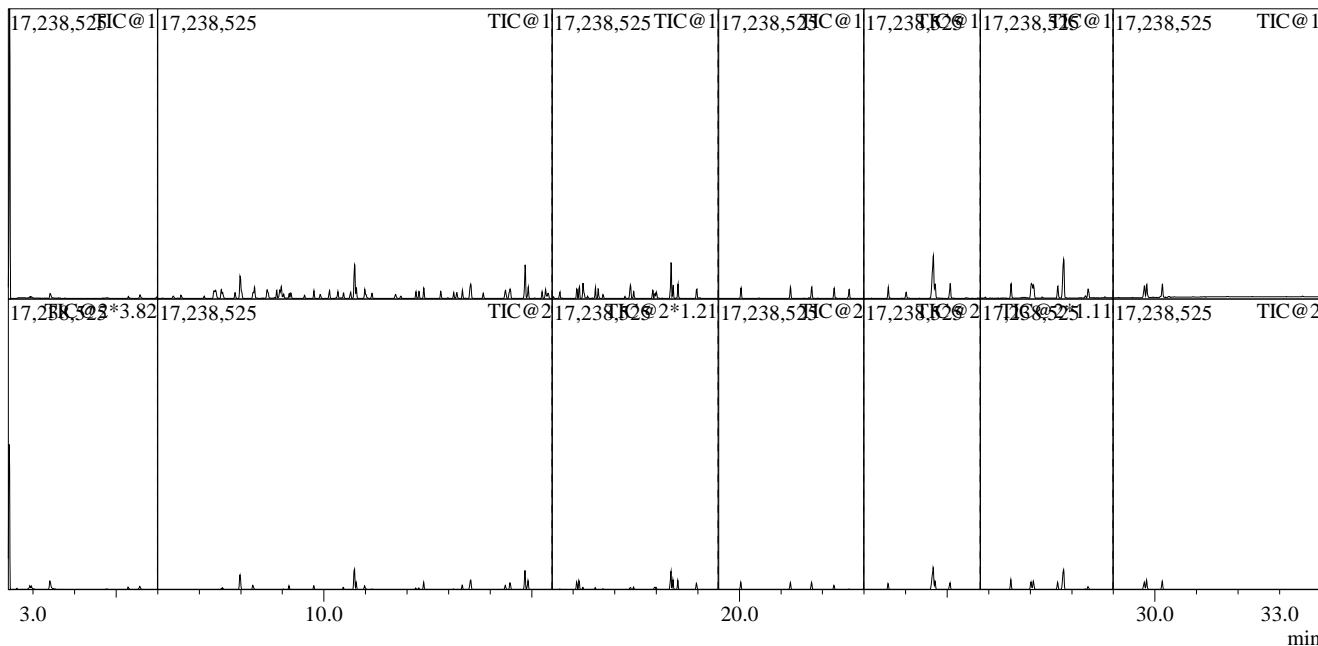
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	455605	20.0000	ng/uL	97.49
2	Naphthalene-D10	10.73	136	1786619	20.0000	ng/uL	98.40
3	Acenaphthene-D10	14.84	164	764172	20.0000	ng/uL	90.81
4	Phenanthrene-D10	18.35	188	1471000	20.0000	ng/uL	91.30
5	Chrysene-D12	24.66	240	1897796	20.0000	ng/uL	92.88
6	Perylene-D12	27.80	264	1886848	20.0000	ng/uL	89.72
12	1,4-Dioxane-d8 (IS)	2.92	64	63850	5.0000	ng/uL	98.06

Surrogate

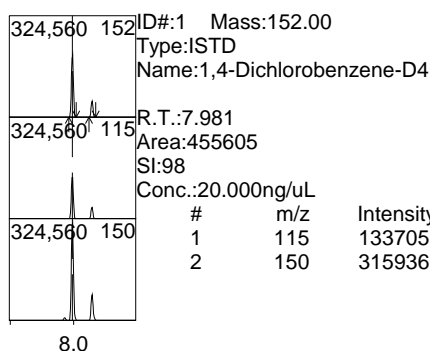
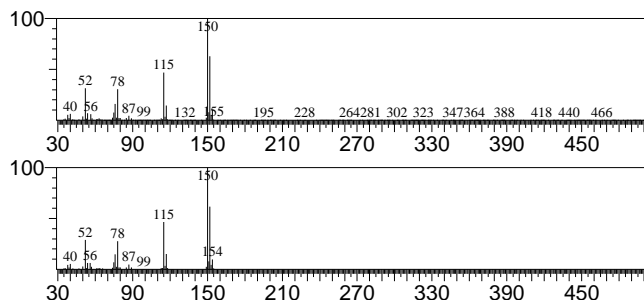
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	112374	4.71	ng/uL	188.3200
8	Nitrobenzene-D5 (Surr)	9.16	82	159382	5.21	ng/uL	208.4800
9	2-Fluorobiphenyl (Surr)	13.33	172	302639	4.69	ng/uL	187.4300
10	2,4,6-Tribromophenol (Surr)	16.71	330	13833	4.20	ng/uL	111.9500
11	Terphenyl-D14 (Surr)	22.28	244	363496	4.77	ng/uL	190.7000
13	1,4-Dioxane-d8 (Surr)	2.92	64	63850	5.13	ng/uL	102.6900

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67277	5.2131	ng/uL	95
15	1,4-Dioxane (IS7)	2.96	88	67286	5.0933	ng/uL	94
16	Pyridine	3.41	79	191673	4.9087	ng/uL	95
17	Naphthalene	10.78	128	539310	5.0473	ng/uL	98
18	2-Methylnaphthalene	12.40	142	355784	5.1470	ng/uL	99
19	1-Methylnaphthalene	12.62	142	3899	0.0572	ng/uL	91
20	Biphenyl	13.54	154	373649	4.8954	ng/uL	87
21	Dimethylphthalate	14.37	163	335650	5.0049	ng/uL	60
22	Acenaphthylene	14.48	152	465525	4.8111	ng/uL	83
23	Acenaphthene	14.91	153	313542	5.0602	ng/uL	99
24	Fluorene	16.14	166	345359	5.1209	ng/uL	97
25	Diethylphthalate	16.08	149	427539	5.1359	ng/uL	98
26	Hexachlorobenzene	17.45	284	65979	5.1504	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	32626	5.3649	ng/uL	95
28	Pentachlorophenol	17.96	266	57811	4.8201	ng/uL	93
29	Phenanthrene	18.40	178	520181	5.0219	ng/uL	92
30	Anthracene	18.52	178	525731	5.0777	ng/uL	97
31	Di-n-butylphthalate	20.03	149	711340	5.0724	ng/uL	98
32	Fluoranthene	21.22	202	601540	5.0041	ng/uL	98
33	Pyrene	21.73	202	631342	4.8580	ng/uL	98
34	Butylbenzylphthalate	23.58	149	341512	5.3574	ng/uL	98
35	Benzo[a]anthracene	24.63	228	640443	4.8742	ng/uL	98
36	Chrysene	24.71	228	594443	4.7602	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	524196	5.6372	ng/uL	98
38	Di-n-octylphthalate	26.53	149	921214	5.5944	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	668865	4.4772	ng/uL	96
40	Benzo[k]fluoranthene	27.08	252	672247	4.7496	ng/uL	71
41	Benzo[a]pyrene	27.66	252	602134	4.5837	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	607519	4.9507	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	624243	5.3111	ng/uL	67
44	Benzo[ghi]perylene	30.18	276	629562	4.8862	ng/uL	98



ID#:1 R.Time:8.0(Scan#:1341)



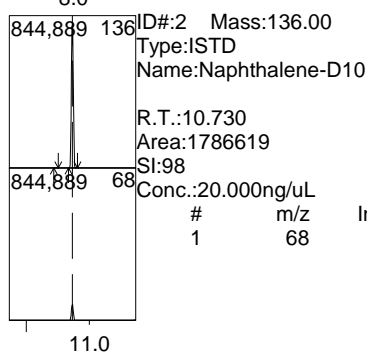
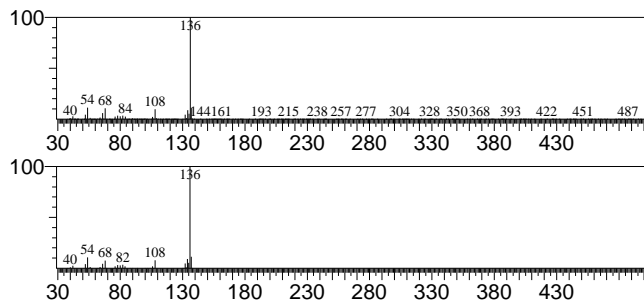
ID#:1 Mass:152.00

Type:ISTD
Name:1,4-Dichlorobenzene-D4

R.T.:7.981
Area:455605
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	133705	64.82	64.46
2	150	315936	153.16	153.04

ID#:2 R.Time:10.7(Scan#:2001)



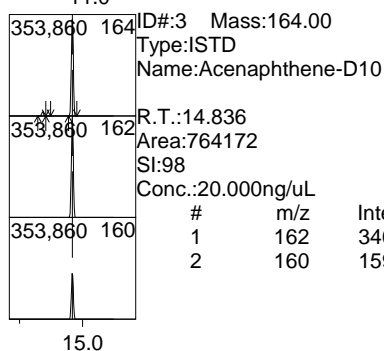
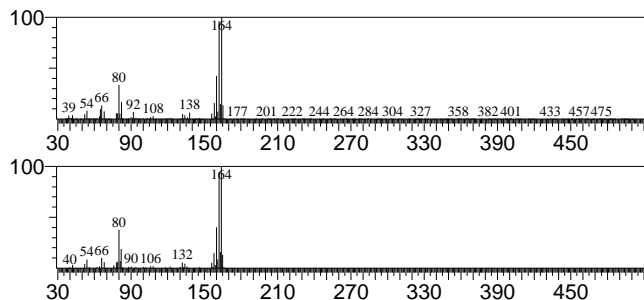
ID#:2 Mass:136.00

Type:ISTD
Name:Naphthalene-D10

R.T.:10.730
Area:1786619
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	89918	10.73	10.41

ID#:3 R.Time:14.8(Scan#:2985)



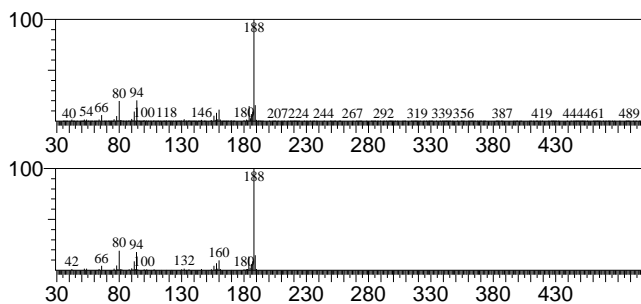
ID#:3 Mass:164.00

Type:ISTD
Name:Acenaphthene-D10

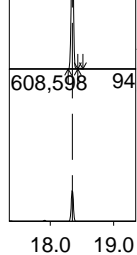
R.T.:14.836
Area:764172
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	340694	98.63	98.16
2	160	159795	46.26	45.78

ID#:4 R.Time:18.3(Scan#:3777)



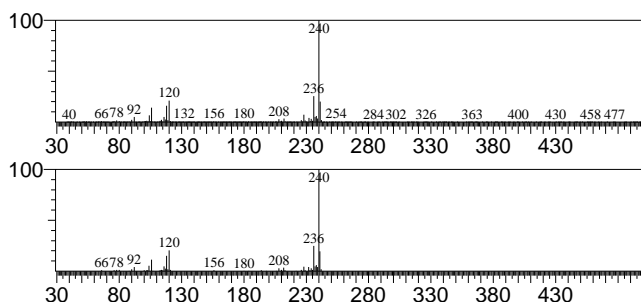
ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10



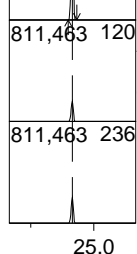
R.T.:18.348
Area:1471000
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	121210	20.81	20.35

ID#5 R.Time:24.7(Scan#:5271)



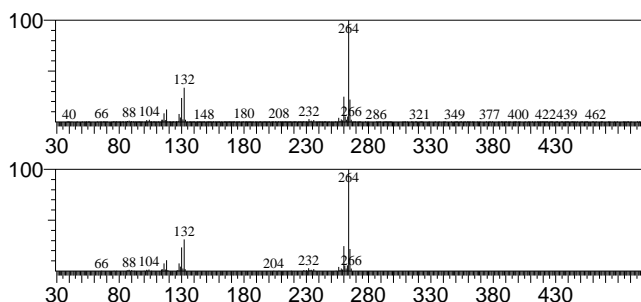
ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12



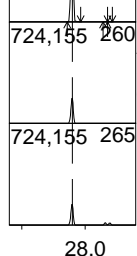
R.T.:24.659
Area:1897796
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	164857	21.26	21.49
2	236	206021	26.57	26.97

ID#6 R.Time:27.8(Scan#:6025)



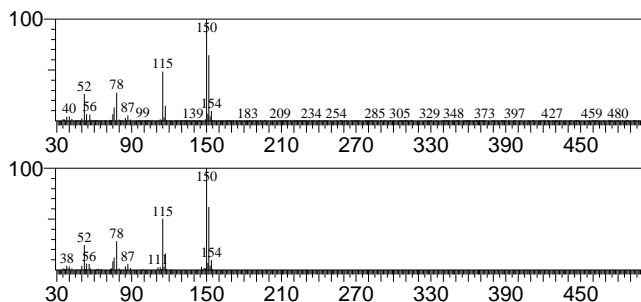
ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12



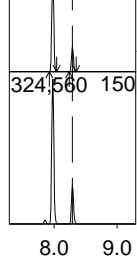
R.T.:27.797
Area:1886848
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	180289	26.22	26.45
2	265	146015	21.24	21.28

ID#7 R.Time:8.3(Scan#:1415)



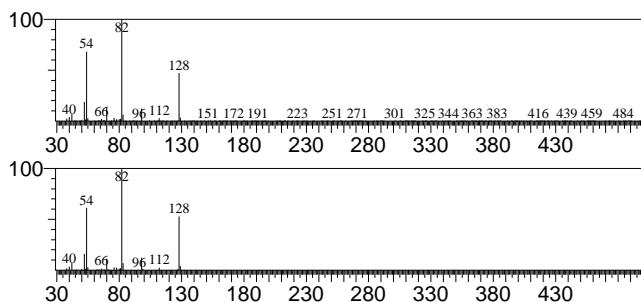
ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)



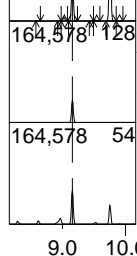
R.T.:8.291
Area:112374
SI:97
Conc.:4.708ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	85593	156.80	156.32

ID#8 R.Time:9.2(Scan#:1623)



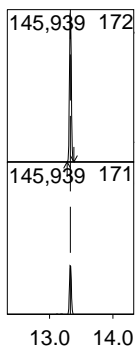
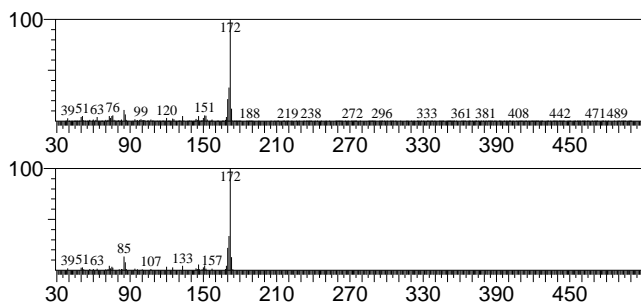
ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)



R.T.:9.160
Area:159382
SI:97
Conc.:5.212ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	38196	47.48	46.62
2	54	57676	71.69	72.11

ID#:9 R.Time:13.3(Scan#:2623)



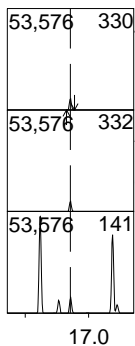
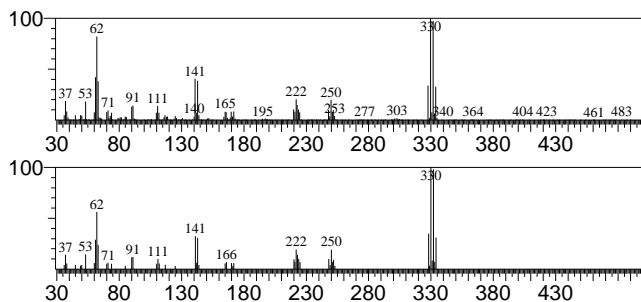
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.329
Area:302639
SI:97

Conc.:4.686ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	48995	33.59	33.45

ID#:10 R.Time:16.7(Scan#:3415)



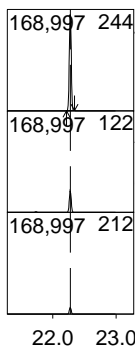
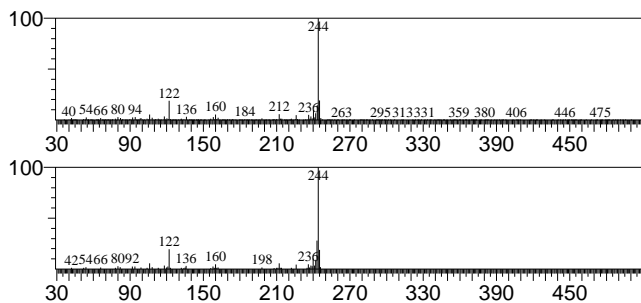
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.713
Area:13833
SI:96

Conc.:4.198ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	5525	87.30	87.12
2	141	8789	138.87	115.50

ID#:11 R.Time:22.3(Scan#:4699)



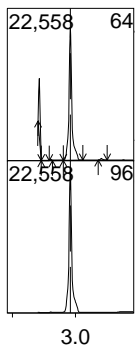
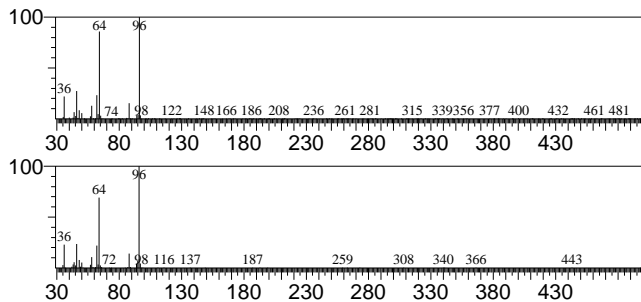
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.276
Area:363496
SI:97

Conc.:4.767ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	36356	21.89	22.00
2	212	11247	6.77	6.96

ID#:12 R.Time:2.9(Scan#:125)



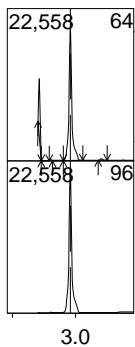
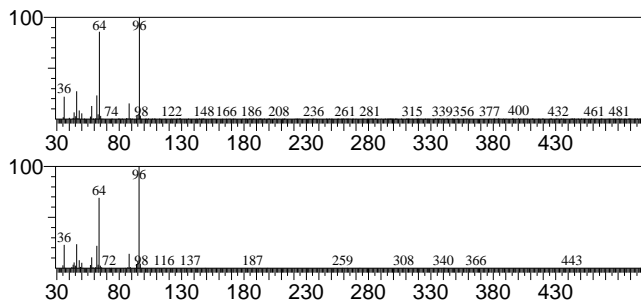
ID#12 Mass:64.00
Type:ISTD
Name:1,4-Dioxane-d8 (IS)

R.T.:2.918
Area:63850
SI:95

Conc.:5.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	96	22195	108.96	107.23

ID#:13 R.Time:2.9(Scan#:125)



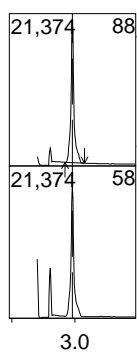
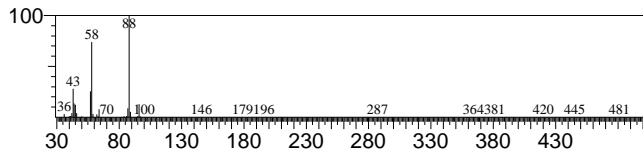
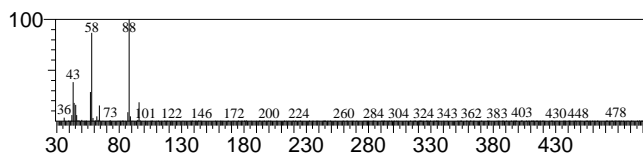
ID#13 Mass:64.00
Type:Surrogate/SMC
Name:1,4-Dioxane-d8 (Surr)

R.T.:2.918
Area:63850
SI:95

Conc.:5.134ng/uL

#	m/z	Intensity	Ratio	Setting
1	96	22195	108.96	107.23

ID#:14 R.Time:3.0(Scan#:135)



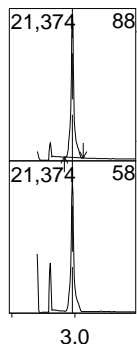
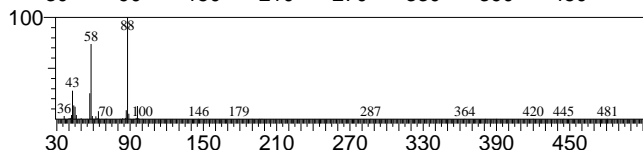
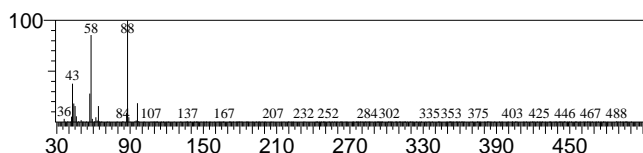
ID#:14 Mass:88.00
Type:Target
Name:1,4-Dioxane (IS1)

R.T.:2.959
Area:67277
SI:95

Conc.:5.213ng/uL

#	m/z	Intensity	Ratio	Setting
1	58	18968	91.92	92.56

ID#:15 R.Time:3.0(Scan#:135)



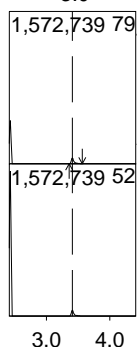
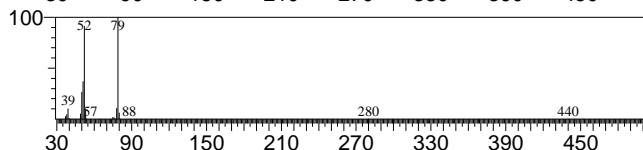
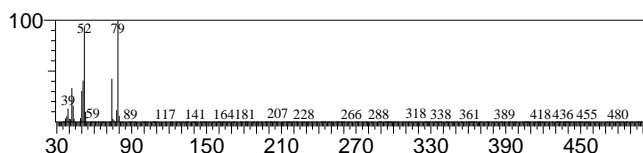
ID#:15 Mass:88.00
Type:Target
Name:1,4-Dioxane (IS7)

R.T.:2.959
Area:67286
SI:94

Conc.:5.093ng/uL

#	m/z	Intensity	Ratio	Setting
1	58	18967	91.91	92.56

ID#:16 R.Time:3.4(Scan#:243)



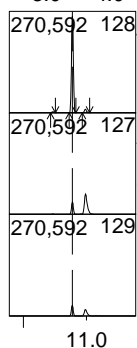
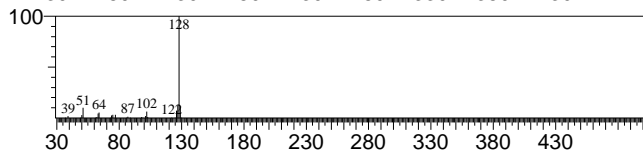
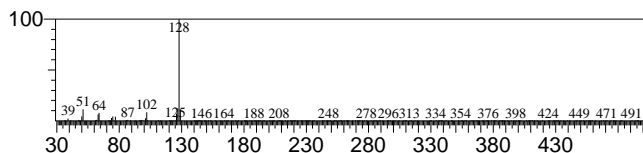
ID#:16 Mass:79.00
Type:Target
Name:Pyridine

R.T.:3.408
Area:191673
SI:95

Conc.:4.909ng/uL

#	m/z	Intensity	Ratio	Setting
1	52	63549	98.71	98.89

ID#:17 R.Time:10.8(Scan#:2011)



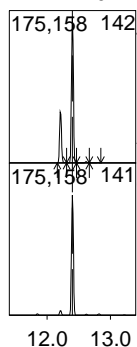
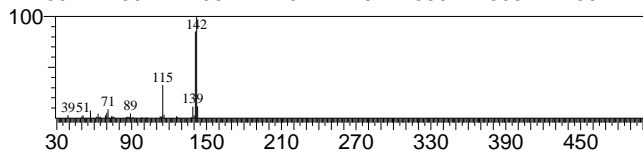
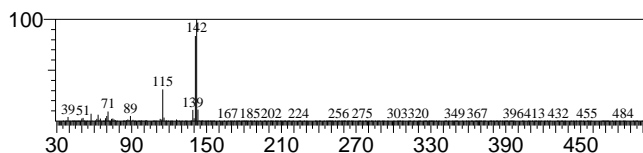
ID#:17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.776
Area:539310
SI:98

Conc.:5.047ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	34767	12.59	12.47
2	129	30125	10.91	10.69

ID#:18 R.Time:12.4(Scan#:2401)



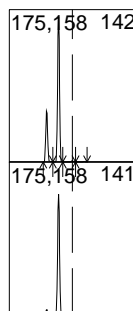
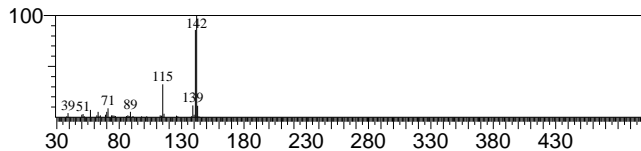
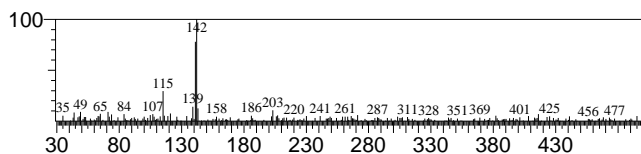
ID#:18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.400
Area:355784
SI:99

Conc.:5.147ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	146590	82.91	83.48

ID#:19 R.Time:12.6(Scan#:2453)



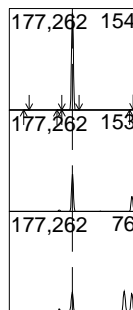
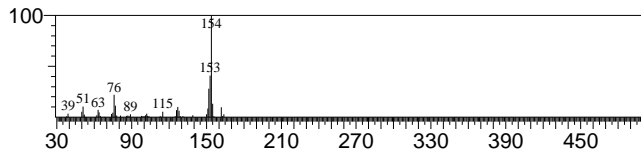
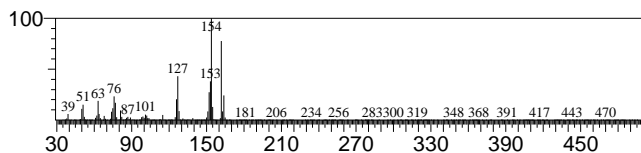
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.618
Area:3899
SI:91

Conc.:0.057ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1267	87.99	86.49

ID#:20 R.Time:13.5(Scan#:2673)



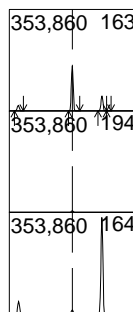
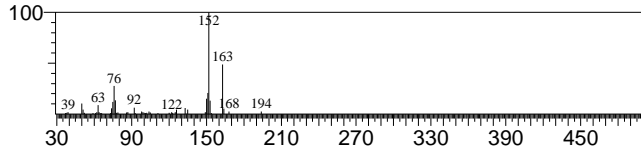
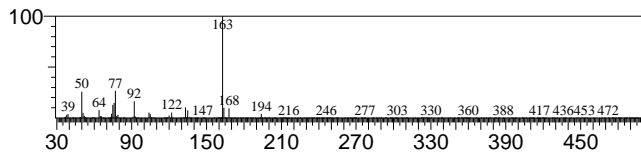
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.537
Area:373649
SI:87

Conc.:4.895ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	66987	38.05	38.30
2	76	37920	21.54	20.53

ID#:21 R.Time:14.4(Scan#:2873)



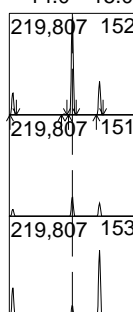
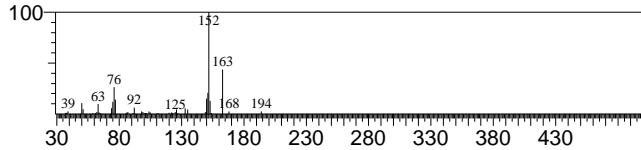
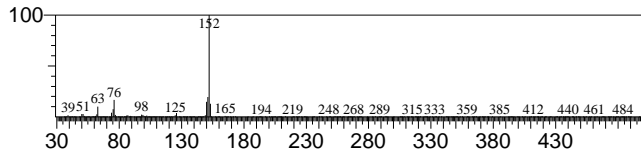
ID#:21 Mass:163.00
Type:Target
Name:Dimethylphthalate

R.T.:14.367
Area:335650
SI:60

Conc.:5.005ng/uL

#	m/z	Intensity	Ratio	Setting
1	194	6550	3.94	4.01
2	164	16292	9.80	9.62

ID#:22 R.Time:14.5(Scan#:2901)



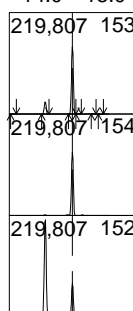
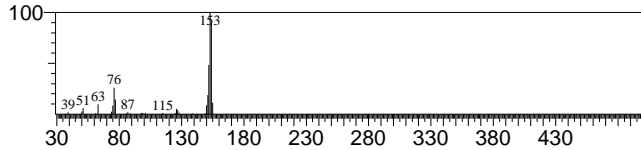
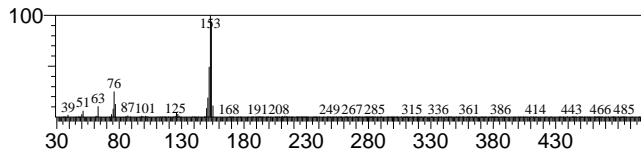
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.480
Area:465525
SI:83

Conc.:4.811ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	42873	19.72	19.73
2	153	26894	12.37	12.55

ID#:23 R.Time:14.9(Scan#:3003)



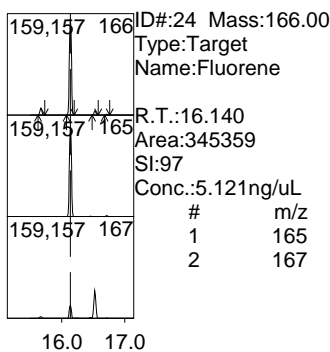
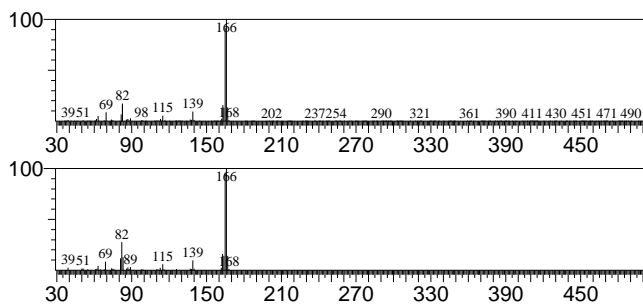
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.909
Area:313542
SI:99

Conc.:5.060ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	145653	93.90	94.24
2	152	76421	49.27	48.84

ID#:24 R.Time:16.1(Scan#:3287)

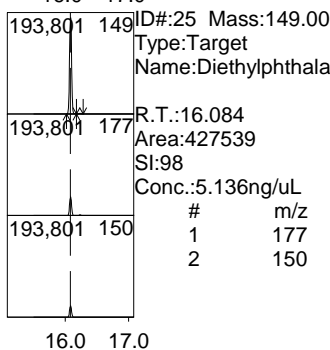
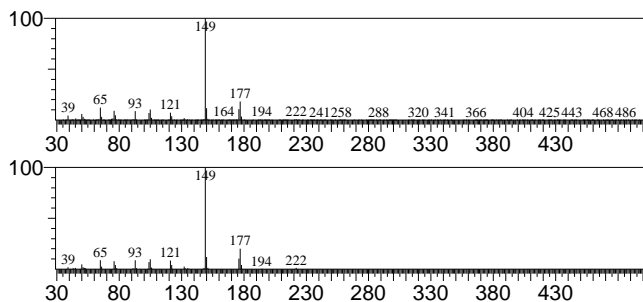


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.140
Area:345359
SI:97
Conc.:5.121ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	148459	91.95	91.79
2	167	21537	13.34	13.06

ID#:25 R.Time:16.1(Scan#:3275)

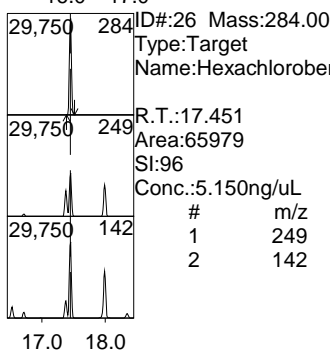
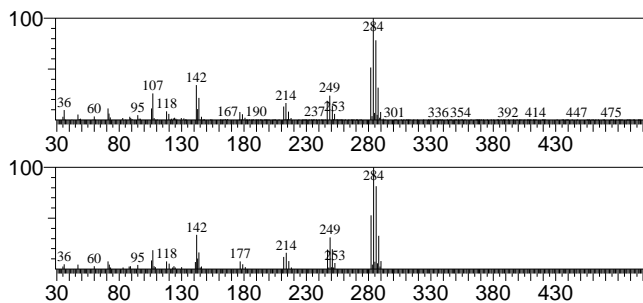


ID#:25 Mass:149.00
Type:Target
Name:Diethylphthalate

R.T.:16.084
Area:427539
SI:98
Conc.:5.136ng/uL

#	m/z	Intensity	Ratio	Setting
1	177	37198	19.02	18.98
2	150	22685	11.60	11.38

ID#:26 R.Time:17.5(Scan#:3579)

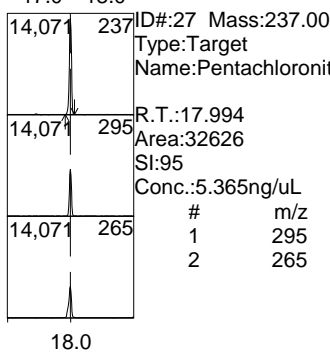
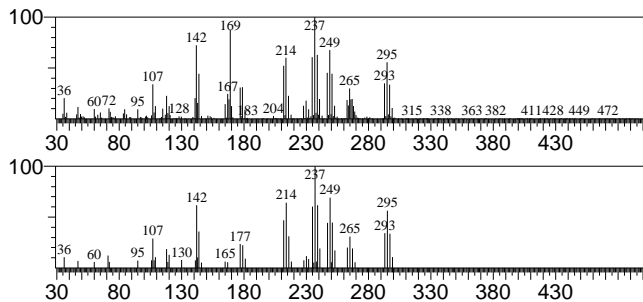


ID#:26 Mass:284.00
Type:Target
Name:Hexachlorobenzene

R.T.:17.451
Area:65979
SI:96
Conc.:5.150ng/uL

#	m/z	Intensity	Ratio	Setting
1	249	10751	36.00	34.27
2	142	21995	73.66	65.30

ID#:27 R.Time:18.0(Scan#:3699)

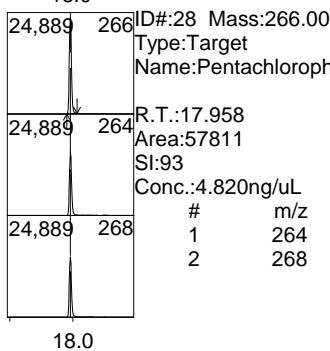
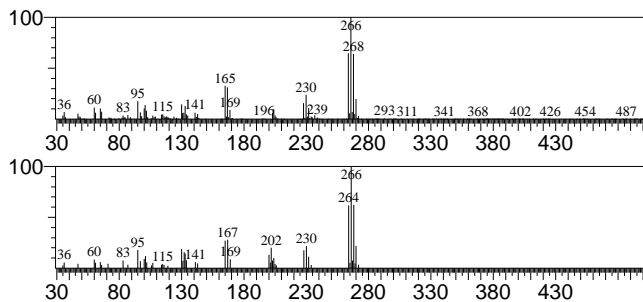


ID#:27 Mass:237.00
Type:Target
Name:Pentachloronitrobenzene

R.T.:17.994
Area:32626
SI:95
Conc.:5.365ng/uL

#	m/z	Intensity	Ratio	Setting
1	295	6891	49.09	49.15
2	265	4433	31.58	31.52

ID#:28 R.Time:18.0(Scan#:3691)

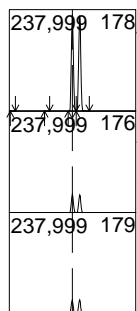
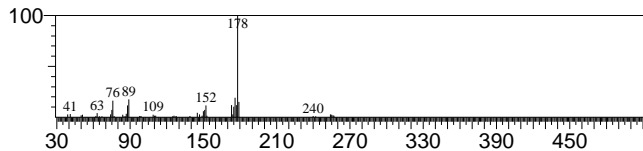
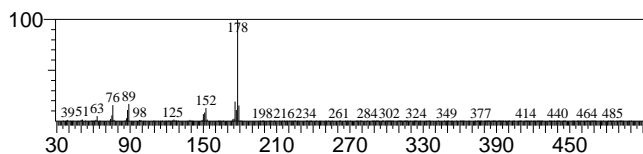


ID#:28 Mass:266.00
Type:Target
Name:Pentachlorophenol

R.T.:17.958
Area:57811
SI:93
Conc.:4.820ng/uL

#	m/z	Intensity	Ratio	Setting
1	264	15915	64.32	64.83
2	268	15503	62.66	63.34

ID#:29 R.Time:18.4(Scan#:3789)

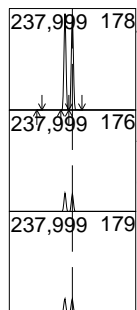
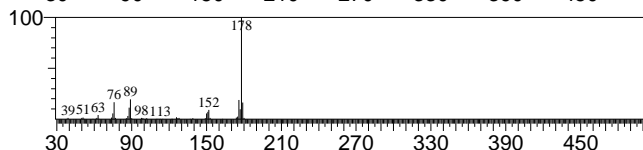
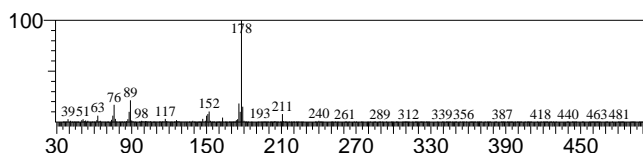


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.400
Area:520181
SI:92
Conc.:5.022ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	45813	19.00	19.01
2	179	36315	15.06	14.96

ID#:30 R.Time:18.5(Scan#:3815)

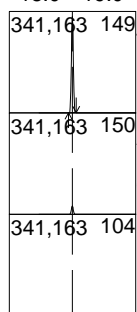
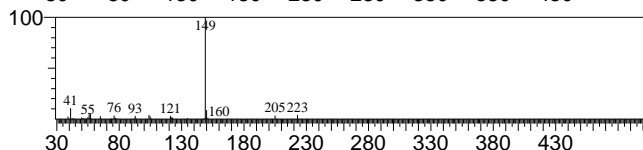
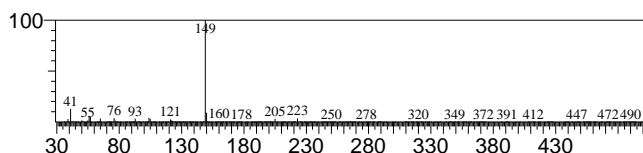


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.517
Area:525731
SI:97
Conc.:5.078ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	44279	18.68	18.44
2	179	35796	15.10	14.91

ID#:31 R.Time:20.0(Scan#:4161)

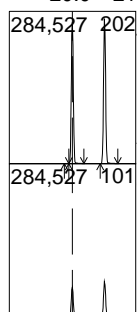
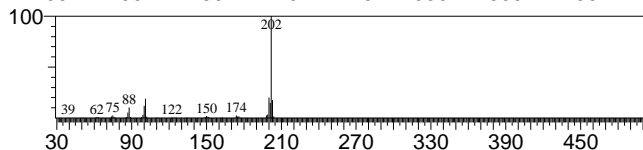
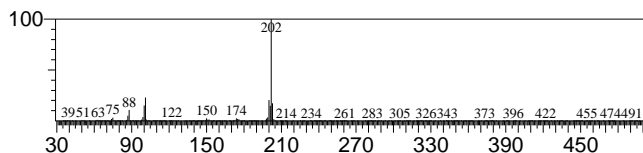


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.033
Area:711340
SI:98
Conc.:5.072ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	29932	8.80	8.85
2	104	13689	4.02	4.11

ID#:32 R.Time:21.2(Scan#:4447)

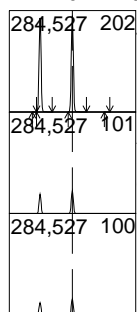
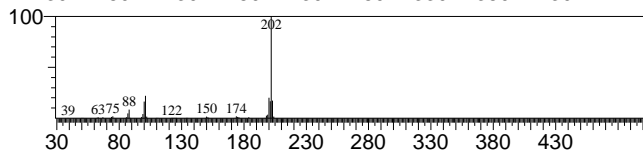
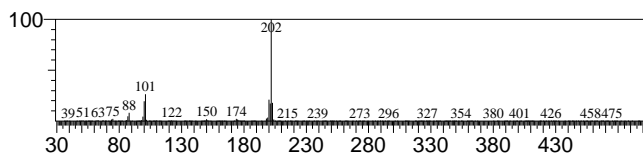


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.224
Area:601540
SI:98
Conc.:5.004ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	56091	20.40	19.90

ID#:33 R.Time:21.7(Scan#:4569)

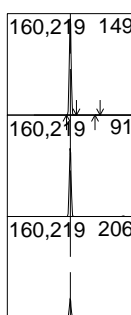
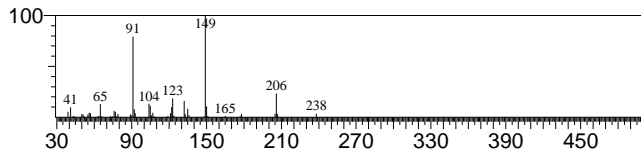
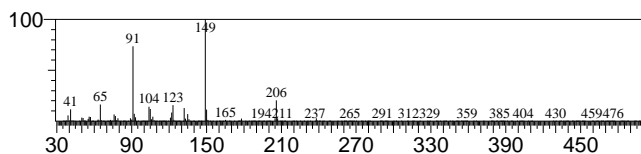


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.735
Area:631342
SI:98
Conc.:4.858ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	65810	23.71	23.05
2	100	47516	17.12	16.73

ID#:34 R.Time:23.6(Scan#:5011)

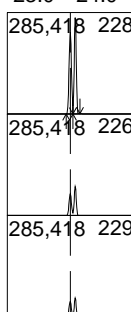
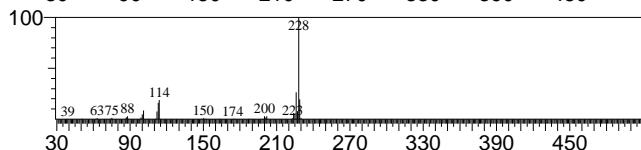
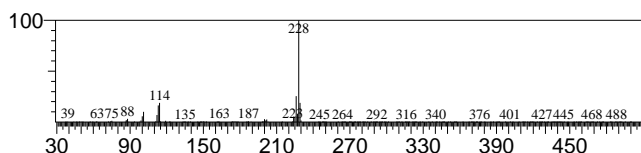


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.577
Area:341512
SI:98
Conc.:5.357ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	111963	70.76	71.05
2	206	31210	19.73	20.07

ID#:35 R.Time:24.6(Scan#:5265)

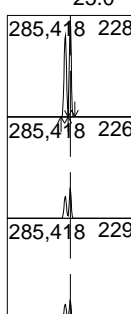
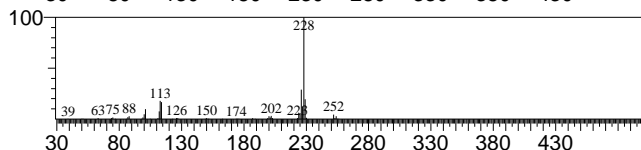
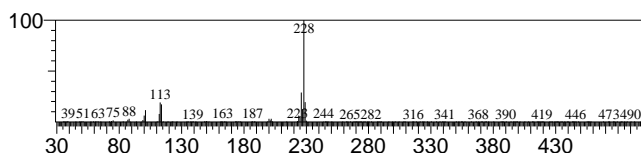


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.631
Area:640443
SI:98
Conc.:4.874ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	57958	26.51	26.61
2	229	42319	19.35	19.42

ID#:36 R.Time:24.7(Scan#:5283)

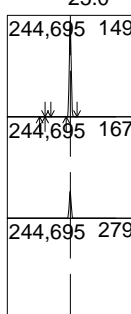
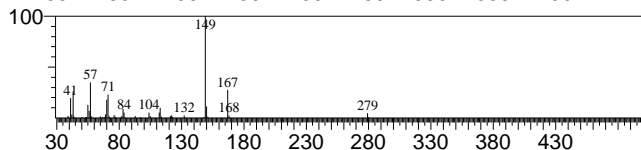
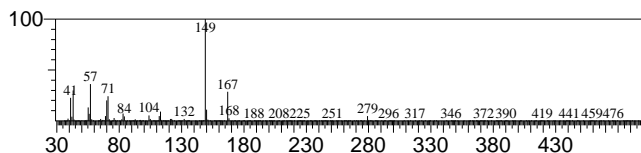


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.710
Area:594443
SI:97
Conc.:4.760ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	83886	29.80	29.65
2	229	56026	19.90	19.80

ID#:37 R.Time:25.1(Scan#:5369)

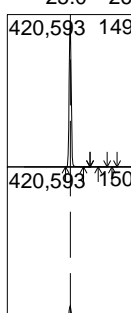
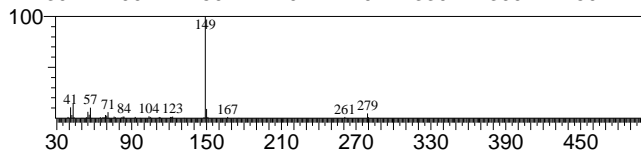
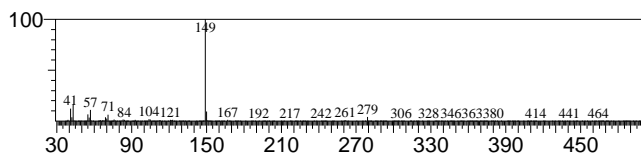


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.066
Area:524196
SI:98
Conc.:5.637ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	68580	28.32	29.06
2	279	9147	3.78	3.82

ID#:38 R.Time:26.5(Scan#:5721)

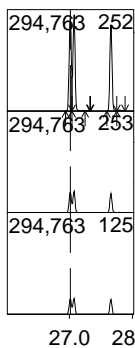
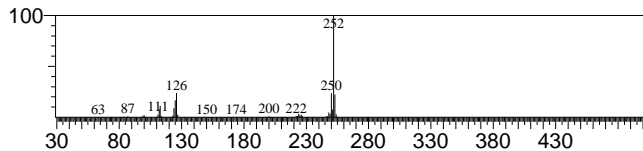
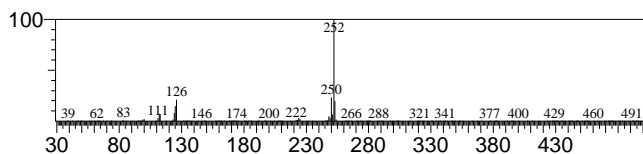


ID#:38 Mass:149.00
Type:Target
Name:Di-n-octylphthalate

R.T.:26.533
Area:921214
SI:98
Conc.:5.594ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	38211	9.23	9.35

ID#:39 R.Time:27.0(Scan#:5837)

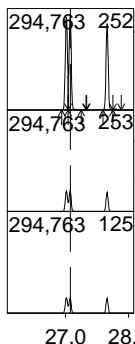
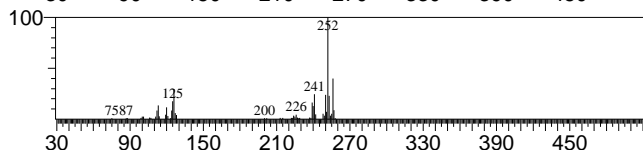
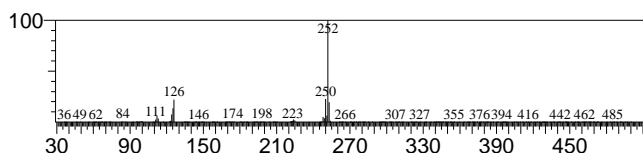


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.015
Area:668865
SI:96
Conc.:4.477ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	48270	20.19	20.47
2	125	34297	14.35	14.42

ID#:40 R.Time:27.1(Scan#:5851)

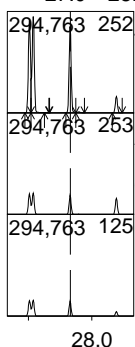
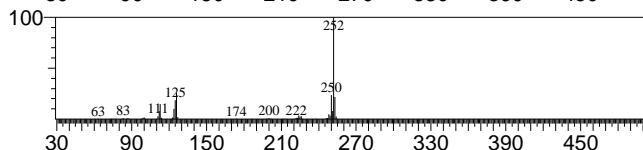
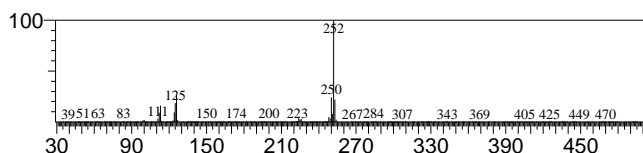


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.075
Area:672247
SI:71
Conc.:4.750ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	49652	19.91	20.25
2	125	34476	13.83	13.99

ID#:41 R.Time:27.7(Scan#:5991)

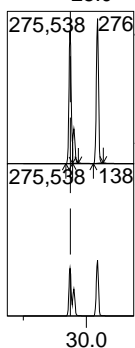
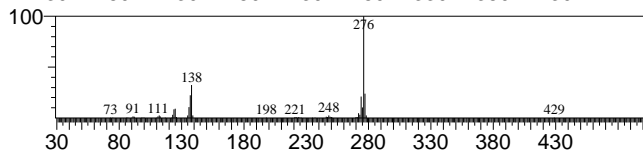
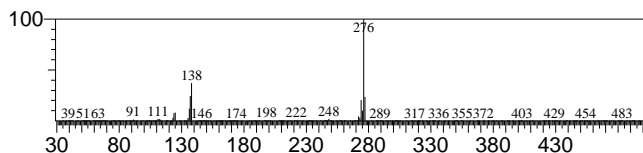


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.659
Area:602134
SI:99
Conc.:4.584ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	55467	21.80	22.04
2	125	43545	17.12	17.40

ID#:42 R.Time:29.7(Scan#:6491)

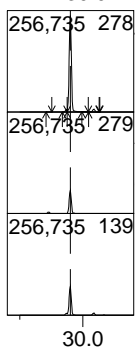
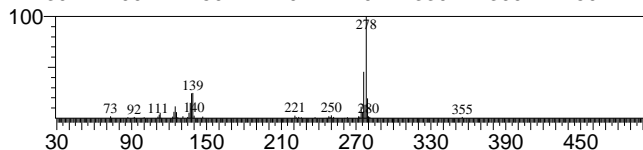
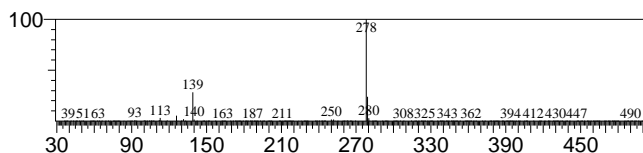


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.742
Area:607519
SI:97
Conc.:4.951ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	75072	33.23	33.11

ID#:43 R.Time:29.8(Scan#:6505)

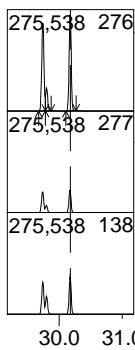
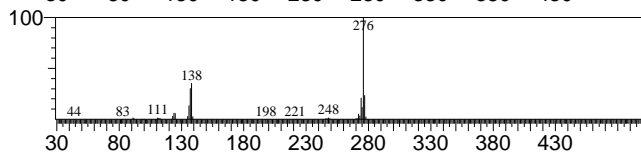
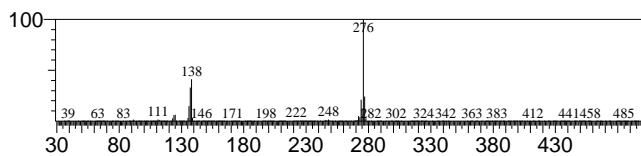


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.801
Area:624243
SI:67
Conc.:5.311ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	59485	24.45	24.14
2	139	71058	29.21	30.66

ID#:44 R.Time:30.2(Scan#:6595)



ID#:44 Mass:276.00
 Type:Target
 Name:Benzo[ghi]perylene

R.T.:30.175
 Area:629562
 SI:98
 Conc.:4.886ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	61784	23.24	23.94
2	138	102584	38.59	39.82

<Quality Assurance / Quality Control>

- Index
 1. [Control](#)
- <Create> 6/26/2013 1:20:29 PM

<Report for Sample Type "Control">

- Index
 1. [Column Performance](#)
 2. [Spectrum Check](#)
 3. [Degradation Check](#)
- <Output Date> 6/26/2013 1:20:29 PM
- <Method File Name>

Column Performance

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062513\SV415787.qgd	CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal

- [Result]

<i>ID</i>	<i>Compound Name</i>	<i>Tailing F.</i>	<i>Tailing F. L. Limit</i>	<i>Tailing F. U. Limit</i>	<i>Tailing F. Status</i>
1	DFTPP	0.925097	-	-	-
2	4,4'-DDE	0.823944	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	0.982090	-	-	-
5	Pentachlorophenol	1.066474	-	2.000000	Pass
6	Benzidine	1.131904	-	2.000000	Pass

Spectrum Check

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062513\SV415787.qgd	CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal

- DFTPP

<i>m/z</i>	<i>Spectrum Check Criteria</i>	<i>Result</i>	<i>Status</i>
51	30- 60% of the base peak	56.135478	Pass
68	< 2% of mass 69	1.642628	Pass
70	< 2% of mass 69	0.459971	Pass
127	40 - 60% of mass 198	55.017928	Pass
197	< 1% of mass 198	0.683125	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.685242	Pass
275	10 - 30% of the base peak	22.567719	Pass
365	> 1% of the base peak	1.446856	Pass
441	Present and < mass 443	74.437929	Pass

442	base peak or > 40% of mass 198	56.696723	Pass
443	17 - 23% of mass 442	19.350793	Pass

Degradation Check

- Count 1

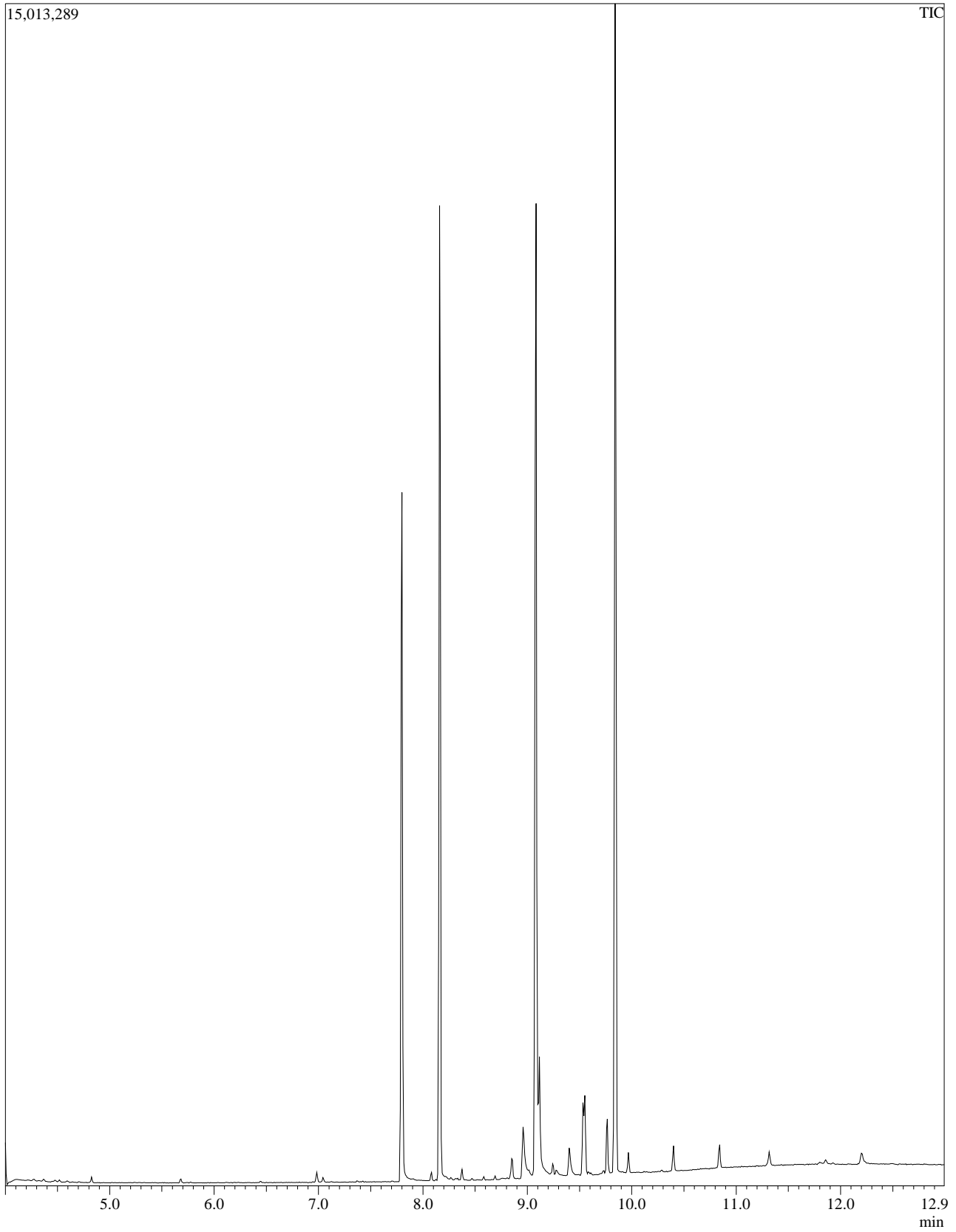
<i>Data</i>	<i>Data File Path</i>		<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>	
<i>Data1:</i>	Q:\SVOA\MS4\0613\062513\SV415787.qgd		CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal	
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
<i>1</i>	4	4,4'-DDT	15349968	TIC	5.651482	20.000000	Pass
<i>1</i>	2	4,4'-DDE	132270	TIC			
<i>1</i>	3	4,4'-DDD	787194	TIC			

Data File : Q:\SVOA\MS4\0613\062513\SV415787.qgd
 Method File : Q:\SVOA\MS4\0613\062513\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 11:02:30 AM
 Sample Type : Control
 Level # : 1
 Sample Name : CWF0260-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.16	TIC	12731361	0.8356	ng/uL	95
2	4,4'-DDE	9.24	TIC	132270	0.0000	ng/uL	36
3	4,4'-DDD	9.55	TIC	787194	0.0386	ng/uL	81
4	4,4'-DDT	9.84	TIC	15349968	0.7532	ng/uL	93
5	Pentachlorophenol	7.79	266	1130517	0.7358	ng/uL	95
6	Benzidine	9.08	184	5295989	415.2089	ng/uL	97



Data File : Q:\SVOA\MS4\0613\062513\SV415789.qgd
 Method File : Q:\SVOA\MS4\0613\062513\SIMA4AW.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 12:19:38 PM
 Sample Type : Unknown
 Level # : 10
 Sample Name : CWF0260-CAL1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 3
 Injection Volume : 1

Internal Standard

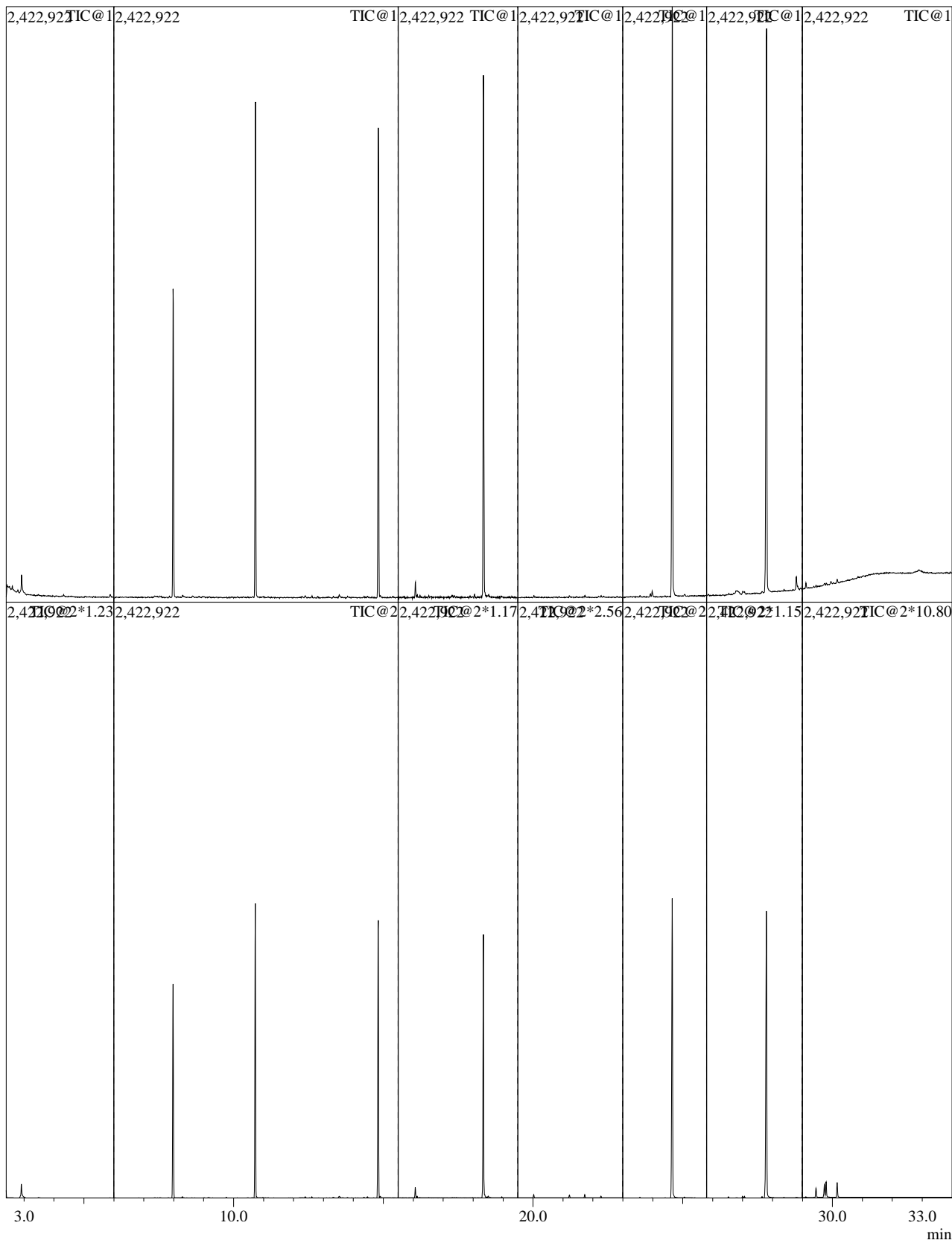
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	445298	20.0000	ng/uL	95.28
2	Naphthalene-D10	10.72	136	1718635	20.0000	ng/uL	94.66
3	Acenaphthene-D10	14.83	164	766654	20.0000	ng/uL	91.10
4	Phenanthrene-D10	18.34	188	1482609	20.0000	ng/uL	92.02
5	Chrysene-D12	24.65	240	1912763	20.0000	ng/uL	93.61
6	Perylene-D12	27.79	264	1759542	20.0000	ng/uL	83.67
12	1,4-Dioxane-d8 (IS)	2.91	64	62163	5.0000	ng/uL	95.47

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	2114	0.0906	ng/uL	3.62
8	Nitrobenzene-D5 (Surr)	9.16	82	1384	0.0470	ng/uL	1.88
9	2-Fluorobiphenyl (Surr)	13.32	172	3587	0.0554	ng/uL	2.21
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.(Peak)	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	4362	0.0568	ng/uL	2.27
13	1,4-Dioxane-d8 (Surr)	2.91	64	62163	5.1145	ng/uL	102.29

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	543	0.0430	ng/uL	55
15	1,4-Dioxane (IS7)	2.96	88	543	0.0422	ng/uL	55
16	Pyridine	3.48	79	2557	0.0670	ng/uL	88
17	Naphthalene	10.77	128	5644	0.0549	ng/uL	86
18	2-Methylnaphthalene	12.39	142	3709	0.0558	ng/uL	90
19	1-Methylnaphthalene	12.61	142	3596	0.0549	ng/uL	92
20	Biphenyl	13.53	154	4093	0.0535	ng/uL	85
21	Dimethylphthalate	14.35	163	3532	0.0525	ng/uL	65
22	Acenaphthylene	14.47	152	5137	0.0529	ng/uL	80
23	Acenaphthene	14.90	153	3384	0.0544	ng/uL	94
24	Fluorene	16.13	166	3730	0.0551	ng/uL	91
25	Diethylphthalate	16.07	149	45269	-0.4170	ng/uL	95
26	Hexachlorobenzene	17.44	284	912	-0.9138	ng/uL	87
27	Pentachloronitrobenzene	-	237	---	N.D.(Peak)	ng/uL	---
28	Pentachlorophenol	-	266	---	N.D.(Peak)	ng/uL	---
29	Phenanthrene	18.39	178	6115	0.0586	ng/uL	72
30	Anthracene	18.51	178	5881	0.0564	ng/uL	93
31	Di-n-butylphthalate	20.03	149	8442	0.0597	ng/uL	93
32	Fluoranthene	21.21	202	6871	0.0567	ng/uL	92
33	Pyrene	21.72	202	7120	0.0544	ng/uL	94
34	Butylbenzylphthalate	23.57	149	3107	0.0484	ng/uL	89
35	Benz[a]anthracene	24.63	228	6981	0.0527	ng/uL	34
36	Chrysene	24.70	228	7566	0.0601	ng/uL	85
37	Bis(2-ethylhexyl)phthalate	25.06	149	4430	0.0473	ng/uL	93
38	Di-n-octylphthalate	26.53	149	6817	0.0444	ng/uL	92
39	Benzo[b]fluoranthene	27.00	252	8900	0.0639	ng/uL	92
40	Benzo[k]fluoranthene	27.06	252	7825	0.0593	ng/uL	71
41	Benzo[a]pyrene	27.65	252	7160	0.0584	ng/uL	93
42	Indeno[1,2,3-cd]pyrene	29.73	276	6791	0.0593	ng/uL	92
43	Dibenz[a,h]anthracene	29.79	278	6614	0.0603	ng/uL	72
44	Benzo[ghi]perylene	30.16	276	7458	0.0621	ng/uL	93



Data File : Q:\SVOA\MS4\0613\062513\SV415790.qgd
 Method File : Q:\SVOA\MS4\0613\062513\SIMA4AW.qgm
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 Analyzed by : IBM
 Analyzed : 6/25/2013 1:09:42 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CWF0260-CAL2
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 4
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	477873	20.0000	ng/uL	102.25
2	Naphthalene-D10	10.72	136	1832174	20.0000	ng/uL	100.91
3	Acenaphthene-D10	14.83	164	787755	20.0000	ng/uL	93.61
4	Phenanthrene-D10	18.34	188	1513373	20.0000	ng/uL	93.93
5	Chrysene-D12	24.65	240	1976196	20.0000	ng/uL	96.72
6	Perylene-D12	27.79	264	1855559	20.0000	ng/uL	88.24
12	1,4-Dioxane-d8 (IS)	2.92	64	62602	5.0000	ng/uL	96.15

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	3481	0.1390	ng/uL	5.56
8	Nitrobenzene-D5 (Surr)	9.16	82	2722	0.0868	ng/uL	3.47
9	2-Fluorobiphenyl (Surr)	13.32	172	6877	0.1033	ng/uL	4.13
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.(Peak)	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	7921	0.0998	ng/uL	3.99
13	1,4-Dioxane-d8 (Surr)	2.92	64	62602	4.7995	ng/uL	95.99

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	1317	0.0973	ng/uL	65
15	1,4-Dioxane (IS7)	2.96	88	1274	0.0984	ng/uL	66
16	Pyridine	3.47	79	4237	0.1035	ng/uL	86
17	Naphthalene	10.77	128	11402	0.1041	ng/uL	89
18	2-Methylnaphthalene	12.39	142	7363	0.1039	ng/uL	93
19	1-Methylnaphthalene	12.61	142	7065	0.1011	ng/uL	94
20	Biphenyl	13.53	154	7903	0.1004	ng/uL	93
21	Dimethylphthalate	14.36	163	6893	0.0997	ng/uL	72
22	Acenaphthylene	14.47	152	9952	0.0998	ng/uL	84
23	Acenaphthene	14.90	153	6800	0.1065	ng/uL	90
24	Fluorene	16.13	166	7117	0.1024	ng/uL	91
25	Diethylphthalate	16.07	149	48009	-0.3959	ng/uL	95
26	Hexachlorobenzene	17.44	284	1900	-0.8260	ng/uL	90
27	Pentachloronitrobenzene	17.98	237	504	0.0806	ng/uL	77
28	Pentachlorophenol	17.96	266	475	0.2884	ng/uL	62
29	Phenanthrene	18.39	178	11321	0.1062	ng/uL	76
30	Anthracene	18.51	178	11021	0.1035	ng/uL	95
31	Di-n-butylphthalate	20.03	149	14545	0.1008	ng/uL	95
32	Fluoranthene	21.22	202	12922	0.1045	ng/uL	96
33	Pyrene	21.73	202	13641	0.1008	ng/uL	96
34	Butylbenzylphthalate	23.57	149	5488	0.0827	ng/uL	93
35	Benz[a]anthracene	24.63	228	14128	0.1033	ng/uL	76
36	Chrysene	24.70	228	14042	0.1080	ng/uL	85
37	Bis(2-ethylhexyl)phthalate	25.06	149	7873	0.0813	ng/uL	93
38	Di-n-octylphthalate	26.53	149	12663	0.0782	ng/uL	94
39	Benzo[b]fluoranthene	27.00	252	15033	0.1023	ng/uL	93
40	Benzo[k]fluoranthene	27.06	252	13861	0.0996	ng/uL	72
41	Benzo[a]pyrene	27.65	252	12436	0.0963	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.73	276	11974	0.0992	ng/uL	96
43	Dibenz[a,h]anthracene	29.79	278	11719	0.1014	ng/uL	70
44	Benzo[ghi]perylene	30.16	276	13068	0.1031	ng/uL	96



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 Dilution Factor : 1
 Vial # : 5
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	503638	20.0000	ng/uL	107.76
2	Naphthalene-D10	10.72	136	1916883	20.0000	ng/uL	105.58
3	Acenaphthene-D10	14.83	164	817751	20.0000	ng/uL	97.17
4	Phenanthrene-D10	18.34	188	1600707	20.0000	ng/uL	99.35
5	Chrysene-D12	24.65	240	2041304	20.0000	ng/uL	99.90
6	Perylene-D12	27.79	264	1823896	20.0000	ng/uL	86.73
12	1,4-Dioxane-d8 (IS)	2.92	64	66293	5.0000	ng/uL	101.82

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	6142	0.2328	ng/uL	9.31
8	Nitrobenzene-D5 (Surr)	9.16	82	5960	0.1817	ng/uL	7.27
9	2-Fluorobiphenyl (Surr)	13.32	172	14031	0.2030	ng/uL	8.12
10	2,4,6-Tribromophenol (Surr)	16.71	330	613	-0.5016	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	15947	0.1944	ng/uL	7.78
13	1,4-Dioxane-d8 (Surr)	2.92	64	66293	4.8225	ng/uL	96.45

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	2596	0.1820	ng/uL	85
15	1,4-Dioxane (IS7)	2.96	88	2596	0.1893	ng/uL	85
16	Pyridine	3.46	79	7374	0.1708	ng/uL	95
17	Naphthalene	10.77	128	23275	0.2030	ng/uL	92
18	2-Methylnaphthalene	12.39	142	14882	0.2007	ng/uL	96
19	1-Methylnaphthalene	12.61	142	15085	0.2064	ng/uL	96
20	Biphenyl	13.53	154	16532	0.2024	ng/uL	92
21	Dimethylphthalate	14.36	163	13567	0.1890	ng/uL	70
22	Acenaphthylene	14.47	152	19696	0.1902	ng/uL	81
23	Acenaphthene	14.90	153	13367	0.2016	ng/uL	90
24	Fluorene	16.13	166	14262	0.1976	ng/uL	93
25	Diethylphthalate	16.07	149	57013	-0.2986	ng/uL	96
26	Hexachlorobenzene	17.44	284	3506	-0.6979	ng/uL	94
27	Pentachloronitrobenzene	17.98	237	1009	0.1525	ng/uL	89
28	Pentachlorophenol	17.95	266	1092	0.3312	ng/uL	76
29	Phenanthrene	18.39	178	23103	0.2050	ng/uL	81
30	Anthracene	18.51	178	22204	0.1971	ng/uL	96
31	Di-n-butylphthalate	20.03	149	28348	0.1858	ng/uL	96
32	Fluoranthene	21.22	202	26464	0.2023	ng/uL	96
33	Pyrene	21.73	202	27257	0.1950	ng/uL	97
34	Butylbenzylphthalate	23.57	149	10863	0.1584	ng/uL	95
35	Benz[a]anthracene	24.63	228	28020	0.1983	ng/uL	84
36	Chrysene	24.70	228	27216	0.2026	ng/uL	89
37	Bis(2-ethylhexyl)phthalate	25.06	149	15856	0.1585	ng/uL	95
38	Di-n-octylphthalate	26.53	149	25855	0.1624	ng/uL	96
39	Benzo[b]fluoranthene	27.00	252	29003	0.2008	ng/uL	93
40	Benzo[k]fluoranthene	27.06	252	27458	0.2007	ng/uL	71
41	Benzo[a]pyrene	27.65	252	24096	0.1898	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.73	276	22360	0.1885	ng/uL	95
43	Dibenz[a,h]anthracene	29.79	278	21628	0.1904	ng/uL	70
44	Benzo[ghi]perylene	30.16	276	24689	0.1982	ng/uL	97



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 Dilution Factor : 1
 Vial # : 6
 Injection Volume : 1

Internal Standard

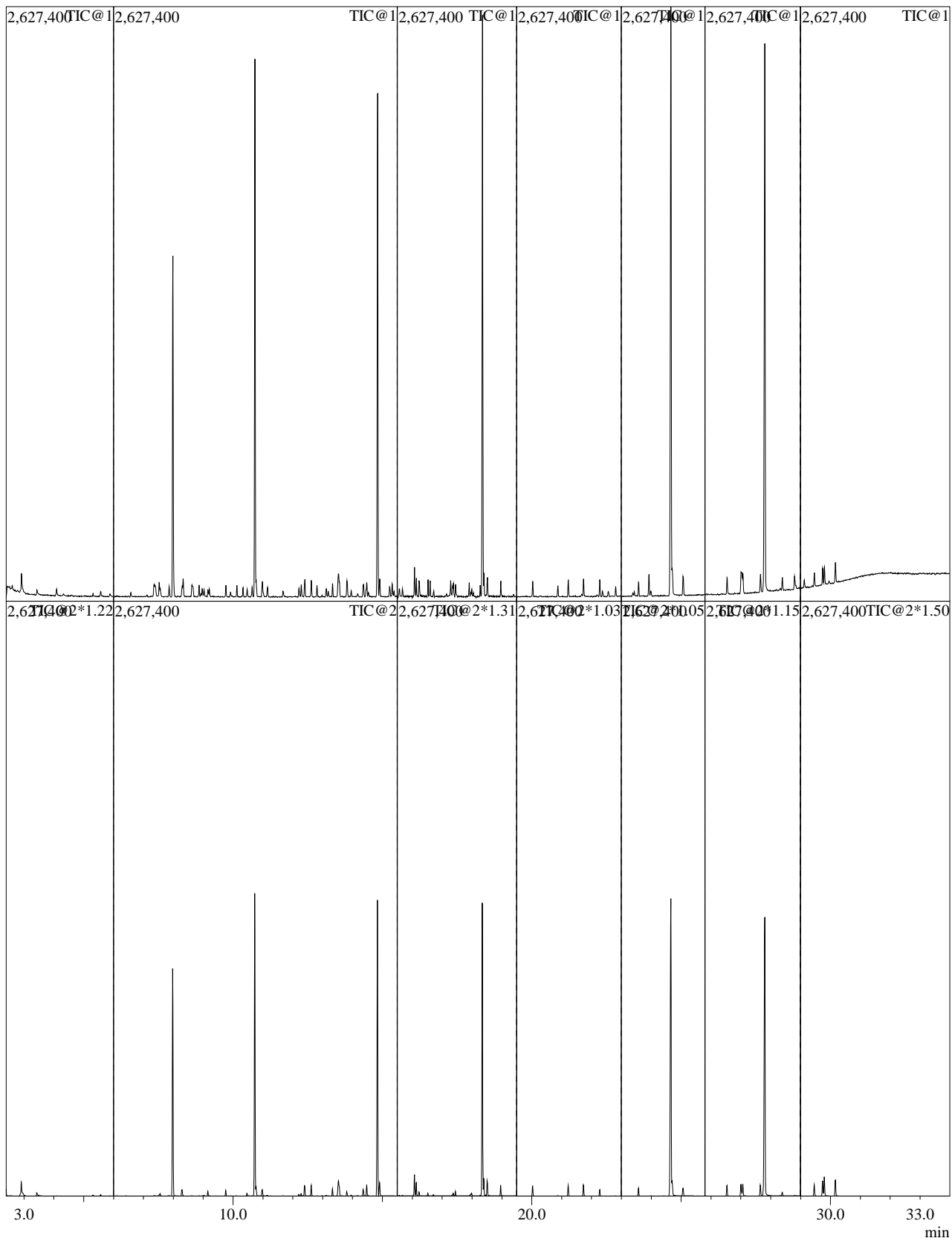
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1	1,4-Dichlorobenzene-D4	7.98	152	516331	20.0000	ng/uL	110.48
2	Naphthalene-D10	10.73	136	1971188	20.0000	ng/uL	108.57
3	Acenaphthene-D10	14.83	164	852881	20.0000	ng/uL	101.35
4	Phenanthrene-D10	18.34	188	1591557	20.0000	ng/uL	98.78
5	Chrysene-D12	24.65	240	2039555	20.0000	ng/uL	99.82
6	Perylene-D12	27.80	264	1901273	20.0000	ng/uL	90.41
12	1,4-Dioxane-d8 (IS)	2.91	64	67920	5.0000	ng/uL	104.32

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	14628	0.5408	ng/uL	21.63
8	Nitrobenzene-D5 (Surr)	9.16	82	16339	0.4843	ng/uL	19.37
9	2-Fluorobiphenyl (Surr)	13.32	172	37248	0.5167	ng/uL	20.67
10	2,4,6-Tribromophenol (Surr)	16.71	330	1811	-0.1083	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	42313	0.5164	ng/uL	20.66
13	1,4-Dioxane-d8 (Surr)	2.91	64	67920	4.8194	ng/uL	96.39

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	7365	0.5036	ng/uL	81
15	1,4-Dioxane (IS7)	2.96	88	7365	0.5241	ng/uL	81
16	Pyridine	3.44	79	20436	0.4618	ng/uL	94
17	Naphthalene	10.77	128	61845	0.5246	ng/uL	96
18	2-Methylnaphthalene	12.40	142	39509	0.5180	ng/uL	96
19	1-Methylnaphthalene	12.61	142	39124	0.5205	ng/uL	97
20	Biphenyl	13.53	154	44099	0.5177	ng/uL	92
21	Dimethylphthalate	14.36	163	37827	0.5054	ng/uL	75
22	Acenaphthylene	14.47	152	56404	0.5223	ng/uL	84
23	Acenaphthene	14.90	153	35870	0.5187	ng/uL	92
24	Fluorene	16.13	166	38777	0.5152	ng/uL	94
25	Diethylphthalate	16.07	149	84325	0.0249	ng/uL	96
26	Hexachlorobenzene	17.45	284	9073	-0.2166	ng/uL	94
27	Pentachloronitrobenzene	17.99	237	3197	0.4859	ng/uL	93
28	Pentachlorophenol	17.95	266	3737	0.5248	ng/uL	84
29	Phenanthrene	18.39	178	58313	0.5203	ng/uL	84
30	Anthracene	18.51	178	58416	0.5215	ng/uL	97
31	Di-n-butylphthalate	20.03	149	74645	0.4920	ng/uL	98
32	Fluoranthene	21.22	202	68797	0.5290	ng/uL	98
33	Pyrene	21.73	202	71708	0.5134	ng/uL	98
34	Butylbenzylphthalate	23.57	149	31756	0.4635	ng/uL	97
35	Benz[a]anthracene	24.63	228	73112	0.5178	ng/uL	93
36	Chrysene	24.70	228	69277	0.5162	ng/uL	93
37	Bis(2-ethylhexyl)phthalate	25.06	149	46455	0.4649	ng/uL	97
38	Di-n-octylphthalate	26.53	149	75177	0.4531	ng/uL	97
39	Benzo[b]fluoranthene	27.01	252	74391	0.4942	ng/uL	94
40	Benzo[k]fluoranthene	27.06	252	73215	0.5134	ng/uL	69
41	Benzo[a]pyrene	27.65	252	67527	0.5101	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.73	276	62734	0.5073	ng/uL	97
43	Dibenz[a,h]anthracene	29.79	278	59775	0.5047	ng/uL	73
44	Benzo[ghi]perylene	30.16	276	66550	0.5126	ng/uL	98



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 Dilution Factor : 1
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 Injection Volume : 1

Internal Standard

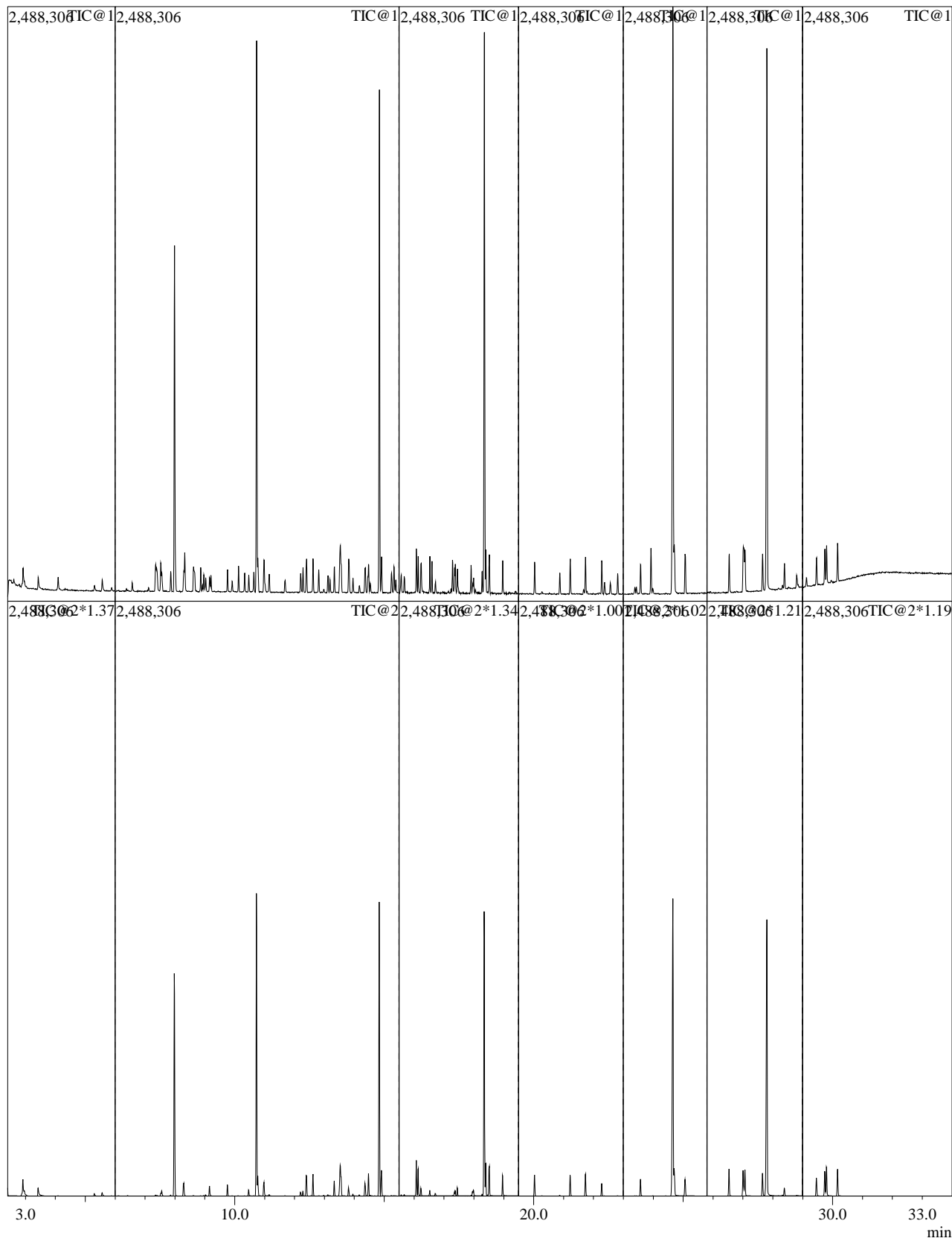
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1	1,4-Dichlorobenzene-D4	7.98	152	486943	20.0000	ng/uL	104.19
2	Naphthalene-D10	10.73	136	1846771	20.0000	ng/uL	101.72
3	Acenaphthene-D10	14.83	164	784183	20.0000	ng/uL	93.19
4	Phenanthrene-D10	18.34	188	1504953	20.0000	ng/uL	93.40
5	Chrysene-D12	24.66	240	1896651	20.0000	ng/uL	92.83
6	Perylene-D12	27.80	264	1699182	20.0000	ng/uL	80.80
12	1,4-Dioxane-d8 (IS)	2.92	64	66524	5.0000	ng/uL	102.17

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	26911	1.0549	ng/uL	42.20
8	Nitrobenzene-D5 (Surr)	9.16	82	32692	1.0343	ng/uL	41.37
9	2-Fluorobiphenyl (Surr)	13.32	172	70759	1.0676	ng/uL	42.70
10	2,4,6-Tribromophenol (Surr)	16.71	330	3589	0.5413	ng/uL	14.43
11	Terphenyl-D14 (Surr)	22.27	244	77722	1.0200	ng/uL	40.80
13	1,4-Dioxane-d8 (Surr)	2.92	64	66524	5.0052	ng/uL	100.10

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	14565	1.0560	ng/uL	83
15	1,4-Dioxane (IS7)	2.96	88	14565	1.0582	ng/uL	83
16	Pyridine	3.43	79	39059	0.9359	ng/uL	95
17	Naphthalene	10.77	128	117882	1.0673	ng/uL	98
18	2-Methylnaphthalene	12.40	142	75746	1.0601	ng/uL	97
19	1-Methylnaphthalene	12.61	142	73819	1.0482	ng/uL	98
20	Biphenyl	13.53	154	83145	1.0615	ng/uL	91
21	Dimethylphthalate	14.36	163	71949	1.0455	ng/uL	74
22	Acenaphthylene	14.48	152	108068	1.0884	ng/uL	84
23	Acenaphthene	14.90	153	68312	1.0743	ng/uL	96
24	Fluorene	16.14	166	72960	1.0542	ng/uL	96
25	Diethylphthalate	16.07	149	124712	0.6925	ng/uL	97
26	Hexachlorobenzene	17.45	284	17287	0.5765	ng/uL	95
27	Pentachloronitrobenzene	17.99	237	6676	1.0730	ng/uL	94
28	Pentachlorophenol	17.95	266	8516	0.9096	ng/uL	86
29	Phenanthrene	18.39	178	113339	1.0695	ng/uL	90
30	Anthracene	18.51	178	111588	1.0535	ng/uL	98
31	Di-n-butylphthalate	20.03	149	148605	1.0358	ng/uL	98
32	Fluoranthene	21.22	202	132611	1.0783	ng/uL	98
33	Pyrene	21.73	202	137746	1.0606	ng/uL	98
34	Butylbenzylphthalate	23.57	149	65773	1.0324	ng/uL	97
35	Benz[a]anthracene	24.63	228	135844	1.0345	ng/uL	96
36	Chrysene	24.70	228	131273	1.0519	ng/uL	95
37	Bis(2-ethylhexyl)phthalate	25.06	149	95152	1.0239	ng/uL	97
38	Di-n-octylphthalate	26.53	149	161518	1.0892	ng/uL	97
39	Benzo[b]fluoranthene	27.01	252	139600	1.0377	ng/uL	95
40	Benzo[k]fluoranthene	27.06	252	138847	1.0893	ng/uL	72
41	Benzo[a]pyrene	27.65	252	128843	1.0891	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	116240	1.0519	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	110781	1.0466	ng/uL	70
44	Benzo[ghi]perylene	30.17	276	123681	1.0659	ng/uL	98



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 Dilution Factor : 1
 Vial # : 8
 Injection Volume : 1

Internal Standard

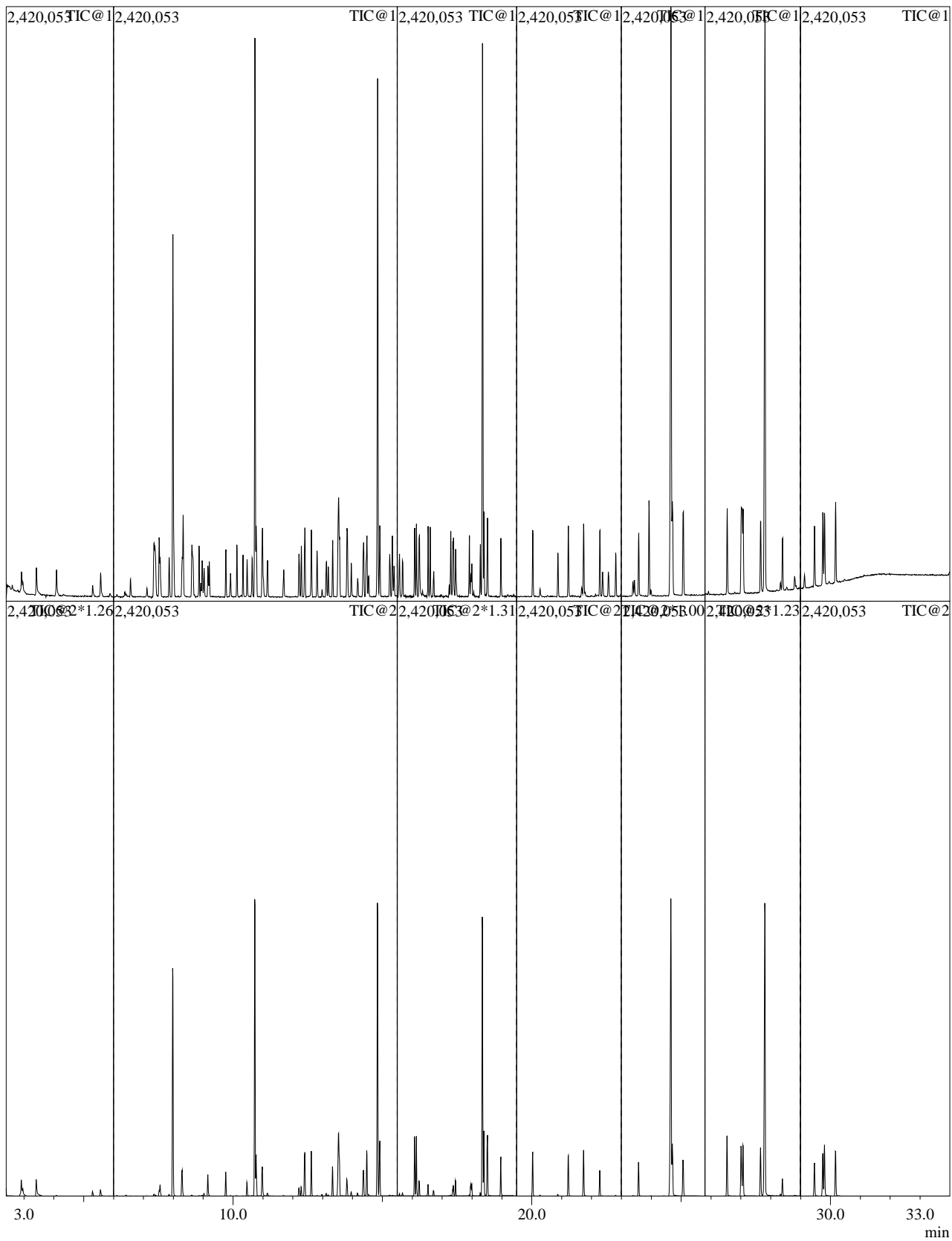
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1	1,4-Dichlorobenzene-D4	7.98	152	490117	20.0000	ng/uL	104.87
2	Naphthalene-D10	10.73	136	1833257	20.0000	ng/uL	100.97
3	Acenaphthene-D10	14.84	164	789458	20.0000	ng/uL	93.81
4	Phenanthrene-D10	18.35	188	1457934	20.0000	ng/uL	90.49
5	Chrysene-D12	24.66	240	1823367	20.0000	ng/uL	89.24
6	Perylene-D12	27.80	264	1746155	20.0000	ng/uL	83.03
12	1,4-Dioxane-d8 (IS)	2.91	64	68118	5.0000	ng/uL	104.62

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	51974	2.0242	ng/uL	80.97
8	Nitrobenzene-D5 (Surr)	9.16	82	68030	2.1681	ng/uL	86.72
9	2-Fluorobiphenyl (Surr)	13.33	172	139569	2.0917	ng/uL	83.67
10	2,4,6-Tribromophenol (Surr)	16.71	330	8167	2.2173	ng/uL	59.13
11	Terphenyl-D14 (Surr)	22.28	244	154108	2.1037	ng/uL	84.15
13	1,4-Dioxane-d8 (Surr)	2.91	64	68118	5.0920	ng/uL	101.84

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	29346	2.1138	ng/uL	90
15	1,4-Dioxane (IS7)	2.96	88	29346	2.0822	ng/uL	90
16	Pyridine	3.41	79	79942	1.9031	ng/uL	95
17	Naphthalene	10.77	128	230889	2.1059	ng/uL	98
18	2-Methylnaphthalene	12.40	142	150514	2.1220	ng/uL	98
19	1-Methylnaphthalene	12.62	142	148437	2.1232	ng/uL	98
20	Biphenyl	13.53	154	165880	2.1037	ng/uL	89
21	Dimethylphthalate	14.36	163	149250	2.1542	ng/uL	71
22	Acenaphthylene	14.48	152	220136	2.2022	ng/uL	85
23	Acenaphthene	14.91	153	134095	2.0948	ng/uL	98
24	Fluorene	16.14	166	146623	2.1045	ng/uL	96
25	Diethylphthalate	16.08	149	205015	1.8094	ng/uL	97
26	Hexachlorobenzene	17.45	284	33189	2.1224	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	14080	2.3360	ng/uL	95
28	Pentachlorophenol	17.95	266	20816	1.9115	ng/uL	90
29	Phenanthrene	18.40	178	217446	2.1181	ng/uL	91
30	Anthracene	18.51	178	218762	2.1318	ng/uL	98
31	Di-n-butylphthalate	20.03	149	296985	2.1367	ng/uL	98
32	Fluoranthene	21.22	202	255305	2.1429	ng/uL	98
33	Pyrene	21.73	202	263471	2.1101	ng/uL	98
34	Butylbenzylphthalate	23.58	149	134128	2.1900	ng/uL	97
35	Benz[a]anthracene	24.63	228	261243	2.0694	ng/uL	98
36	Chrysene	24.71	228	245666	2.0476	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	202308	2.2644	ng/uL	98
38	Di-n-octylphthalate	26.53	149	351570	2.3071	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	280207	2.0268	ng/uL	95
40	Benzo[k]fluoranthene	27.07	252	263733	2.0135	ng/uL	70
41	Benzo[a]pyrene	27.66	252	257490	2.1181	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	233983	2.0604	ng/uL	98
43	Dibenz[a,h]anthracene	29.80	278	228563	2.1013	ng/uL	68
44	Benzo[ghi]perylene	30.17	276	251274	2.1073	ng/uL	99



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 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 9
 Injection Volume : 1

Internal Standard

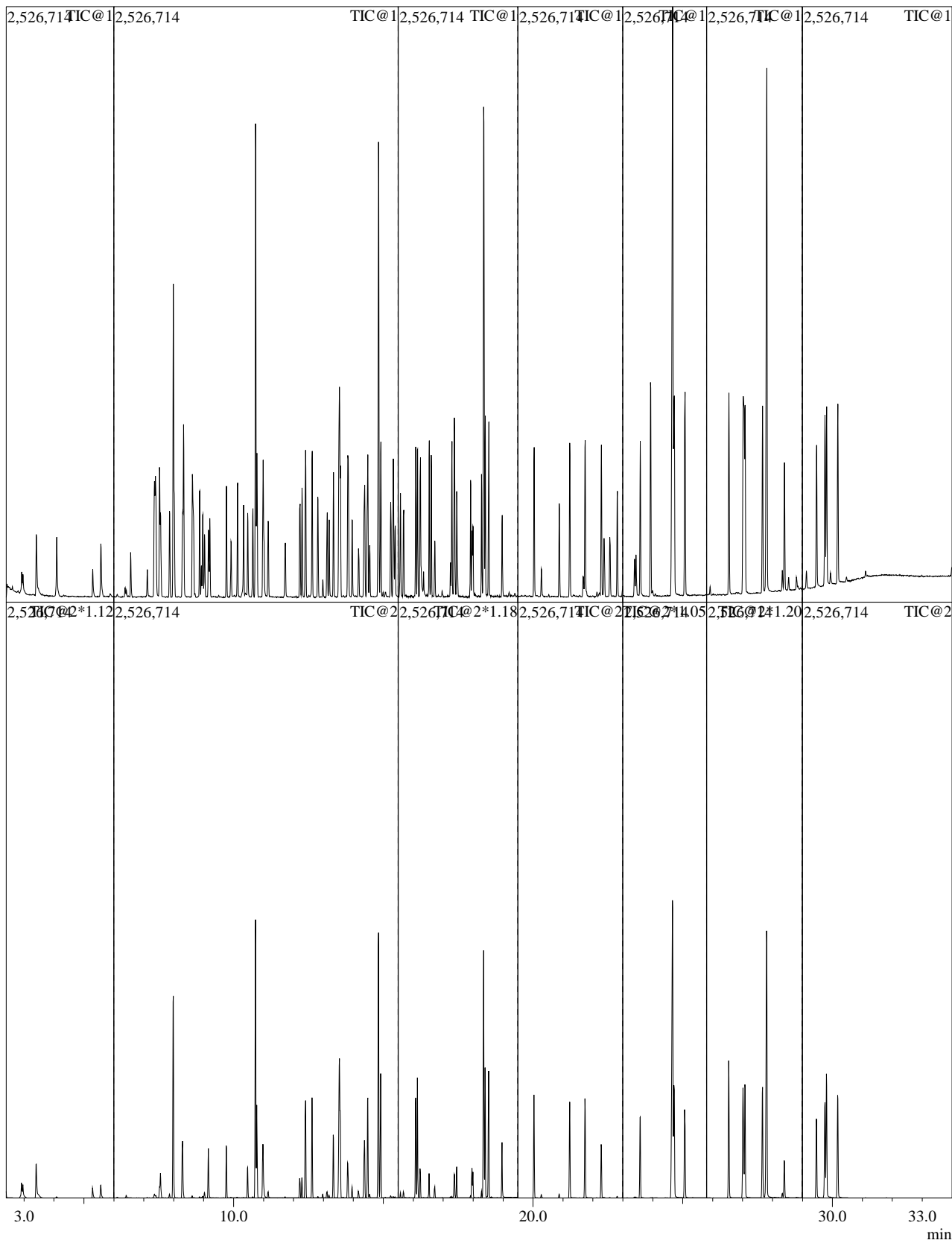
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1	1,4-Dichlorobenzene-D4	7.98	152	459036	20.0000	ng/uL	98.22
2	Naphthalene-D10	10.73	136	1771403	20.0000	ng/uL	97.56
3	Acenaphthene-D10	14.84	164	767478	20.0000	ng/uL	91.20
4	Phenanthrene-D10	18.35	188	1440985	20.0000	ng/uL	89.43
5	Chrysene-D12	24.66	240	1783987	20.0000	ng/uL	87.31
6	Perylene-D12	27.80	264	1709681	20.0000	ng/uL	81.30
12	1,4-Dioxane-d8 (IS)	2.92	64	63041	5.0000	ng/uL	96.82

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	119265	4.9593	ng/uL	198.37
8	Nitrobenzene-D5 (Surr)	9.16	82	163522	5.3933	ng/uL	215.73
9	2-Fluorobiphenyl (Surr)	13.33	172	324139	4.9970	ng/uL	199.88
10	2,4,6-Tribromophenol (Surr)	16.71	330	17693	5.6957	ng/uL	151.88
11	Terphenyl-D14 (Surr)	22.28	244	357837	4.9926	ng/uL	199.70
13	1,4-Dioxane-d8 (Surr)	2.92	64	63041	5.0315	ng/uL	100.63

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67310	5.1767	ng/uL	94
15	1,4-Dioxane (IS7)	2.96	88	67310	5.1605	ng/uL	94
16	Pyridine	3.41	79	196956	5.0063	ng/uL	96
17	Naphthalene	10.78	128	537686	5.0754	ng/uL	98
18	2-Methylnaphthalene	12.40	142	346501	5.0558	ng/uL	99
19	1-Methylnaphthalene	12.62	142	343972	5.0919	ng/uL	99
20	Biphenyl	13.54	154	380140	4.9590	ng/uL	88
21	Dimethylphthalate	14.37	163	348305	5.1712	ng/uL	71
22	Acenaphthylene	14.48	152	503838	5.1846	ng/uL	83
23	Acenaphthene	14.91	153	314600	5.0554	ng/uL	98
24	Fluorene	16.14	166	344376	5.0843	ng/uL	97
25	Diethylphthalate	16.08	149	428538	5.1236	ng/uL	97
26	Hexachlorobenzene	17.45	284	72705	5.9183	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	33472	5.6187	ng/uL	96
28	Pentachlorophenol	17.96	266	57375	4.8801	ng/uL	94
29	Phenanthrene	18.40	178	512653	5.0523	ng/uL	91
30	Anthracene	18.52	178	529174	5.2175	ng/uL	98
31	Di-n-butylphthalate	20.03	149	711119	5.1765	ng/uL	98
32	Fluoranthene	21.22	202	591538	5.0234	ng/uL	98
33	Pyrene	21.73	202	616887	5.0496	ng/uL	98
34	Butylbenzylphthalate	23.58	149	334619	5.5841	ng/uL	98
35	Benz[a]anthracene	24.63	228	619501	5.0156	ng/uL	99
36	Chrysene	24.71	228	582679	4.9637	ng/uL	99
37	Bis(2-ethylhexyl)phthalate	25.07	149	497595	5.6925	ng/uL	98
38	Di-n-octylphthalate	26.54	149	889727	5.9631	ng/uL	98
39	Benzo[b]fluoranthene	27.02	252	682138	5.0392	ng/uL	95
40	Benzo[k]fluoranthene	27.08	252	615113	4.7962	ng/uL	71
41	Benzo[a]pyrene	27.66	252	617094	5.1844	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.75	276	586708	5.2766	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	557663	5.2363	ng/uL	69
44	Benzo[ghi]perylene	30.18	276	601445	5.1517	ng/uL	98



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 Injection Volume : 1

Internal Standard

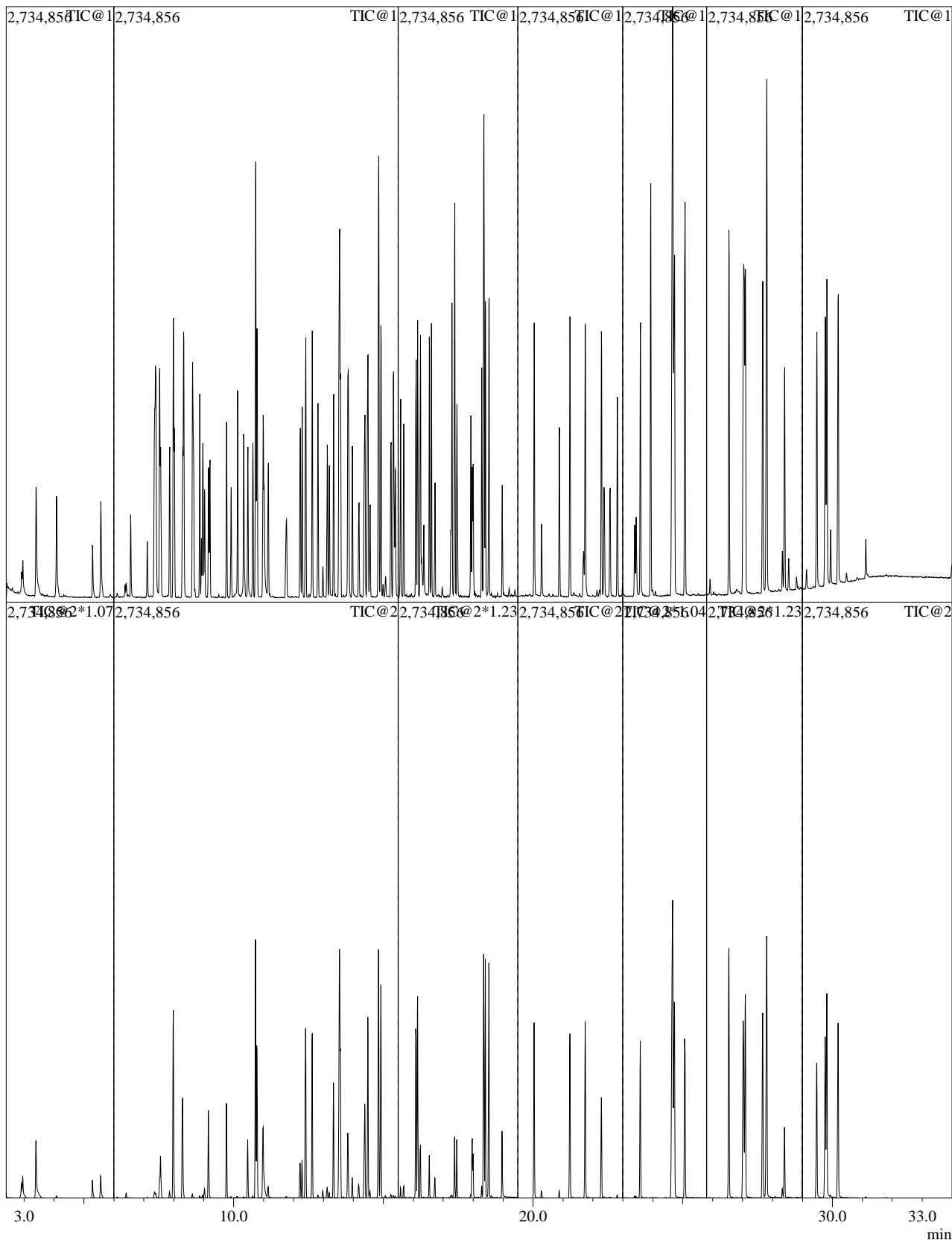
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1	1,4-Dichlorobenzene-D4	7.98	152	453841	20.0000	ng/uL	97.11
2	Naphthalene-D10	10.73	136	1745745	20.0000	ng/uL	96.15
3	Acenaphthene-D10	14.84	164	772440	20.0000	ng/uL	91.79
4	Phenanthrene-D10	18.35	188	1490678	20.0000	ng/uL	92.52
5	Chrysene-D12	24.66	240	1802152	20.0000	ng/uL	88.20
6	Perylene-D12	27.80	264	1776218	20.0000	ng/uL	84.46
12	1,4-Dioxane-d8 (IS)	2.91	64	64177	5.0000	ng/uL	98.57

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	226677	9.5337	ng/uL	381.35
8	Nitrobenzene-D5 (Surr)	9.16	82	321821	10.7704	ng/uL	430.82
9	2-Fluorobiphenyl (Surr)	13.33	172	627464	9.6110	ng/uL	384.44
10	2,4,6-Tribromophenol (Surr)	16.72	330	33168	10.8908	ng/uL	290.42
11	Terphenyl-D14 (Surr)	22.28	244	700721	9.6780	ng/uL	387.12
13	1,4-Dioxane-d8 (Surr)	2.91	64	64177	5.1808	ng/uL	103.62

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	133980	10.4222	ng/uL	94
15	1,4-Dioxane (IS7)	2.95	88	133980	10.0900	ng/uL	94
16	Pyridine	3.40	79	384160	9.8765	ng/uL	96
17	Naphthalene	10.78	128	1023119	9.7995	ng/uL	98
18	2-Methylnaphthalene	12.40	142	658500	9.7494	ng/uL	99
19	1-Methylnaphthalene	12.62	142	651625	9.7879	ng/uL	99
20	Biphenyl	13.54	154	721617	9.3531	ng/uL	91
21	Dimethylphthalate	14.38	163	677441	9.9932	ng/uL	61
22	Acenaphthylene	14.48	152	970530	9.9228	ng/uL	85
23	Acenaphthene	14.91	153	598289	9.5523	ng/uL	99
24	Fluorene	16.14	166	673893	9.8854	ng/uL	97
25	Diethylphthalate	16.09	149	790564	10.2844	ng/uL	98
26	Hexachlorobenzene	17.45	284	142521	12.1078	ng/uL	96
27	Pentachloronitrobenzene	18.00	237	67253	10.9129	ng/uL	96
28	Pentachlorophenol	17.96	266	122808	9.8280	ng/uL	96
29	Phenanthrene	18.41	178	985233	9.3860	ng/uL	92
30	Anthracene	18.52	178	1014006	9.6644	ng/uL	99
31	Di-n-butylphthalate	20.04	149	1419498	9.9885	ng/uL	98
32	Fluoranthene	21.23	202	1150643	9.4456	ng/uL	98
33	Pyrene	21.74	202	1194138	9.6762	ng/uL	98
34	Butylbenzylphthalate	23.58	149	675719	11.1627	ng/uL	98
35	Benz[a]anthracene	24.64	228	1203316	9.6441	ng/uL	98
36	Chrysene	24.72	228	1097722	9.2570	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	988956	11.1997	ng/uL	98
38	Di-n-octylphthalate	26.54	149	1791286	11.5558	ng/uL	98
39	Benzo[b]fluoranthene	27.02	252	1313610	9.3406	ng/uL	96
40	Benzo[k]fluoranthene	27.09	252	1190544	8.9353	ng/uL	71
41	Benzo[a]pyrene	27.67	252	1208267	9.7708	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.76	276	1124410	9.7337	ng/uL	97
43	Dibenz[a,h]anthracene	29.81	278	1120333	10.1255	ng/uL	66
44	Benzo[ghi]perylene	30.19	276	1195865	9.8595	ng/uL	98



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Internal Standard

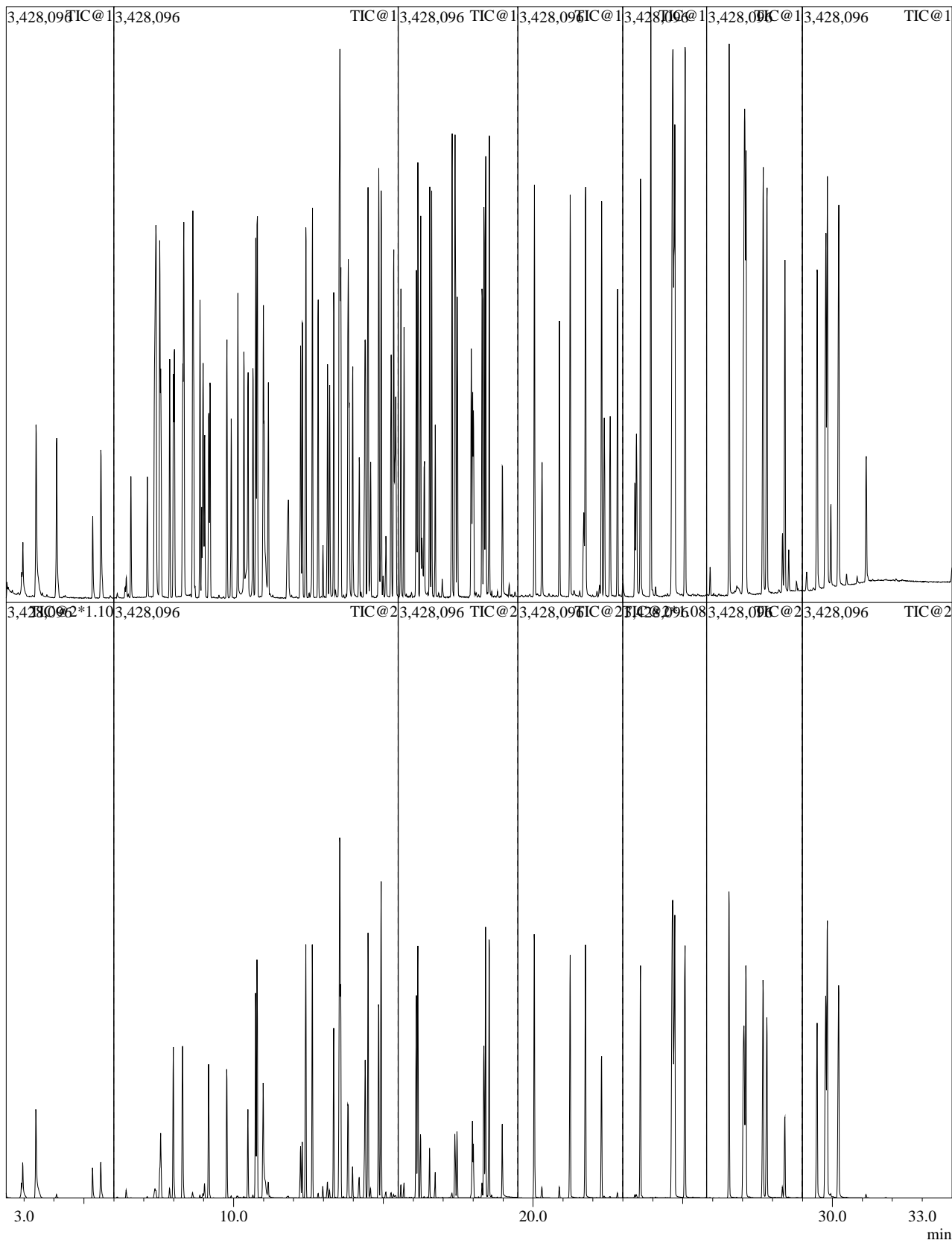
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1	1,4-Dichlorobenzene-D4	7.98	152	458148	20.0000	ng/uL	98.03
2	Naphthalene-D10	10.74	136	1801150	20.0000	ng/uL	99.20
3	Acenaphthene-D10	14.84	164	790956	20.0000	ng/uL	93.99
4	Phenanthrene-D10	18.36	188	1539622	20.0000	ng/uL	95.56
5	Chrysene-D12	24.67	240	1829818	20.0000	ng/uL	89.55
6	Perylene-D12	27.81	264	1836407	20.0000	ng/uL	87.33
12	1,4-Dioxane-d8 (IS)	2.92	64	64066	5.0000	ng/uL	98.40

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	441943	18.4127	ng/uL	736.51
8	Nitrobenzene-D5 (Surr)	9.17	82	652796	21.1751	ng/uL	847.01
9	2-Fluorobiphenyl (Surr)	13.34	172	1217301	18.2091	ng/uL	728.36
10	2,4,6-Tribromophenol (Surr)	16.73	330	62178	20.3388	ng/uL	542.37
11	Terphenyl-D14 (Surr)	22.29	244	1378048	18.7450	ng/uL	749.80
13	1,4-Dioxane-d8 (Surr)	2.92	64	64066	5.1232	ng/uL	102.46

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	275458	21.2262	ng/uL	93
15	1,4-Dioxane (IS7)	2.95	88	275458	20.7807	ng/uL	93
16	Pyridine	3.40	79	789048	20.0952	ng/uL	96
17	Naphthalene	10.78	128	1954524	18.1446	ng/uL	97
18	2-Methylnaphthalene	12.41	142	1263654	18.1334	ng/uL	99
19	1-Methylnaphthalene	12.63	142	1270140	18.4916	ng/uL	99
20	Biphenyl	13.55	154	1325237	16.7747	ng/uL	91
21	Dimethylphthalate	14.39	163	1358596	19.5720	ng/uL	61
22	Acenaphthylene	14.49	152	1870546	18.6770	ng/uL	85
23	Acenaphthene	14.92	153	1175951	18.3358	ng/uL	98
24	Fluorene	16.15	166	1308582	18.7463	ng/uL	96
25	Diethylphthalate	16.10	149	1575238	21.0265	ng/uL	98
26	Hexachlorobenzene	17.46	284	259718	22.1258	ng/uL	95
27	Pentachloronitrobenzene	18.01	237	133620	20.9928	ng/uL	97
28	Pentachlorophenol	17.97	266	263248	20.1265	ng/uL	97
29	Phenanthrene	18.41	178	1901439	17.5385	ng/uL	92
30	Anthracene	18.53	178	1975354	18.2285	ng/uL	99
31	Di-n-butylphthalate	20.04	149	2764792	18.8365	ng/uL	98
32	Fluoranthene	21.24	202	2245949	17.8508	ng/uL	98
33	Pyrene	21.75	202	2335909	18.6419	ng/uL	98
34	Butylbenzylphthalate	23.59	149	1324259	21.5456	ng/uL	98
35	Benz[a]anthracene	24.65	228	2400379	18.9473	ng/uL	98
36	Chrysene	24.73	228	2098768	17.4311	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.07	149	1937811	21.6135	ng/uL	98
38	Di-n-octylphthalate	26.54	149	3549395	22.1472	ng/uL	98
39	Benzo[b]fluoranthene	27.04	252	2668816	18.3550	ng/uL	96
40	Benzo[k]fluoranthene	27.11	252	2312865	16.7897	ng/uL	71
41	Benzo[a]pyrene	27.68	252	2416935	18.9042	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.77	276	2260560	18.9276	ng/uL	96
43	Dibenz[a,h]anthracene	29.83	278	2107624	18.4243	ng/uL	69
44	Benzo[ghi]perylene	30.21	276	2136917	17.0407	ng/uL	98



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Internal Standard

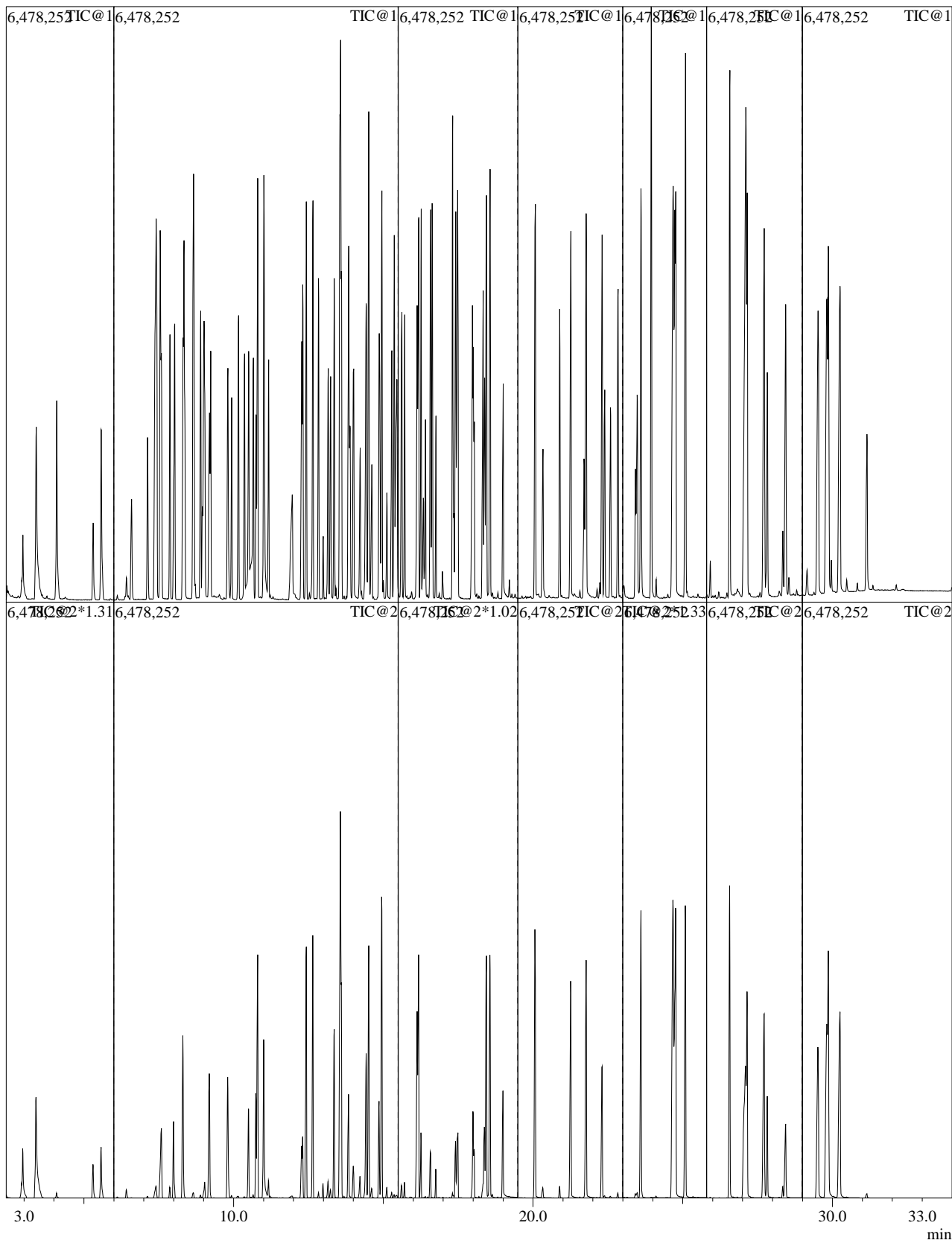
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1	1,4-Dichlorobenzene-D4	7.99	152	466037	20.0000	ng/uL	99.72
2	Naphthalene-D10	10.74	136	1861302	20.0000	ng/uL	102.52
3	Acenaphthene-D10	14.85	164	784881	20.0000	ng/uL	93.27
4	Phenanthrene-D10	18.37	188	1553373	20.0000	ng/uL	96.41
5	Chrysene-D12	24.69	240	1659646	20.0000	ng/uL	81.23
6	Perylene-D12	27.82	264	1858308	20.0000	ng/uL	88.37
12	1,4-Dioxane-d8 (IS)	2.92	64	63746	5.0000	ng/uL	97.91

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.30	152	1003098	41.0848	ng/uL	1643.39
8	Nitrobenzene-D5 (Surr)	9.18	82	1563311	49.0712	ng/uL	1962.85
9	2-Fluorobiphenyl (Surr)	13.35	172	2743347	41.3542	ng/uL	1654.17
10	2,4,6-Tribromophenol (Surr)	16.75	330	150057	49.6261	ng/uL	1323.36
11	Terphenyl-D14 (Surr)	22.30	244	2956364	44.3376	ng/uL	1773.50
13	1,4-Dioxane-d8 (Surr)	2.92	64	63746	5.0114	ng/uL	100.23

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	658226	49.8628	ng/uL	93
15	1,4-Dioxane (IS7)	2.96	88	658226	49.9062	ng/uL	93
16	Pyridine	3.40	79	1930223	48.3261	ng/uL	95
17	Naphthalene	10.80	128	4309994	38.7183	ng/uL	97
18	2-Methylnaphthalene	12.42	142	2853217	39.6205	ng/uL	99
19	1-Methylnaphthalene	12.64	142	2794118	39.3641	ng/uL	98
20	Biphenyl	13.57	154	2673170	34.0986	ng/uL	89
21	Dimethylphthalate	14.42	163	2970197	43.1200	ng/uL	59
22	Acenaphthylene	14.51	152	3954170	39.7872	ng/uL	80
23	Acenaphthene	14.94	153	2534451	39.8238	ng/uL	98
24	Fluorene	16.17	166	2791876	40.3051	ng/uL	97
25	Diethylphthalate	16.12	149	3579929	49.5387	ng/uL	98
26	Hexachlorobenzene	17.48	284	562646	48.6534	ng/uL	86
27	Pentachloronitrobenzene	18.03	237	306513	47.7295	ng/uL	96
28	Pentachlorophenol	17.99	266	601591	45.2685	ng/uL	95
29	Phenanthrene	18.43	178	4081280	37.3117	ng/uL	92
30	Anthracene	18.56	178	4204780	38.4580	ng/uL	99
31	Di-n-butylphthalate	20.06	149	5956791	40.2242	ng/uL	98
32	Fluoranthene	21.26	202	4823834	38.0004	ng/uL	98
33	Pyrene	21.77	202	4988392	43.8921	ng/uL	98
34	Butylbenzylphthalate	23.60	149	2924130	52.4536	ng/uL	98
35	Benz[a]anthracene	24.67	228	5183372	45.1099	ng/uL	98
36	Chrysene	24.76	228	4404942	40.3360	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.08	149	4163320	51.1972	ng/uL	98
38	Di-n-octylphthalate	26.56	149	7407193	45.6740	ng/uL	98
39	Benzo[b]fluoranthene	27.10	252	5854724	39.7919	ng/uL	95
40	Benzo[k]fluoranthene	27.15	252	4230186	30.3461	ng/uL	72
41	Benzo[a]pyrene	27.72	252	5122742	39.5957	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.81	276	4873764	40.3268	ng/uL	95
43	Dibenz[a,h]anthracene	29.86	278	4281385	36.9857	ng/uL	69
44	Benzo[ghi]perylene	30.24	276	4587140	36.1487	ng/uL	97



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 Injection Volume : 1

Internal Standard

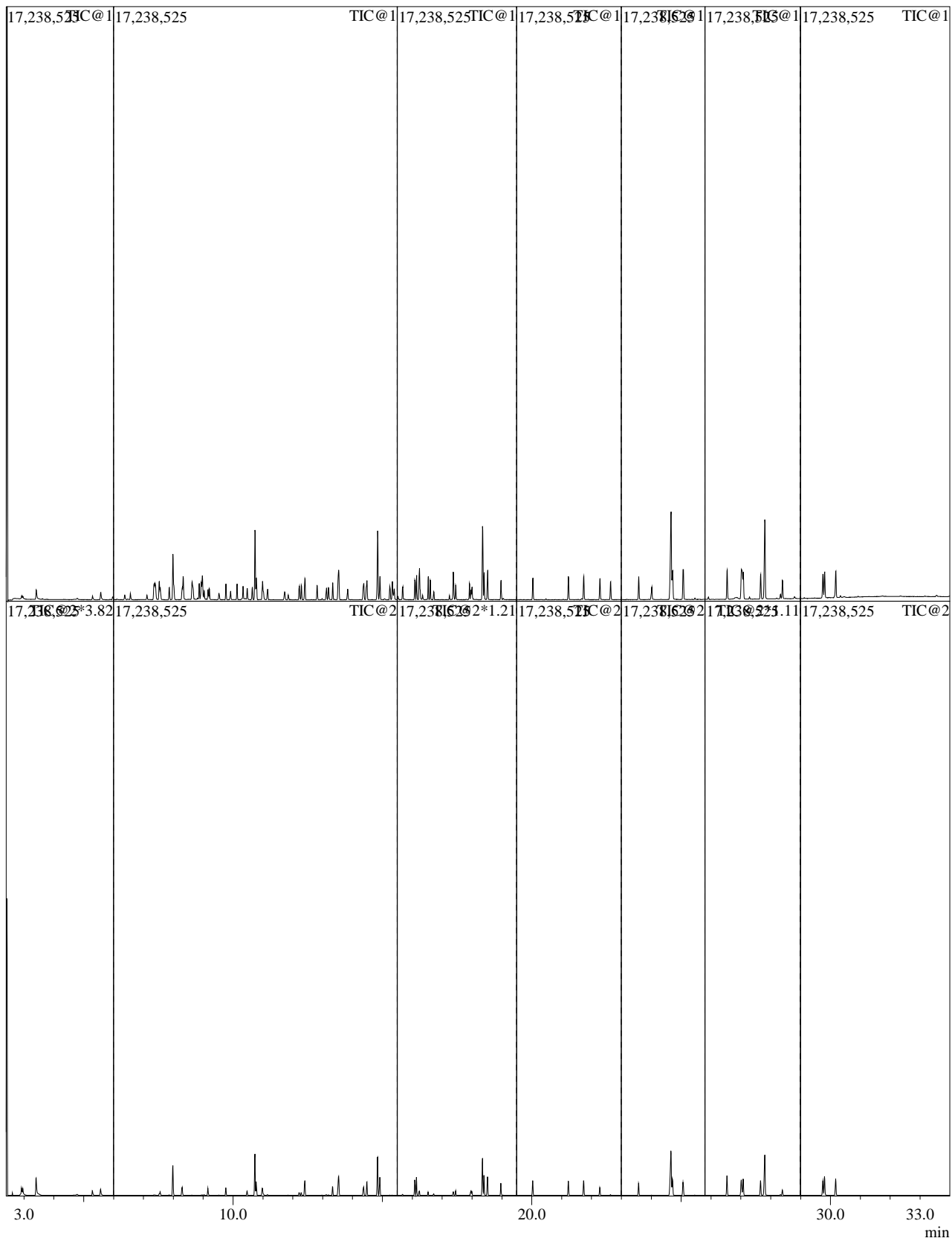
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1	1,4-Dichlorobenzene-D4	7.98	152	455605	20.0000	ng/uL	97.49
2	Naphthalene-D10	10.73	136	1786619	20.0000	ng/uL	98.40
3	Acenaphthene-D10	14.84	164	764172	20.0000	ng/uL	90.81
4	Phenanthrene-D10	18.35	188	1471000	20.0000	ng/uL	91.30
5	Chrysene-D12	24.66	240	1897796	20.0000	ng/uL	92.88
6	Perylene-D12	27.80	264	1886848	20.0000	ng/uL	89.72
12	1,4-Dioxane-d8 (IS)	2.92	64	63850	5.0000	ng/uL	98.06

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	112374	4.7080	ng/uL	188.32
8	Nitrobenzene-D5 (Surr)	9.16	82	159382	5.2120	ng/uL	208.48
9	2-Fluorobiphenyl (Surr)	13.33	172	302639	4.6857	ng/uL	187.43
10	2,4,6-Tribromophenol (Surr)	16.71	330	13833	4.1981	ng/uL	111.95
11	Terphenyl-D14 (Surr)	22.28	244	363496	4.7674	ng/uL	190.70
13	1,4-Dioxane-d8 (Surr)	2.92	64	63850	5.1345	ng/uL	102.69

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67277	5.2131	ng/uL	95
15	1,4-Dioxane (IS7)	2.96	88	67286	5.0933	ng/uL	94
16	Pyridine	3.41	79	191673	4.9087	ng/uL	95
17	Naphthalene	10.78	128	539310	5.0473	ng/uL	98
18	2-Methylnaphthalene	12.40	142	355784	5.1470	ng/uL	99
19	1-Methylnaphthalene	12.62	142	3899	0.0572	ng/uL	91
20	Biphenyl	13.54	154	373649	4.8954	ng/uL	87
21	Dimethylphthalate	14.37	163	335650	5.0049	ng/uL	60
22	Acenaphthylene	14.48	152	465525	4.8111	ng/uL	83
23	Acenaphthene	14.91	153	313542	5.0602	ng/uL	99
24	Fluorene	16.14	166	345359	5.1209	ng/uL	97
25	Diethylphthalate	16.08	149	427539	5.1359	ng/uL	98
26	Hexachlorobenzene	17.45	284	65979	5.1504	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	32626	5.3649	ng/uL	95
28	Pentachlorophenol	17.96	266	57811	4.8201	ng/uL	93
29	Phenanthrene	18.40	178	520181	5.0219	ng/uL	92
30	Anthracene	18.52	178	525731	5.0777	ng/uL	97
31	Di-n-butylphthalate	20.03	149	711340	5.0724	ng/uL	98
32	Fluoranthene	21.22	202	601540	5.0041	ng/uL	98
33	Pyrene	21.73	202	631342	4.8580	ng/uL	98
34	Butylbenzylphthalate	23.58	149	341512	5.3574	ng/uL	98
35	Benz[a]anthracene	24.63	228	640443	4.8742	ng/uL	98
36	Chrysene	24.71	228	594443	4.7602	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	524196	5.6372	ng/uL	98
38	Di-n-octylphthalate	26.53	149	921214	5.5944	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	668865	4.4772	ng/uL	96
40	Benzo[k]fluoranthene	27.08	252	672247	4.7496	ng/uL	71
41	Benzo[a]pyrene	27.66	252	602134	4.5837	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	607519	4.9507	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	624243	5.3111	ng/uL	67
44	Benzo[ghi]perylene	30.18	276	629562	4.8862	ng/uL	98



SVOA

ESS LABORATORY MS4 RUN LOG

DATE 06/25/13
 ANALYST IBM
 METHOD SIMA4AW
 Internal Std: 3F14001
 Tune Method: DFTPP
 METHOD (2) _____
 Internal Std: _____
 Tune Method: _____

Work orders reported: _____

 MATRIX SEQ ID CAL ID
 SOIL _____
 AQ CWF0260 1306022

 MATRIX SEQ ID CAL ID
 SOIL _____
 AQ _____

VIAL #	SAMPLE ID	STD ID/COMMENTS	METHOD	FILE ID	MANUAL INT **	BATCH ID	MATRIX	RW	RPT	IMP	BY
50	PRIMER		3\SIMA4AW.qgm	3\SV415784.qgd							
50	PRIMER		3\SIMA4AW.qgm	3\SV415785.qgd							
1	CWF0260-TUN1	3E23067	\DFTPP 250.qgm	3\SV415786.qgd							
1	CWF0260-TUN1	3E23067	\DFTPP 250.qgm	3\SV415787.qgd							IBM X
2	CWF0260-CCV1	3F24047	3\SIMA4AW.qgm	3\SV415788.qgd							
3	CWF0260-CAL1	3F24049	3\SIMA4AW.qgm	3\SV415789.qgd	29CO,35CO,40WP						IBM X
4	CWF0260-CAL2	3F24053	3\SIMA4AW.qgm	3\SV415790.qgd	29CO,35CO,40WP						IBM X
5	CWF0260-CAL3	3F24054	3\SIMA4AW.qgm	3\SV415791.qgd	29CO,35CO,40WP						IBM X
6	CWF0260-CAL4	3F24055	3\SIMA4AW.qgm	3\SV415792.qgd	40 WP						IBM X
7	CWF0260-CAL5	3F24056	3\SIMA4AW.qgm	3\SV415793.qgd	40 WP						IBM X
8	CWF0260-CAL6	3F24057	3\SIMA4AW.qgm	3\SV415794.qgd	40 WP						IBM X
9	CWF0260-CAL7	3F24058	3\SIMA4AW.qgm	3\SV415795.qgd	40 WP						IBM X
10	CWF0260-CAL8	3F24059	3\SIMA4AW.qgm	3\SV415796.qgd	40 WP						IBM X
11	CWF0260-CAL9	3F24060	3\SIMA4AW.qgm	3\SV415797.qgd	40 WP						IBM X
12	CWF0260-CALA	3F24061	3\SIMA4AW.qgm	3\SV415798.qgd	40 WP						IBM X
13	CWF0260-SCV1	3F24062	3\SIMA4AW.qgm	3\SV415799.qgd	40 WP						IBM X

QUADS: **NO**
 SCV: **OK**
 CCAL: _____

Comments: ****ENTER COMP. ID#, EXPLANATION**
NOTE HCB REQUANT OK @ 2PPM - CHANGE IMRL TO 0.5 PPB WHERE APPLICABLE

Review (includes a check and review of manual integrations)

<Quality Assurance / Quality Control>

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Column Performance

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062613\SV415826.qgd	CWF0275-TUN1		6/26/2013 1:17:05 PM	Normal

- [Result]

<i>ID</i>	<i>Compound Name</i>	<i>Tailing F.</i>	<i>Tailing F. L. Limit</i>	<i>Tailing F. U. Limit</i>	<i>Tailing F. Status</i>
1	DFTPP	0.992260	-	-	-
2	4,4'-DDE	0.849603	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	0.948381	-	-	-
5	Pentachlorophenol	1.043031	-	2.000000	Pass
6	Benzidine	1.166241	-	2.000000	Pass

Spectrum Check

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062613\SV415826.qgd	CWF0275-TUN1		6/26/2013 1:17:05 PM	Normal

- DFTPP

<i>m/z</i>	<i>Spectrum Check Criteria</i>	<i>Result</i>	<i>Status</i>
51	30- 60% of the base peak	57.165945	Pass
68	< 2% of mass 69	1.738019	Pass
70	< 2% of mass 69	0.479990	Pass
127	40 - 60% of mass 198	54.675183	Pass
197	< 1% of mass 198	0.416600	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.869636	Pass
275	10 - 30% of the base peak	22.589101	Pass
365	> 1% of the base peak	1.460883	Pass

441	Present and < mass 443	80.013191	Pass
442	base peak or > 40% of mass 198	53.364987	Pass
443	17 - 23% of mass 442	19.473565	Pass

Degradation Check

- Count 1

<i>Data</i>	<i>Data File Path</i>		<i>Sample Name</i>		<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
<i>Data1:</i>	Q:\SVOA\MS4\0613\062613\SV415826.qgd		CWF0275-TUN1			6/26/2013 1:17:05 PM	Normal
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
1	4	4,4'-DDT	15202625	TIC	6.239504	20.000000	Pass
1	2	4,4'-DDE	148069	TIC			
1	3	4,4'-DDD	863624	TIC			

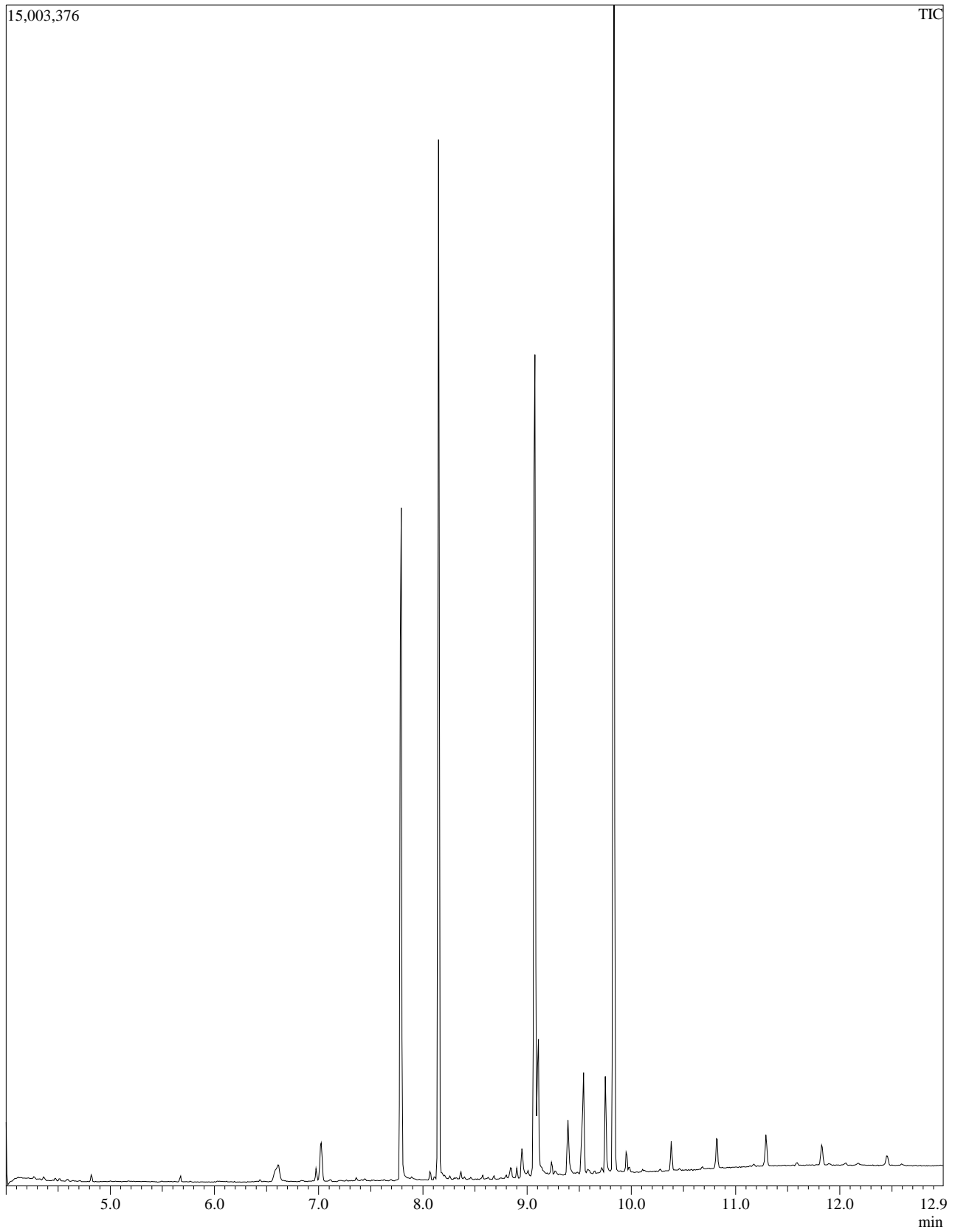
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 Method File : Q:\SVOA\MS4\0613\062613\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/26/2013 1:17:05 PM
 Sample Type : Control
 Level # : 1
 Sample Name : CWF0275-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.15	TIC	12741814	1.0000	ng/uL	96
2	4,4'-DDE	9.23	TIC	148069	0.0000	ng/uL	31
3	4,4'-DDD	9.54	TIC	863624	0.0000	ng/uL	83
4	4,4'-DDT	9.83	TIC	15202625	1.0000	ng/uL	92
5	Pentachlorophenol	7.79	266	1095284	1.0000	ng/uL	95
6	Benzidine	9.07	184	4569464	1.0000	ng/uL	97



Data File : Q:\SVOA\MS4\0613\062613\SV415827.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/26/2013 1:44:32 PM
 Sample Type : Continuing Calibration
 Level # : 1
 Sample Name : CWF0275-CCV1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 2
 Injection Volume : 1

Internal Standard

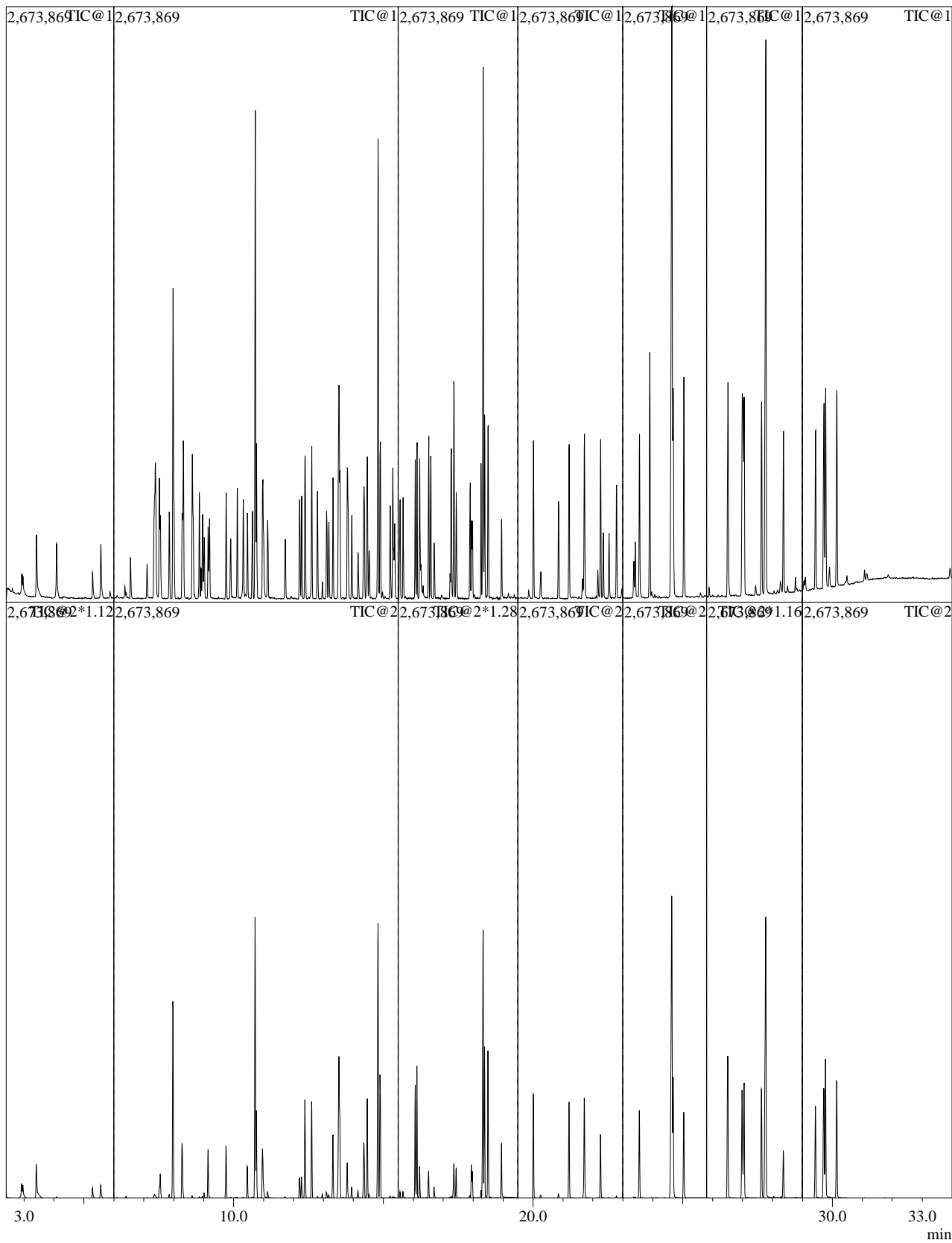
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	472513	20.0000	ng/uL	100.00
2	Naphthalene-D10	10.72	136	1836680	20.0000	ng/uL	100.00
3	Acenaphthene-D10	14.82	164	835030	20.0000	ng/uL	100.00
4	Phenanthrene-D10	18.33	188	1582059	20.0000	ng/uL	100.00
5	Chrysene-D12	24.63	240	2031218	20.0000	ng/uL	100.00
6	Perylene-D12	27.77	264	1986396	20.0000	ng/uL	100.00
12	1,4-Dioxane-d8 (IS)	2.92	64	65733	5.0000	ng/uL	100.00

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	125013	5.0501	ng/uL	202.00
8	Nitrobenzene-D5 (Surr)	9.15	82	171322	5.4498	ng/uL	217.99
9	2-Fluorobiphenyl (Surr)	13.31	172	345445	4.8946	ng/uL	195.79
10	2,4,6-Tribromophenol (Surr)	16.70	330	14270	3.9980	ng/uL	106.61
11	Terphenyl-D14 (Surr)	22.25	244	432111	5.2950	ng/uL	211.80
13	1,4-Dioxane-d8 (Surr)	2.92	64	65733	5.0967	ng/uL	101.93

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	70928	5.2994	ng/uL	94
15	1,4-Dioxane (IS7)	2.96	88	70928	5.2151	ng/uL	94
16	Pyridine	3.41	79	207886	5.1334	ng/uL	96
17	Naphthalene	10.76	128	566186	5.1544	ng/uL	97
18	2-Methylnaphthalene	12.38	142	366543	5.1581	ng/uL	99
19	1-Methylnaphthalene	12.60	142	365823	5.2229	ng/uL	99
20	Biphenyl	13.52	154	403603	4.8391	ng/uL	86
21	Dimethylphthalate	14.35	163	371923	5.0751	ng/uL	62
22	Acenaphthylene	14.46	152	535354	5.0633	ng/uL	83
23	Acenaphthene	14.89	153	327589	4.8383	ng/uL	99
24	Fluorene	16.12	166	373635	5.0701	ng/uL	97
25	Diethylphthalate	16.06	149	452216	4.9370	ng/uL	97
26	Hexachlorobenzene	17.43	284	68956	4.9767	ng/uL	96
27	Pentachloronitrobenzene	17.97	237	33526	5.1259	ng/uL	96
28	Pentachlorophenol	17.94	266	61148	4.7446	ng/uL	93
29	Phenanthrene	18.38	178	559769	5.0247	ng/uL	90
30	Anthracene	18.50	178	571430	5.1317	ng/uL	98
31	Di-n-butylphthalate	20.01	149	804026	5.3309	ng/uL	98
32	Fluoranthene	21.20	202	631378	4.8836	ng/uL	98
33	Pyrene	21.71	202	669325	4.8120	ng/uL	98
34	Butylbenzylphthalate	23.55	149	382364	5.6042	ng/uL	97
35	Benz[a]anthracene	24.60	228	696251	4.9509	ng/uL	98
36	Chrysene	24.68	228	645561	4.8300	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.04	149	566772	5.6947	ng/uL	98
38	Di-n-octylphthalate	26.50	149	1041112	6.0057	ng/uL	98
39	Benzo[b]fluoranthene	26.98	252	740098	4.7058	ng/uL	95
40	Benzo[k]fluoranthene	27.05	252	682081	4.5775	ng/uL	71
41	Benzo[a]pyrene	27.63	252	703178	5.0847	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.71	276	710210	5.4975	ng/uL	97
43	Dibenz[a,h]anthracene	29.77	278	687969	5.5599	ng/uL	94
44	Benzo[ghi]perylene	30.14	276	725991	5.3522	ng/uL	98



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Column Performance

- Count 1

Data	Data File Path	Sample Name	Sample ID	Analysis Date	Data File Status
Data1:	Q:\SVOA\MS4\0613\062613\SV415843.qgd	CWF0290-TUN1		6/27/2013 2:19:05 AM	Normal

- [Result]

ID	Compound Name	Tailing F.	Tailing F. L. Limit	Tailing F. U. Limit	Tailing F. Status
1	DFTPP	0.969835	-	-	-
2	4,4'-DDE	0.912807	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	1.020098	-	-	-
5	Pentachlorophenol	1.076777	-	2.000000	Pass
6	Benzidine	1.148988	-	2.000000	Pass

Spectrum Check

- Count 1

Data	Data File Path	Sample Name	Sample ID	Analysis Date	Data File Status
Data1:	Q:\SVOA\MS4\0613\062613\SV415843.qgd	CWF0290-TUN1		6/27/2013 2:19:05 AM	Normal

- DFTPP

m/z	Spectrum Check Criteria	Result	Status
51	30- 60% of the base peak	57.169336	Pass
68	< 2% of mass 69	1.630968	Pass
70	< 2% of mass 69	0.450943	Pass
127	40 - 60% of mass 198	55.383738	Pass
197	< 1% of mass 198	0.771331	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.562661	Pass
275	10 - 30% of the base peak	23.425870	Pass
365	> 1% of the base peak	1.338085	Pass
441	Present and < mass 443	79.047262	Pass

442	base peak or > 40% of mass 198	52.226717	Pass
443	17 - 23% of mass 442	19.357887	Pass

Degradation Check

- Count 1

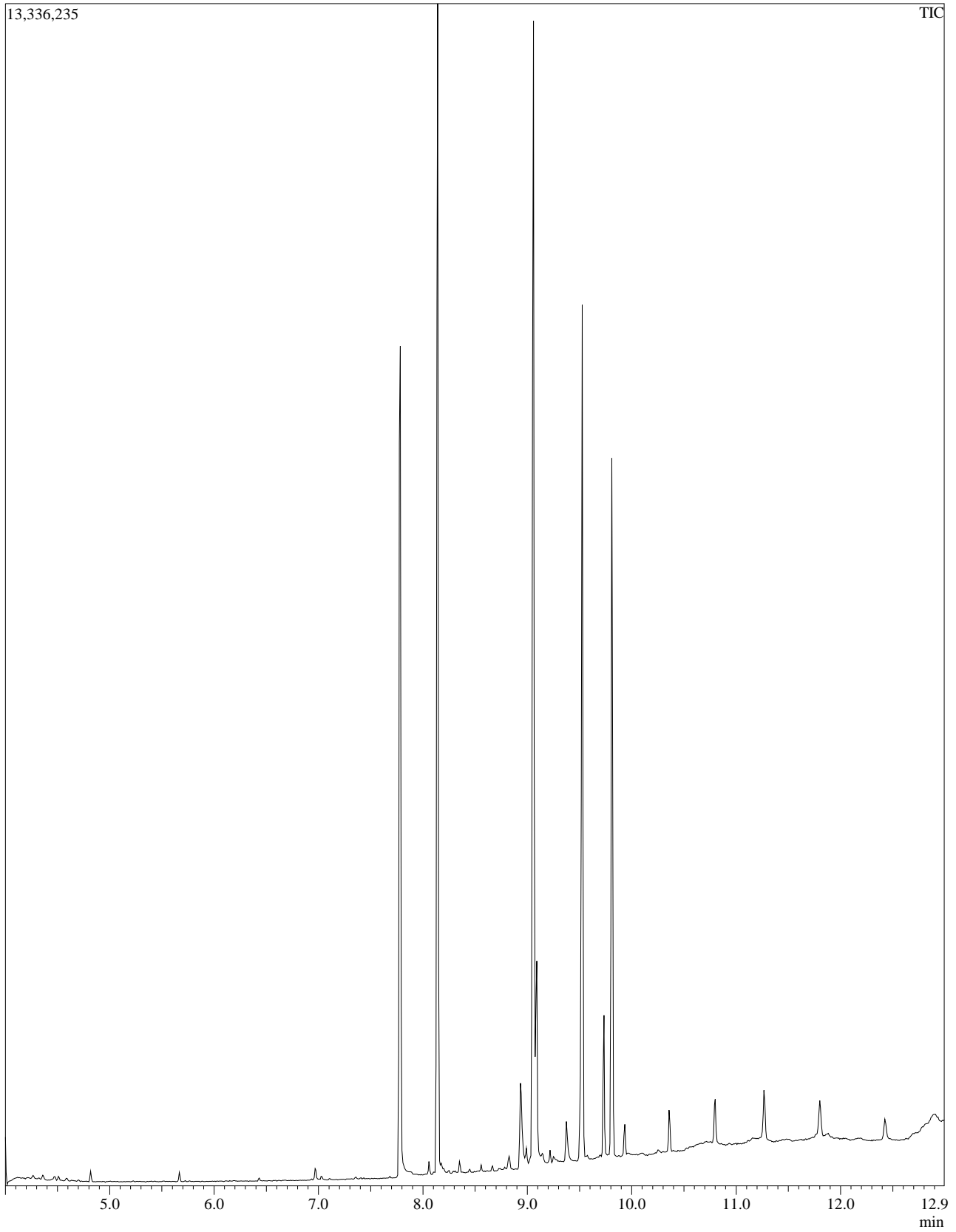
<i>Data</i>	<i>Data File Path</i>		<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>	
<i>Data1:</i>	Q:\SVOA\MS4\0613\062613\SV415843.qgd		CWF0290-TUN1		6/27/2013 2:19:05 AM	Normal	
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
<i>1</i>	4	4,4'-DDT	8137611	TIC	52.588689	20.000000	Upper
<i>1</i>	2	4,4'-DDE	120858	TIC			
<i>1</i>	3	4,4'-DDD	8905391	TIC			

Data File : Q:\SVOA\MS4\0613\062613\SV415843.qgd
 Method File : Q:\SVOA\MS4\0613\062613\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 2:19:05 AM
 Sample Type : Control
 Level # : 1
 Sample Name : CWF0290-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.14	TIC	13679670	0.8978	ng/uL	96
2	4,4'-DDE	9.22	TIC	120858	0.0000	ng/uL	31
3	4,4'-DDD	9.52	TIC	8905391	0.4370	ng/uL	85
4	4,4'-DDT	9.81	TIC	8137611	0.3993	ng/uL	92
5	Pentachlorophenol	7.78	266	1324164	0.8618	ng/uL	95
6	Benzidine	9.06	184	5470322	428.8767	ng/uL	96



Data File : Q:\SVOA\MS4\0613\062613\SV415844.qgd
 Method File : Q:\SVOA\MS4\0613\062613\SIMA4AW0626.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/27/2013 2:46:07 AM
 Sample Type : Continuing Calibration
 Level # : 1
 Sample Name : CWF0290-CCV1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 2
 Injection Volume : 1

Internal Standard

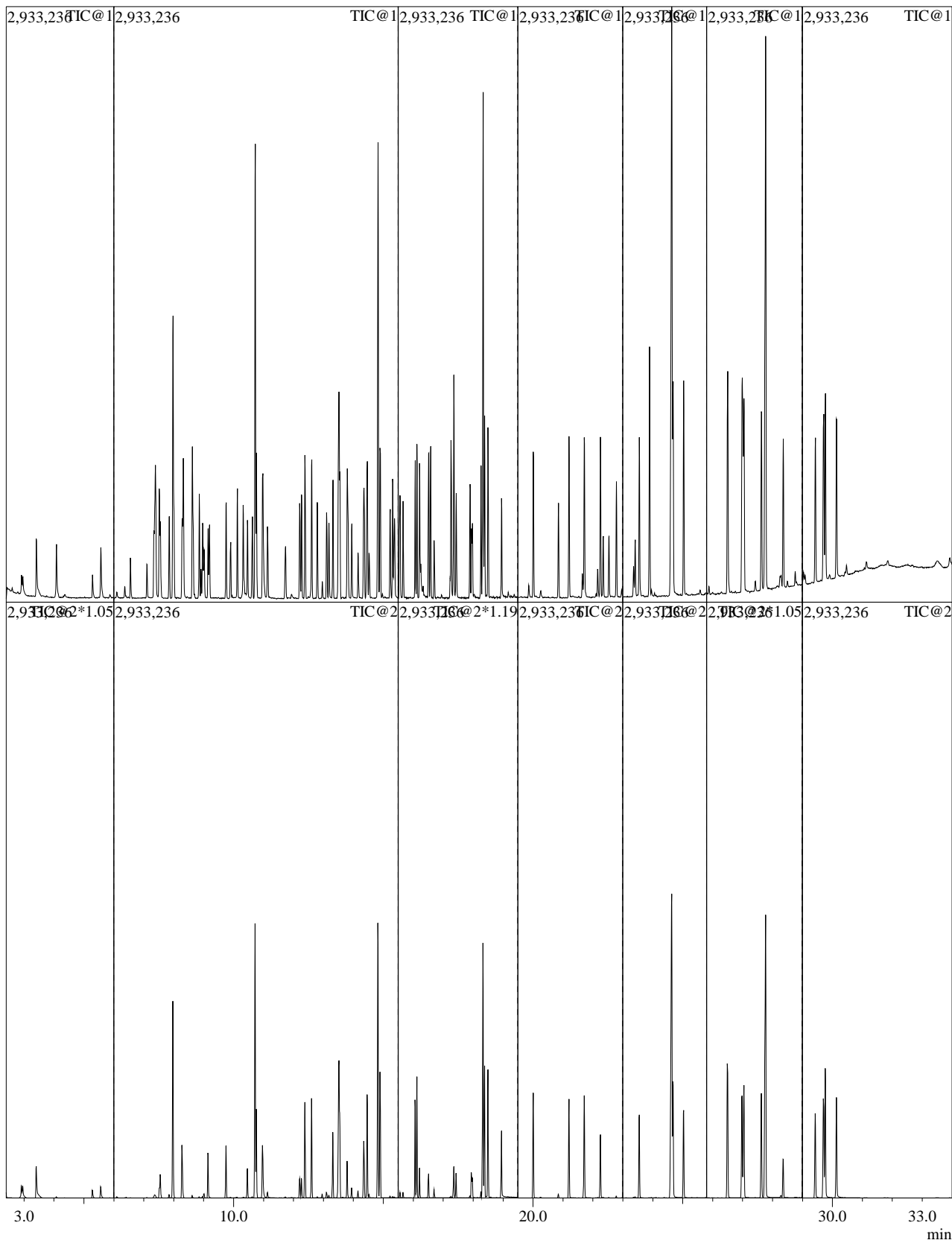
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	493334	20.0000	ng/uL	100.00
2	Naphthalene-D10	10.71	136	1970137	20.0000	ng/uL	100.00
3	Acenaphthene-D10	14.82	164	942756	20.0000	ng/uL	100.00
4	Phenanthrene-D10	18.33	188	1733190	20.0000	ng/uL	100.00
5	Chrysene-D12	24.63	240	2318752	20.0000	ng/uL	100.00
6	Perylene-D12	27.76	264	2339797	20.0000	ng/uL	100.00
12	1,4-Dioxane-d8 (IS)	2.91	64	67838	5.0000	ng/uL	100.00

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.28	152	128162	4.9588	ng/uL	198.35
8	Nitrobenzene-D5 (Surr)	9.15	82	180496	5.3527	ng/uL	214.11
9	2-Fluorobiphenyl (Surr)	13.31	172	373931	4.6928	ng/uL	187.71
10	2,4,6-Tribromophenol (Surr)	16.69	330	9734	2.2248	ng/uL	59.33
11	Terphenyl-D14 (Surr)	22.25	244	488498	5.2437	ng/uL	209.75
13	1,4-Dioxane-d8 (Surr)	2.91	64	67838	5.0380	ng/uL	100.76

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	74354	5.3209	ng/uL	95
15	1,4-Dioxane (IS7)	2.95	88	74354	5.2974	ng/uL	95
16	Pyridine	3.41	79	226559	5.3584	ng/uL	96
17	Naphthalene	10.76	128	598372	5.0785	ng/uL	98
18	2-Methylnaphthalene	12.38	142	393900	5.1676	ng/uL	98
19	1-Methylnaphthalene	12.60	142	395436	5.2632	ng/uL	99
20	Biphenyl	13.52	154	439085	4.6630	ng/uL	89
21	Dimethylphthalate	14.35	163	397185	4.8005	ng/uL	60
22	Acenaphthylene	14.46	152	592666	4.9648	ng/uL	85
23	Acenaphthene	14.89	153	367811	4.8116	ng/uL	99
24	Fluorene	16.12	166	407031	4.8921	ng/uL	97
25	Diethylphthalate	16.06	149	481679	4.5972	ng/uL	98
26	Hexachlorobenzene	17.43	284	53140	3.2048	ng/uL	95
27	Pentachloronitrobenzene	17.97	237	31598	4.4099	ng/uL	94
28	Pentachlorophenol	17.94	266	55967	4.0053	ng/uL	91
29	Phenanthrene	18.38	178	599068	4.9086	ng/uL	91
30	Anthracene	18.49	178	618506	5.0701	ng/uL	99
31	Di-n-butylphthalate	20.01	149	874671	5.2936	ng/uL	99
32	Fluoranthene	21.20	202	692317	4.8880	ng/uL	98
33	Pyrene	21.71	202	717426	4.5182	ng/uL	98
34	Butylbenzylphthalate	23.55	149	416935	5.3531	ng/uL	98
35	Benz[a]anthracene	24.60	228	756954	4.7151	ng/uL	99
36	Chrysene	24.68	228	708916	4.6463	ng/uL	98
37	Bis(2-ethylhexyl)phthalate	25.03	149	633357	5.5746	ng/uL	98
38	Di-n-octylphthalate	26.49	149	1162968	5.6954	ng/uL	99
39	Benzo[b]fluoranthene	26.98	252	848332	4.5792	ng/uL	96
40	Benzo[k]fluoranthene	27.04	252	816014	4.6492	ng/uL	72
41	Benzo[a]pyrene	27.62	252	799477	4.9078	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.70	276	713846	4.6911	ng/uL	97
43	Dibenz[a,h]anthracene	29.76	278	710972	4.8780	ng/uL	94
44	Benzo[ghi]perylene	30.13	276	683595	4.2785	ng/uL	98



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Column Performance

- Count 1

Data	Data File Path	Sample Name	Sample ID	Analysis Date	Data File Status
Data1:	Q:\SVOA\MS4\0613\062713\SV415874.qgd	CWF0330-TUN1		6/28/2013 4:52:15 AM	Normal

- [Result]

ID	Compound Name	Tailing F.	Tailing F. L. Limit	Tailing F. U. Limit	Tailing F. Status
1	DFTPP	1.038671	-	-	-
2	4,4'-DDE	0.819328	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	0.949124	-	-	-
5	Pentachlorophenol	1.055452	-	2.000000	Pass
6	Benzidine	1.085833	-	2.000000	Pass

Spectrum Check

- Count 1

Data	Data File Path	Sample Name	Sample ID	Analysis Date	Data File Status
Data1:	Q:\SVOA\MS4\0613\062713\SV415874.qgd	CWF0330-TUN1		6/28/2013 4:52:15 AM	Normal

- DFTPP

m/z	Spectrum Check Criteria	Result	Status
51	30- 60% of the base peak	57.330613	Pass
68	< 2% of mass 69	1.728904	Pass
70	< 2% of mass 69	0.527175	Pass
127	40 - 60% of mass 198	54.482042	Pass
197	< 1% of mass 198	0.557265	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.863756	Pass
275	10 - 30% of the base peak	23.136329	Pass
365	> 1% of the base peak	1.479334	Pass
441	Present and < mass 443	78.332313	Pass

442	base peak or > 40% of mass 198	51.925231	Pass
443	17 - 23% of mass 442	19.305882	Pass

Degradation Check

- Count 1

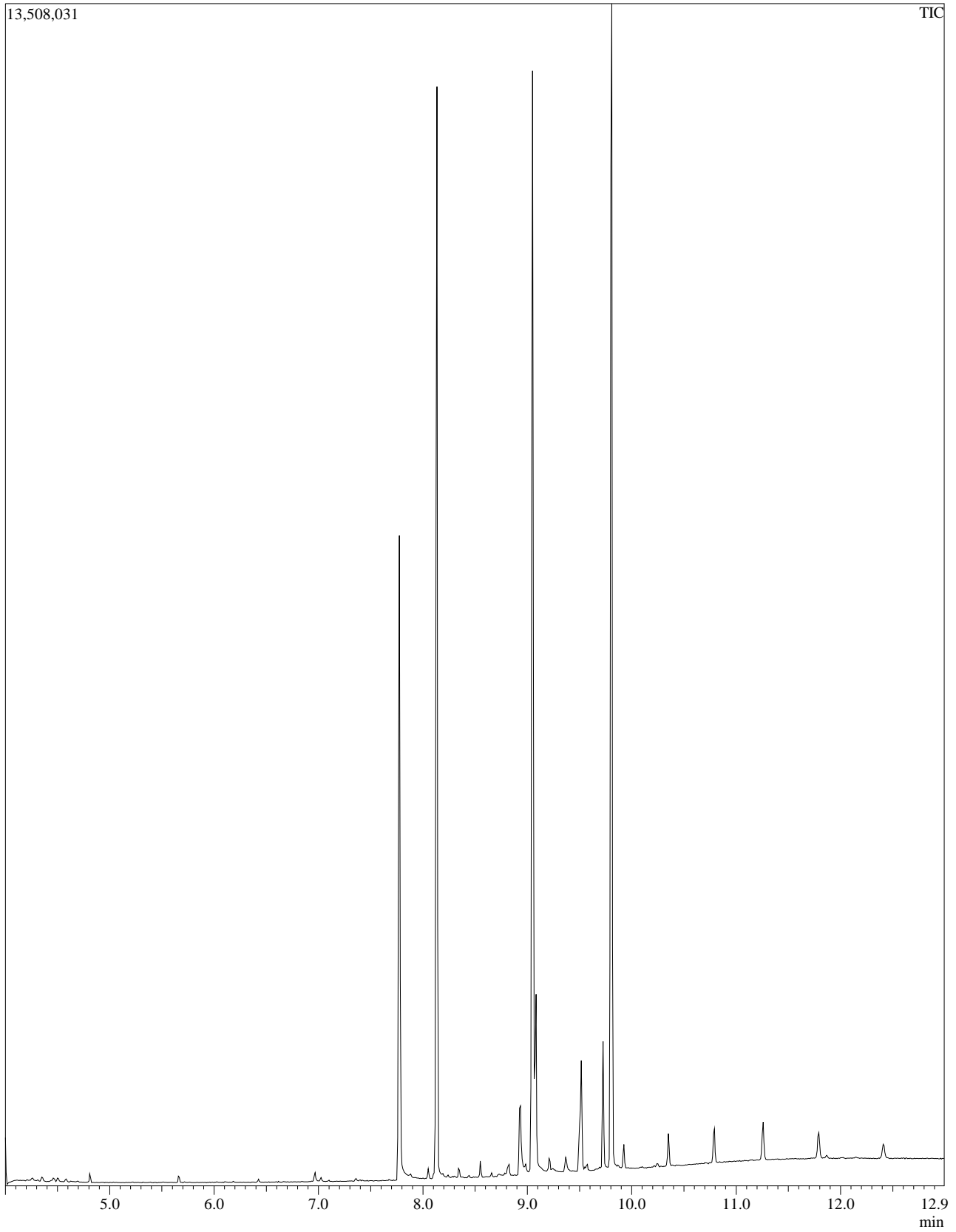
<i>Data</i>	<i>Data File Path</i>		<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>	
<i>Data1:</i>	Q:\SVOA\MS4\0613\062713\SV415874.qgd		CWF0330-TUN1		6/28/2013 4:52:15 AM	Normal	
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
<i>1</i>	4	4,4'-DDT	15106055	TIC	6.216997	20.000000	Pass
<i>1</i>	2	4,4'-DDE	138738	TIC			
<i>1</i>	3	4,4'-DDD	862662	TIC			

Data File : Q:\SVOA\MS4\0613\062713\SV415874.qgd
 Method File : Q:\SVOA\MS4\0613\062713\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 4:52:15 AM
 Sample Type : Control
 Level # : 1
 Sample Name : CWF0330-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.13	TIC	11826130	0.7762	ng/uL	96
2	4,4'-DDE	9.21	TIC	138738	0.0000	ng/uL	31
3	4,4'-DDD	9.52	TIC	862662	0.0000	ng/uL	83
4	4,4'-DDT	9.81	TIC	15106055	0.7413	ng/uL	93
5	Pentachlorophenol	7.77	266	973786	0.6338	ng/uL	94
6	Benzidine	9.05	184	4938201	387.1581	ng/uL	96



Data File : Q:\SVOA\MS4\0613\062713\SV415875.qgd
 Method File : Q:\SVOA\MS4\0613\062713\SIMA4AW062713.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/28/2013 5:19:18 AM
 Sample Type : Continuing Calibration
 Level # : 1
 Sample Name : CWF0330-CCV1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 2
 Injection Volume : 1

Internal Standard

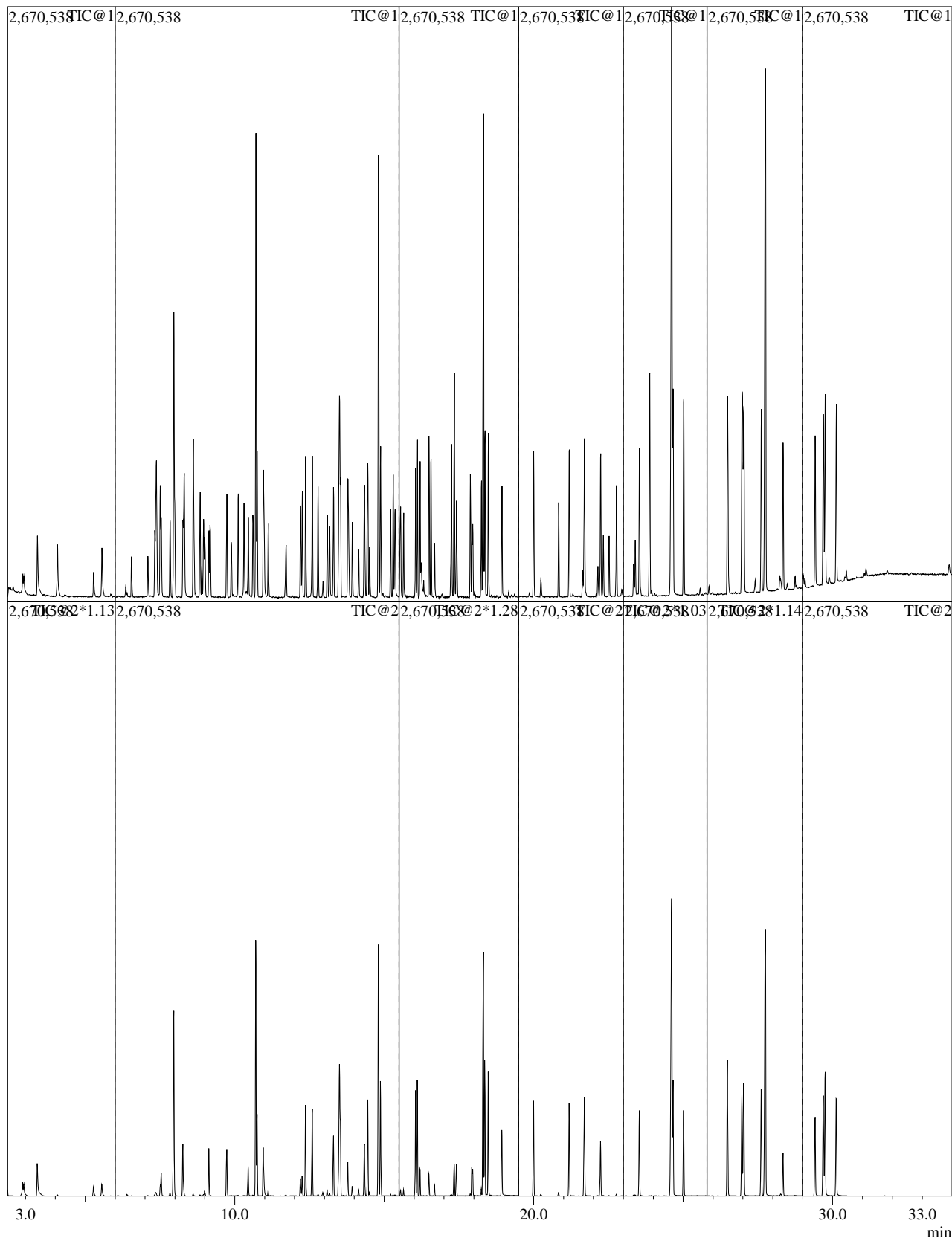
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.96	152	446952	20.0000	ng/uL	100.00
2	Naphthalene-D10	10.70	136	1696101	20.0000	ng/uL	100.00
3	Acenaphthene-D10	14.80	164	744108	20.0000	ng/uL	100.00
4	Phenanthrene-D10	18.31	188	1447958	20.0000	ng/uL	100.00
5	Chrysene-D12	24.61	240	1899947	20.0000	ng/uL	100.00
6	Perylene-D12	27.75	264	1823040	20.0000	ng/uL	100.00
12	1,4-Dioxane-d8 (IS)	2.90	64	63696	5.0000	ng/uL	100.00

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.27	152	114302	4.8815	ng/uL	195.26
8	Nitrobenzene-D5 (Surr)	9.13	82	163185	5.6212	ng/uL	224.85
9	2-Fluorobiphenyl (Surr)	13.30	172	316758	5.0366	ng/uL	201.46
10	2,4,6-Tribromophenol (Surr)	16.68	330	18265	5.8707	ng/uL	156.55
11	Terphenyl-D14 (Surr)	22.23	244	380703	4.9874	ng/uL	199.50
13	1,4-Dioxane-d8 (Surr)	2.90	64	63696	5.2212	ng/uL	104.42

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.94	88	68732	5.4290	ng/uL	94
15	1,4-Dioxane (IS7)	2.94	88	68732	5.2153	ng/uL	94
16	Pyridine	3.40	79	202566	5.2881	ng/uL	96
17	Naphthalene	10.75	128	518372	5.1103	ng/uL	97
18	2-Methylnaphthalene	12.37	142	335743	5.1163	ng/uL	98
19	1-Methylnaphthalene	12.59	142	333875	5.1618	ng/uL	98
20	Biphenyl	13.51	154	366070	4.9254	ng/uL	92
21	Dimethylphthalate	14.34	163	338668	5.1860	ng/uL	59
22	Acenaphthylene	14.45	152	491217	5.2135	ng/uL	85
23	Acenaphthene	14.88	153	305191	5.0582	ng/uL	98
24	Fluorene	16.10	166	337098	5.1332	ng/uL	96
25	Diethylphthalate	16.05	149	418777	5.1726	ng/uL	97
26	Hexachlorobenzene	17.41	284	76309	6.2262	ng/uL	95
27	Pentachloronitrobenzene	17.96	237	34539	5.7699	ng/uL	95
28	Pentachlorophenol	17.93	266	53876	4.5769	ng/uL	95
29	Phenanthrene	18.36	178	507384	4.9763	ng/uL	91
30	Anthracene	18.48	178	524855	5.1499	ng/uL	98
31	Di-n-butylphthalate	19.99	149	737787	5.3447	ng/uL	98
32	Fluoranthene	21.18	202	599124	5.0633	ng/uL	98
33	Pyrene	21.69	202	630121	4.8431	ng/uL	98
34	Butylbenzylphthalate	23.53	149	359326	5.6304	ng/uL	98
35	Benz[a]anthracene	24.58	228	649911	4.9407	ng/uL	99
36	Chrysene	24.66	228	615704	4.9249	ng/uL	98
37	Bis(2-ethylhexyl)phthalate	25.02	149	536349	5.7614	ng/uL	98
38	Di-n-octylphthalate	26.48	149	972809	6.1146	ng/uL	98
39	Benzo[b]fluoranthene	26.97	252	678299	4.6993	ng/uL	95
40	Benzo[k]fluoranthene	27.03	252	685343	5.0116	ng/uL	72
41	Benzo[a]pyrene	27.61	252	665590	5.2441	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.69	276	629164	5.3066	ng/uL	97
43	Dibenz[a,h]anthracene	29.75	278	617307	5.4359	ng/uL	94
44	Benzo[ghi]perylene	30.12	276	615221	4.9420	ng/uL	98



PAH Logbooks

HOLDING TIME SUMMARY

8270C SIM

Laboratory: ESS Laboratory

SDG: 1306385

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SS-500-01	06/21/13 09:20	06/21/13 17:00	06/25/13 09:30	4.01	14.00	06/27/13 06:35	1.88	40.00	
SS-500-02	06/21/13 10:00	06/21/13 17:00	06/25/13 09:30	3.98	14.00	06/27/13 10:42	2.05	40.00	
SS-501-01	06/21/13 10:30	06/21/13 17:00	06/25/13 09:30	3.96	14.00	06/27/13 07:24	1.91	40.00	
SS-501-02	06/21/13 10:55	06/21/13 17:00	06/25/13 09:30	3.94	14.00	06/28/13 12:25	3.12	40.00	
SS-502-01	06/21/13 11:20	06/21/13 17:00	06/25/13 09:30	3.92	14.00	06/26/13 23:23	1.58	40.00	
SS-502-02	06/21/13 11:30	06/21/13 17:00	06/25/13 09:30	3.92	14.00	06/27/13 00:11	1.61	40.00	
SS-505-01	06/21/13 14:05	06/21/13 17:00	06/25/13 09:30	3.81	14.00	06/27/13 12:27	2.12	40.00	
SS-505-01	06/21/13 14:05	06/21/13 17:00	06/25/13 09:30	3.81	14.00	06/28/13 09:58	3.02	40.00	
SS-505-02	06/21/13 14:25	06/21/13 17:00	06/25/13 09:30	3.80	14.00	06/27/13 08:12	1.95	40.00	
SS-506-01	06/21/13 14:45	06/21/13 17:00	06/25/13 09:30	3.78	14.00	06/27/13 01:00	1.65	40.00	
SS-506-02	06/21/13 15:00	06/21/13 17:00	06/25/13 09:30	3.77	14.00	06/27/13 04:58	1.81	40.00	
SS-507-01	06/21/13 15:20	06/21/13 17:00	06/25/13 09:30	3.76	14.00	06/27/13 09:01	1.98	40.00	
SS-507-02	06/21/13 15:40	06/21/13 17:00	06/25/13 09:30	3.74	14.00	06/27/13 05:47	1.85	40.00	
DUP	06/21/13 00:00	06/21/13 17:00	06/25/13 09:30	4.40	14.00	06/27/13 09:50	2.01	40.00	

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
 Client Project ID: _____
 Shipped/Delivered Via: ESS Courier

ESS Project ID: 13060385
 Date Project Due: 6/28/13
 Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|---|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| Cooler Temp: <u>4.3</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |
| 18. Was there need to call project manager to discuss status? If yes, please explain. | _____ | | |
| | _____ | | |
| | _____ | | |

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	4	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	2	NP
12	Yes	4 oz Soil Jar	1	NP
13	Yes	4 oz Soil Jar	1	NP

Completed By: [Signature] Date/Time: 6/24/13 1529
 Reviewed By: [Signature] Date/Time: 6/24/13 1535

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: ESS Courier

ESS Project ID: 13060385
Date Project Due: 6/28/13
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.: _____
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 4.3
- Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? No
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: _____
- Sub Lab: _____
- Analysis: _____
- TAT: _____

18. Was there need to call project manager to discuss status? If yes, please explain.
Dep sample received not on COC. MS/MS jars received for sample #1, MS/MSD not assigned. Please advise on both matters. 6/21/13 @

Who was called? ^{emailed} Kevin Braga By whom? Christine Taylor

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	4	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
5	Yes	4 oz Soil Jar	2	NP
6	Yes	4 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
9	Yes	4 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
11	Yes	4 oz Soil Jar	2	NP
12	Yes	4 oz Soil Jar	1	NP

Completed By: LOV Date/Time: 6/21/13 2:50
Reviewed By: JSP Date/Time: 6/23/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA (R) CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 MA-MCP Navy

Reporting Limits
 "RESIDENTIAL"
 Electronic Deliverable Yes No _____
 Format: Excel Access PDF Other **EXCEL**

ESS LAB PROJECT ID: **1306385**

Project # **3652130009** Project Name (20 Char. or less) **Gorham Site, C-1, PH. III**
 Address **107 Audubon Rd.** Zip **01880** PO# **20122202910**
 City **Wakefield** State **MA** Email Address **Kelly.chatterton@amec.com**
 Telephone # **781-245-6606** Fax # _____

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
1	6-21-13	0920	X		S	SS-500-01	1	2	G	X
2	"	1000	X		S	SS-500-02	1	2	G	X
3	"	1030	X		S	SS-501-01	1	2	G	X
4	"	1055	X		S	SS-501-02	1	2	G	X
5	"	1120	X		S	SS-502-01	1	2	G	X
6	"	1130	X		S	SS-502-02	1	1	G	X
	"	1200	X		S	SS-503-01	1	2	G	X
	"	1210	X		S	SS-503-02	1	1	G	X
	"	1325	X		S	SS-504-01	1	2	G	X
	"	1340	X		S	SS-505-04-02	1	1	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No _____ Internal Use Only
 Seals Intact Yes No NA: _____
 Cooler Temp: **4.30 ice** 6/21/13
 Relinquished by: (Signature) **[Signature]** Date/Time **6-21-13 1700** Received by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) _____ Date/Time _____ Received by: (Signature) _____ Date/Time _____

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 2 of 2

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following: USACE Other _____
 Navy MA-MCP

Reporting Limits
 "Residential"
 Electronic Deliverable
 Yes No
 Format: Excel _____ Access _____ PDF _____ Other EXCEL

ESSLAB PROJECT #
1306385

Co. Name AMEC Environment + Infrastructure
 Project # 3652130009
 Project Name (20 Char. or less) Gorham Site, C-1, PH. III
 Contact Person Kelly Chatterton
 Address 107 Audubon Rd.
 City Wakefield State MA Zip 01880 PO# 012202910
 Telephone # 781-245-6606 Fax # _____
 Email Address Kelly.chatterton@amec.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
7	6-21-13	1405	X		S	SS-505-01	1	2	G	X PATHS (B270 SIM) X Metals (Pb+As) (6) X Dioxins/Furans (B270) X Hold Pending AMEC X Notification
8	"	1425	X		S	SS-505-02	1	1	G	X
9	"	1445	X		S	SS-506-01	1	2	G	X
10	"	1500	X		S	SS-506-02	1	1	G	X
11	"	1520	X		S	SS-507-01	1	2	G	X
12	"	1540	X		S	SS-507-02	1	1	G	X
	6/21/13				S	Dup (Hold?)	1	1	G	

Container Type: P-Poly Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters
 Cooler Present Yes No Internal Use Only
 Seals Intact Yes No NA: Pickup
 Cooler Temp: 4.5° ice 6/21/13 [] Technicians _____
 Relinquished by: (Signature) [Signature] Date/Time 6-21-13 1700 Received by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) [Signature] Date/Time 6/21/13 1700 Received by: (Signature) _____ Date/Time _____

Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9-
 Sampled by: PSM / MAM
 Comments: _____



FILE COPY

CERTIFICATE OF ANALYSIS

Kelly Chatterton
 AMEC Environmental and Infrastructure
 107 Audubon Road, Suite 301
 Wakefield, MA 01880

**CHECKED FOR COMPLETENESS
 OF PARAMETERS ORDERED BY:**
NC 10/13/13

RE: Gorham Site C-1 Phase III (3652130009)
ESS Laboratory Work Order Number: 1307061

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 3:41 pm, Aug 06, 2013

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

SAMPLE RECEIPT

The following samples were received on July 02, 2013 for the analyses specified on the enclosed Chain of Custody Record.

These samples were originally received on hold on June 21, 2013.

<u>Lab Number</u>	<u>SampleName</u>	<u>Matrix</u>	<u>Analysis</u>
1307061-01	SS-503-01	Soil	6010B, 8270C SIM
1307061-02	SS-503-02	Soil	6010B, 8270C SIM
1307061-03	SS-504-01	Soil	6010B, 8270C SIM
1307061-04	SS-504-02	Soil	6010B, 8270C SIM



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

PROJECT NARRATIVE

8270C(SIM) Polynuclear Aromatic Hydrocarbons

- 1307061-02 Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
1,2-Dichlorobenzene-d4 (27% @ 30-130%)
- 1307061-03 Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
Perylene-d12 (43% @ 50-200%)
- CG30504-BSD1 Blank Spike recovery is below lower control limit (B-).
Naphthalene (36% @ 40-140%)

Total Metals Solid

- CG30304-BSD1 Blank Spike recovery is above upper control limit (B+).
Lead (135% @ 80-120%)
- CG30304-BSD1 Relative percent difference for duplicate is outside of criteria (D+).
Lead (34%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010C - ICP
6020A - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260B - VOA
8270D - SVOA
8270D SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 04-1.1 - EPH / VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3541 - Automated Soxhlet Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-503-01
Date Sampled: 06/21/13 12:00
Percent Solids: 92

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.1 (2.4)		6010B		1	JP	07/05/13 14:57	2.24	100	CG30304
Lead	59.8 (4.9)		6010B		1	JP	07/05/13 14:57	2.24	100	CG30304



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-503-01
Date Sampled: 06/21/13 12:00
Percent Solids: 92
Initial Volume: 14.6
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/5/13 10:30

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
2-Methylnaphthalene	0.034 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Acenaphthene	ND (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Acenaphthylene	0.125 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Anthracene	0.117 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Benzo(a)anthracene	0.362 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Benzo(a)pyrene	0.432 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Benzo(b)fluoranthene	0.620 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Benzo(g,h,i)perylene	0.300 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Benzo(k)fluoranthene	0.219 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Chrysene	0.458 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Dibenzo(a,h)Anthracene	0.088 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Fluoranthene	0.637 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Fluorene	ND (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Indeno(1,2,3-cd)Pyrene	0.351 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Naphthalene	0.029 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Phenanthrene	0.243 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504
Pyrene	0.600 (0.019)		8270C SIM		1	07/08/13 12:36	CWG0078	CG30504

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	32 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	46 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	37 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	62 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-503-02
Date Sampled: 06/21/13 12:10
Percent Solids: 93

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.0 (2.6)		6010B		1	JP	07/05/13 15:01	2.09	100	CG30304
Lead	71.9 (5.1)		6010B		1	JP	07/05/13 15:01	2.09	100	CG30304



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-503-02
Date Sampled: 06/21/13 12:10
Percent Solids: 93
Initial Volume: 15
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/5/13 10:30

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
2-Methylnaphthalene	0.024 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Acenaphthene	0.035 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Acenaphthylene	0.324 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Anthracene	0.358 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Benzo(a)anthracene	1.15 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Benzo(a)pyrene	1.09 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Benzo(b)fluoranthene	1.42 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Benzo(g,h,i)perylene	0.570 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Benzo(k)fluoranthene	0.467 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Chrysene	1.11 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Dibenzo(a,h)Anthracene	0.173 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Fluoranthene	2.68 (0.183)		8270C SIM		10	07/08/13 17:35	CWG0078	CG30504
Fluorene	0.056 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Indeno(1,2,3-cd)Pyrene	0.690 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Naphthalene	0.033 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Phenanthrene	0.982 (0.018)		8270C SIM		1	07/08/13 13:26	CWG0078	CG30504
Pyrene	2.62 (0.183)		8270C SIM		10	07/08/13 17:35	CWG0078	CG30504

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1,2-Dichlorobenzene-d4	27 %	SM	30-130
Surrogate: 2-Fluorobiphenyl	45 %		30-130
Surrogate: Nitrobenzene-d5	33 %		30-130
Surrogate: p-Terphenyl-d14	60 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-504-01
Date Sampled: 06/21/13 13:25
Percent Solids: 95

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.7 (2.4)		6010B		1	JP	07/05/13 15:05	2.19	100	CG30304
Lead	45.6 (4.8)		6010B		1	JP	07/05/13 15:05	2.19	100	CG30304



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-504-01
Date Sampled: 06/21/13 13:25
Percent Solids: 95
Initial Volume: 15.2
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/5/13 10:30

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
2-Methylnaphthalene	0.022 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Acenaphthene	0.025 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Acenaphthylene	0.175 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Anthracene	0.199 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Benzo(a)anthracene	0.573 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Benzo(a)pyrene	0.616 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Benzo(b)fluoranthene	0.940 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Benzo(g,h,i)perylene	0.233 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Benzo(k)fluoranthene	0.320 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Chrysene	0.563 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Dibenzo(a,h)Anthracene	0.066 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Fluoranthene	1.03 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Fluorene	0.033 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Indeno(1,2,3-cd)Pyrene	0.293 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Naphthalene	0.035 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Phenanthrene	0.550 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504
Pyrene	1.10 (0.018)		8270C SIM		1	07/08/13 14:16	CWG0078	CG30504

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1,2-Dichlorobenzene-d4	41 %		30-130
Surrogate: 2-Fluorobiphenyl	57 %		30-130
Surrogate: Nitrobenzene-d5	52 %		30-130
Surrogate: p-Terphenyl-d14	71 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-504-02
Date Sampled: 06/21/13 13:40
Percent Solids: 90

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals Solid

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.1 (2.7)		6010B		1	JP	07/05/13 15:09	2.09	100	CG30304
Lead	78.0 (5.3)		6010B		1	JP	07/05/13 15:09	2.09	100	CG30304



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-504-02
Date Sampled: 06/21/13 13:40
Percent Solids: 90
Initial Volume: 14.9
Final Volume: 0.5
Extraction Method: 3541

ESS Laboratory Work Order: 1307061
ESS Laboratory Sample ID: 1307061-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/5/13 10:30

8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
2-Methylnaphthalene	ND (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Acenaphthene	ND (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Acenaphthylene	0.099 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Anthracene	0.073 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Benzo(a)anthracene	0.369 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Benzo(a)pyrene	0.445 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Benzo(b)fluoranthene	0.652 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Benzo(g,h,i)perylene	0.167 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Benzo(k)fluoranthene	0.203 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Chrysene	0.395 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Dibenzo(a,h)Anthracene	0.045 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Fluoranthene	0.733 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Fluorene	ND (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Indeno(1,2,3-cd)Pyrene	0.217 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Naphthalene	0.021 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Phenanthrene	0.275 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504
Pyrene	0.738 (0.019)		8270C SIM		1	07/08/13 15:05	CWG0078	CG30504

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	42 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	49 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	45 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	61 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals Solid

Batch CG30304 - 3050B

Blank

Arsenic	ND	2.5	mg/kg wet							
Lead	ND	5.0	mg/kg wet							

LCS

Arsenic	143	8.3	mg/kg wet	161.0		89	80-120			
Lead	98.8	16.7	mg/kg wet	103.0		96	80-120			

LCS Dup

Arsenic	148	8.3	mg/kg wet	161.0		92	80-120	4	20	
Lead	139	16.7	mg/kg wet	103.0		135	80-120	34	20	B+, D+

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch CG30504 - 3541

Blank

1,1-Biphenyl	ND	0.017	mg/kg wet							
2-Methylnaphthalene	ND	0.017	mg/kg wet							
Acenaphthene	ND	0.017	mg/kg wet							
Acenaphthylene	ND	0.017	mg/kg wet							
Anthracene	ND	0.017	mg/kg wet							
Benzo(a)anthracene	ND	0.017	mg/kg wet							
Benzo(a)pyrene	ND	0.017	mg/kg wet							
Benzo(b)fluoranthene	ND	0.017	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.017	mg/kg wet							
Benzo(k)fluoranthene	ND	0.017	mg/kg wet							
Chrysene	ND	0.017	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.017	mg/kg wet							
Fluoranthene	ND	0.017	mg/kg wet							
Fluorene	ND	0.017	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.017	mg/kg wet							
Naphthalene	ND	0.017	mg/kg wet							
Phenanthrene	ND	0.017	mg/kg wet							
Pyrene	ND	0.017	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	0.133		mg/kg wet	0.3333		40	30-130			
Surrogate: 2-Fluorobiphenyl	0.143		mg/kg wet	0.3333		43	30-130			
Surrogate: Nitrobenzene-d5	0.147		mg/kg wet	0.3333		44	30-130			
Surrogate: p-Terphenyl-d14	0.245		mg/kg wet	0.3333		73	30-130			

LCS

1,1-Biphenyl	0.130	0.017	mg/kg wet	0.2667		49	40-140			
2-Methylnaphthalene	0.132	0.017	mg/kg wet	0.2667		49	40-140			
Acenaphthene	0.138	0.017	mg/kg wet	0.2667		52	40-140			
Acenaphthylene	0.129	0.017	mg/kg wet	0.2667		48	40-140			
Anthracene	0.181	0.017	mg/kg wet	0.2667		68	40-140			
Benzo(a)anthracene	0.218	0.017	mg/kg wet	0.2667		82	40-140			
Benzo(a)pyrene	0.206	0.017	mg/kg wet	0.2667		77	40-140			
Benzo(b)fluoranthene	0.211	0.017	mg/kg wet	0.2667		79	40-140			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch CG30504 - 3541										
Benzo(g,h,i)perylene	0.216	0.017	mg/kg wet	0.2667		81	40-140			
Benzo(k)fluoranthene	0.210	0.017	mg/kg wet	0.2667		79	40-140			
Chrysene	0.210	0.017	mg/kg wet	0.2667		79	40-140			
Dibenzo(a,h)Anthracene	0.228	0.017	mg/kg wet	0.2667		85	40-140			
Fluoranthene	0.200	0.017	mg/kg wet	0.2667		75	40-140			
Fluorene	0.151	0.017	mg/kg wet	0.2667		57	40-140			
Indeno(1,2,3-cd)Pyrene	0.217	0.017	mg/kg wet	0.2667		81	40-140			
Naphthalene	0.129	0.017	mg/kg wet	0.2667		48	40-140			
Phenanthrene	0.180	0.017	mg/kg wet	0.2667		67	40-140			
Pyrene	0.221	0.017	mg/kg wet	0.2667		83	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	0.160		mg/kg wet	0.3333		48	30-130			
Surrogate: 2-Fluorobiphenyl	0.180		mg/kg wet	0.3333		54	30-130			
Surrogate: Nitrobenzene-d5	0.179		mg/kg wet	0.3333		54	30-130			
Surrogate: p-Terphenyl-d14	0.283		mg/kg wet	0.3333		85	30-130			
LCS Dup										
1,1-Biphenyl	0.117	0.017	mg/kg wet	0.2667		44	40-140	11	30	
2-Methylnaphthalene	0.110	0.017	mg/kg wet	0.2667		41	40-140	18	30	
Acenaphthene	0.133	0.017	mg/kg wet	0.2667		50	40-140	4	30	
Acenaphthylene	0.124	0.017	mg/kg wet	0.2667		46	40-140	4	30	
Anthracene	0.182	0.017	mg/kg wet	0.2667		68	40-140	0.6	30	
Benzo(a)anthracene	0.206	0.017	mg/kg wet	0.2667		77	40-140	6	30	
Benzo(a)pyrene	0.205	0.017	mg/kg wet	0.2667		77	40-140	0.3	30	
Benzo(b)fluoranthene	0.213	0.017	mg/kg wet	0.2667		80	40-140	1	30	
Benzo(g,h,i)perylene	0.215	0.017	mg/kg wet	0.2667		80	40-140	0.6	30	
Benzo(k)fluoranthene	0.208	0.017	mg/kg wet	0.2667		78	40-140	1	30	
Chrysene	0.199	0.017	mg/kg wet	0.2667		75	40-140	5	30	
Dibenzo(a,h)Anthracene	0.224	0.017	mg/kg wet	0.2667		84	40-140	2	30	
Fluoranthene	0.197	0.017	mg/kg wet	0.2667		74	40-140	2	30	
Fluorene	0.155	0.017	mg/kg wet	0.2667		58	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	0.218	0.017	mg/kg wet	0.2667		82	40-140	0.2	30	
Naphthalene	0.096	0.017	mg/kg wet	0.2667		36	40-140	29	30	B-
Phenanthrene	0.181	0.017	mg/kg wet	0.2667		68	40-140	0.4	30	
Pyrene	0.202	0.017	mg/kg wet	0.2667		76	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	0.100		mg/kg wet	0.3333		30	30-130			
Surrogate: 2-Fluorobiphenyl	0.152		mg/kg wet	0.3333		46	30-130			
Surrogate: Nitrobenzene-d5	0.123		mg/kg wet	0.3333		37	30-130			
Surrogate: p-Terphenyl-d14	0.235		mg/kg wet	0.3333		70	30-130			



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SM Surrogate recovery(ies) outside of criteria due to matrix (UCM/coelution/matrix is present) (SM).
- IM Internal Standard(s) outside of criteria due to matrix (UCM/coelution is present) (IM).
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- D Diluted.
- B+ Blank Spike recovery is above upper control limit (B+).
- B- Blank Spike recovery is below lower control limit (B-).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1307061

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.epsc.gov/cgi-bin/labapplist.aspx>

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 13070061
Date Project Due: 7/9/13
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| Cooler Temp: <u>4.3</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Samples off hold for PAHs + Metals. (Watch Hold Times!)

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	2	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP

Completed By: MLC

Date/Time: 7/11/13 2:05

Reviewed By: SEB

Date/Time: 7/2/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 2

Reporting Limits
 RI DEC 16
 Electronic Deliverable Yes No
 Format: Excel Access PDF Other EZEED

Turn Time Standard Other
 If faster than 5 days, prior approval by laboratory is required #
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other
 Is this project for any of the following:
 MA-MCP Navy USACE Other

Co. Name: AMEC Environment + Infrastructure
 Contact Person: Kelly Chatterton
 City: Wakefield State: MA
 Telephone #: 781-245-6606
 Project # 0652130009
 Address: 107 Audubon Rd.
 Zip: 01880 PO# 602202910
 Project Name (20 Char or less): Gorham Site, C-1, PH-III
 Email Address: Kelly.chatterton@amec.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
1	6-21-13	0920	X		S	SS-500-01	1	2	G	X
2	"	1000	X		S	SS-500-02	1	2	G	X
3	"	1030	X		S	SS-501-01	1	2	G	X
4	"	1055	X		S	SS-501-02	1	2	G	X
5	"	1120	X		S	SS-502-01	1	2	G	X
6	"	1130	X		S	SS-502-02	1	1	G	X
01	"	1200	X		S	SS-503-01	1	2	G	X
02	"	1210	X		S	SS-503-02	1	1	G	X
03	"	1325	X		S	SS-504-01	1	2	G	X
04	"	1340	X		S	SS-504-02	1	1	G	X

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-SD-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only

Seals Intact Yes No NA: Pickup

Cooler Temp: 4.3°C 6/21/13

Relinquished by: (Signature) Date/Time 6-21-13 1700 Received by: (Signature) Date/Time 6/21/13

Relinquished by: (Signature) Date/Time 6/21/13 1700 Received by: (Signature) Date/Time 6/21/13

Sampled by: PSM/MAM/Dwight Hold time

Comments: 1 Sample off Hdd for PAH & Metals

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A. Please fax all changes to Chain of Custody in writing. 1 (White) Lab Copy 2 (Yellow) Client Review

Metals Data Package

Metals Sample Data

ESS Laboratory

SDG: 1307061
CLASS: METALS
METHOD: 6010B

ANALYSES DATA PACKAGE COVER PAGE

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Client Sample Id:

SS-503-01

SS-503-02

SS-504-01

SS-504-02

Lab Sample Id:

1307061-01

1307061-02

1307061-03

1307061-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____

Name: _____

Date: _____

Title: _____

METHOD DETECTION AND REPORTING LIMITS

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Instrument: ICP3

Analyte	MDL	MRL	Units
Aluminum	2.2	6.7	mg/kg
Arsenic	0.6	3.3	mg/kg
Calcium	9.10	33.3	mg/kg
Iron	2.1	6.7	mg/kg
Lead	0.3	6.7	mg/kg
Magnesium	4.03	13.3	mg/kg

INORGANIC ANALYSIS DATA SHEET

6010B

SS-504-01

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1307061-03

File ID: 070513NA-047

Sampled: 06/21/13 13:25

Prepared: 07/03/13 11:53

Analyzed: 07/05/13 15:05

Solids: 95.30

Preparation: 3050B

Initial/Final: 2.19 g / 100 ml

Batch: CG30304

Sequence: CWG0223

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	3.7	1		6010B
7439-92-1	Lead	45.6	1		6010B

INORGANIC ANALYSIS DATA SHEET

SS-504-02

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Soil

Laboratory ID: 1307061-04

File ID: 070513NA-048

Sampled: 06/21/13 13:40

Prepared: 07/03/13 11:53

Analyzed: 07/05/13 15:09

Solids: 89.57

Preparation: 3050B

Initial/Final: 2.09 g / 100 ml

Batch: CG30304

Sequence: CWG0223

Calibration: UNASSIGNED

Instrument: ICP3

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7440-38-2	Arsenic	5.1	1		6010B
7439-92-1	Lead	78.0	1		6010B

Metals Quality Control Data

PREPARATION BATCH SUMMARY

6010B

Laboratory: ESS Laboratory SDG: 1307061
Client: AMEC Environmental and Infrastructure - KPB Project: Gorham Site C-1 Phase III
Batch: CG30304 Batch Matrix: Solid Preparation: 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SS-503-01	1307061-01	070513NA-045	07/03/13 11:53	Data Package
SS-503-02	1307061-02	070513NA-046	07/03/13 11:53	Data Package
SS-504-01	1307061-03	070513NA-047	07/03/13 11:53	Data Package
SS-504-02	1307061-04	070513NA-048	07/03/13 11:53	Data Package
Blank	CG30304-BLK1	070513NA-022	07/03/13 11:53	
LCS	CG30304-BS1	070513NA-023	07/03/13 11:53	
LCS Dup	CG30304-BSD1	070513NA-024	07/03/13 11:53	

Metals Calibration Data

**BLANKS
6010B**

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0223

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
CWG0223-ICB1	Aluminum	0.032	0.1	mg/L		6010B
	Arsenic	0.010	0.05	mg/L		6010B
	Calcium	0.038	0.50	mg/L		6010B
	Iron	0.018	0.1	mg/L		6010B
	Lead	0.0003	0.1	mg/L		6010B
	Magnesium	0.029	0.20	mg/L		6010B
CWG0223-CCB1	Aluminum	0.02	0.1	mg/L		6010B
	Arsenic	0.01	0.05	mg/L		6010B
	Calcium	0.03	0.50	mg/L		6010B
	Iron	0.01	0.1	mg/L		6010B
	Lead	0.0002	0.1	mg/L		6010B
	Magnesium	0.03	0.20	mg/L		6010B
CG30304-BLK1	Aluminum	1.0	5.0	mg/kg wet		6010B
	Arsenic	0.3	2.5	mg/kg wet		6010B
	Calcium	11.7	25.0	mg/kg wet		6010B
	Iron	2.5	5.0	mg/kg wet		6010B
	Lead	-0.07	5.0	mg/kg wet		6010B
	Magnesium	1.89	9.98	mg/kg wet		6010B
CWG0223-CCB2	Aluminum	0.02	0.1	mg/L		6010B
	Arsenic	0.005	0.05	mg/L		6010B
	Calcium	0.03	0.50	mg/L		6010B
	Iron	0.02	0.1	mg/L		6010B
	Lead	-0.001	0.1	mg/L		6010B
	Magnesium	0.03	0.20	mg/L		6010B
CWG0223-CCB3	Aluminum	0.02	0.1	mg/L		6010B
	Arsenic	0.009	0.05	mg/L		6010B
	Calcium	0.04	0.50	mg/L		6010B
	Iron	0.01	0.1	mg/L		6010B
	Lead	-0.002	0.1	mg/L		6010B
	Magnesium	0.03	0.20	mg/L		6010B
CWG0223-CCB4	Aluminum	0.03	0.1	mg/L		6010B
	Arsenic	0.006	0.05	mg/L		6010B
	Calcium	0.04	0.50	mg/L		6010B

BLANKS
6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0223

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
CWG0223-CCB4	Iron	0.02	0.1	mg/L		6010B
	Lead	0.0009	0.1	mg/L		6010B
	Magnesium	0.02	0.20	mg/L		6010B

INITIAL AND CONTINUING CALIBRATION CHECK

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Control Limit: +/- 10.00%

Sequence: CWG0223

Lab Sample ID	Analyte	True	Found	%R	Units	Method
CWG0223-ICV1	Aluminum	2.500	2.44	98	mg/L	6010B
	Arsenic	0.5000	0.485	97	mg/L	6010B
	Calcium	5.000	4.83	97	mg/L	6010B
	Iron	2.500	2.40	96	mg/L	6010B
	Lead	0.5000	0.496	99	mg/L	6010B
	Magnesium	5.000	4.85	97	mg/L	6010B
CWG0223-CCV1	Aluminum	2.500	2.38	95	mg/L	6010B
	Arsenic	0.5000	0.464	93	mg/L	6010B
	Calcium	5.000	4.51	90	mg/L	6010B
	Iron	2.500	2.36	94	mg/L	6010B
	Lead	0.5000	0.469	94	mg/L	6010B
	Magnesium	5.000	4.67	93	mg/L	6010B
CWG0223-CCV2	Aluminum	2.500	2.44	98	mg/L	6010B
	Arsenic	0.5000	0.495	99	mg/L	6010B
	Calcium	5.000	4.82	96	mg/L	6010B
	Iron	2.500	2.50	100	mg/L	6010B
	Lead	0.5000	0.493	99	mg/L	6010B
	Magnesium	5.000	4.83	97	mg/L	6010B
CWG0223-CCV3	Aluminum	2.500	2.38	95	mg/L	6010B
	Arsenic	0.5000	0.466	93	mg/L	6010B
	Calcium	5.000	4.57	91	mg/L	6010B
	Iron	2.500	2.42	97	mg/L	6010B
	Lead	0.5000	0.469	94	mg/L	6010B
	Magnesium	5.000	4.72	94	mg/L	6010B
CWG0223-CCV4	Aluminum	2.500	2.35	94	mg/L	6010B
	Arsenic	0.5000	0.463	93	mg/L	6010B
	Calcium	5.000	4.68	94	mg/L	6010B
	Iron	2.500	2.38	95	mg/L	6010B
	Lead	0.5000	0.476	95	mg/L	6010B
	Magnesium	5.000	4.71	94	mg/L	6010B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0223

Lab Sample ID	Analyte	True	Found	%R	Units
CWG0223-IFA1	Aluminum	250.0	261.4062	105	mg/L
	Aluminum	250.0	261.4062	105	mg/L
	Arsenic		0.0142		mg/L
	Arsenic		0.0142		mg/L
	Calcium	250.0	244.9885	98	mg/L
	Calcium	250.0	244.9885	98	mg/L
	Iron	100.0	97.1672	97	mg/L
	Iron	100.0	97.1672	97	mg/L
	Lead		0.0030		mg/L
	Lead		0.0030		mg/L
	Magnesium	250.0	250.7209	100	mg/L
	Magnesium	250.0	250.7209	100	mg/L
CWG0223-IFB1	Aluminum	250.0	264.8339	106	mg/L
	Aluminum	250.0	264.8339	106	mg/L
	Arsenic		0.0113		mg/L
	Arsenic		0.0113		mg/L
	Calcium	250.0	248.2621	99	mg/L
	Calcium	250.0	248.2621	99	mg/L
	Iron	100.0	102.2693	102	mg/L
	Iron	100.0	102.2693	102	mg/L
	Lead	0.5000	0.5032	101	mg/L
	Lead	0.5000	0.5032	101	mg/L
	Magnesium	250.0	253.5593	101	mg/L
	Magnesium	250.0	253.5593	101	mg/L

* Values outside of QC limits

CRDL STANDARD

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0223

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
CWG0223-CRL1	Aluminum	0.2500	0.275	110	mg/L	70 - 130
	Aluminum	0.2500	0.275	110	mg/L	70 - 130
	Arsenic	0.05000	0.057	114	mg/L	70 - 130
	Arsenic	0.05000	0.057	114	mg/L	70 - 130
	Calcium	0.5000	0.548	110	mg/L	70 - 130
	Calcium	0.5000	0.548	110	mg/L	70 - 130
	Iron	0.2500	0.278	111	mg/L	70 - 130
	Iron	0.2500	0.278	111	mg/L	70 - 130
	Lead	0.05000	0.053	105	mg/L	70 - 130
	Lead	0.05000	0.053	105	mg/L	70 - 130
	Magnesium	0.5000	0.547	109	mg/L	70 - 130
	Magnesium	0.5000	0.547	109	mg/L	70 - 130
CWG0223-CRL2	Aluminum	0.1000	0.111	111	mg/L	70 - 130
	Aluminum	0.1000	0.111	111	mg/L	70 - 130
	Arsenic	0.02000	0.030	148 *	mg/L	70 - 130
	Arsenic	0.02000	0.030	148 *	mg/L	70 - 130
	Calcium	0.2000	0.239	120	mg/L	70 - 130
	Calcium	0.2000	0.239	120	mg/L	70 - 130
	Iron	0.1000	0.119	119	mg/L	70 - 130
	Iron	0.1000	0.119	119	mg/L	70 - 130
	Lead	0.02000	0.019	96	mg/L	70 - 130
	Lead	0.02000	0.019	96	mg/L	70 - 130
	Magnesium	0.2000	0.227	114	mg/L	70 - 130
	Magnesium	0.2000	0.227	114	mg/L	70 - 130
CWG0223-CRL3	Aluminum	0.05000	0.069	138 *	mg/L	70 - 130
	Aluminum	0.05000	0.069	138 *	mg/L	70 - 130
	Arsenic	0.01000	0.020	199 *	mg/L	70 - 130
	Arsenic	0.01000	0.020	199 *	mg/L	70 - 130

CRDL STANDARD

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Instrument ID: ICP3

Calibration: UNASSIGNED

Sequence: CWG0223

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limits
CWG0223-CRL3	Calcium	0.1000	0.136	136 *	mg/L	70 - 130
	Calcium	0.1000	0.136	136 *	mg/L	70 - 130
	Iron	0.05000	0.064	129	mg/L	70 - 130
	Iron	0.05000	0.064	129	mg/L	70 - 130
	Lead	0.01000	0.010	97	mg/L	70 - 130
	Lead	0.01000	0.010	97	mg/L	70 - 130
	Magnesium	0.1000	0.125	125	mg/L	70 - 130
	Magnesium	0.1000	0.125	125	mg/L	70 - 130

* Values outside of QC limits

Seq.	Loc.	Sample ID
1	1	CAL1
2	2	CAL2
3	3	CAL3
4	4	CAL4
5	3	CCV1
6	1	CCB1
7	9	1306536-02
8	10	1307030-17
9	11	1307030-17 @3
10	12	CG30304-BLK1
11	13	CG30304-BS1
12	14	CG30304-BSD1
13	15	1307036-01
14	16	1307036-03
15	17	CG30304-DUP1
16	18	CG30304-MS1
17	3	CCV1
18	1	CCB1
19	19	CG30304-SD1 @5
20	20	CG30304-PDS1
21	21	1307053-01
22	22	1307053-02
23	23	1307053-03
24	24	1307053-04
25	25	1307053-05
26	26	1307053-06
27	27	1307053-07
28	28	1307053-08
29	3	CCV1
30	1	CCB1
31	29	1307053-09
32	30	1307053-10
33	31	1307061-01
34	32	1307061-02
35	33	1307061-03
36	34	1307061-04
37	35	1307065-01
38	36	1307065-02
39	3	CCV1
40	1	CCB1
41	37	1307072-01
42	38	CG30304-DUP2
43	39	CG30304-MS2
44	40	CG30304-SD2 @5
45	41	CG30304-PDS2
46	42	1307072-02
47	43	CG30305-BLK1
48	44	CG30305-BS1
49	45	CG30305-BSD1
50	3	CCV1
51	1	CCB1
52	46	1307073-01
53	47	CG30305-DUP1
54	48	CG30305-MS1
55	49	CG30305-SD1 @5
56	50	CG30305-PDS1
57	51	1307073-02
58	52	1307073-03

Seq.	Loc.	Sample ID
59	53	1307073-04
60	54	1307073-05
61	55	1307073-06
62	3	CCV1
63	1	CCB1
64	56	1307073-07
65	57	1307073-08
66	58	1307073-09
67	59	1307073-10
68	60	1307073-11
69	61	1307073-12
70	62	CG30305-DUP2
71	63	CG30305-MS2
72	64	CG30305-SD2 @5
73	65	CG30305-PDS2
74	3	CCV1
75	1	CCB1
76	66	1307030-18 @3
77	67	1307031-04 @10
78	68	CG30242-DUP2 @10
79	69	CG30242-MS2 @10
80	70	CG30242-SD2 @50
81	71	CG30242-PDS2 @10
82	3	CCV1
83	1	CCB1
84	160	IFA
85	159	IFB
86	0	WASH
87	3	CCV1
88	1	CCB1
89	72	CF30507-BLK1
90	73	CG30507-BS1
91	74	CG30507-BSD1
92	75	1307037-01
93	76	1307074-01
94	77	CG30507-DUP1
95	78	CG30507-MS1
96	79	CG30507-SD1 @5
97	80	CG30507-PDS1
98	81	1307078-01
99	3	CCV1
100	1	CCB1
101	82	1307106-01
102	83	1307107-01
103	84	CF30507-BLK2
104	85	1307097-01
105	86	1307097-02
106	87	CG30508-BLK1
107	88	CG30508-BS1
108	89	CG30508-BSD1
109	90	1307080-01
110	91	CG30508-DUP1
111	3	CCV1
112	1	CCB1
113	92	CG30508-MS1
114	93	CG30508-SD1 @5
115	94	CG30508-PDS1
116	95	1307080-02

Seq.	Loc.	Sample ID
117	96	1307080-03
118	97	1307080-05
119	98	1307081-03
120	99	1307081-04
121	100	1307081-05
122	101	1307100-04
123	3	CCV1
124	1	CCB1
125	102	1307100-05
126	103	1307104-01
127	104	1307104-02
128	105	1307104-03
129	106	1307104-04
130	107	1307104-05
131	108	1307104-06
132	109	1307105-01
133	110	1307105-02
134	111	CG30508-DUP2
135	3	CCV1
136	1	CCB1
137	112	CG30508-MS2
138	113	CG30508-SD2 @5
139	114	CG30508-PDS2
140	115	1307105-03
141	116	1307105-04
142	117	CG30508-F. BLK.
143	118	CF30510-BLK1
144	119	CF30510-BS1
145	120	CF30510-BSD1
146	121	1307090-01
147	3	CCV1
148	1	CCB1
149	122	1307090-02
150	123	CF30510-DUP1
151	124	CF30510-MS1
152	125	CF30510-SD1 @5
153	126	CF30510-PDS1
154	127	1307090-03
155	128	1307090-04
156	129	1307090-05
157	130	1307090-06
158	131	1307090-07
159	3	CCV1
160	1	CCB1
161	132	1307090-08
162	133	1307090-09
163	134	1307090-10
164	135	1307090-11
165	136	1307090-12
166	137	1307090-13
167	138	1307090-14
168	139	1307090-15
169	140	1307090-16
170	141	1307090-17
171	3	CCV1
172	1	CCB1
173	142	1307090-18
174	143	CF30510-DUP2
















Analytical Sequence

Method : Everything - DV

Seq.	Loc.	Sample ID
175	144	CF30510-MS2
176	145	CF30510-SD2 @5
177	146	CF30510-PDS2
178	147	1307090-19
179	148	CF30511-BLK1
180	149	CF30511-BS1
181	150	CF30511-BSD1
182	151	1307093-01
183	3	CCV1
184	1	CCB1
185	152	CF30511-DUP1
186	153	CF30511-MS1
187	154	CF30511-SD1 @5
188	155	CF30511-PDS1
189	9	1307093-02
190	10	1307093-03
191	11	1307101-01
192	12	1307101-02
193	13	1307101-03
194	14	1307101-04
195	3	CCV1
196	1	CCB1
197	15	1307101-05
198	16	1307101-06
199	17	1307101-07
200	18	1307101-08
201	19	1307101-09
202	20	CF30511-DUP2
203	21	CF30511-MS2
204	22	CF30511-SD2 @5
205	23	CF30511-PDS2
206	24	1307101-10
207	3	CCV1
208	1	CCB1
209	160	IFA
210	159	IFB
211	0	WASH

Analytical Sequence

Method : Everything - DV

Seq.	Loc.		Sample ID
1	1		CAL1
2	2		CAL2
3	3		CAL3
4	4		CAL4
5	3		ICV1
6	5		SCV1
7	1		ICB1
8	6		CRL1
9	7		CRL2
10	8		CRL3
11	160		IFA
12	159		IFB
13	156		Ca 500
14	157		Fe 250
15	0		WASH

=====
Analysis Begun

Start Time: 7/5/2013 8:13:53 AM Plasma On Time: 7/5/2013 7:36:06 AM
Logged In Analyst: ICP3 Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1032302 Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\00dailycal.sif
Batch ID:
Results Data Set: 070513NA
Results Library: C:\pe\ICP3\Results\Results.mdb

=====
Method Loaded

Method Name: Everything - DV Method Last Saved: 7/2/2013 12:29:56 PM
IEC File: 042613NA.iec MSF File:
Method Description: Everything

=====
Sequence No.: 1 Autosampler Location: 1
Sample ID: CAL1 Date Collected: 7/5/2013 8:13:53 AM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CAL1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	B 249.677†	-8.3	-8.2	[0.00] mg/L		08:15:47
1	Fe 234.349†	1.1	1.1	[0.00] mg/L		08:15:47
1	K 766.490†	793.4	789.6	[0.00] mg/L		08:15:37
1	Li 670.784†	-258.2	-257.0	[0.00] mg/L		08:15:37
1	Na 589.592†	417.6	415.6	[0.00] mg/L		08:15:37
1	Sr 407.771†	123.6	123.0	[0.00] mg/L		08:15:37
1	Y 371.029	2714077.2	2714077.2	1.00 mg/L		08:16:03
1	Ag 328.068†	1854.0	1845.1	[0.00] mg/L		08:16:06
1	Al 237.313†	-417.8	-415.8	[0.00] mg/L		08:16:06
1	As 188.979†	-5.8	-5.8	[0.00] mg/L		08:16:16
1	B 182.528†	-9.0	-9.0	[0.00] mg/L		08:16:16
1	Ba 233.527†	-93.1	-92.6	[0.00] mg/L		08:16:16
1	Be 313.107†	-1506.2	-1498.9	[0.00] mg/L		08:16:06
1	Ca 315.887†	-1886.6	-1877.6	[0.00] mg/L		08:16:06
1	Cd 228.802†	160.8	160.0	[0.00] mg/L		08:16:16
1	Co 228.616†	-236.9	-235.8	[0.00] mg/L		08:16:16
1	Cr 267.716†	555.2	552.5	[0.00] mg/L		08:16:06
1	Cu 324.752†	4748.9	4726.0	[0.00] mg/L		08:16:06
1	Mg 279.077†	24.7	24.6	[0.00] mg/L		08:16:06
1	Mn 257.610†	16054.8	15977.6	[0.00] mg/L		08:16:06
1	Mn 294.920†	-1223.5	-1217.6	[0.00] mg/L		08:16:06
1	Mo 202.031†	44.7	44.5	[0.00] mg/L		08:16:16
1	Ni 231.604†	172.4	171.6	[0.00] mg/L		08:16:06
1	P 214.914†	-26.3	-26.2	[0.00] mg/L		08:16:16
1	Pb 220.353†	191.3	190.4	[0.00] mg/L		08:16:16
1	Sb 206.836†	48.5	48.3	[0.00] mg/L		08:16:16
1	Se 196.026†	2.5	2.5	[0.00] mg/L		08:16:16
1	Sn 189.927†	31.6	31.4	[0.00] mg/L		08:16:16
1	Ti 337.279†	-619.4	-616.4	[0.00] mg/L		08:16:06
1	Tl 190.801†	-6.7	-6.7	[0.00] mg/L		08:16:16
1	V 292.402†	-295.7	-294.3	[0.00] mg/L		08:16:06
1	Zn 213.857†	1120.0	1114.6	[0.00] mg/L		08:16:16
2	B 249.677†	-4.7	-4.8	[0.00] mg/L		08:16:00
2	Fe 234.349†	12.4	12.5	[0.00] mg/L		08:16:00
2	K 766.490†	842.1	846.2	[0.00] mg/L		08:15:50
2	Li 670.784†	-213.2	-214.3	[0.00] mg/L		08:15:50
2	Na 589.592†	541.2	543.8	[0.00] mg/L		08:15:50
2	Sr 407.771†	18.0	18.1	[0.00] mg/L		08:15:50
2	Y 371.029	2687993.8	2687993.8	0.995 mg/L		08:16:18
2	Ag 328.068†	1876.1	1885.2	[0.00] mg/L		08:16:20
2	Al 237.313†	-442.9	-445.0	[0.00] mg/L		08:16:20
2	As 188.979†	-7.5	-7.5	[0.00] mg/L		08:16:31

2	B 182.528†	-10.1	-10.1	[0.00]	mg/L	08:16:31
2	Ba 233.527†	-100.9	-101.4	[0.00]	mg/L	08:16:31
2	Be 313.107†	-1370.4	-1377.1	[0.00]	mg/L	08:16:20
2	Ca 315.887†	-1864.5	-1873.6	[0.00]	mg/L	08:16:20
2	Cd 228.802†	157.3	158.1	[0.00]	mg/L	08:16:31
2	Co 228.616†	-246.6	-247.8	[0.00]	mg/L	08:16:31
2	Cr 267.716†	577.1	579.9	[0.00]	mg/L	08:16:20
2	Cu 324.752†	4856.2	4879.7	[0.00]	mg/L	08:16:20
2	Mg 279.077†	-17.6	-17.7	[0.00]	mg/L	08:16:20
2	Mn 257.610†	16089.4	16167.5	[0.00]	mg/L	08:16:20
2	Mn 294.920†	-1440.0	-1447.0	[0.00]	mg/L	08:16:20
2	Mo 202.031†	27.2	27.3	[0.00]	mg/L	08:16:31
2	Ni 231.604†	143.8	144.5	[0.00]	mg/L	08:16:20
2	P 214.914†	-27.8	-27.9	[0.00]	mg/L	08:16:31
2	Pb 220.353†	173.0	173.8	[0.00]	mg/L	08:16:31
2	Sb 206.836†	47.2	47.4	[0.00]	mg/L	08:16:31
2	Se 196.026†	19.2	19.3	[0.00]	mg/L	08:16:31
2	Sn 189.927†	27.1	27.2	[0.00]	mg/L	08:16:31
2	Ti 337.279†	-620.1	-623.2	[0.00]	mg/L	08:16:20
2	Tl 190.801†	-2.9	-2.9	[0.00]	mg/L	08:16:31
2	V 292.402†	-400.3	-402.3	[0.00]	mg/L	08:16:20
2	Zn 213.857†	1170.6	1176.2	[0.00]	mg/L	08:16:31

Mean Data: CAL1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units	Calib
Y 371.029	2701035.5	18443.79	0.68%	1.00	mg/L	
Ag 328.068†	1865.2	28.35	1.52%	[0.00]	mg/L	
Al 237.313†	-430.4	20.67	4.80%	[0.00]	mg/L	
As 188.979†	-6.6	1.21	18.17%	[0.00]	mg/L	
B 249.677†	-6.5	2.44	37.55%	[0.00]	mg/L	
B 182.528†	-9.6	0.81	8.51%	[0.00]	mg/L	
Ba 233.527†	-97.0	6.23	6.42%	[0.00]	mg/L	
Be 313.107†	-1438.0	86.18	5.99%	[0.00]	mg/L	
Ca 315.887†	-1875.6	2.82	0.15%	[0.00]	mg/L	
Cd 228.802†	159.0	1.34	0.84%	[0.00]	mg/L	
Co 228.616†	-241.8	8.46	3.50%	[0.00]	mg/L	
Cr 267.716†	566.2	19.36	3.42%	[0.00]	mg/L	
Cu 324.752†	4802.9	108.67	2.26%	[0.00]	mg/L	
Fe 234.349†	6.8	8.06	118.79%	[0.00]	mg/L	
K 766.490†	817.9	40.02	4.89%	[0.00]	mg/L	
Li 670.784†	-235.6	30.20	12.82%	[0.00]	mg/L	
Mg 279.077†	3.4	29.88	867.06%	[0.00]	mg/L	
Mn 257.610†	16072.5	134.24	0.84%	[0.00]	mg/L	
Mn 294.920†	-1332.3	162.15	12.17%	[0.00]	mg/L	
Mo 202.031†	35.9	12.14	33.78%	[0.00]	mg/L	
Na 589.592†	479.7	90.64	18.89%	[0.00]	mg/L	
Ni 231.604†	158.0	19.14	12.11%	[0.00]	mg/L	
P 214.914†	-27.1	1.22	4.49%	[0.00]	mg/L	
Pb 220.353†	182.1	11.70	6.43%	[0.00]	mg/L	
Sb 206.836†	47.8	0.65	1.35%	[0.00]	mg/L	
Se 196.026†	10.9	11.91	109.18%	[0.00]	mg/L	
Sn 189.927†	29.3	3.01	10.28%	[0.00]	mg/L	
Sr 407.771†	70.6	74.17	105.11%	[0.00]	mg/L	
Ti 337.279†	-619.8	4.75	0.77%	[0.00]	mg/L	
Tl 190.801†	-4.8	2.71	56.49%	[0.00]	mg/L	
V 292.402†	-348.3	76.36	21.92%	[0.00]	mg/L	
Zn 213.857†	1145.4	43.59	3.81%	[0.00]	mg/L	

Sequence No.: 2

Sample ID: CAL2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 7/5/2013 8:18:08 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CAL2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Units	Calib.	Analysis Time
1	B 249.677†	184.5	191.8	[0.1000]	mg/L		08:19:57
1	Fe 234.349†	795.4	792.2	[0.5000]	mg/L		08:19:57

1	K 766.490†	10205.3	9433.1	[5.0000]	mg/L	08:19:47
1	Li 670.784†	3416.2	3667.1	[0.1000]	mg/L	08:19:47
1	Na 589.592†	28953.2	28603.1	[5.0000]	mg/L	08:19:47
1	Sr 407.771†	8836.7	8805.7	[0.0100]	mg/L	08:19:47
1	Y 371.029	2689000.3	2689000.3	0.996	mg/L	08:20:13
1	Ag 328.068†	11172.1	9356.9	[0.0500]	mg/L	08:20:16
1	Al 237.313†	4256.8	4706.2	[0.5000]	mg/L	08:20:26
1	As 188.979†	132.5	139.7	[0.1000]	mg/L	08:20:26
1	B 182.528†	93.4	103.4	[0.1000]	mg/L	08:20:26
1	Ba 233.527†	11758.3	11907.9	[0.1000]	mg/L	08:20:16
1	Be 313.107†	21923.6	23459.7	[0.0100]	mg/L	08:20:16
1	Ca 315.887†	93065.4	95357.5	[1.0000]	mg/L	08:20:16
1	Cd 228.802†	1820.2	1669.3	[0.0500]	mg/L	08:20:26
1	Co 228.616†	5063.9	5328.3	[0.1000]	mg/L	08:20:26
1	Cr 267.716†	12377.3	11866.5	[0.1000]	mg/L	08:20:16
1	Cu 324.752†	23730.5	19033.9	[0.1000]	mg/L	08:20:16
1	Mg 279.077†	12961.5	13016.0	[1.0000]	mg/L	08:20:16
1	Mn 257.610†	98147.2	82514.0	[0.1000]	mg/L	08:20:16
1	Mn 294.920†	39436.0	40944.8	[0.1000]	mg/L	08:20:16
1	Mo 202.031†	2453.1	2428.2	[0.1000]	mg/L	08:20:26
1	Ni 231.604†	4899.1	4762.9	[0.1000]	mg/L	08:20:16
1	P 214.914†	1555.7	1589.8	[1.0000]	mg/L	08:20:26
1	Pb 220.353†	1645.8	1471.0	[0.1000]	mg/L	08:20:26
1	Sb 206.836†	255.6	208.9	[0.1000]	mg/L	08:20:26
1	Se 196.026†	318.6	309.1	[0.2000]	mg/L	08:20:26
1	Sn 189.927†	749.8	723.8	[0.1000]	mg/L	08:20:26
1	Ti 337.279†	85985.3	86989.9	[0.1000]	mg/L	08:20:16
1	Tl 190.801†	101.2	106.4	[0.1000]	mg/L	08:20:26
1	V 292.402†	22072.9	22520.0	[0.1000]	mg/L	08:20:16
1	Zn 213.857†	15198.0	14120.6	[0.1000]	mg/L	08:20:16
2	B 249.677†	176.5	185.2	[0.1000]	mg/L	08:20:10
2	Fe 234.349†	799.3	802.5	[0.5000]	mg/L	08:20:10
2	K 766.490†	10129.2	9438.1	[5.0000]	mg/L	08:20:00
2	Li 670.784†	3544.2	3824.1	[0.1000]	mg/L	08:20:00
2	Na 589.592†	28962.7	28845.3	[5.0000]	mg/L	08:20:00
2	Sr 407.771†	8843.6	8883.7	[0.0100]	mg/L	08:20:00
2	Y 371.029	2667665.3	2667665.3	0.988	mg/L	08:20:28
2	Ag 328.068†	11213.6	9488.8	[0.0500]	mg/L	08:20:31
2	Al 237.313†	4212.6	4695.8	[0.5000]	mg/L	08:20:41
2	As 188.979†	130.3	138.6	[0.1000]	mg/L	08:20:41
2	B 182.528†	89.4	100.1	[0.1000]	mg/L	08:20:41
2	Ba 233.527†	11769.8	12014.0	[0.1000]	mg/L	08:20:31
2	Be 313.107†	22006.1	23719.3	[0.0100]	mg/L	08:20:31
2	Ca 315.887†	93358.8	96402.2	[1.0000]	mg/L	08:20:31
2	Cd 228.802†	1812.3	1675.9	[0.0500]	mg/L	08:20:41
2	Co 228.616†	5058.9	5364.0	[0.1000]	mg/L	08:20:41
2	Cr 267.716†	12460.6	12050.3	[0.1000]	mg/L	08:20:31
2	Cu 324.752†	23834.1	19329.3	[0.1000]	mg/L	08:20:31
2	Mg 279.077†	13072.7	13232.8	[1.0000]	mg/L	08:20:31
2	Mn 257.610†	98590.9	83751.7	[0.1000]	mg/L	08:20:31
2	Mn 294.920†	39524.0	41350.7	[0.1000]	mg/L	08:20:31
2	Mo 202.031†	2433.8	2428.4	[0.1000]	mg/L	08:20:41
2	Ni 231.604†	4899.4	4802.7	[0.1000]	mg/L	08:20:31
2	P 214.914†	1571.3	1618.1	[1.0000]	mg/L	08:20:41
2	Pb 220.353†	1696.3	1535.4	[0.1000]	mg/L	08:20:41
2	Sb 206.836†	265.2	220.6	[0.1000]	mg/L	08:20:41
2	Se 196.026†	312.7	305.7	[0.2000]	mg/L	08:20:41
2	Sn 189.927†	764.5	744.8	[0.1000]	mg/L	08:20:41
2	Ti 337.279†	86261.8	87960.6	[0.1000]	mg/L	08:20:31
2	Tl 190.801†	102.8	108.9	[0.1000]	mg/L	08:20:41
2	V 292.402†	22123.3	22748.4	[0.1000]	mg/L	08:20:31
2	Zn 213.857†	15261.9	14307.4	[0.1000]	mg/L	08:20:31

Mean Data: CAL2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2678332.8	15086.17	0.56%	0.992	mg/L
Ag 328.068†	9422.9	93.22	0.99%	[0.0500]	mg/L
Al 237.313†	4701.0	7.41	0.16%	[0.5000]	mg/L
As 188.979†	139.1	0.79	0.57%	[0.1000]	mg/L
B 249.677†	188.5	4.71	2.50%	[0.1000]	mg/L
B 182.528†	101.7	2.32	2.28%	[0.1000]	mg/L

Ba	233.527†	11961.0	75.03	0.63%	[0.1000]	mg/L
Be	313.107†	23589.5	183.57	0.78%	[0.0100]	mg/L
Ca	315.887†	95879.9	738.68	0.77%	[1.0000]	mg/L
Cd	228.802†	1672.6	4.70	0.28%	[0.0500]	mg/L
Co	228.616†	5346.2	25.22	0.47%	[0.1000]	mg/L
Cr	267.716†	11958.4	129.94	1.09%	[0.1000]	mg/L
Cu	324.752†	19181.6	208.93	1.09%	[0.1000]	mg/L
Fe	234.349†	797.4	7.30	0.92%	[0.5000]	mg/L
K	766.490†	9435.6	3.50	0.04%	[5.0000]	mg/L
Li	670.784†	3745.6	111.07	2.97%	[0.1000]	mg/L
Mg	279.077†	13124.4	153.27	1.17%	[1.0000]	mg/L
Mn	257.610†	83132.8	875.19	1.05%	[0.1000]	mg/L
Mn	294.920†	41147.8	287.06	0.70%	[0.1000]	mg/L
Mo	202.031†	2428.3	0.12	0.01%	[0.1000]	mg/L
Na	589.592†	28724.2	171.26	0.60%	[5.0000]	mg/L
Ni	231.604†	4782.8	28.09	0.59%	[0.1000]	mg/L
P	214.914†	1603.9	19.99	1.25%	[1.0000]	mg/L
Pb	220.353†	1503.2	45.53	3.03%	[0.1000]	mg/L
Sb	206.836†	214.8	8.29	3.86%	[0.1000]	mg/L
Se	196.026†	307.4	2.40	0.78%	[0.2000]	mg/L
Sn	189.927†	734.3	14.81	2.02%	[0.1000]	mg/L
Sr	407.771†	8844.7	55.15	0.62%	[0.0100]	mg/L
Ti	337.279†	87475.3	686.39	0.78%	[0.1000]	mg/L
Tl	190.801†	107.7	1.75	1.63%	[0.1000]	mg/L
V	292.402†	22634.2	161.50	0.71%	[0.1000]	mg/L
Zn	213.857†	14214.0	132.14	0.93%	[0.1000]	mg/L

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Sequence No.: 3                               Autosampler Location: 3
Sample ID: CAL3                               Date Collected: 7/5/2013 8:22:18 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: CAL3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	B 249.677†	854.8	880.0	[0.5000]	mg/L	08:24:08
1	Fe 234.349†	3545.2	3616.0	[2.5000]	mg/L	08:24:08
1	K 766.490†	44144.9	44293.0	[25.000]	mg/L	08:23:58
1	Li 670.784†	16809.3	17412.7	[0.5000]	mg/L	08:23:58
1	Na 589.592†	131431.9	133828.2	[25.000]	mg/L	08:23:58
1	Sr 407.771†	40606.8	41424.8	[0.0500]	mg/L	08:23:58
1	Y 371.029	2643197.5	2643197.5	0.979	mg/L	08:24:26
1	Ag 328.068†	43760.9	42853.3	[0.2500]	mg/L	08:24:26
1	Al 237.313†	20959.5	21848.5	[2.5000]	mg/L	08:24:36
1	As 188.979†	635.5	656.0	[0.5000]	mg/L	08:24:36
1	B 182.528†	429.3	448.3	[0.5000]	mg/L	08:24:36
1	Ba 233.527†	53501.0	54768.7	[0.5000]	mg/L	08:24:26
1	Be 313.107†	103942.1	107654.5	[0.0500]	mg/L	08:24:26
1	Ca 315.887†	423869.8	435020.4	[5.0000]	mg/L	08:24:26
1	Cd 228.802†	7764.3	7775.1	[0.2500]	mg/L	08:24:36
1	Co 228.616†	23806.1	24568.9	[0.5000]	mg/L	08:24:36
1	Cr 267.716†	53928.4	54542.2	[0.5000]	mg/L	08:24:26
1	Cu 324.752†	90909.4	88095.8	[0.5000]	mg/L	08:24:26
1	Mg 279.077†	57828.8	59090.7	[5.0000]	mg/L	08:24:26
1	Mn 257.610†	380068.1	372312.2	[0.5000]	mg/L	08:24:26
1	Mn 294.920†	178544.1	183783.2	[0.5000]	mg/L	08:24:26
1	Mo 202.031†	11235.2	11445.1	[0.5000]	mg/L	08:24:36
1	Ni 231.604†	21181.9	21487.3	[0.5000]	mg/L	08:24:26
1	P 214.914†	7477.8	7668.5	[5.0000]	mg/L	08:24:36
1	Pb 220.353†	7015.7	6987.1	[0.5000]	mg/L	08:24:36
1	Sb 206.836†	1060.3	1035.7	[0.5000]	mg/L	08:24:36
1	Se 196.026†	1391.7	1411.2	[1.0000]	mg/L	08:24:36
1	Sn 189.927†	3303.1	3346.1	[0.5000]	mg/L	08:24:36
1	Ti 337.279†	395309.5	404579.3	[0.5000]	mg/L	08:24:26
1	Tl 190.801†	488.1	503.5	[0.5000]	mg/L	08:24:36
1	V 292.402†	101552.3	104122.7	[0.5000]	mg/L	08:24:26
1	Zn 213.857†	64763.8	65035.5	[0.5000]	mg/L	08:24:26
2	B 249.677†	847.9	863.5	[0.5000]	mg/L	08:24:21
2	Fe 234.349†	3525.9	3556.9	[2.5000]	mg/L	08:24:21
2	K 766.490†	43790.3	43441.6	[25.000]	mg/L	08:24:11

2	Li 670.784†	16614.8	17028.4	[0.5000]	mg/L	08:24:11
2	Na 589.592†	129620.5	130529.5	[25.000]	mg/L	08:24:11
2	Sr 407.771†	39991.6	40349.5	[0.0500]	mg/L	08:24:11
2	Y 371.029	2672402.5	2672402.5	0.989	mg/L	08:24:40
2	Ag 328.068†	44254.4	42863.4	[0.2500]	mg/L	08:24:40
2	Al 237.313†	20862.6	21516.6	[2.5000]	mg/L	08:24:50
2	As 188.979†	640.0	653.5	[0.5000]	mg/L	08:24:50
2	B 182.528†	439.2	453.4	[0.5000]	mg/L	08:24:50
2	Ba 233.527†	54146.4	54823.5	[0.5000]	mg/L	08:24:40
2	Be 313.107†	105738.9	108309.9	[0.0500]	mg/L	08:24:40
2	Ca 315.887†	429613.4	436092.0	[5.0000]	mg/L	08:24:40
2	Cd 228.802†	7745.3	7669.3	[0.2500]	mg/L	08:24:50
2	Co 228.616†	23660.2	24155.5	[0.5000]	mg/L	08:24:50
2	Cr 267.716†	54679.7	54699.3	[0.5000]	mg/L	08:24:40
2	Cu 324.752†	91645.8	87824.9	[0.5000]	mg/L	08:24:40
2	Mg 279.077†	58804.7	59431.3	[5.0000]	mg/L	08:24:40
2	Mn 257.610†	384823.9	372874.5	[0.5000]	mg/L	08:24:40
2	Mn 294.920†	180738.8	184007.6	[0.5000]	mg/L	08:24:40
2	Mo 202.031†	11167.5	11251.2	[0.5000]	mg/L	08:24:50
2	Ni 231.604†	21534.4	21607.1	[0.5000]	mg/L	08:24:40
2	P 214.914†	7448.2	7555.1	[5.0000]	mg/L	08:24:50
2	Pb 220.353†	7025.0	6918.2	[0.5000]	mg/L	08:24:50
2	Sb 206.836†	1050.1	1013.5	[0.5000]	mg/L	08:24:50
2	Se 196.026†	1376.3	1380.1	[1.0000]	mg/L	08:24:50
2	Sn 189.927†	3284.3	3290.2	[0.5000]	mg/L	08:24:50
2	Ti 337.279†	400495.2	405406.0	[0.5000]	mg/L	08:24:40
2	Tl 190.801†	485.9	495.9	[0.5000]	mg/L	08:24:50
2	V 292.402†	102495.0	103941.4	[0.5000]	mg/L	08:24:40
2	Zn 213.857†	65553.7	65110.6	[0.5000]	mg/L	08:24:40

Mean Data: CAL3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2657800.0	20651.06	0.78%	0.984	mg/L
Ag 328.068†	42858.4	7.14	0.02%	[0.2500]	mg/L
Al 237.313†	21682.5	234.74	1.08%	[2.5000]	mg/L
As 188.979†	654.8	1.73	0.26%	[0.5000]	mg/L
B 249.677†	871.8	11.69	1.34%	[0.5000]	mg/L
B 182.528†	450.9	3.63	0.80%	[0.5000]	mg/L
Ba 233.527†	54796.1	38.74	0.07%	[0.5000]	mg/L
Be 313.107†	107982.2	463.40	0.43%	[0.0500]	mg/L
Ca 315.887†	435556.2	757.72	0.17%	[5.0000]	mg/L
Cd 228.802†	7722.2	74.85	0.97%	[0.2500]	mg/L
Co 228.616†	24362.2	292.30	1.20%	[0.5000]	mg/L
Cr 267.716†	54620.8	111.06	0.20%	[0.5000]	mg/L
Cu 324.752†	87960.3	191.60	0.22%	[0.5000]	mg/L
Fe 234.349†	3586.4	41.75	1.16%	[2.5000]	mg/L
K 766.490†	43867.3	602.02	1.37%	[25.000]	mg/L
Li 670.784†	17220.6	271.74	1.58%	[0.5000]	mg/L
Mg 279.077†	59261.0	240.79	0.41%	[5.0000]	mg/L
Mn 257.610†	372593.3	397.61	0.11%	[0.5000]	mg/L
Mn 294.920†	183895.4	158.62	0.09%	[0.5000]	mg/L
Mo 202.031†	11348.1	137.12	1.21%	[0.5000]	mg/L
Na 589.592†	132178.9	2332.50	1.76%	[25.000]	mg/L
Ni 231.604†	21547.2	84.69	0.39%	[0.5000]	mg/L
P 214.914†	7611.8	80.20	1.05%	[5.0000]	mg/L
Pb 220.353†	6952.6	48.72	0.70%	[0.5000]	mg/L
Sb 206.836†	1024.6	15.70	1.53%	[0.5000]	mg/L
Se 196.026†	1395.7	21.97	1.57%	[1.0000]	mg/L
Sn 189.927†	3318.1	39.51	1.19%	[0.5000]	mg/L
Sr 407.771†	40887.1	760.38	1.86%	[0.0500]	mg/L
Ti 337.279†	404992.7	584.55	0.14%	[0.5000]	mg/L
Tl 190.801†	499.7	5.37	1.07%	[0.5000]	mg/L
V 292.402†	104032.1	128.18	0.12%	[0.5000]	mg/L
Zn 213.857†	65073.1	53.09	0.08%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: CAL4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 7/5/2013 8:26:29 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CAL4

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	B 249.677†	1741.8	1807.4	[1.0000]	mg/L	08:28:15
1	Fe 234.349†	7357.6	7600.5	[5.0000]	mg/L	08:28:15
1	K 766.490†	90298.5	92545.0	[50.000]	mg/L	08:28:13
1	Li 670.784†	35340.9	36775.8	[1.0000]	mg/L	08:28:13
1	Na 589.592†	268790.5	277432.4	[50.000]	mg/L	08:28:13
1	Sr 407.771†	83851.9	86626.9	[0.1000]	mg/L	08:28:13
1	Y 371.029	2612382.7	2612382.7	0.967	mg/L	08:28:25
1	Ag 328.068†	89651.0	90828.3	[0.5000]	mg/L	08:28:25
1	Al 237.313†	43485.2	45391.3	[5.0000]	mg/L	08:28:25
1	As 188.979†	1328.6	1380.3	[1.0000]	mg/L	08:28:35
1	B 182.528†	896.5	936.4	[1.0000]	mg/L	08:28:35
1	Ba 233.527†	111577.7	115461.2	[1.0000]	mg/L	08:28:25
1	Be 313.107†	219589.4	228479.3	[0.1000]	mg/L	08:28:25
1	Ca 315.887†	892178.6	924330.8	[10.000]	mg/L	08:28:25
1	Cd 228.802†	15711.9	16086.0	[0.5000]	mg/L	08:28:35
1	Co 228.616†	48335.8	50217.9	[1.0000]	mg/L	08:28:25
1	Cr 267.716†	112313.0	115558.2	[1.0000]	mg/L	08:28:25
1	Cu 324.752†	185775.0	187276.5	[1.0000]	mg/L	08:28:25
1	Mg 279.077†	120811.9	124908.3	[10.000]	mg/L	08:28:25
1	Mn 257.610†	772997.1	783156.7	[1.0000]	mg/L	08:28:25
1	Mn 294.920†	372398.5	386368.4	[1.0000]	mg/L	08:28:25
1	Mo 202.031†	22918.6	23660.5	[1.0000]	mg/L	08:28:35
1	Ni 231.604†	43930.7	45263.4	[1.0000]	mg/L	08:28:25
1	P 214.914†	15498.2	16051.2	[10.000]	mg/L	08:28:35
1	Pb 220.353†	13963.3	14255.1	[1.0000]	mg/L	08:28:35
1	Sb 206.836†	2122.5	2146.7	[1.0000]	mg/L	08:28:35
1	Se 196.026†	2847.8	2933.6	[2.0000]	mg/L	08:28:35
1	Sn 189.927†	6612.6	6807.7	[1.0000]	mg/L	08:28:35
1	Ti 337.279†	833046.4	861936.1	[1.0000]	mg/L	08:28:25
1	Tl 190.801†	1004.0	1042.9	[1.0000]	mg/L	08:28:35
1	V 292.402†	213542.9	221137.9	[1.0000]	mg/L	08:28:25
1	Zn 213.857†	133460.5	136844.1	[1.0000]	mg/L	08:28:25
2	B 249.677†	1748.6	1804.4	[1.0000]	mg/L	08:28:19
2	Fe 234.349†	7297.7	7496.9	[5.0000]	mg/L	08:28:19
2	K 766.490†	90148.6	91874.8	[50.000]	mg/L	08:28:17
2	Li 670.784†	35189.9	36418.6	[1.0000]	mg/L	08:28:17
2	Na 589.592†	268083.2	275168.9	[50.000]	mg/L	08:28:17
2	Sr 407.771†	83550.8	85838.1	[0.1000]	mg/L	08:28:17
2	Y 371.029	2626903.0	2626903.0	0.973	mg/L	08:28:39
2	Ag 328.068†	90104.0	90781.6	[0.5000]	mg/L	08:28:39
2	Al 237.313†	43789.9	45456.1	[5.0000]	mg/L	08:28:39
2	As 188.979†	1335.1	1379.4	[1.0000]	mg/L	08:28:49
2	B 182.528†	905.3	940.4	[1.0000]	mg/L	08:28:49
2	Ba 233.527†	112184.3	115447.2	[1.0000]	mg/L	08:28:39
2	Be 313.107†	221325.8	229009.7	[0.1000]	mg/L	08:28:39
2	Ca 315.887†	895561.1	922709.9	[10.000]	mg/L	08:28:39
2	Cd 228.802†	15815.0	16102.3	[0.5000]	mg/L	08:28:49
2	Co 228.616†	48692.7	50308.6	[1.0000]	mg/L	08:28:39
2	Cr 267.716†	112671.0	115284.4	[1.0000]	mg/L	08:28:39
2	Cu 324.752†	186337.6	186793.3	[1.0000]	mg/L	08:28:39
2	Mg 279.077†	121502.0	124927.4	[10.000]	mg/L	08:28:39
2	Mn 257.610†	776307.9	782143.2	[1.0000]	mg/L	08:28:39
2	Mn 294.920†	374064.2	385952.8	[1.0000]	mg/L	08:28:39
2	Mo 202.031†	23010.9	23624.4	[1.0000]	mg/L	08:28:49
2	Ni 231.604†	43966.2	45048.9	[1.0000]	mg/L	08:28:39
2	P 214.914†	15551.8	16017.8	[10.000]	mg/L	08:28:49
2	Pb 220.353†	14039.7	14253.8	[1.0000]	mg/L	08:28:49
2	Sb 206.836†	2134.6	2147.0	[1.0000]	mg/L	08:28:49
2	Se 196.026†	2869.2	2939.3	[2.0000]	mg/L	08:28:49
2	Sn 189.927†	6625.0	6782.7	[1.0000]	mg/L	08:28:49
2	Ti 337.279†	836924.6	861162.8	[1.0000]	mg/L	08:28:39
2	Tl 190.801†	991.1	1023.9	[1.0000]	mg/L	08:28:49
2	V 292.402†	214932.1	221345.9	[1.0000]	mg/L	08:28:39
2	Zn 213.857†	133910.1	136543.7	[1.0000]	mg/L	08:28:39

Mean Data: CAL4

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	2619642.9	10267.42	0.39%	0.970	mg/L
Ag 328.068†	90804.9	32.96	0.04%	[0.5000]	mg/L
Al 237.313†	45423.7	45.82	0.10%	[5.0000]	mg/L
As 188.979†	1379.8	0.62	0.04%	[1.0000]	mg/L
B 249.677†	1805.9	2.10	0.12%	[1.0000]	mg/L
B 182.528†	938.4	2.82	0.30%	[1.0000]	mg/L
Ba 233.527†	115454.2	9.92	0.01%	[1.0000]	mg/L
Be 313.107†	228744.5	375.05	0.16%	[0.1000]	mg/L
Ca 315.887†	923520.3	1146.18	0.12%	[10.000]	mg/L
Cd 228.802†	16094.2	11.46	0.07%	[0.5000]	mg/L
Co 228.616†	50263.2	64.16	0.13%	[1.0000]	mg/L
Cr 267.716†	115421.3	193.56	0.17%	[1.0000]	mg/L
Cu 324.752†	187034.9	341.71	0.18%	[1.0000]	mg/L
Fe 234.349†	7548.7	73.27	0.97%	[5.0000]	mg/L
K 766.490†	92209.9	473.93	0.51%	[50.000]	mg/L
Li 670.784†	36597.2	252.61	0.69%	[1.0000]	mg/L
Mg 279.077†	124917.8	13.47	0.01%	[10.000]	mg/L
Mn 257.610†	782649.9	716.66	0.09%	[1.0000]	mg/L
Mn 294.920†	386160.6	293.86	0.08%	[1.0000]	mg/L
Mo 202.031†	23642.4	25.55	0.11%	[1.0000]	mg/L
Na 589.592†	276300.7	1600.49	0.58%	[50.000]	mg/L
Ni 231.604†	45156.2	151.70	0.34%	[1.0000]	mg/L
P 214.914†	16034.5	23.61	0.15%	[10.000]	mg/L
Pb 220.353†	14254.4	0.93	0.01%	[1.0000]	mg/L
Sb 206.836†	2146.9	0.21	0.01%	[1.0000]	mg/L
Se 196.026†	2936.4	4.06	0.14%	[2.0000]	mg/L
Sn 189.927†	6795.2	17.71	0.26%	[1.0000]	mg/L
Sr 407.771†	86232.5	557.80	0.65%	[0.1000]	mg/L
Ti 337.279†	861549.5	546.83	0.06%	[1.0000]	mg/L
Tl 190.801†	1033.4	13.44	1.30%	[1.0000]	mg/L
V 292.402†	221241.9	147.07	0.07%	[1.0000]	mg/L
Zn 213.857†	136693.9	212.42	0.16%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-320.0	180500	0.00000	0.999488	
Al 237.313	3	Lin, Calc Int	-120.6	9036	0.00000	0.999661	
As 188.979	3	Lin, Calc Int	-6.0	1374	0.00000	0.999605	
B 249.677	3	Lin, Calc Int	-2.3	1797	0.00000	0.999788	
B 182.528	3	Lin, Calc Int	0.1	931.7	0.00000	0.999681	
Ba 233.527	3	Lin, Calc Int	-359.3	114800	0.00000	0.999578	
Be 313.107	3	Lin, Calc Int	-868.1	2274000	0.00000	0.999499	
Ca 315.887	3	Lin, Calc Int	-3295.6	91760	0.00000	0.999475	
Cd 228.802	3	Lin, Calc Int	-32.2	32020	0.00000	0.999723	
Co 228.616	3	Lin, Calc Int	-0.9	49980	0.00000	0.999808	
Cr 267.716	3	Lin, Calc Int	-388.5	114700	0.00000	0.999533	
Cu 324.752	3	Lin, Calc Int	-818.7	185900	0.00000	0.999443	
Fe 234.349	3	Lin, Calc Int	-16.0	1500	0.00000	0.999567	
K 766.490	3	Lin, Calc Int	-319.9	1835	0.00000	0.999627	
Li 670.784	3	Lin, Calc Int	-161.9	36380	0.00000	0.999455	
Mg 279.077	3	Lin, Calc Int	-312.6	12410	0.00000	0.999552	
Mn 257.610	3	Lin, Calc Int	-1315.3	777300	0.00000	0.999588	
Mn 294.920	3	Lin, Calc Int	-580.7	383500	0.00000	0.999588	
Mo 202.031	3	Lin, Calc Int	-59.3	23540	0.00000	0.999740	
Na 589.592	3	Lin, Calc Int	-622.3	5496	0.00000	0.999685	
Ni 231.604	3	Lin, Calc Int	-72.7	44860	0.00000	0.999626	
P 214.914	3	Lin, Calc Int	-75.0	1597	0.00000	0.999619	
Pb 220.353	3	Lin, Calc Int	2.1	14190	0.00000	0.999874	
Sb 206.836	3	Lin, Calc Int	-9.0	2139	0.00000	0.999691	
Se 196.026	3	Lin, Calc Int	-7.4	1459	0.00000	0.999585	
Sn 189.927	3	Lin, Calc Int	9.6	6756	0.00000	0.999855	
Sr 407.771	3	Lin, Calc Int	-315.2	857700	0.00000	0.999575	
Ti 337.279	3	Lin, Calc Int	-4196.5	856800	0.00000	0.999448	
Tl 190.801	3	Lin, Calc Int	-1.2	1029	0.00000	0.999808	
V 292.402	3	Lin, Calc Int	-995.9	219900	0.00000	0.999444	
Zn 213.857	3	Lin, Calc Int	-365.7	135900	0.00000	0.999618	

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	B 249.677†	856.6	883.4	0.4936	mg/L	0.4936	mg/L	08:32:18
1	Fe 234.349†	3553.5	3630.9	2.417	mg/L	2.417	mg/L	08:32:18
1	K 766.490†	43680.0	43896.9	24.10	mg/L	24.10	mg/L	08:32:08
1	Li 670.784†	16575.7	17204.0	0.4773	mg/L	0.4773	mg/L	08:32:08
1	Na 589.592†	129856.7	132453.3	24.21	mg/L	24.21	mg/L	08:32:08
1	Sr 407.771†	39869.0	40742.9	0.0479	mg/L	0.0479	mg/L	08:32:08
1	Y 371.029	2638528.2	2638528.2	0.977	mg/L			08:32:36
1	Ag 328.068†	44357.5	43543.1	0.2432	mg/L	0.2432	mg/L	08:32:36
1	Al 237.313†	21044.9	21973.8	2.447	mg/L	2.447	mg/L	08:32:46
1	As 188.979†	637.9	659.6	0.4838	mg/L	0.4838	mg/L	08:32:46
1	B 182.528†	444.6	464.7	0.4987	mg/L	0.4987	mg/L	08:32:46
1	Ba 233.527†	54161.3	55541.4	0.4870	mg/L	0.4870	mg/L	08:32:36
1	Be 313.107†	105633.9	109574.4	0.0485	mg/L	0.0485	mg/L	08:32:36
1	Ca 315.887†	428701.7	440733.3	4.841	mg/L	4.841	mg/L	08:32:36
1	Cd 228.802†	7811.2	7837.2	0.2457	mg/L	0.2457	mg/L	08:32:46
1	Co 228.616†	23844.3	24651.0	0.4924	mg/L	0.4924	mg/L	08:32:46
1	Cr 267.716†	54770.7	55502.0	0.4876	mg/L	0.4876	mg/L	08:32:36
1	Cu 324.752†	91736.1	89106.4	0.4840	mg/L	0.4840	mg/L	08:32:36
1	Mg 279.077†	58633.0	60018.6	4.862	mg/L	4.862	mg/L	08:32:36
1	Mn 257.610†	384247.3	377277.6	0.4865	mg/L	0.4865	mg/L	08:32:36
1	Mn 294.920†	180346.5	185951.3	0.4865	mg/L	0.4865	mg/L	08:32:36
1	Mo 202.031†	11298.2	11530.0	0.4893	mg/L	0.4893	mg/L	08:32:46
1	Ni 231.604†	21507.6	21859.1	0.4896	mg/L	0.4896	mg/L	08:32:36
1	P 214.914†	7475.0	7679.2	4.848	mg/L	4.848	mg/L	08:32:46
1	Pb 220.353†	7057.0	7042.1	0.4974	mg/L	0.4974	mg/L	08:32:46
1	Sb 206.836†	1061.3	1038.6	0.4898	mg/L	0.4898	mg/L	08:32:46
1	Se 196.026†	1401.3	1423.6	0.9803	mg/L	0.9803	mg/L	08:32:46
1	Sn 189.927†	3310.0	3359.1	0.4988	mg/L	0.4988	mg/L	08:32:46
1	Ti 337.279†	401891.4	412032.1	0.4858	mg/L	0.4858	mg/L	08:32:36
1	Tl 190.801†	484.4	500.7	0.4844	mg/L	0.4844	mg/L	08:32:46
1	V 292.402†	102808.8	105592.6	0.4923	mg/L	0.4923	mg/L	08:32:36
1	Zn 213.857†	65583.5	65991.8	0.4841	mg/L	0.4841	mg/L	08:32:36
2	B 249.677†	839.0	867.6	0.4848	mg/L	0.4848	mg/L	08:32:31
2	Fe 234.349†	3506.9	3592.4	2.391	mg/L	2.391	mg/L	08:32:31
2	K 766.490†	43966.3	44305.8	24.32	mg/L	24.32	mg/L	08:32:21
2	Li 670.784†	16678.2	17352.8	0.4814	mg/L	0.4814	mg/L	08:32:21
2	Na 589.592†	130710.6	133671.7	24.43	mg/L	24.43	mg/L	08:32:21
2	Sr 407.771†	40159.7	41146.2	0.0483	mg/L	0.0483	mg/L	08:32:21
2	Y 371.029	2631757.5	2631757.5	0.974	mg/L			08:32:50
2	Ag 328.068†	44233.7	43533.0	0.2432	mg/L	0.2432	mg/L	08:32:50
2	Al 237.313†	20849.6	21828.9	2.431	mg/L	2.431	mg/L	08:33:00
2	As 188.979†	639.1	662.6	0.4859	mg/L	0.4859	mg/L	08:33:00
2	B 182.528†	438.1	459.2	0.4928	mg/L	0.4928	mg/L	08:33:00
2	Ba 233.527†	54004.7	55523.4	0.4869	mg/L	0.4869	mg/L	08:32:50
2	Be 313.107†	105596.2	109813.9	0.0486	mg/L	0.0486	mg/L	08:32:50
2	Ca 315.887†	425960.5	439049.0	4.822	mg/L	4.822	mg/L	08:32:50
2	Cd 228.802†	7780.4	7826.2	0.2454	mg/L	0.2454	mg/L	08:33:00
2	Co 228.616†	23648.1	24512.4	0.4897	mg/L	0.4897	mg/L	08:33:00
2	Cr 267.716†	54592.3	55463.1	0.4872	mg/L	0.4872	mg/L	08:32:50
2	Cu 324.752†	91476.5	89081.7	0.4839	mg/L	0.4839	mg/L	08:32:50
2	Mg 279.077†	58253.1	59783.1	4.844	mg/L	4.844	mg/L	08:32:50
2	Mn 257.610†	383175.4	377189.5	0.4864	mg/L	0.4864	mg/L	08:32:50
2	Mn 294.920†	180141.6	186215.9	0.4871	mg/L	0.4871	mg/L	08:32:50
2	Mo 202.031†	11220.9	11480.3	0.4872	mg/L	0.4872	mg/L	08:33:00
2	Ni 231.604†	21414.3	21819.9	0.4888	mg/L	0.4888	mg/L	08:32:50
2	P 214.914†	7438.7	7661.6	4.837	mg/L	4.837	mg/L	08:33:00
2	Pb 220.353†	7003.3	7005.6	0.4948	mg/L	0.4948	mg/L	08:33:00
2	Sb 206.836†	1048.6	1028.4	0.4850	mg/L	0.4850	mg/L	08:33:00
2	Se 196.026†	1406.4	1432.5	0.9864	mg/L	0.9864	mg/L	08:33:00
2	Sn 189.927†	3289.6	3346.9	0.4970	mg/L	0.4970	mg/L	08:33:00
2	Ti 337.279†	400784.2	411954.2	0.4857	mg/L	0.4857	mg/L	08:32:50
2	Tl 190.801†	479.4	496.8	0.4806	mg/L	0.4806	mg/L	08:33:00
2	V 292.402†	102647.3	105697.6	0.4928	mg/L	0.4928	mg/L	08:32:50
2	Zn 213.857†	65348.6	65923.4	0.4836	mg/L	0.4836	mg/L	08:32:50

Mean Data: ICV1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y 371.029	2635142.9	0.976	mg/L	0.0018				0.18%
Ag 328.068†	43538.1	0.2432	mg/L	0.00004	0.2432	mg/L	0.00004	0.02%
	QC value within limits for Ag 328.068	Recovery = 97.28%						
Al 237.313†	21901.4	2.439	mg/L	0.0113	2.439	mg/L	0.0113	0.47%
	QC value within limits for Al 237.313	Recovery = 97.56%						
As 188.979†	661.1	0.4849	mg/L	0.00154	0.4849	mg/L	0.00154	0.32%
	QC value within limits for As 188.979	Recovery = 96.97%						
B 249.677†	875.5	0.4892	mg/L	0.00625	0.4892	mg/L	0.00625	1.28%
	QC value within limits for B 249.677	Recovery = 97.84%						
B 182.528†	462.0	0.4957	mg/L	0.00420	0.4957	mg/L	0.00420	0.85%
	QC value within limits for B 182.528	Recovery = 99.15%						
Ba 233.527†	55532.4	0.4869	mg/L	0.00011	0.4869	mg/L	0.00011	0.02%
	QC value within limits for Ba 233.527	Recovery = 97.39%						
Be 313.107†	109694.1	0.0486	mg/L	0.00007	0.0486	mg/L	0.00007	0.15%
	QC value within limits for Be 313.107	Recovery = 97.12%						
Ca 315.887†	439891.2	4.832	mg/L	0.0130	4.832	mg/L	0.0130	0.27%
	QC value within limits for Ca 315.887	Recovery = 96.63%						
Cd 228.802†	7831.7	0.2455	mg/L	0.00024	0.2455	mg/L	0.00024	0.10%
	QC value within limits for Cd 228.802	Recovery = 98.21%						
Co 228.616†	24581.7	0.4911	mg/L	0.00196	0.4911	mg/L	0.00196	0.40%
	QC value within limits for Co 228.616	Recovery = 98.21%						
Cr 267.716†	55482.5	0.4874	mg/L	0.00024	0.4874	mg/L	0.00024	0.05%
	QC value within limits for Cr 267.716	Recovery = 97.48%						
Cu 324.752†	89094.1	0.4839	mg/L	0.00009	0.4839	mg/L	0.00009	0.02%
	QC value within limits for Cu 324.752	Recovery = 96.79%						
Fe 234.349†	3611.7	2.404	mg/L	0.0181	2.404	mg/L	0.0181	0.75%
	QC value within limits for Fe 234.349	Recovery = 96.16%						
K 766.490†	44101.3	24.21	mg/L	0.158	24.21	mg/L	0.158	0.65%
	QC value within limits for K 766.490	Recovery = 96.84%						
Li 670.784†	17278.4	0.4794	mg/L	0.00289	0.4794	mg/L	0.00289	0.60%
	QC value within limits for Li 670.784	Recovery = 95.87%						
Mg 279.077†	59900.9	4.853	mg/L	0.0134	4.853	mg/L	0.0134	0.28%
	QC value within limits for Mg 279.077	Recovery = 97.06%						
Mn 257.610†	377233.6	0.4865	mg/L	0.00008	0.4865	mg/L	0.00008	0.02%
	QC value within limits for Mn 257.610	Recovery = 97.29%						
Mn 294.920†	186083.6	0.4868	mg/L	0.00049	0.4868	mg/L	0.00049	0.10%
	QC value within limits for Mn 294.920	Recovery = 97.36%						
Mo 202.031†	11505.1	0.4883	mg/L	0.00149	0.4883	mg/L	0.00149	0.30%
	QC value within limits for Mo 202.031	Recovery = 97.66%						
Na 589.592†	133062.5	24.32	mg/L	0.157	24.32	mg/L	0.157	0.64%
	QC value within limits for Na 589.592	Recovery = 97.29%						
Ni 231.604†	21839.5	0.4892	mg/L	0.00062	0.4892	mg/L	0.00062	0.13%
	QC value within limits for Ni 231.604	Recovery = 97.84%						
P 214.914†	7670.4	4.843	mg/L	0.0078	4.843	mg/L	0.0078	0.16%
	QC value within limits for P 214.914	Recovery = 96.85%						
Pb 220.353†	7023.8	0.4961	mg/L	0.00183	0.4961	mg/L	0.00183	0.37%
	QC value within limits for Pb 220.353	Recovery = 99.22%						
Sb 206.836†	1033.5	0.4874	mg/L	0.00340	0.4874	mg/L	0.00340	0.70%
	QC value within limits for Sb 206.836	Recovery = 97.48%						
Se 196.026†	1428.1	0.9833	mg/L	0.00430	0.9833	mg/L	0.00430	0.44%
	QC value within limits for Se 196.026	Recovery = 98.33%						
Sn 189.927†	3353.0	0.4979	mg/L	0.00129	0.4979	mg/L	0.00129	0.26%
	QC value within limits for Sn 189.927	Recovery = 99.58%						
Sr 407.771†	40944.6	0.0481	mg/L	0.00033	0.0481	mg/L	0.00033	0.69%
	QC value within limits for Sr 407.771	Recovery = 96.22%						
Ti 337.279†	411993.2	0.4858	mg/L	0.00006	0.4858	mg/L	0.00006	0.01%
	QC value within limits for Ti 337.279	Recovery = 97.16%						
Tl 190.801†	498.8	0.4825	mg/L	0.00265	0.4825	mg/L	0.00265	0.55%
	QC value within limits for Tl 190.801	Recovery = 96.50%						
V 292.402†	105645.1	0.4926	mg/L	0.00032	0.4926	mg/L	0.00032	0.06%
	QC value within limits for V 292.402	Recovery = 98.51%						
Zn 213.857†	65957.6	0.4839	mg/L	0.00035	0.4839	mg/L	0.00035	0.07%
	QC value within limits for Zn 213.857	Recovery = 96.78%						

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: SCV1

Analyst:

Autosampler Location: 5

Date Collected: 7/5/2013 8:34:39 AM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: SCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	873.2	898.7	0.5021	mg/L	0.5021	mg/L	08:36:30
1	Fe 234.349†	3727.5	3801.7	2.530	mg/L	2.530	mg/L	08:36:30
1	K 766.490†	46141.6	46325.7	25.42	mg/L	25.42	mg/L	08:36:20
1	Li 670.784†	17558.2	18175.1	0.5040	mg/L	0.5040	mg/L	08:36:20
1	Na 589.592†	136203.7	138681.6	25.35	mg/L	25.35	mg/L	08:36:20
1	Sr 407.771†	41673.3	42507.7	0.0499	mg/L	0.0499	mg/L	08:36:20
1	Y 371.029	2643628.5	2643628.5	0.979	mg/L			08:36:48
1	Ag 328.068†	44686.0	43791.3	0.2446	mg/L	0.2446	mg/L	08:36:48
1	Al 237.313†	21569.5	22468.3	2.502	mg/L	2.502	mg/L	08:36:58
1	As 188.979†	664.4	685.5	0.5026	mg/L	0.5026	mg/L	08:36:58
1	B 182.528†	450.8	470.2	0.5045	mg/L	0.5045	mg/L	08:36:58
1	Ba 233.527†	56188.7	57505.8	0.5041	mg/L	0.5041	mg/L	08:36:48
1	Be 313.107†	110810.2	114654.4	0.0507	mg/L	0.0507	mg/L	08:36:48
1	Ca 315.887†	452582.7	464286.2	5.098	mg/L	5.098	mg/L	08:36:48
1	Cd 228.802†	8026.4	8041.7	0.2521	mg/L	0.2521	mg/L	08:36:58
1	Co 228.616†	24287.6	25056.8	0.5006	mg/L	0.5006	mg/L	08:36:58
1	Cr 267.716†	57650.3	58336.0	0.5123	mg/L	0.5123	mg/L	08:36:48
1	Cu 324.752†	96101.5	93385.5	0.5070	mg/L	0.5070	mg/L	08:36:48
1	Mg 279.077†	60677.9	61992.1	5.022	mg/L	5.022	mg/L	08:36:48
1	Mn 257.610†	397886.0	390453.6	0.5035	mg/L	0.5035	mg/L	08:36:48
1	Mn 294.920†	187255.3	192653.9	0.5039	mg/L	0.5039	mg/L	08:36:48
1	Mo 202.031†	11516.7	11730.8	0.4977	mg/L	0.4977	mg/L	08:36:58
1	Ni 231.604†	22546.2	22877.8	0.5124	mg/L	0.5124	mg/L	08:36:48
1	P 214.914†	7721.7	7916.5	4.996	mg/L	4.996	mg/L	08:36:58
1	Pb 220.353†	7305.4	7281.9	0.5143	mg/L	0.5143	mg/L	08:36:58
1	Sb 206.836†	1102.7	1078.8	0.5084	mg/L	0.5084	mg/L	08:36:58
1	Se 196.026†	1458.7	1479.5	1.019	mg/L	1.019	mg/L	08:36:58
1	Sn 189.927†	3417.5	3462.4	0.5142	mg/L	0.5142	mg/L	08:36:58
1	Ti 337.279†	406554.0	416002.3	0.4905	mg/L	0.4905	mg/L	08:36:48
1	Tl 190.801†	505.1	520.9	0.5038	mg/L	0.5038	mg/L	08:36:58
1	V 292.402†	107302.6	109980.9	0.5125	mg/L	0.5125	mg/L	08:36:48
1	Zn 213.857†	68851.2	69200.9	0.5076	mg/L	0.5076	mg/L	08:36:48
2	B 249.677†	886.7	915.5	0.5115	mg/L	0.5115	mg/L	08:36:43
2	Fe 234.349†	3753.6	3841.3	2.556	mg/L	2.556	mg/L	08:36:43
2	K 766.490†	46342.6	46691.0	25.62	mg/L	25.62	mg/L	08:36:33
2	Li 670.784†	17754.4	18436.8	0.5112	mg/L	0.5112	mg/L	08:36:33
2	Na 589.592†	136380.8	139333.0	25.46	mg/L	25.46	mg/L	08:36:33
2	Sr 407.771†	41904.5	42888.4	0.0504	mg/L	0.0504	mg/L	08:36:33
2	Y 371.029	2634734.1	2634734.1	0.975	mg/L			08:37:02
2	Ag 328.068†	44536.6	43792.2	0.2446	mg/L	0.2446	mg/L	08:37:02
2	Al 237.313†	21783.5	22762.1	2.534	mg/L	2.534	mg/L	08:37:12
2	As 188.979†	662.5	685.8	0.5028	mg/L	0.5028	mg/L	08:37:12
2	B 182.528†	457.3	478.4	0.5134	mg/L	0.5134	mg/L	08:37:12
2	Ba 233.527†	55914.7	57418.8	0.5034	mg/L	0.5034	mg/L	08:37:02
2	Be 313.107†	110644.5	114866.8	0.0508	mg/L	0.0508	mg/L	08:37:02
2	Ca 315.887†	450337.1	463545.1	5.089	mg/L	5.089	mg/L	08:37:02
2	Cd 228.802†	8091.6	8136.2	0.2550	mg/L	0.2550	mg/L	08:37:12
2	Co 228.616†	24578.8	25439.0	0.5082	mg/L	0.5082	mg/L	08:37:12
2	Cr 267.716†	57523.9	58405.3	0.5129	mg/L	0.5129	mg/L	08:37:02
2	Cu 324.752†	95790.8	93398.5	0.5071	mg/L	0.5071	mg/L	08:37:02
2	Mg 279.077†	60141.9	61651.8	4.994	mg/L	4.994	mg/L	08:37:02
2	Mn 257.610†	396682.9	390592.7	0.5036	mg/L	0.5036	mg/L	08:37:02
2	Mn 294.920†	186539.1	192565.5	0.5037	mg/L	0.5037	mg/L	08:37:02
2	Mo 202.031†	11649.4	11906.6	0.5052	mg/L	0.5052	mg/L	08:37:12
2	Ni 231.604†	22446.7	22853.5	0.5118	mg/L	0.5118	mg/L	08:37:02
2	P 214.914†	7794.4	8017.6	5.060	mg/L	5.060	mg/L	08:37:12
2	Pb 220.353†	7370.8	7374.2	0.5208	mg/L	0.5208	mg/L	08:37:12
2	Sb 206.836†	1126.2	1106.7	0.5215	mg/L	0.5215	mg/L	08:37:12
2	Se 196.026†	1475.4	1501.6	1.034	mg/L	1.034	mg/L	08:37:12
2	Sn 189.927†	3436.7	3493.9	0.5189	mg/L	0.5189	mg/L	08:37:12
2	Ti 337.279†	404285.7	415079.1	0.4894	mg/L	0.4894	mg/L	08:37:02
2	Tl 190.801†	506.6	524.2	0.5070	mg/L	0.5070	mg/L	08:37:12
2	V 292.402†	106885.6	109923.6	0.5123	mg/L	0.5123	mg/L	08:37:02
2	Zn 213.857†	68464.8	69042.2	0.5064	mg/L	0.5064	mg/L	08:37:02

Mean Data: SCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2639181.3	0.977 mg/L	0.0023			0.24%
Ag 328.068†	43791.7	0.2446 mg/L	0.00000	0.2446 mg/L	0.00000	0.00%
	QC value within limits for Ag 328.068	Recovery = 97.84%				
Al 237.313†	22615.2	2.518 mg/L	0.0230	2.518 mg/L	0.0230	0.91%
	QC value within limits for Al 237.313	Recovery = 100.72%				
As 188.979†	685.7	0.5027 mg/L	0.00018	0.5027 mg/L	0.00018	0.04%
	QC value within limits for As 188.979	Recovery = 100.54%				
B 249.677†	907.1	0.5068 mg/L	0.00665	0.5068 mg/L	0.00665	1.31%
	QC value within limits for B 249.677	Recovery = 101.36%				
B 182.528†	474.3	0.5090 mg/L	0.00626	0.5090 mg/L	0.00626	1.23%
	QC value within limits for B 182.528	Recovery = 101.80%				
Ba 233.527†	57462.3	0.5038 mg/L	0.00054	0.5038 mg/L	0.00054	0.11%
	QC value within limits for Ba 233.527	Recovery = 100.75%				
Be 313.107†	114760.6	0.0508 mg/L	0.00007	0.0508 mg/L	0.00007	0.13%
	QC value within limits for Be 313.107	Recovery = 101.58%				
Ca 315.887†	463915.7	5.093 mg/L	0.0057	5.093 mg/L	0.0057	0.11%
	QC value within limits for Ca 315.887	Recovery = 101.87%				
Cd 228.802†	8088.9	0.2536 mg/L	0.00209	0.2536 mg/L	0.00209	0.82%
	QC value within limits for Cd 228.802	Recovery = 101.43%				
Co 228.616†	25247.9	0.5044 mg/L	0.00541	0.5044 mg/L	0.00541	1.07%
	QC value within limits for Co 228.616	Recovery = 100.88%				
Cr 267.716†	58370.6	0.5126 mg/L	0.00043	0.5126 mg/L	0.00043	0.08%
	QC value within limits for Cr 267.716	Recovery = 102.51%				
Cu 324.752†	93392.0	0.5071 mg/L	0.00005	0.5071 mg/L	0.00005	0.01%
	QC value within limits for Cu 324.752	Recovery = 101.41%				
Fe 234.349†	3821.5	2.543 mg/L	0.0187	2.543 mg/L	0.0187	0.74%
	QC value within limits for Fe 234.349	Recovery = 101.72%				
K 766.490†	46508.3	25.52 mg/L	0.141	25.52 mg/L	0.141	0.55%
	QC value within limits for K 766.490	Recovery = 102.08%				
Li 670.784†	18305.9	0.5076 mg/L	0.00509	0.5076 mg/L	0.00509	1.00%
	QC value within limits for Li 670.784	Recovery = 101.52%				
Mg 279.077†	61822.0	5.008 mg/L	0.0194	5.008 mg/L	0.0194	0.39%
	QC value within limits for Mg 279.077	Recovery = 100.16%				
Mn 257.610†	390523.2	0.5035 mg/L	0.00012	0.5035 mg/L	0.00012	0.02%
	QC value within limits for Mn 257.610	Recovery = 100.71%				
Mn 294.920†	192609.7	0.5038 mg/L	0.00016	0.5038 mg/L	0.00016	0.03%
	QC value within limits for Mn 294.920	Recovery = 100.76%				
Mo 202.031†	11818.7	0.5015 mg/L	0.00528	0.5015 mg/L	0.00528	1.05%
	QC value within limits for Mo 202.031	Recovery = 100.29%				
Na 589.592†	139007.3	25.40 mg/L	0.084	25.40 mg/L	0.084	0.33%
	QC value within limits for Na 589.592	Recovery = 101.62%				
Ni 231.604†	22865.6	0.5121 mg/L	0.00037	0.5121 mg/L	0.00037	0.07%
	QC value within limits for Ni 231.604	Recovery = 102.42%				
P 214.914†	7967.0	5.028 mg/L	0.0447	5.028 mg/L	0.0447	0.89%
	QC value within limits for P 214.914	Recovery = 100.56%				
Pb 220.353†	7328.0	0.5176 mg/L	0.00462	0.5176 mg/L	0.00462	0.89%
	QC value within limits for Pb 220.353	Recovery = 103.51%				
Sb 206.836†	1092.7	0.5150 mg/L	0.00928	0.5150 mg/L	0.00928	1.80%
	QC value within limits for Sb 206.836	Recovery = 102.99%				
Se 196.026†	1490.5	1.026 mg/L	0.0107	1.026 mg/L	0.0107	1.05%
	QC value within limits for Se 196.026	Recovery = 102.61%				
Sn 189.927†	3478.2	0.5166 mg/L	0.00329	0.5166 mg/L	0.00329	0.64%
	QC value within limits for Sn 189.927	Recovery = 103.31%				
Sr 407.771†	42698.0	0.0502 mg/L	0.00031	0.0502 mg/L	0.00031	0.63%
	QC value within limits for Sr 407.771	Recovery = 100.30%				
Ti 337.279†	415540.7	0.4899 mg/L	0.00076	0.4899 mg/L	0.00076	0.16%
	QC value within limits for Ti 337.279	Recovery = 97.98%				
Tl 190.801†	522.5	0.5054 mg/L	0.00225	0.5054 mg/L	0.00225	0.45%
	QC value within limits for Tl 190.801	Recovery = 101.09%				
V 292.402†	109952.3	0.5124 mg/L	0.00011	0.5124 mg/L	0.00011	0.02%
	QC value within limits for V 292.402	Recovery = 102.48%				
Zn 213.857†	69121.6	0.5070 mg/L	0.00082	0.5070 mg/L	0.00082	0.16%
	QC value within limits for Zn 213.857	Recovery = 101.39%				

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICB1
Analyst:
Initial Sample Wt:

Autosampler Location: 1
Date Collected: 7/5/2013 8:38:52 AM
Data Type: Original
Initial Sample Vol:

Replicate Data: ICB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-2.9	3.5	0.0032	mg/L	0.0032	mg/L	08:40:41
1	Fe 234.349†	18.4	12.0	0.0186	mg/L	0.0186	mg/L	08:40:41
1	K 766.490†	801.2	2.8	0.1758	mg/L	0.1758	mg/L	08:40:31
1	Li 670.784†	-340.5	-113.2	0.0013	mg/L	0.0013	mg/L	08:40:31
1	Na 589.592†	668.6	205.1	0.1505	mg/L	0.1505	mg/L	08:40:31
1	Sr 407.771†	41.6	-27.9	0.0003	mg/L	0.0003	mg/L	08:40:31
1	Y 371.029	2636963.3	2636963.3	0.976	mg/L			08:40:57
1	Ag 328.068†	1914.6	95.9	0.0023	mg/L	0.0023	mg/L	08:40:59
1	Al 237.313†	-283.3	140.3	0.0289	mg/L	0.0289	mg/L	08:40:59
1	As 188.979†	0.7	7.4	0.0097	mg/L	0.0097	mg/L	08:41:09
1	B 182.528†	-2.7	6.7	0.0071	mg/L	0.0071	mg/L	08:41:09
1	Ba 233.527†	-72.3	22.9	0.0033	mg/L	0.0033	mg/L	08:41:09
1	Be 313.107†	-1390.2	14.1	0.0004	mg/L	0.0004	mg/L	08:40:59
1	Ca 315.887†	-1688.8	145.7	0.0375	mg/L	0.0375	mg/L	08:40:59
1	Cd 228.802†	150.7	-4.7	0.0009	mg/L	0.0009	mg/L	08:41:09
1	Co 228.616†	-208.8	28.0	0.0006	mg/L	0.0006	mg/L	08:41:09
1	Cr 267.716†	548.6	-4.3	0.0034	mg/L	0.0034	mg/L	08:40:59
1	Cu 324.752†	4507.5	-185.8	0.0034	mg/L	0.0034	mg/L	08:40:59
1	Mg 279.077†	46.4	44.1	0.0287	mg/L	0.0287	mg/L	08:40:59
1	Mn 257.610†	15927.8	242.2	0.0020	mg/L	0.0020	mg/L	08:40:59
1	Mn 294.920†	-1205.5	97.5	0.0018	mg/L	0.0018	mg/L	08:40:59
1	Mo 202.031†	57.0	22.5	0.0035	mg/L	0.0035	mg/L	08:41:09
1	Ni 231.604†	135.2	-19.5	0.0012	mg/L	0.0012	mg/L	08:40:59
1	P 214.914†	-25.1	1.4	0.0478	mg/L	0.0478	mg/L	08:41:09
1	Pb 220.353†	172.4	-5.5	-0.0005	mg/L	-0.0005	mg/L	08:41:09
1	Sb 206.836†	53.4	6.8	0.0074	mg/L	0.0074	mg/L	08:41:09
1	Se 196.026†	12.2	1.6	0.0061	mg/L	0.0061	mg/L	08:41:09
1	Sn 189.927†	56.8	28.9	0.0029	mg/L	0.0029	mg/L	08:41:09
1	Ti 337.279†	-451.6	157.2	0.0051	mg/L	0.0051	mg/L	08:40:59
1	Tl 190.801†	-7.2	-2.6	-0.0014	mg/L	-0.0014	mg/L	08:41:09
1	V 292.402†	-331.7	8.5	0.0046	mg/L	0.0046	mg/L	08:40:59
1	Zn 213.857†	1084.2	-34.9	0.0024	mg/L	0.0024	mg/L	08:41:09
2	B 249.677†	1.7	8.3	0.0059	mg/L	0.0059	mg/L	08:40:53
2	Fe 234.349†	15.8	9.3	0.0168	mg/L	0.0168	mg/L	08:40:53
2	K 766.490†	953.3	151.4	0.2568	mg/L	0.2568	mg/L	08:40:43
2	Li 670.784†	-204.1	28.1	0.0052	mg/L	0.0052	mg/L	08:40:43
2	Na 589.592†	672.8	204.4	0.1504	mg/L	0.1504	mg/L	08:40:43
2	Sr 407.771†	174.7	107.1	0.0005	mg/L	0.0005	mg/L	08:40:43
2	Y 371.029	2656582.9	2656582.9	0.984	mg/L			08:41:11
2	Ag 328.068†	1840.4	6.0	0.0018	mg/L	0.0018	mg/L	08:41:14
2	Al 237.313†	-225.5	201.2	0.0356	mg/L	0.0356	mg/L	08:41:14
2	As 188.979†	0.8	7.4	0.0098	mg/L	0.0098	mg/L	08:41:24
2	B 182.528†	-3.3	6.2	0.0065	mg/L	0.0065	mg/L	08:41:24
2	Ba 233.527†	-100.4	-5.0	0.0031	mg/L	0.0031	mg/L	08:41:24
2	Be 313.107†	-1485.2	-72.0	0.0003	mg/L	0.0003	mg/L	08:41:14
2	Ca 315.887†	-1620.4	228.0	0.0384	mg/L	0.0384	mg/L	08:41:14
2	Cd 228.802†	157.5	1.1	0.0010	mg/L	0.0010	mg/L	08:41:24
2	Co 228.616†	-228.0	10.0	0.0002	mg/L	0.0002	mg/L	08:41:24
2	Cr 267.716†	547.0	-10.1	0.0033	mg/L	0.0033	mg/L	08:41:14
2	Cu 324.752†	4459.6	-268.7	0.0030	mg/L	0.0030	mg/L	08:41:14
2	Mg 279.077†	60.2	57.8	0.0298	mg/L	0.0298	mg/L	08:41:14
2	Mn 257.610†	15888.1	81.4	0.0018	mg/L	0.0018	mg/L	08:41:14
2	Mn 294.920†	-1246.9	64.5	0.0017	mg/L	0.0017	mg/L	08:41:14
2	Mo 202.031†	50.1	15.0	0.0031	mg/L	0.0031	mg/L	08:41:24
2	Ni 231.604†	131.5	-24.4	0.0011	mg/L	0.0011	mg/L	08:41:14
2	P 214.914†	-34.7	-8.2	0.0418	mg/L	0.0418	mg/L	08:41:24
2	Pb 220.353†	197.9	19.1	0.0012	mg/L	0.0012	mg/L	08:41:24
2	Sb 206.836†	52.1	5.1	0.0066	mg/L	0.0066	mg/L	08:41:24
2	Se 196.026†	14.0	3.4	0.0073	mg/L	0.0073	mg/L	08:41:24
2	Sn 189.927†	37.4	8.7	-0.0001	mg/L	-0.0001	mg/L	08:41:24
2	Ti 337.279†	-480.2	131.6	0.0051	mg/L	0.0051	mg/L	08:41:14
2	Tl 190.801†	-6.6	-1.9	-0.0007	mg/L	-0.0007	mg/L	08:41:24
2	V 292.402†	-285.6	57.9	0.0048	mg/L	0.0048	mg/L	08:41:14
2	Zn 213.857†	1116.0	-10.7	0.0026	mg/L	0.0026	mg/L	08:41:24

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2646773.1	0.980 mg/L	0.0051			0.52%
Ag 328.068†	51.0	0.0021 mg/L	0.00035	0.0021 mg/L	0.00035	17.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	170.7	0.0322 mg/L	0.00476	0.0322 mg/L	0.00476	14.77%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	7.4	0.0098 mg/L	0.00004	0.0098 mg/L	0.00004	0.44%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	5.9	0.0045 mg/L	0.00188	0.0045 mg/L	0.00188	41.33%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	6.5	0.0068 mg/L	0.00044	0.0068 mg/L	0.00044	6.38%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	9.0	0.0032 mg/L	0.00017	0.0032 mg/L	0.00017	5.36%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-29.0	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.27%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	186.9	0.0380 mg/L	0.00064	0.0380 mg/L	0.00064	1.68%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	-1.8	0.0010 mg/L	0.00013	0.0010 mg/L	0.00013	13.35%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	19.0	0.0004 mg/L	0.00025	0.0004 mg/L	0.00025	65.75%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-7.2	0.0033 mg/L	0.00004	0.0033 mg/L	0.00004	1.09%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-227.3	0.0032 mg/L	0.00032	0.0032 mg/L	0.00032	9.89%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	10.6	0.0177 mg/L	0.00130	0.0177 mg/L	0.00130	7.35%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K 766.490†	77.1	0.2163 mg/L	0.05727	0.2163 mg/L	0.05727	26.47%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-42.5	0.0033 mg/L	0.00275	0.0033 mg/L	0.00275	83.74%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	51.0	0.0293 mg/L	0.00078	0.0293 mg/L	0.00078	2.66%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	161.8	0.0019 mg/L	0.00015	0.0019 mg/L	0.00015	7.70%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	81.0	0.0017 mg/L	0.00006	0.0017 mg/L	0.00006	3.52%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	18.7	0.0033 mg/L	0.00022	0.0033 mg/L	0.00022	6.75%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	204.7	0.1505 mg/L	0.00009	0.1505 mg/L	0.00009	0.06%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-21.9	0.0011 mg/L	0.00008	0.0011 mg/L	0.00008	6.73%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-3.4	0.0448 mg/L	0.00423	0.0448 mg/L	0.00423	9.46%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	6.8	0.0003 mg/L	0.00122	0.0003 mg/L	0.00122	370.85%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	6.0	0.0070 mg/L	0.00057	0.0070 mg/L	0.00057	8.12%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.5	0.0067 mg/L	0.00085	0.0067 mg/L	0.00085	12.65%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	18.8	0.0014 mg/L	0.00211	0.0014 mg/L	0.00211	151.59%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	39.6	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	26.90%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	144.4	0.0051 mg/L	0.00002	0.0051 mg/L	0.00002	0.42%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-2.3	-0.0010 mg/L	0.00047	-0.0010 mg/L	0.00047	44.88%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	33.2	0.0047 mg/L	0.00016	0.0047 mg/L	0.00016	3.29%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	-22.8	0.0025 mg/L	0.00013	0.0025 mg/L	0.00013	5.06%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 8
Sample ID: CRL1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 7/5/2013 8:43:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

 Replicate Data: CRL1

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	87.0	94.0	0.0537 mg/L	0.0537 mg/L	08:44:53
1	Fe 234.349†	410.2	405.7	0.2795 mg/L	0.2795 mg/L	08:44:53
1	K 766.490†	5530.9	4743.7	2.760 mg/L	2.760 mg/L	08:44:43
1	Li 670.784†	1585.8	1830.2	0.0548 mg/L	0.0548 mg/L	08:44:43
1	Na 589.592†	14432.6	14033.0	2.666 mg/L	2.666 mg/L	08:44:43
1	Sr 407.771†	4344.0	4297.6	0.0054 mg/L	0.0054 mg/L	08:44:43
1	Y 371.029	2686129.0	2686129.0	0.994 mg/L		08:45:09
1	Ag 328.068†	6389.6	4560.0	0.0271 mg/L	0.0271 mg/L	08:45:12
1	Al 237.313†	1900.2	2341.2	0.2726 mg/L	0.2726 mg/L	08:45:12
1	As 188.979†	63.8	70.8	0.0559 mg/L	0.0559 mg/L	08:45:22
1	B 182.528†	39.8	49.6	0.0531 mg/L	0.0531 mg/L	08:45:22
1	Ba 233.527†	5671.5	5800.0	0.0537 mg/L	0.0537 mg/L	08:45:12
1	Be 313.107†	10148.8	11643.1	0.0055 mg/L	0.0055 mg/L	08:45:12
1	Ca 315.887†	44547.2	46669.9	0.5447 mg/L	0.5447 mg/L	08:45:12
1	Cd 228.802†	972.6	819.0	0.0266 mg/L	0.0266 mg/L	08:45:22
1	Co 228.616†	2395.0	2650.1	0.0529 mg/L	0.0529 mg/L	08:45:22
1	Cr 267.716†	6359.8	5828.9	0.0542 mg/L	0.0542 mg/L	08:45:12
1	Cu 324.752†	13902.7	9177.0	0.0538 mg/L	0.0538 mg/L	08:45:12
1	Mg 279.077†	6392.7	6424.7	0.5430 mg/L	0.5430 mg/L	08:45:12
1	Mn 257.610†	56467.8	40708.6	0.0540 mg/L	0.0540 mg/L	08:45:12
1	Mn 294.920†	18726.5	20162.7	0.0541 mg/L	0.0541 mg/L	08:45:12
1	Mo 202.031†	1238.6	1209.5	0.0536 mg/L	0.0536 mg/L	08:45:22
1	Ni 231.604†	2503.9	2359.7	0.0543 mg/L	0.0543 mg/L	08:45:12
1	P 214.914†	769.7	801.0	0.5477 mg/L	0.5477 mg/L	08:45:22
1	Pb 220.353†	943.1	766.2	0.0540 mg/L	0.0540 mg/L	08:45:22
1	Sb 206.836†	147.9	100.9	0.0514 mg/L	0.0514 mg/L	08:45:22
1	Se 196.026†	165.9	155.9	0.1118 mg/L	0.1118 mg/L	08:45:22
1	Sn 189.927†	394.2	367.1	0.0533 mg/L	0.0533 mg/L	08:45:22
1	Ti 337.279†	41848.6	42700.7	0.0547 mg/L	0.0547 mg/L	08:45:12
1	Tl 190.801†	44.0	49.1	0.0485 mg/L	0.0485 mg/L	08:45:22
1	V 292.402†	10680.1	11087.6	0.0558 mg/L	0.0558 mg/L	08:45:12
1	Zn 213.857†	8159.4	7059.3	0.0542 mg/L	0.0542 mg/L	08:45:12
2	B 249.677†	94.4	102.3	0.0583 mg/L	0.0583 mg/L	08:45:06
2	Fe 234.349†	401.1	400.1	0.2758 mg/L	0.2758 mg/L	08:45:06
2	K 766.490†	5550.7	4812.8	2.797 mg/L	2.797 mg/L	08:44:56
2	Li 670.784†	1621.9	1880.9	0.0561 mg/L	0.0561 mg/L	08:44:56
2	Na 589.592†	14749.4	14482.3	2.748 mg/L	2.748 mg/L	08:44:56
2	Sr 407.771†	4418.2	4411.3	0.0055 mg/L	0.0055 mg/L	08:44:56
2	Y 371.029	2662649.0	2662649.0	0.986 mg/L		08:45:24
2	Ag 328.068†	6338.8	4565.1	0.0271 mg/L	0.0271 mg/L	08:45:26
2	Al 237.313†	1922.3	2380.4	0.2770 mg/L	0.2770 mg/L	08:45:26
2	As 188.979†	66.6	74.2	0.0583 mg/L	0.0583 mg/L	08:45:37
2	B 182.528†	36.8	46.9	0.0503 mg/L	0.0503 mg/L	08:45:37
2	Ba 233.527†	5730.9	5910.5	0.0546 mg/L	0.0546 mg/L	08:45:26
2	Be 313.107†	10184.5	11769.4	0.0056 mg/L	0.0056 mg/L	08:45:26
2	Ca 315.887†	44822.3	47344.0	0.5521 mg/L	0.5521 mg/L	08:45:26
2	Cd 228.802†	984.1	839.3	0.0272 mg/L	0.0272 mg/L	08:45:37
2	Co 228.616†	2387.7	2664.0	0.0532 mg/L	0.0532 mg/L	08:45:37
2	Cr 267.716†	6468.9	5996.0	0.0557 mg/L	0.0557 mg/L	08:45:26
2	Cu 324.752†	13933.8	9331.8	0.0546 mg/L	0.0546 mg/L	08:45:26
2	Mg 279.077†	6443.0	6532.5	0.5517 mg/L	0.5517 mg/L	08:45:26
2	Mn 257.610†	56658.2	41402.5	0.0549 mg/L	0.0549 mg/L	08:45:26
2	Mn 294.920†	18784.5	20387.6	0.0547 mg/L	0.0547 mg/L	08:45:26
2	Mo 202.031†	1248.6	1230.7	0.0545 mg/L	0.0545 mg/L	08:45:37
2	Ni 231.604†	2499.6	2377.6	0.0547 mg/L	0.0547 mg/L	08:45:26
2	P 214.914†	778.3	816.6	0.5575 mg/L	0.5575 mg/L	08:45:37
2	Pb 220.353†	895.5	726.3	0.0512 mg/L	0.0512 mg/L	08:45:37
2	Sb 206.836†	160.4	114.8	0.0579 mg/L	0.0579 mg/L	08:45:37
2	Se 196.026†	164.0	155.4	0.1115 mg/L	0.1115 mg/L	08:45:37
2	Sn 189.927†	386.9	363.1	0.0527 mg/L	0.0527 mg/L	08:45:37
2	Ti 337.279†	42083.9	43310.4	0.0555 mg/L	0.0555 mg/L	08:45:26
2	Tl 190.801†	44.4	49.8	0.0492 mg/L	0.0492 mg/L	08:45:37
2	V 292.402†	10769.5	11273.0	0.0566 mg/L	0.0566 mg/L	08:45:26
2	Zn 213.857†	8158.5	7130.7	0.0547 mg/L	0.0547 mg/L	08:45:26

 Mean Data: CRL1

Mean Corrected

Calib

Sample
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Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2674389.0	0.990 mg/L	0.0061			0.62%
Ag 328.068†	4562.5	0.0271 mg/L	0.00002	0.0271 mg/L	0.00002	0.07%
	QC value within limits for Ag 328.068	Recovery = 108.30%				
Al 237.313†	2360.8	0.2748 mg/L	0.00307	0.2748 mg/L	0.00307	1.12%
	QC value within limits for Al 237.313	Recovery = 109.93%				
As 188.979†	72.5	0.0571 mg/L	0.00174	0.0571 mg/L	0.00174	3.04%
	QC value within limits for As 188.979	Recovery = 114.17%				
B 249.677†	98.1	0.0560 mg/L	0.00326	0.0560 mg/L	0.00326	5.82%
	QC value within limits for B 249.677	Recovery = 111.91%				
B 182.528†	48.2	0.0517 mg/L	0.00202	0.0517 mg/L	0.00202	3.91%
	QC value within limits for B 182.528	Recovery = 103.36%				
Ba 233.527†	5855.3	0.0541 mg/L	0.00068	0.0541 mg/L	0.00068	1.26%
	QC value within limits for Ba 233.527	Recovery = 108.29%				
Be 313.107†	11706.2	0.0055 mg/L	0.00004	0.0055 mg/L	0.00004	0.71%
	QC value within limits for Be 313.107	Recovery = 110.45%				
Ca 315.887†	47007.0	0.5484 mg/L	0.00520	0.5484 mg/L	0.00520	0.95%
	QC value within limits for Ca 315.887	Recovery = 109.68%				
Cd 228.802†	829.1	0.0269 mg/L	0.00045	0.0269 mg/L	0.00045	1.67%
	QC value within limits for Cd 228.802	Recovery = 107.58%				
Co 228.616†	2657.0	0.0531 mg/L	0.00020	0.0531 mg/L	0.00020	0.37%
	QC value within limits for Co 228.616	Recovery = 106.18%				
Cr 267.716†	5912.4	0.0550 mg/L	0.00103	0.0550 mg/L	0.00103	1.87%
	QC value within limits for Cr 267.716	Recovery = 109.93%				
Cu 324.752†	9254.4	0.0542 mg/L	0.00059	0.0542 mg/L	0.00059	1.09%
	QC value within limits for Cu 324.752	Recovery = 108.44%				
Fe 234.349†	402.9	0.2776 mg/L	0.00263	0.2776 mg/L	0.00263	0.95%
	QC value within limits for Fe 234.349	Recovery = 111.05%				
K 766.490†	4778.3	2.778 mg/L	0.0266	2.778 mg/L	0.0266	0.96%
	QC value within limits for K 766.490	Recovery = 111.14%				
Li 670.784†	1855.6	0.0555 mg/L	0.00098	0.0555 mg/L	0.00098	1.78%
	QC value within limits for Li 670.784	Recovery = 110.90%				
Mg 279.077†	6478.6	0.5473 mg/L	0.00614	0.5473 mg/L	0.00614	1.12%
	QC value within limits for Mg 279.077	Recovery = 109.47%				
Mn 257.610†	41055.5	0.0544 mg/L	0.00063	0.0544 mg/L	0.00063	1.16%
	QC value within limits for Mn 257.610	Recovery = 108.90%				
Mn 294.920†	20275.2	0.0544 mg/L	0.00041	0.0544 mg/L	0.00041	0.76%
	QC value within limits for Mn 294.920	Recovery = 108.78%				
Mo 202.031†	1220.1	0.0540 mg/L	0.00063	0.0540 mg/L	0.00063	1.17%
	QC value within limits for Mo 202.031	Recovery = 108.04%				
Na 589.592†	14257.6	2.707 mg/L	0.0578	2.707 mg/L	0.0578	2.14%
	QC value within limits for Na 589.592	Recovery = 108.29%				
Ni 231.604†	2368.7	0.0545 mg/L	0.00028	0.0545 mg/L	0.00028	0.52%
	QC value within limits for Ni 231.604	Recovery = 109.01%				
P 214.914†	808.8	0.5526 mg/L	0.00689	0.5526 mg/L	0.00689	1.25%
	QC value within limits for P 214.914	Recovery = 110.52%				
Pb 220.353†	746.2	0.0526 mg/L	0.00199	0.0526 mg/L	0.00199	3.78%
	QC value within limits for Pb 220.353	Recovery = 105.15%				
Sb 206.836†	107.9	0.0546 mg/L	0.00460	0.0546 mg/L	0.00460	8.43%
	QC value within limits for Sb 206.836	Recovery = 109.27%				
Se 196.026†	155.7	0.1117 mg/L	0.00022	0.1117 mg/L	0.00022	0.20%
	QC value within limits for Se 196.026	Recovery = 111.67%				
Sn 189.927†	365.1	0.0530 mg/L	0.00041	0.0530 mg/L	0.00041	0.77%
	QC value within limits for Sn 189.927	Recovery = 105.93%				
Sr 407.771†	4354.4	0.0054 mg/L	0.00009	0.0054 mg/L	0.00009	1.72%
	QC value within limits for Sr 407.771	Recovery = 108.89%				
Ti 337.279†	43005.5	0.0551 mg/L	0.00050	0.0551 mg/L	0.00050	0.91%
	QC value within limits for Ti 337.279	Recovery = 110.19%				
Tl 190.801†	49.5	0.0489 mg/L	0.00051	0.0489 mg/L	0.00051	1.03%
	QC value within limits for Tl 190.801	Recovery = 97.72%				
V 292.402†	11180.3	0.0562 mg/L	0.00061	0.0562 mg/L	0.00061	1.08%
	QC value within limits for V 292.402	Recovery = 112.43%				
Zn 213.857†	7095.0	0.0544 mg/L	0.00037	0.0544 mg/L	0.00037	0.68%
	QC value within limits for Zn 213.857	Recovery = 108.87%				

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRL2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 7/5/2013 8:47:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRL2

Repl#	Analyte	Net	Corrected	Calib.	Sample		Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time	
1	B 249.677†	32.1	39.3	0.0232 mg/L	0.0232 mg/L		08:49:08
1	Fe 234.349†	165.5	162.7	0.1184 mg/L	0.1184 mg/L		08:49:08
1	K 766.490†	2872.8	2124.7	1.332 mg/L	1.332 mg/L		08:48:58
1	Li 670.784†	342.6	586.5	0.0206 mg/L	0.0206 mg/L		08:48:58
1	Na 589.592†	6035.0	5701.9	1.151 mg/L	1.151 mg/L		08:48:58
1	Sr 407.771†	1752.1	1724.1	0.0024 mg/L	0.0024 mg/L		08:48:58
1	Y 371.029	2636940.4	2636940.4	0.976 mg/L			08:49:24
1	Ag 328.068†	3524.0	1744.5	0.0114 mg/L	0.0114 mg/L		08:49:27
1	Al 237.313†	453.2	894.7	0.1124 mg/L	0.1124 mg/L		08:49:27
1	As 188.979†	25.4	32.7	0.0281 mg/L	0.0281 mg/L		08:49:37
1	B 182.528†	8.5	18.3	0.0195 mg/L	0.0195 mg/L		08:49:37
1	Ba 233.527†	2197.4	2347.8	0.0236 mg/L	0.0236 mg/L		08:49:37
1	Be 313.107†	3112.7	4626.4	0.0024 mg/L	0.0024 mg/L		08:49:27
1	Ca 315.887†	16489.2	18765.6	0.2405 mg/L	0.2405 mg/L		08:49:27
1	Cd 228.802†	485.9	338.6	0.0116 mg/L	0.0116 mg/L		08:49:37
1	Co 228.616†	805.0	1066.3	0.0213 mg/L	0.0213 mg/L		08:49:37
1	Cr 267.716†	2862.2	2365.5	0.0240 mg/L	0.0240 mg/L		08:49:27
1	Cu 324.752†	8200.3	3596.8	0.0238 mg/L	0.0238 mg/L		08:49:27
1	Mg 279.077†	2476.7	2533.5	0.2294 mg/L	0.2294 mg/L		08:49:27
1	Mn 257.610†	31811.9	16512.6	0.0229 mg/L	0.0229 mg/L		08:49:27
1	Mn 294.920†	6721.6	8217.3	0.0229 mg/L	0.0229 mg/L		08:49:27
1	Mo 202.031†	531.7	508.7	0.0240 mg/L	0.0240 mg/L		08:49:37
1	Ni 231.604†	1048.9	916.3	0.0221 mg/L	0.0221 mg/L		08:49:27
1	P 214.914†	276.5	310.3	0.2409 mg/L	0.2409 mg/L		08:49:37
1	Pb 220.353†	460.5	289.6	0.0203 mg/L	0.0203 mg/L		08:49:37
1	Sb 206.836†	94.4	48.8	0.0270 mg/L	0.0270 mg/L		08:49:37
1	Se 196.026†	71.6	62.5	0.0478 mg/L	0.0478 mg/L		08:49:37
1	Sn 189.927†	175.1	150.0	0.0209 mg/L	0.0209 mg/L		08:49:37
1	Ti 337.279†	15855.2	16860.4	0.0246 mg/L	0.0246 mg/L		08:49:27
1	Tl 190.801†	18.0	23.2	0.0236 mg/L	0.0236 mg/L		08:49:37
1	V 292.402†	4014.0	4459.9	0.0252 mg/L	0.0252 mg/L		08:49:27
1	Zn 213.857†	3976.5	2927.8	0.0240 mg/L	0.0240 mg/L		08:49:37
2	B 249.677†	29.7	36.5	0.0216 mg/L	0.0216 mg/L		08:49:21
2	Fe 234.349†	170.0	165.2	0.1201 mg/L	0.1201 mg/L		08:49:21
2	K 766.490†	2614.6	1827.4	1.170 mg/L	1.170 mg/L		08:49:11
2	Li 670.784†	384.9	625.0	0.0216 mg/L	0.0216 mg/L		08:49:11
2	Na 589.592†	6047.9	5638.9	1.139 mg/L	1.139 mg/L		08:49:11
2	Sr 407.771†	1731.3	1680.9	0.0023 mg/L	0.0023 mg/L		08:49:11
2	Y 371.029	2669809.4	2669809.4	0.988 mg/L			08:49:39
2	Ag 328.068†	3585.8	1762.6	0.0115 mg/L	0.0115 mg/L		08:49:41
2	Al 237.313†	437.8	873.3	0.1101 mg/L	0.1101 mg/L		08:49:41
2	As 188.979†	29.9	36.9	0.0312 mg/L	0.0312 mg/L		08:49:52
2	B 182.528†	15.3	25.1	0.0268 mg/L	0.0268 mg/L		08:49:52
2	Ba 233.527†	2213.4	2336.3	0.0235 mg/L	0.0235 mg/L		08:49:52
2	Be 313.107†	3043.5	4517.1	0.0024 mg/L	0.0024 mg/L		08:49:41
2	Ca 315.887†	16422.9	18490.5	0.2375 mg/L	0.2375 mg/L		08:49:41
2	Cd 228.802†	484.2	330.8	0.0113 mg/L	0.0113 mg/L		08:49:52
2	Co 228.616†	795.6	1046.7	0.0209 mg/L	0.0209 mg/L		08:49:52
2	Cr 267.716†	2849.9	2317.0	0.0236 mg/L	0.0236 mg/L		08:49:41
2	Cu 324.752†	8143.3	3435.7	0.0229 mg/L	0.0229 mg/L		08:49:41
2	Mg 279.077†	2450.1	2475.3	0.2247 mg/L	0.2247 mg/L		08:49:41
2	Mn 257.610†	31844.0	16143.9	0.0224 mg/L	0.0224 mg/L		08:49:41
2	Mn 294.920†	6730.5	8141.5	0.0227 mg/L	0.0227 mg/L		08:49:41
2	Mo 202.031†	536.9	507.3	0.0239 mg/L	0.0239 mg/L		08:49:52
2	Ni 231.604†	1069.1	923.6	0.0222 mg/L	0.0222 mg/L		08:49:41
2	P 214.914†	291.8	322.3	0.2484 mg/L	0.2484 mg/L		08:49:52
2	Pb 220.353†	433.9	256.9	0.0180 mg/L	0.0180 mg/L		08:49:52
2	Sb 206.836†	98.0	51.3	0.0282 mg/L	0.0282 mg/L		08:49:52
2	Se 196.026†	75.0	65.0	0.0496 mg/L	0.0496 mg/L		08:49:52
2	Sn 189.927†	183.5	156.3	0.0219 mg/L	0.0219 mg/L		08:49:52
2	Ti 337.279†	16075.4	16883.2	0.0246 mg/L	0.0246 mg/L		08:49:41
2	Tl 190.801†	10.6	15.5	0.0161 mg/L	0.0161 mg/L		08:49:52
2	V 292.402†	4000.3	4395.4	0.0249 mg/L	0.0249 mg/L		08:49:41
2	Zn 213.857†	3983.1	2884.3	0.0237 mg/L	0.0237 mg/L		08:49:52

Mean Data: CRL2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y	371.029	2653374.9	0.982 mg/L	0.0086			0.88%
Ag	328.068†	1753.5	0.0115 mg/L	0.00007	0.0115 mg/L	0.00007	0.62%
	QC value within limits for Ag 328.068 Recovery = 114.99%						
Al	237.313†	884.0	0.1113 mg/L	0.00167	0.1113 mg/L	0.00167	1.50%
	QC value within limits for Al 237.313 Recovery = 111.26%						
As	188.979†	34.8	0.0297 mg/L	0.00217	0.0297 mg/L	0.00217	7.30%
	QC value greater than the upper limit for As 188.979 Recovery = 148.30%						
B	249.677†	37.9	0.0224 mg/L	0.00110	0.0224 mg/L	0.00110	4.89%
	QC value within limits for B 249.677 Recovery = 112.07%						
B	182.528†	21.7	0.0232 mg/L	0.00514	0.0232 mg/L	0.00514	22.21%
	QC value within limits for B 182.528 Recovery = 115.82%						
Ba	233.527†	2342.1	0.0235 mg/L	0.00007	0.0235 mg/L	0.00007	0.30%
	QC value within limits for Ba 233.527 Recovery = 117.68%						
Be	313.107†	4571.7	0.0024 mg/L	0.00003	0.0024 mg/L	0.00003	1.42%
	QC value within limits for Be 313.107 Recovery = 119.45%						
Ca	315.887†	18628.1	0.2390 mg/L	0.00212	0.2390 mg/L	0.00212	0.89%
	QC value within limits for Ca 315.887 Recovery = 119.51%						
Cd	228.802†	334.7	0.0115 mg/L	0.00017	0.0115 mg/L	0.00017	1.51%
	QC value within limits for Cd 228.802 Recovery = 114.57%						
Co	228.616†	1056.5	0.0211 mg/L	0.00028	0.0211 mg/L	0.00028	1.32%
	QC value within limits for Co 228.616 Recovery = 105.58%						
Cr	267.716†	2341.3	0.0238 mg/L	0.00030	0.0238 mg/L	0.00030	1.26%
	QC value within limits for Cr 267.716 Recovery = 119.06%						
Cu	324.752†	3516.2	0.0233 mg/L	0.00061	0.0233 mg/L	0.00061	2.63%
	QC value within limits for Cu 324.752 Recovery = 116.67%						
Fe	234.349†	163.9	0.1193 mg/L	0.00116	0.1193 mg/L	0.00116	0.97%
	QC value within limits for Fe 234.349 Recovery = 119.27%						
K	766.490†	1976.0	1.251 mg/L	0.1146	1.251 mg/L	0.1146	9.16%
	QC value greater than the upper limit for K 766.490 Recovery = 125.12%						
Li	670.784†	605.8	0.0211 mg/L	0.00075	0.0211 mg/L	0.00075	3.54%
	QC value within limits for Li 670.784 Recovery = 105.50%						
Mg	279.077†	2504.4	0.2270 mg/L	0.00332	0.2270 mg/L	0.00332	1.46%
	QC value within limits for Mg 279.077 Recovery = 113.52%						
Mn	257.610†	16328.3	0.0227 mg/L	0.00034	0.0227 mg/L	0.00034	1.48%
	QC value within limits for Mn 257.610 Recovery = 113.36%						
Mn	294.920†	8179.4	0.0228 mg/L	0.00014	0.0228 mg/L	0.00014	0.61%
	QC value within limits for Mn 294.920 Recovery = 114.23%						
Mo	202.031†	508.0	0.0240 mg/L	0.00004	0.0240 mg/L	0.00004	0.16%
	QC value within limits for Mo 202.031 Recovery = 119.78%						
Na	589.592†	5670.4	1.145 mg/L	0.0081	1.145 mg/L	0.0081	0.71%
	QC value within limits for Na 589.592 Recovery = 114.49%						
Ni	231.604†	919.9	0.0222 mg/L	0.00011	0.0222 mg/L	0.00011	0.51%
	QC value within limits for Ni 231.604 Recovery = 110.82%						
P	214.914†	316.3	0.2446 mg/L	0.00533	0.2446 mg/L	0.00533	2.18%
	QC value greater than the upper limit for P 214.914 Recovery = 122.32%						
Pb	220.353†	273.2	0.0192 mg/L	0.00163	0.0192 mg/L	0.00163	8.49%
	QC value within limits for Pb 220.353 Recovery = 95.83%						
Sb	206.836†	50.1	0.0276 mg/L	0.00082	0.0276 mg/L	0.00082	2.97%
	QC value greater than the upper limit for Sb 206.836 Recovery = 138.10%						
Se	196.026†	63.7	0.0487 mg/L	0.00123	0.0487 mg/L	0.00123	2.53%
	QC value greater than the upper limit for Se 196.026 Recovery = 121.75%						
Sn	189.927†	153.2	0.0214 mg/L	0.00066	0.0214 mg/L	0.00066	3.06%
	QC value within limits for Sn 189.927 Recovery = 107.02%						
Sr	407.771†	1702.5	0.0024 mg/L	0.00004	0.0024 mg/L	0.00004	1.51%
	QC value within limits for Sr 407.771 Recovery = 117.63%						
Ti	337.279†	16871.8	0.0246 mg/L	0.00002	0.0246 mg/L	0.00002	0.08%
	QC value greater than the upper limit for Ti 337.279 Recovery = 122.95%						
Tl	190.801†	19.4	0.0199 mg/L	0.00527	0.0199 mg/L	0.00527	26.56%
	QC value within limits for Tl 190.801 Recovery = 99.26%						
V	292.402†	4427.6	0.0250 mg/L	0.00021	0.0250 mg/L	0.00021	0.83%
	QC value greater than the upper limit for V 292.402 Recovery = 125.17%						
Zn	213.857†	2906.0	0.0239 mg/L	0.00023	0.0239 mg/L	0.00023	0.95%
	QC value within limits for Zn 213.857 Recovery = 119.42%						
QC Failed. Continue with analysis.							

Sequence No.: 10
Sample ID: CRL3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 7/5/2013 8:51:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRL3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	11.3	18.1	0.0114	mg/L	0.0114	mg/L	08:53:24
1	Fe 234.349†	87.8	83.6	0.0660	mg/L	0.0660	mg/L	08:53:24
1	K 766.490†	1794.9	1029.4	0.7353	mg/L	0.7353	mg/L	08:53:14
1	Li 670.784†	-6.2	229.2	0.0107	mg/L	0.0107	mg/L	08:53:14
1	Na 589.592†	3135.5	2747.2	0.6131	mg/L	0.6131	mg/L	08:53:14
1	Sr 407.771†	883.0	838.2	0.0013	mg/L	0.0013	mg/L	08:53:14
1	Y 371.029	2624485.2	2624485.2	0.972	mg/L			08:53:40
1	Ag 328.068†	2742.4	957.2	0.0071	mg/L	0.0071	mg/L	08:53:42
1	Al 237.313†	72.9	505.4	0.0693	mg/L	0.0693	mg/L	08:53:42
1	As 188.979†	13.3	20.3	0.0191	mg/L	0.0191	mg/L	08:53:52
1	B 182.528†	-0.4	9.2	0.0097	mg/L	0.0097	mg/L	08:53:52
1	Ba 233.527†	1035.7	1162.9	0.0133	mg/L	0.0133	mg/L	08:53:52
1	Be 313.107†	789.2	2250.2	0.0014	mg/L	0.0014	mg/L	08:53:42
1	Ca 315.887†	7166.5	9251.1	0.1368	mg/L	0.1368	mg/L	08:53:42
1	Cd 228.802†	312.2	162.3	0.0061	mg/L	0.0061	mg/L	08:53:52
1	Co 228.616†	279.6	529.5	0.0106	mg/L	0.0106	mg/L	08:53:52
1	Cr 267.716†	1676.4	1159.0	0.0135	mg/L	0.0135	mg/L	08:53:42
1	Cu 324.752†	6213.5	1591.8	0.0130	mg/L	0.0130	mg/L	08:53:42
1	Mg 279.077†	1187.6	1218.8	0.1234	mg/L	0.1234	mg/L	08:53:42
1	Mn 257.610†	23609.9	8226.1	0.0123	mg/L	0.0123	mg/L	08:53:42
1	Mn 294.920†	2771.5	4184.7	0.0124	mg/L	0.0124	mg/L	08:53:42
1	Mo 202.031†	268.0	239.9	0.0126	mg/L	0.0126	mg/L	08:53:52
1	Ni 231.604†	578.8	437.6	0.0114	mg/L	0.0114	mg/L	08:53:42
1	P 214.914†	136.1	167.1	0.1514	mg/L	0.1514	mg/L	08:53:52
1	Pb 220.353†	315.6	142.7	0.0099	mg/L	0.0099	mg/L	08:53:52
1	Sb 206.836†	67.6	21.8	0.0144	mg/L	0.0144	mg/L	08:53:52
1	Se 196.026†	54.5	45.2	0.0360	mg/L	0.0360	mg/L	08:53:52
1	Sn 189.927†	84.7	57.8	0.0072	mg/L	0.0072	mg/L	08:53:52
1	Ti 337.279†	7365.4	8200.0	0.0145	mg/L	0.0145	mg/L	08:53:42
1	Tl 190.801†	-1.7	3.0	0.0040	mg/L	0.0040	mg/L	08:53:52
1	V 292.402†	1868.4	2271.2	0.0151	mg/L	0.0151	mg/L	08:53:42
1	Zn 213.857†	2524.5	1452.8	0.0133	mg/L	0.0133	mg/L	08:53:52
2	B 249.677†	7.3	13.8	0.0090	mg/L	0.0090	mg/L	08:53:36
2	Fe 234.349†	84.3	78.6	0.0627	mg/L	0.0627	mg/L	08:53:36
2	K 766.490†	1723.6	928.8	0.6805	mg/L	0.6805	mg/L	08:53:26
2	Li 670.784†	88.8	325.6	0.0134	mg/L	0.0134	mg/L	08:53:26
2	Na 589.592†	3204.3	2767.3	0.6167	mg/L	0.6167	mg/L	08:53:26
2	Sr 407.771†	925.3	867.0	0.0014	mg/L	0.0014	mg/L	08:53:26
2	Y 371.029	2665489.4	2665489.4	0.987	mg/L			08:53:55
2	Ag 328.068†	2740.6	912.0	0.0068	mg/L	0.0068	mg/L	08:53:57
2	Al 237.313†	71.6	503.0	0.0691	mg/L	0.0691	mg/L	08:53:57
2	As 188.979†	15.4	22.3	0.0206	mg/L	0.0206	mg/L	08:54:07
2	B 182.528†	-0.3	9.3	0.0099	mg/L	0.0099	mg/L	08:54:07
2	Ba 233.527†	1037.8	1148.6	0.0131	mg/L	0.0131	mg/L	08:54:07
2	Be 313.107†	806.7	2255.4	0.0014	mg/L	0.0014	mg/L	08:53:57
2	Ca 315.887†	7074.7	9044.6	0.1345	mg/L	0.1345	mg/L	08:53:57
2	Cd 228.802†	319.1	164.3	0.0061	mg/L	0.0061	mg/L	08:54:07
2	Co 228.616†	245.3	490.4	0.0098	mg/L	0.0098	mg/L	08:54:07
2	Cr 267.716†	1672.5	1128.6	0.0132	mg/L	0.0132	mg/L	08:53:57
2	Cu 324.752†	6106.6	1385.1	0.0119	mg/L	0.0119	mg/L	08:53:57
2	Mg 279.077†	1239.4	1252.5	0.1261	mg/L	0.1261	mg/L	08:53:57
2	Mn 257.610†	23590.8	7832.9	0.0118	mg/L	0.0118	mg/L	08:53:57
2	Mn 294.920†	2695.8	4064.1	0.0121	mg/L	0.0121	mg/L	08:53:57
2	Mo 202.031†	296.0	264.0	0.0137	mg/L	0.0137	mg/L	08:54:07
2	Ni 231.604†	615.0	465.2	0.0120	mg/L	0.0120	mg/L	08:53:57
2	P 214.914†	126.3	155.1	0.1439	mg/L	0.1439	mg/L	08:54:07
2	Pb 220.353†	312.9	135.0	0.0094	mg/L	0.0094	mg/L	08:54:07
2	Sb 206.836†	74.6	27.8	0.0172	mg/L	0.0172	mg/L	08:54:07
2	Se 196.026†	48.6	38.4	0.0313	mg/L	0.0313	mg/L	08:54:07
2	Sn 189.927†	89.5	61.4	0.0078	mg/L	0.0078	mg/L	08:54:07
2	Ti 337.279†	7518.2	8238.2	0.0145	mg/L	0.0145	mg/L	08:53:57
2	Tl 190.801†	0.8	5.6	0.0066	mg/L	0.0066	mg/L	08:54:07
2	V 292.402†	1789.3	2161.4	0.0146	mg/L	0.0146	mg/L	08:53:57
2	Zn 213.857†	2529.1	1417.4	0.0130	mg/L	0.0130	mg/L	08:54:07

Mean Data: CRL3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2644987.3	0.979 mg/L	0.0107			1.10%

Ag	328.068†	934.6	0.0070 mg/L	0.00018	0.0070 mg/L	0.00018	2.55%
	QC value	greater than the upper	limit for Ag	328.068	Recovery = 139.15%		
Al	237.313†	504.2	0.0692 mg/L	0.00019	0.0692 mg/L	0.00019	0.27%
	QC value	greater than the upper	limit for Al	237.313	Recovery = 138.39%		
As	188.979†	21.3	0.0199 mg/L	0.00100	0.0199 mg/L	0.00100	5.06%
	QC value	greater than the upper	limit for As	188.979	Recovery = 198.51%		
B	249.677†	16.0	0.0102 mg/L	0.00168	0.0102 mg/L	0.00168	16.51%
	QC value	within limits for B	249.677	Recovery = 101.80%			
B	182.528†	9.2	0.0098 mg/L	0.00010	0.0098 mg/L	0.00010	0.98%
	QC value	within limits for B	182.528	Recovery = 98.13%			
Ba	233.527†	1155.8	0.0132 mg/L	0.00009	0.0132 mg/L	0.00009	0.67%
	QC value	greater than the upper	limit for Ba	233.527	Recovery = 132.00%		
Be	313.107†	2252.8	0.0014 mg/L	0.00000	0.0014 mg/L	0.00000	0.12%
	QC value	greater than the upper	limit for Be	313.107	Recovery = 137.04%		
Ca	315.887†	9147.8	0.1357 mg/L	0.00160	0.1357 mg/L	0.00160	1.18%
	QC value	greater than the upper	limit for Ca	315.887	Recovery = 135.67%		
Cd	228.802†	163.3	0.0061 mg/L	0.00004	0.0061 mg/L	0.00004	0.71%
	QC value	greater than the upper	limit for Cd	228.802	Recovery = 122.09%		
Co	228.616†	509.9	0.0102 mg/L	0.00055	0.0102 mg/L	0.00055	5.43%
	QC value	within limits for Co	228.616	Recovery = 101.96%			
Cr	267.716†	1143.8	0.0134 mg/L	0.00019	0.0134 mg/L	0.00019	1.40%
	QC value	greater than the upper	limit for Cr	267.716	Recovery = 133.67%		
Cu	324.752†	1488.5	0.0124 mg/L	0.00079	0.0124 mg/L	0.00079	6.33%
	QC value	greater than the upper	limit for Cu	324.752	Recovery = 124.20%		
Fe	234.349†	81.1	0.0644 mg/L	0.00237	0.0644 mg/L	0.00237	3.69%
	QC value	greater than the upper	limit for Fe	234.349	Recovery = 128.72%		
K	766.490†	979.1	0.7079 mg/L	0.03878	0.7079 mg/L	0.03878	5.48%
	QC value	greater than the upper	limit for K	766.490	Recovery = 141.58%		
Li	670.784†	277.4	0.0121 mg/L	0.00187	0.0121 mg/L	0.00187	15.52%
	QC value	greater than the upper	limit for Li	670.784	Recovery = 120.73%		
Mg	279.077†	1235.7	0.1248 mg/L	0.00192	0.1248 mg/L	0.00192	1.54%
	QC value	greater than the upper	limit for Mg	279.077	Recovery = 124.78%		
Mn	257.610†	8029.5	0.0120 mg/L	0.00036	0.0120 mg/L	0.00036	2.97%
	QC value	greater than the upper	limit for Mn	257.610	Recovery = 120.08%		
Mn	294.920†	4124.4	0.0123 mg/L	0.00022	0.0123 mg/L	0.00022	1.81%
	QC value	greater than the upper	limit for Mn	294.920	Recovery = 122.70%		
Mo	202.031†	251.9	0.0131 mg/L	0.00073	0.0131 mg/L	0.00073	5.54%
	QC value	greater than the upper	limit for Mo	202.031	Recovery = 131.47%		
Na	589.592†	2757.2	0.6149 mg/L	0.00259	0.6149 mg/L	0.00259	0.42%
	QC value	greater than the upper	limit for Na	589.592	Recovery = 122.98%		
Ni	231.604†	451.4	0.0117 mg/L	0.00044	0.0117 mg/L	0.00044	3.72%
	QC value	within limits for Ni	231.604	Recovery = 117.03%			
P	214.914†	161.1	0.1476 mg/L	0.00534	0.1476 mg/L	0.00534	3.62%
	QC value	greater than the upper	limit for P	214.914	Recovery = 147.64%		
Pb	220.353†	138.9	0.0097 mg/L	0.00038	0.0097 mg/L	0.00038	3.97%
	QC value	within limits for Pb	220.353	Recovery = 96.66%			
Sb	206.836†	24.8	0.0158 mg/L	0.00201	0.0158 mg/L	0.00201	12.69%
	QC value	greater than the upper	limit for Sb	206.836	Recovery = 157.99%		
Se	196.026†	41.8	0.0337 mg/L	0.00332	0.0337 mg/L	0.00332	9.86%
	QC value	greater than the upper	limit for Se	196.026	Recovery = 168.39%		
Sn	189.927†	59.6	0.0075 mg/L	0.00037	0.0075 mg/L	0.00037	4.96%
	QC value	less than the lower	limit for Sn	189.927	Recovery = 74.96%		
Sr	407.771†	852.6	0.0014 mg/L	0.00002	0.0014 mg/L	0.00002	1.75%
	QC value	greater than the upper	limit for Sr	407.771	Recovery = 136.17%		
Ti	337.279†	8219.1	0.0145 mg/L	0.00003	0.0145 mg/L	0.00003	0.22%
	QC value	greater than the upper	limit for Ti	337.279	Recovery = 144.92%		
Tl	190.801†	4.3	0.0053 mg/L	0.00181	0.0053 mg/L	0.00181	34.07%
	QC value	less than the lower	limit for Tl	190.801	Recovery = 53.01%		
V	292.402†	2216.3	0.0148 mg/L	0.00034	0.0148 mg/L	0.00034	2.32%
	QC value	greater than the upper	limit for V	292.402	Recovery = 148.10%		
Zn	213.857†	1435.1	0.0132 mg/L	0.00019	0.0132 mg/L	0.00019	1.42%
	QC value	greater than the upper	limit for Zn	213.857	Recovery = 131.50%		
QC Failed. Continue with analysis.							

Sequence No.: 11
Sample ID: IFA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 7/5/2013 8:55:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-20.0	-15.4	-0.0073	mg/L	-0.0073	mg/L	08:57:35
1	Fe 234.349†	132299.7	144513.4	95.98	mg/L	95.98	mg/L	08:57:32
1	K 766.490†	778.1	32.1	0.1918	mg/L	0.1918	mg/L	08:57:35
1	Li 670.784†	-180.5	38.4	0.0055	mg/L	0.0055	mg/L	08:57:35
1	Na 589.592†	791.6	385.0	0.1833	mg/L	0.1833	mg/L	08:57:35
1	Sr 407.771†	6214.7	6718.2	0.0082	mg/L	0.0082	mg/L	08:57:35
1	Y 371.029	2472638.7	2472638.7	0.915	mg/L			08:57:47
1	Ag 328.068†	1294.5	-451.1	0.0017	mg/L	0.0017	mg/L	08:57:50
1	Al 237.313†	2162660.5	2362855.1	261.5	mg/L	261.5	mg/L	08:57:47
1	As 188.979†	6.2	13.4	0.0141	mg/L	0.0141	mg/L	08:58:00
1	B 182.528†	22.6	34.3	0.0367	mg/L	0.0367	mg/L	08:58:00
1	Ba 233.527†	38.1	138.6	0.0043	mg/L	0.0043	mg/L	08:58:00
1	Be 313.107†	4504.5	6358.6	0.0007	mg/L	0.0007	mg/L	08:57:50
1	Ca 315.887†	20418426.3	22306345.2	243.1	mg/L	243.1	mg/L	08:57:44
1	Cd 228.802†	176.3	33.5	0.0004	mg/L	0.0004	mg/L	08:58:00
1	Co 228.616†	649.1	950.8	-0.0033	mg/L	-0.0033	mg/L	08:58:00
1	Cr 267.716†	687.1	184.3	0.0050	mg/L	0.0050	mg/L	08:58:00
1	Cu 324.752†	2266.7	-2326.8	0.0044	mg/L	0.0044	mg/L	08:57:50
1	Mg 279.077†	2850930.4	3114266.4	251.0	mg/L	251.0	mg/L	08:57:47
1	Mn 257.610†	27657.5	14139.7	-0.0019	mg/L	-0.0019	mg/L	08:57:50
1	Mn 294.920†	16866.4	19756.7	0.0530	mg/L	0.0530	mg/L	08:57:50
1	Mo 202.031†	432.7	436.7	0.0067	mg/L	0.0067	mg/L	08:58:00
1	Ni 231.604†	148.4	4.1	0.0017	mg/L	0.0017	mg/L	08:58:00
1	P 214.914†	-196.3	-187.4	-0.0704	mg/L	-0.0704	mg/L	08:58:00
1	Pb 220.353†	902.1	803.4	0.0032	mg/L	0.0032	mg/L	08:58:00
1	Sb 206.836†	97.6	58.7	0.0043	mg/L	0.0043	mg/L	08:58:00
1	Se 196.026†	29.1	20.9	0.0001	mg/L	0.0001	mg/L	08:58:00
1	Sn 189.927†	-943.2	-1059.7	-0.0079	mg/L	-0.0079	mg/L	08:58:00
1	Ti 337.279†	8184866.3	8941519.5	10.44	mg/L	10.44	mg/L	08:57:47
1	Tl 190.801†	51.1	60.6	0.0072	mg/L	0.0072	mg/L	08:58:00
1	V 292.402†	3258.9	3908.2	0.0016	mg/L	0.0016	mg/L	08:58:00
1	Zn 213.857†	1399.1	382.9	0.0012	mg/L	0.0012	mg/L	08:58:00
2	B 249.677†	-3.1	3.1	0.0030	mg/L	0.0030	mg/L	08:57:39
2	Fe 234.349†	133732.7	148078.7	98.35	mg/L	98.35	mg/L	08:57:37
2	K 766.490†	872.0	147.8	0.2548	mg/L	0.2548	mg/L	08:57:39
2	Li 670.784†	-210.1	2.9	0.0045	mg/L	0.0045	mg/L	08:57:39
2	Na 589.592†	714.3	311.3	0.1699	mg/L	0.1699	mg/L	08:57:39
2	Sr 407.771†	6318.5	6926.0	0.0084	mg/L	0.0084	mg/L	08:57:39
2	Y 371.029	2439244.6	2439244.6	0.903	mg/L			08:58:07
2	Ag 328.068†	1408.1	-305.9	0.0026	mg/L	0.0026	mg/L	08:58:09
2	Al 237.313†	2131896.6	2361132.0	261.3	mg/L	261.3	mg/L	08:58:07
2	As 188.979†	6.4	13.8	0.0144	mg/L	0.0144	mg/L	08:58:19
2	B 182.528†	13.9	24.9	0.0267	mg/L	0.0267	mg/L	08:58:19
2	Ba 233.527†	9.2	107.2	0.0041	mg/L	0.0041	mg/L	08:58:19
2	Be 313.107†	4367.8	6274.6	0.0006	mg/L	0.0006	mg/L	08:58:09
2	Ca 315.887†	20450023.8	22646689.8	246.8	mg/L	246.8	mg/L	08:58:04
2	Cd 228.802†	180.0	40.2	0.0006	mg/L	0.0006	mg/L	08:58:19
2	Co 228.616†	677.1	991.6	-0.0025	mg/L	-0.0025	mg/L	08:58:19
2	Cr 267.716†	719.7	230.7	0.0054	mg/L	0.0054	mg/L	08:58:19
2	Cu 324.752†	2324.6	-2228.8	0.0049	mg/L	0.0049	mg/L	08:58:09
2	Mg 279.077†	2806583.3	3107795.3	250.5	mg/L	250.5	mg/L	08:58:07
2	Mn 257.610†	27589.9	14478.5	-0.0020	mg/L	-0.0020	mg/L	08:58:09
2	Mn 294.920†	16781.5	19914.9	0.0534	mg/L	0.0534	mg/L	08:58:09
2	Mo 202.031†	465.8	479.8	0.0081	mg/L	0.0081	mg/L	08:58:19
2	Ni 231.604†	174.2	34.8	0.0024	mg/L	0.0024	mg/L	08:58:19
2	P 214.914†	-195.5	-189.4	-0.0717	mg/L	-0.0717	mg/L	08:58:19
2	Pb 220.353†	883.4	796.1	0.0027	mg/L	0.0027	mg/L	08:58:19
2	Sb 206.836†	99.9	62.8	0.0055	mg/L	0.0055	mg/L	08:58:19
2	Se 196.026†	26.2	18.1	-0.0023	mg/L	-0.0023	mg/L	08:58:19
2	Sn 189.927†	-990.1	-1125.7	-0.0154	mg/L	-0.0154	mg/L	08:58:19
2	Ti 337.279†	8075128.1	8942407.8	10.44	mg/L	10.44	mg/L	08:58:07
2	Tl 190.801†	46.5	56.3	0.0016	mg/L	0.0016	mg/L	08:58:19
2	V 292.402†	3249.6	3946.7	0.0018	mg/L	0.0018	mg/L	08:58:19
2	Zn 213.857†	1439.7	448.8	0.0015	mg/L	0.0015	mg/L	08:58:19

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2455941.6	0.909 mg/L	0.0087			0.96%
Ag 328.068†	-378.5	0.0021 mg/L	0.00061	0.0021 mg/L	0.00061	28.81%

Repl#	Analyte	Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	-24.0	-20.3	-0.0100 mg/L	-0.0100 mg/L	09:01:42
1	Fe 234.349†	140030.0	155767.2	103.5 mg/L	103.5 mg/L	09:01:39
1	K 766.490†	710.5	-27.4	0.1594 mg/L	0.1594 mg/L	09:01:42
1	Li 670.784†	-353.8	-158.0	0.0001 mg/L	0.0001 mg/L	09:01:42
1	Na 589.592†	770.9	377.8	0.1820 mg/L	0.1820 mg/L	09:01:42
1	Sr 407.771†	6487.4	7146.3	0.0087 mg/L	0.0087 mg/L	09:01:42
1	Y 371.029	2428042.7	2428042.7	0.899 mg/L		09:01:54
1	Ag 328.068†	90527.9	98841.1	0.5522 mg/L	0.5522 mg/L	09:01:57
1	Al 237.313†	2149138.3	2391203.4	264.6 mg/L	264.6 mg/L	09:01:54
1	As 188.979†	0.5	7.2	0.0092 mg/L	0.0092 mg/L	09:02:07
1	B 182.528†	23.4	35.6	0.0381 mg/L	0.0381 mg/L	09:02:07
1	Ba 233.527†	26682.4	29779.4	0.2626 mg/L	0.2626 mg/L	09:02:07
1	Be 313.107†	521801.4	581907.2	0.2563 mg/L	0.2563 mg/L	09:01:54
1	Ca 315.887†	20580435.8	22896236.9	249.6 mg/L	249.6 mg/L	09:01:51
1	Cd 228.802†	15037.7	16569.4	0.5167 mg/L	0.5167 mg/L	09:02:07
1	Co 228.616†	10310.4	11711.4	0.2343 mg/L	0.2343 mg/L	09:02:07
1	Cr 267.716†	26745.3	29186.2	0.2578 mg/L	0.2578 mg/L	09:01:57
1	Cu 324.752†	47164.0	47663.9	0.2608 mg/L	0.2608 mg/L	09:01:57
1	Mg 279.077†	2827088.2	3144943.5	253.5 mg/L	253.5 mg/L	09:01:54
1	Mn 257.610†	204606.5	211538.6	0.2504 mg/L	0.2504 mg/L	09:01:57
1	Mn 294.920†	104359.1	117424.8	0.3077 mg/L	0.3077 mg/L	09:01:57
1	Mo 202.031†	445.0	459.1	0.0050 mg/L	0.0050 mg/L	09:02:07
1	Ni 231.604†	18981.0	20957.1	0.4688 mg/L	0.4688 mg/L	09:02:07
1	P 214.914†	-187.1	-181.1	-0.0683 mg/L	-0.0683 mg/L	09:02:07
1	Pb 220.353†	7261.8	7896.2	0.5026 mg/L	0.5026 mg/L	09:02:07
1	Sb 206.836†	112.0	76.8	0.0084 mg/L	0.0084 mg/L	09:02:07
1	Se 196.026†	24.8	16.7	-0.0043 mg/L	-0.0043 mg/L	09:02:07
1	Sn 189.927†	-1012.6	-1155.7	-0.0182 mg/L	-0.0182 mg/L	09:02:07
1	Ti 337.279†	5031.3	6216.8	0.0122 mg/L	0.0122 mg/L	09:01:57
1	Tl 190.801†	41.1	50.5	-0.0083 mg/L	-0.0083 mg/L	09:02:07
1	V 292.402†	53271.9	59609.7	0.2766 mg/L	0.2766 mg/L	09:01:57
1	Zn 213.857†	64241.1	70318.5	0.5118 mg/L	0.5118 mg/L	09:01:57
2	B 249.677†	-24.4	-20.5	-0.0101 mg/L	-0.0101 mg/L	09:01:46
2	Fe 234.349†	137424.8	152163.8	101.1 mg/L	101.1 mg/L	09:01:44
2	K 766.490†	809.1	78.0	0.2169 mg/L	0.2169 mg/L	09:01:46
2	Li 670.784†	-232.6	-21.9	0.0038 mg/L	0.0038 mg/L	09:01:46
2	Na 589.592†	759.1	360.8	0.1789 mg/L	0.1789 mg/L	09:01:46
2	Sr 407.771†	6520.4	7149.5	0.0087 mg/L	0.0087 mg/L	09:01:46
2	Y 371.029	2439296.7	2439296.7	0.903 mg/L		09:02:14
2	Ag 328.068†	90769.4	98643.9	0.5510 mg/L	0.5510 mg/L	09:02:16
2	Al 237.313†	2162268.8	2394712.6	265.0 mg/L	265.0 mg/L	09:02:14
2	As 188.979†	5.8	13.1	0.0134 mg/L	0.0134 mg/L	09:02:26
2	B 182.528†	25.2	37.4	0.0401 mg/L	0.0401 mg/L	09:02:26
2	Ba 233.527†	26906.5	29890.6	0.2635 mg/L	0.2635 mg/L	09:02:26
2	Be 313.107†	525519.9	583346.7	0.2570 mg/L	0.2570 mg/L	09:02:14
2	Ca 315.887†	20459960.1	22657208.1	247.0 mg/L	247.0 mg/L	09:02:11
2	Cd 228.802†	15165.6	16633.8	0.5187 mg/L	0.5187 mg/L	09:02:26
2	Co 228.616†	10410.8	11769.7	0.2355 mg/L	0.2355 mg/L	09:02:26
2	Cr 267.716†	26696.5	28994.8	0.2561 mg/L	0.2561 mg/L	09:02:16
2	Cu 324.752†	47157.4	47414.5	0.2595 mg/L	0.2595 mg/L	09:02:16
2	Mg 279.077†	2842551.2	3147556.1	253.7 mg/L	253.7 mg/L	09:02:14
2	Mn 257.610†	204825.9	210731.3	0.2499 mg/L	0.2499 mg/L	09:02:16
2	Mn 294.920†	104680.9	117245.5	0.3073 mg/L	0.3073 mg/L	09:02:16
2	Mo 202.031†	425.8	435.6	0.0044 mg/L	0.0044 mg/L	09:02:26
2	Ni 231.604†	19121.3	21015.0	0.4701 mg/L	0.4701 mg/L	09:02:26
2	P 214.914†	-210.6	-206.1	-0.0839 mg/L	-0.0839 mg/L	09:02:26
2	Pb 220.353†	7312.3	7914.8	0.5038 mg/L	0.5038 mg/L	09:02:26
2	Sb 206.836†	114.7	79.1	0.0102 mg/L	0.0102 mg/L	09:02:26
2	Se 196.026†	27.2	19.2	-0.0021 mg/L	-0.0021 mg/L	09:02:26
2	Sn 189.927†	-1023.3	-1162.4	-0.0208 mg/L	-0.0208 mg/L	09:02:26
2	Ti 337.279†	4769.5	5901.1	0.0118 mg/L	0.0118 mg/L	09:02:16
2	Tl 190.801†	47.8	57.7	0.0001 mg/L	0.0001 mg/L	09:02:26
2	V 292.402†	53336.8	59408.2	0.2757 mg/L	0.2757 mg/L	09:02:16
2	Zn 213.857†	64314.5	70070.1	0.5101 mg/L	0.5101 mg/L	09:02:16

Mean Data: IFB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2433669.7	0.901 mg/L	0.0029			0.33%
Ag 328.068†	98742.5	0.5516 mg/L	0.00082	0.5516 mg/L	0.00082	0.15%

QC value within limits for Ag 328.068 Recovery = 110.32%

Al	237.313†	2392958.0	264.8 mg/L	0.27	264.8 mg/L	0.27	0.10%
	QC value within limits for Al	237.313	Recovery =	105.93%			
As	188.979†	10.1	0.0113 mg/L	0.00303	0.0113 mg/L	0.00303	26.80%
	QC value within limits for As	188.979	Recovery =	Not calculated			
B	249.677†	-20.4	-0.0100 mg/L	0.00011	-0.0100 mg/L	0.00011	1.09%
	QC value within limits for B	249.677	Recovery =	Not calculated			
B	182.528†	36.5	0.0391 mg/L	0.00139	0.0391 mg/L	0.00139	3.56%
	QC value within limits for B	182.528	Recovery =	Not calculated			
Ba	233.527†	29835.0	0.2631 mg/L	0.00069	0.2631 mg/L	0.00069	0.26%
	QC value within limits for Ba	233.527	Recovery =	105.22%			
Be	313.107†	582626.9	0.2567 mg/L	0.00045	0.2567 mg/L	0.00045	0.17%
	QC value within limits for Be	313.107	Recovery =	102.66%			
Ca	315.887†	22776722.5	248.3 mg/L	1.84	248.3 mg/L	1.84	0.74%
	QC value within limits for Ca	315.887	Recovery =	99.30%			
Cd	228.802†	16601.6	0.5177 mg/L	0.00145	0.5177 mg/L	0.00145	0.28%
	QC value within limits for Cd	228.802	Recovery =	103.54%			
Co	228.616†	11740.5	0.2349 mg/L	0.00083	0.2349 mg/L	0.00083	0.35%
	QC value within limits for Co	228.616	Recovery =	93.96%			
Cr	267.716†	29090.5	0.2570 mg/L	0.00118	0.2570 mg/L	0.00118	0.46%
	QC value within limits for Cr	267.716	Recovery =	102.79%			
Cu	324.752†	47539.2	0.2601 mg/L	0.00095	0.2601 mg/L	0.00095	0.36%
	QC value within limits for Cu	324.752	Recovery =	104.05%			
Fe	234.349†	153965.5	102.3 mg/L	1.70	102.3 mg/L	1.70	1.66%
	QC value within limits for Fe	234.349	Recovery =	102.27%			
K	766.490†	25.3	0.1881 mg/L	0.04065	0.1881 mg/L	0.04065	21.61%
	QC value within limits for K	766.490	Recovery =	Not calculated			
Li	670.784†	-90.0	0.0020 mg/L	0.00264	0.0020 mg/L	0.00264	133.83%
	QC value within limits for Li	670.784	Recovery =	Not calculated			
Mg	279.077†	3146249.8	253.6 mg/L	0.15	253.6 mg/L	0.15	0.06%
	QC value within limits for Mg	279.077	Recovery =	101.42%			
Mn	257.610†	211134.9	0.2501 mg/L	0.00035	0.2501 mg/L	0.00035	0.14%
	QC value within limits for Mn	257.610	Recovery =	100.05%			
Mn	294.920†	117335.2	0.3075 mg/L	0.00033	0.3075 mg/L	0.00033	0.11%
	QC value greater than the upper limit for Mn	294.920	Recovery =	123.00%			
Mo	202.031†	447.4	0.0047 mg/L	0.00045	0.0047 mg/L	0.00045	9.57%
	QC value within limits for Mo	202.031	Recovery =	Not calculated			
Na	589.592†	369.3	0.1804 mg/L	0.00219	0.1804 mg/L	0.00219	1.22%
	QC value within limits for Na	589.592	Recovery =	Not calculated			
Ni	231.604†	20986.0	0.4695 mg/L	0.00091	0.4695 mg/L	0.00091	0.19%
	QC value within limits for Ni	231.604	Recovery =	93.89%			
P	214.914†	-193.6	-0.0761 mg/L	0.01105	-0.0761 mg/L	0.01105	14.53%
	QC value within limits for P	214.914	Recovery =	Not calculated			
Pb	220.353†	7905.5	0.5032 mg/L	0.00087	0.5032 mg/L	0.00087	0.17%
	QC value within limits for Pb	220.353	Recovery =	100.64%			
Sb	206.836†	78.0	0.0093 mg/L	0.00127	0.0093 mg/L	0.00127	13.60%
	QC value within limits for Sb	206.836	Recovery =	Not calculated			
Se	196.026†	17.9	-0.0032 mg/L	0.00157	-0.0032 mg/L	0.00157	48.82%
	QC value within limits for Se	196.026	Recovery =	Not calculated			
Sn	189.927†	-1159.1	-0.0195 mg/L	0.00184	-0.0195 mg/L	0.00184	9.45%
	QC value within limits for Sn	189.927	Recovery =	Not calculated			
Sr	407.771†	7147.9	0.0087 mg/L	0.00000	0.0087 mg/L	0.00000	0.03%
	QC value within limits for Sr	407.771	Recovery =	Not calculated			
Ti	337.279†	6058.9	0.0120 mg/L	0.00026	0.0120 mg/L	0.00026	2.18%
	QC value within limits for Ti	337.279	Recovery =	Not calculated			
Tl	190.801†	54.1	-0.0041 mg/L	0.00594	-0.0041 mg/L	0.00594	144.73%
	QC value within limits for Tl	190.801	Recovery =	Not calculated			
V	292.402†	59508.9	0.2762 mg/L	0.00066	0.2762 mg/L	0.00066	0.24%
	QC value within limits for V	292.402	Recovery =	110.46%			
Zn	213.857†	70194.3	0.5110 mg/L	0.00122	0.5110 mg/L	0.00122	0.24%
	QC value within limits for Zn	213.857	Recovery =	102.19%			
QC Failed. Continue with analysis.							

Sequence No.: 13
Sample ID: Ca 500
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 156
Date Collected: 7/5/2013 9:04:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Ca 500

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
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1	B 249.677†	-13.2	-7.8	-0.0030 mg/L	-0.0030 mg/L	09:05:54
1	Fe 234.349†	1382.5	1491.9	0.2188 mg/L	0.2188 mg/L	09:05:54
1	K 766.490†	856.8	111.0	0.2348 mg/L	0.2348 mg/L	09:05:54
1	Li 670.784†	-348.6	-142.3	0.0005 mg/L	0.0005 mg/L	09:05:44
1	Na 589.592†	634.1	207.7	0.1510 mg/L	0.1510 mg/L	09:05:44
1	Sr 407.771†	210898.7	228554.2	0.2669 mg/L	0.2669 mg/L	09:05:44
1	Y 371.029	2491615.1	2491615.1	0.922 mg/L		09:06:16
1	Ag 328.068†	1241.3	-519.5	-0.0011 mg/L	-0.0011 mg/L	09:06:18
1	Al 237.313†	327.4	785.4	0.1003 mg/L	0.1003 mg/L	09:06:29
1	As 188.979†	12.8	20.5	0.0193 mg/L	0.0193 mg/L	09:06:29
1	B 182.528†	-22.6	-14.9	-0.0161 mg/L	-0.0161 mg/L	09:06:29
1	Ba 233.527†	1004.0	1185.4	0.0135 mg/L	0.0135 mg/L	09:06:29
1	Be 313.107†	-2384.2	-1146.6	-0.0001 mg/L	-0.0001 mg/L	09:06:18
1	Ca 315.887†	40497880.4	43903605.3	478.5 mg/L	478.5 mg/L	09:06:14
1	Cd 228.802†	157.7	12.0	0.0014 mg/L	0.0014 mg/L	09:06:29
1	Co 228.616†	-216.8	6.8	0.0001 mg/L	0.0001 mg/L	09:06:29
1	Cr 267.716†	672.7	163.0	0.0048 mg/L	0.0048 mg/L	09:06:18
1	Cu 324.752†	4232.8	-214.3	0.0033 mg/L	0.0033 mg/L	09:06:18
1	Mg 279.077†	42387.6	45946.8	3.728 mg/L	3.728 mg/L	09:06:18
1	Mn 257.610†	43159.6	30714.6	0.0410 mg/L	0.0410 mg/L	09:06:18
1	Mn 294.920†	11661.7	13974.2	0.0380 mg/L	0.0380 mg/L	09:06:18
1	Mo 202.031†	527.7	536.1	0.0251 mg/L	0.0251 mg/L	09:06:29
1	Ni 231.604†	274.0	139.0	0.0048 mg/L	0.0048 mg/L	09:06:29
1	P 214.914†	78.2	111.8	0.1168 mg/L	0.1168 mg/L	09:06:29
1	Pb 220.353†	-78.1	-266.8	-0.0189 mg/L	-0.0189 mg/L	09:06:29
1	Sb 206.836†	77.2	35.9	0.0209 mg/L	0.0209 mg/L	09:06:29
1	Se 196.026†	-17.4	-29.7	-0.0155 mg/L	-0.0155 mg/L	09:06:29
1	Sn 189.927†	-968.0	-1078.7	0.1348 mg/L	0.1348 mg/L	09:06:29
1	Ti 337.279†	5770.7	6875.5	0.0129 mg/L	0.0129 mg/L	09:06:18
1	Tl 190.801†	47.4	56.1	0.0650 mg/L	0.0650 mg/L	09:06:29
1	V 292.402†	1172.1	1618.9	0.0122 mg/L	0.0122 mg/L	09:06:18
1	Zn 213.857†	1508.1	489.4	0.0062 mg/L	0.0062 mg/L	09:06:29
2	B 249.677†	-11.8	-6.2	-0.0021 mg/L	-0.0021 mg/L	09:06:07
2	Fe 234.349†	1375.5	1470.2	0.2104 mg/L	0.2104 mg/L	09:06:07
2	K 766.490†	881.7	128.9	0.2446 mg/L	0.2446 mg/L	09:06:07
2	Li 670.784†	-373.5	-165.4	-0.0001 mg/L	-0.0001 mg/L	09:05:57
2	Na 589.592†	657.4	226.2	0.1544 mg/L	0.1544 mg/L	09:05:57
2	Sr 407.771†	210795.6	226282.9	0.2642 mg/L	0.2642 mg/L	09:05:57
2	Y 371.029	2515385.2	2515385.2	0.931 mg/L		09:06:36
2	Ag 328.068†	1205.4	-570.8	-0.0014 mg/L	-0.0014 mg/L	09:06:39
2	Al 237.313†	337.6	792.9	0.1011 mg/L	0.1011 mg/L	09:06:49
2	As 188.979†	9.7	17.1	0.0168 mg/L	0.0168 mg/L	09:06:49
2	B 182.528†	-19.4	-11.3	-0.0122 mg/L	-0.0122 mg/L	09:06:49
2	Ba 233.527†	993.0	1163.3	0.0133 mg/L	0.0133 mg/L	09:06:49
2	Be 313.107†	-2337.0	-1071.5	-0.0001 mg/L	-0.0001 mg/L	09:06:39
2	Ca 315.887†	40570845.9	43567089.9	474.8 mg/L	474.8 mg/L	09:06:34
2	Cd 228.802†	154.8	7.2	0.0012 mg/L	0.0012 mg/L	09:06:49
2	Co 228.616†	-207.2	19.3	0.0004 mg/L	0.0004 mg/L	09:06:49
2	Cr 267.716†	588.3	65.5	0.0040 mg/L	0.0040 mg/L	09:06:39
2	Cu 324.752†	4181.5	-312.7	0.0027 mg/L	0.0027 mg/L	09:06:39
2	Mg 279.077†	42616.2	45758.1	3.713 mg/L	3.713 mg/L	09:06:39
2	Mn 257.610†	43318.5	30443.1	0.0406 mg/L	0.0406 mg/L	09:06:39
2	Mn 294.920†	11880.9	14090.1	0.0383 mg/L	0.0383 mg/L	09:06:39
2	Mo 202.031†	496.4	497.1	0.0235 mg/L	0.0235 mg/L	09:06:49
2	Ni 231.604†	259.5	120.6	0.0043 mg/L	0.0043 mg/L	09:06:49
2	P 214.914†	74.3	106.9	0.1137 mg/L	0.1137 mg/L	09:06:49
2	Pb 220.353†	-101.1	-290.6	-0.0206 mg/L	-0.0206 mg/L	09:06:49
2	Sb 206.836†	82.8	41.0	0.0233 mg/L	0.0233 mg/L	09:06:49
2	Se 196.026†	-11.6	-23.3	-0.0111 mg/L	-0.0111 mg/L	09:06:49
2	Sn 189.927†	-979.4	-1081.0	0.1322 mg/L	0.1322 mg/L	09:06:49
2	Ti 337.279†	5726.6	6769.0	0.0128 mg/L	0.0128 mg/L	09:06:39
2	Tl 190.801†	40.0	47.7	0.0567 mg/L	0.0567 mg/L	09:06:49
2	V 292.402†	1216.6	1654.7	0.0124 mg/L	0.0124 mg/L	09:06:39
2	Zn 213.857†	1524.6	491.7	0.0062 mg/L	0.0062 mg/L	09:06:49

Mean Data: Ca 500

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2503500.2	0.927 mg/L	0.0062			0.67%
Ag 328.068†	-545.2	-0.0012 mg/L	0.00020	-0.0012 mg/L	0.00020	16.49%
Al 237.313†	789.2	0.1007 mg/L	0.00059	0.1007 mg/L	0.00059	0.58%
As 188.979†	18.8	0.0180 mg/L	0.00176	0.0180 mg/L	0.00176	9.76%

2	Fe 234.349†	388380.4	397401.8	265.0	mg/L	265.0	mg/L	09:11:42
2	K 766.490†	830.4	31.8	0.1917	mg/L	0.1917	mg/L	09:11:44
2	Li 670.784†	-436.3	-210.9	-0.0013	mg/L	-0.0013	mg/L	09:11:44
2	Na 589.592†	516.2	48.5	0.1220	mg/L	0.1220	mg/L	09:11:44
2	Sr 407.771†	431.0	370.4	0.0008	mg/L	0.0008	mg/L	09:11:44
2	Y 371.029	2639674.2	2639674.2	0.977	mg/L			09:12:03
2	Ag 328.068†	970.8	-871.8	0.0036	mg/L	0.0036	mg/L	09:12:05
2	Al 237.313†	10075.1	10739.7	1.202	mg/L	1.202	mg/L	09:12:03
2	As 188.979†	19.8	26.9	0.0239	mg/L	0.0239	mg/L	09:12:15
2	B 182.528†	-1.1	8.4	0.0089	mg/L	0.0089	mg/L	09:12:15
2	Ba 233.527†	302.7	406.7	0.0067	mg/L	0.0067	mg/L	09:12:15
2	Be 313.107†	-2283.7	-898.8	0.0000	mg/L	0.0000	mg/L	09:12:05
2	Ca 315.887†	38694.6	41469.7	0.4882	mg/L	0.4882	mg/L	09:12:05
2	Cd 228.802†	210.9	56.7	-0.0017	mg/L	-0.0017	mg/L	09:12:15
2	Co 228.616†	4732.8	5084.6	0.1017	mg/L	0.1017	mg/L	09:12:15
2	Cr 267.716†	2040.3	1521.5	0.0167	mg/L	0.0167	mg/L	09:12:05
2	Cu 324.752†	16849.6	12438.4	0.0713	mg/L	0.0713	mg/L	09:12:05
2	Mg 279.077†	1051.8	1072.8	0.1117	mg/L	0.1117	mg/L	09:12:05
2	Mn 257.610†	43963.8	28913.3	-0.0210	mg/L	-0.0210	mg/L	09:12:03
2	Mn 294.920†	64151.7	66975.3	0.1762	mg/L	0.1762	mg/L	09:12:05
2	Mo 202.031†	17.7	-17.8	-0.0384	mg/L	-0.0384	mg/L	09:12:05
2	Ni 231.604†	9231.7	9288.3	0.2087	mg/L	0.2087	mg/L	09:12:05
2	P 214.914†	197.4	229.0	0.1898	mg/L	0.1898	mg/L	09:12:15
2	Pb 220.353†	146.9	-31.8	-0.0025	mg/L	-0.0025	mg/L	09:12:15
2	Sb 206.836†	122.1	77.1	-0.0357	mg/L	-0.0357	mg/L	09:12:15
2	Se 196.026†	-76.6	-89.2	-0.1091	mg/L	-0.1091	mg/L	09:12:15
2	Sn 189.927†	37.3	8.8	0.0002	mg/L	0.0002	mg/L	09:12:15
2	Ti 337.279†	6607.1	7380.5	0.0135	mg/L	0.0135	mg/L	09:12:05
2	Tl 190.801†	-21.8	-17.6	-0.1751	mg/L	-0.1751	mg/L	09:12:15
2	V 292.402†	8784.0	9336.4	0.0470	mg/L	0.0470	mg/L	09:12:05
2	Zn 213.857†	5006.3	3977.3	0.0185	mg/L	0.0185	mg/L	09:12:15

Mean Data: Fe 250

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2640785.4	0.978	mg/L	0.0006				0.06%
Ag 328.068†	-907.2	0.0034	mg/L	0.00024	0.0034	mg/L	0.00024	7.02%
Al 237.313†	10735.2	1.201	mg/L	0.0007	1.201	mg/L	0.0007	0.06%
As 188.979†	23.4	0.0213	mg/L	0.00366	0.0213	mg/L	0.00366	17.16%
B 249.677†	-64.5	-0.0346	mg/L	0.00212	-0.0346	mg/L	0.00212	6.12%
B 182.528†	8.3	0.0088	mg/L	0.00018	0.0088	mg/L	0.00018	2.02%
Ba 233.527†	401.1	0.0066	mg/L	0.00007	0.0066	mg/L	0.00007	1.05%
Be 313.107†	-951.7	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	83.83%
Ca 315.887†	41444.3	0.4879	mg/L	0.00039	0.4879	mg/L	0.00039	0.08%
Cd 228.802†	55.6	-0.0018	mg/L	0.00007	-0.0018	mg/L	0.00007	4.20%
Co 228.616†	5079.7	0.1016	mg/L	0.00014	0.1016	mg/L	0.00014	0.13%
Cr 267.716†	1559.7	0.0170	mg/L	0.00047	0.0170	mg/L	0.00047	2.77%
Cu 324.752†	12436.4	0.0713	mg/L	0.00001	0.0713	mg/L	0.00001	0.02%
Fe 234.349†	399007.5	266.1	mg/L	1.51	266.1	mg/L	1.51	0.57%
K 766.490†	51.9	0.2026	mg/L	0.01546	0.2026	mg/L	0.01546	7.63%
Li 670.784†	-195.4	-0.0009	mg/L	0.00060	-0.0009	mg/L	0.00060	64.98%
Mg 279.077†	1028.9	0.1082	mg/L	0.00500	0.1082	mg/L	0.00500	4.62%
Mn 257.610†	28952.2	-0.0212	mg/L	0.00027	-0.0212	mg/L	0.00027	1.28%
Mn 294.920†	66908.0	0.1760	mg/L	0.00025	0.1760	mg/L	0.00025	0.14%
Mo 202.031†	-7.3	-0.0381	mg/L	0.00041	-0.0381	mg/L	0.00041	1.07%
Na 589.592†	45.6	0.1215	mg/L	0.00075	0.1215	mg/L	0.00075	0.62%
Ni 231.604†	9305.0	0.2090	mg/L	0.00053	0.2090	mg/L	0.00053	0.25%
P 214.914†	224.2	0.1868	mg/L	0.00429	0.1868	mg/L	0.00429	2.29%
Pb 220.353†	-33.7	-0.0027	mg/L	0.00019	-0.0027	mg/L	0.00019	7.23%
Sb 206.836†	74.6	-0.0371	mg/L	0.00210	-0.0371	mg/L	0.00210	5.66%
Se 196.026†	-84.3	-0.1060	mg/L	0.00445	-0.1060	mg/L	0.00445	4.20%
Sn 189.927†	19.3	0.0018	mg/L	0.00220	0.0018	mg/L	0.00220	125.65%
Sr 407.771†	374.8	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	0.91%
Ti 337.279†	7438.1	0.0136	mg/L	0.00010	0.0136	mg/L	0.00010	0.70%
Tl 190.801†	-16.1	-0.1744	mg/L	0.00105	-0.1744	mg/L	0.00105	0.60%
V 292.402†	9336.4	0.0470	mg/L	0.00001	0.0470	mg/L	0.00001	0.02%
Zn 213.857†	4003.9	0.0186	mg/L	0.00021	0.0186	mg/L	0.00021	1.11%

Sequence No.: 15

Sample ID: WASH

Analyst:

Autosampler Location: 0

Date Collected: 7/5/2013 9:15:23 AM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-19.0	-12.7	-0.0058	mg/L	-0.0058	mg/L	09:17:08
1	Fe 234.349†	98.0	92.1	0.0719	mg/L	0.0719	mg/L	09:17:08
1	K 766.490†	858.0	47.7	0.2003	mg/L	0.2003	mg/L	09:16:58
1	Li 670.784†	-227.5	6.1	0.0046	mg/L	0.0046	mg/L	09:16:58
1	Na 589.592†	379.1	-97.4	0.0955	mg/L	0.0955	mg/L	09:16:58
1	Sr 407.771†	58.1	-11.9	0.0004	mg/L	0.0004	mg/L	09:16:58
1	Y 371.029	2677640.2	2677640.2	0.991	mg/L			09:17:24
1	Ag 328.068†	1843.7	-5.3	0.0017	mg/L	0.0017	mg/L	09:17:27
1	Al 237.313†	8.3	438.8	0.0619	mg/L	0.0619	mg/L	09:17:27
1	As 188.979†	-3.6	3.0	0.0065	mg/L	0.0065	mg/L	09:17:37
1	B 182.528†	-7.5	2.0	0.0021	mg/L	0.0021	mg/L	09:17:37
1	Ba 233.527†	-57.9	38.6	0.0035	mg/L	0.0035	mg/L	09:17:37
1	Be 313.107†	-1324.7	101.7	0.0004	mg/L	0.0004	mg/L	09:17:27
1	Ca 315.887†	2913.1	4814.1	0.0884	mg/L	0.0884	mg/L	09:17:27
1	Cd 228.802†	160.7	3.1	0.0011	mg/L	0.0011	mg/L	09:17:37
1	Co 228.616†	-228.9	10.9	0.0002	mg/L	0.0002	mg/L	09:17:37
1	Cr 267.716†	614.9	54.1	0.0039	mg/L	0.0039	mg/L	09:17:27
1	Cu 324.752†	4593.7	-169.0	0.0035	mg/L	0.0035	mg/L	09:17:27
1	Mg 279.077†	338.4	337.9	0.0524	mg/L	0.0524	mg/L	09:17:27
1	Mn 257.610†	16078.9	146.8	0.0019	mg/L	0.0019	mg/L	09:17:27
1	Mn 294.920†	-1275.2	45.9	0.0016	mg/L	0.0016	mg/L	09:17:27
1	Mo 202.031†	67.2	31.8	0.0038	mg/L	0.0038	mg/L	09:17:37
1	Ni 231.604†	175.1	18.6	0.0020	mg/L	0.0020	mg/L	09:17:27
1	P 214.914†	-47.8	-21.1	0.0337	mg/L	0.0337	mg/L	09:17:37
1	Pb 220.353†	168.7	-11.9	-0.0010	mg/L	-0.0010	mg/L	09:17:37
1	Sb 206.836†	47.2	-0.2	0.0041	mg/L	0.0041	mg/L	09:17:37
1	Se 196.026†	9.2	-1.7	0.0039	mg/L	0.0039	mg/L	09:17:37
1	Sn 189.927†	41.2	12.3	0.0005	mg/L	0.0005	mg/L	09:17:37
1	Ti 337.279†	364.9	987.8	0.0061	mg/L	0.0061	mg/L	09:17:27
1	Tl 190.801†	-5.5	-0.8	0.0004	mg/L	0.0004	mg/L	09:17:37
1	V 292.402†	-172.3	174.5	0.0054	mg/L	0.0054	mg/L	09:17:27
1	Zn 213.857†	1191.9	56.9	0.0031	mg/L	0.0031	mg/L	09:17:37
2	B 249.677†	-7.2	-0.7	0.0009	mg/L	0.0009	mg/L	09:17:21
2	Fe 234.349†	108.4	101.6	0.0783	mg/L	0.0783	mg/L	09:17:21
2	K 766.490†	813.6	-3.8	0.1722	mg/L	0.1722	mg/L	09:17:11
2	Li 670.784†	-262.4	-27.0	0.0037	mg/L	0.0037	mg/L	09:17:11
2	Na 589.592†	269.5	-210.1	0.0750	mg/L	0.0750	mg/L	09:17:11
2	Sr 407.771†	-16.0	-86.6	0.0003	mg/L	0.0003	mg/L	09:17:11
2	Y 371.029	2699671.1	2699671.1	0.999	mg/L			09:17:39
2	Ag 328.068†	1812.6	-51.7	0.0015	mg/L	0.0015	mg/L	09:17:41
2	Al 237.313†	-182.3	248.0	0.0408	mg/L	0.0408	mg/L	09:17:41
2	As 188.979†	-2.8	3.9	0.0072	mg/L	0.0072	mg/L	09:17:52
2	B 182.528†	-9.7	-0.1	-0.0002	mg/L	-0.0002	mg/L	09:17:52
2	Ba 233.527†	-62.0	35.0	0.0034	mg/L	0.0034	mg/L	09:17:52
2	Be 313.107†	-1307.9	129.4	0.0004	mg/L	0.0004	mg/L	09:17:41
2	Ca 315.887†	3224.7	5101.9	0.0915	mg/L	0.0915	mg/L	09:17:41
2	Cd 228.802†	156.5	-2.5	0.0009	mg/L	0.0009	mg/L	09:17:52
2	Co 228.616†	-242.7	-1.1	0.0000	mg/L	0.0000	mg/L	09:17:52
2	Cr 267.716†	589.7	23.8	0.0036	mg/L	0.0036	mg/L	09:17:41
2	Cu 324.752†	4515.1	-285.5	0.0029	mg/L	0.0029	mg/L	09:17:41
2	Mg 279.077†	356.9	353.7	0.0537	mg/L	0.0537	mg/L	09:17:41
2	Mn 257.610†	16047.8	-16.7	0.0017	mg/L	0.0017	mg/L	09:17:41
2	Mn 294.920†	-1122.2	209.5	0.0021	mg/L	0.0021	mg/L	09:17:41
2	Mo 202.031†	29.7	-6.2	0.0022	mg/L	0.0022	mg/L	09:17:52
2	Ni 231.604†	179.8	21.8	0.0021	mg/L	0.0021	mg/L	09:17:41
2	P 214.914†	-32.1	-5.0	0.0438	mg/L	0.0438	mg/L	09:17:52
2	Pb 220.353†	162.8	-19.2	-0.0015	mg/L	-0.0015	mg/L	09:17:52
2	Sb 206.836†	39.0	-8.8	0.0001	mg/L	0.0001	mg/L	09:17:52
2	Se 196.026†	15.8	4.9	0.0084	mg/L	0.0084	mg/L	09:17:52
2	Sn 189.927†	23.5	-5.8	-0.0022	mg/L	-0.0022	mg/L	09:17:52
2	Ti 337.279†	196.5	816.4	0.0059	mg/L	0.0059	mg/L	09:17:41
2	Tl 190.801†	-5.1	-0.3	0.0008	mg/L	0.0008	mg/L	09:17:52
2	V 292.402†	-328.8	19.3	0.0046	mg/L	0.0046	mg/L	09:17:41
2	Zn 213.857†	1186.7	41.9	0.0030	mg/L	0.0030	mg/L	09:17:52

Replicate Data: CRL3

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	7.2	14.3	0.0092 mg/L	0.0092 mg/L	12:06:09
1	Fe 234.349†	76.9	76.3	0.0611 mg/L	0.0611 mg/L	12:06:09
1	K 766.490†	1636.3	948.1	0.6910 mg/L	0.6910 mg/L	12:05:59
1	Li 670.784†	112.1	356.6	0.0142 mg/L	0.0142 mg/L	12:05:59
1	Na 589.592†	2446.2	2160.3	0.5063 mg/L	0.5063 mg/L	12:05:59
1	Sr 407.771†	779.1	770.3	0.0013 mg/L	0.0013 mg/L	12:05:59
1	Y 371.029	2502656.6	2502656.6	0.927 mg/L		12:06:25
1	Ag 328.068†	2486.1	818.0	0.0063 mg/L	0.0063 mg/L	12:06:27
1	Al 237.313†	15.2	446.9	0.0628 mg/L	0.0628 mg/L	12:06:27
1	As 188.979†	7.1	14.3	0.0148 mg/L	0.0148 mg/L	12:06:37
1	B 182.528†	-1.0	8.4	0.0090 mg/L	0.0090 mg/L	12:06:37
1	Ba 233.527†	836.3	999.6	0.0118 mg/L	0.0118 mg/L	12:06:37
1	Be 313.107†	539.4	2020.1	0.0013 mg/L	0.0013 mg/L	12:06:27
1	Ca 315.887†	5540.3	7855.0	0.1216 mg/L	0.1216 mg/L	12:06:27
1	Cd 228.802†	296.5	160.9	0.0060 mg/L	0.0060 mg/L	12:06:37
1	Co 228.616†	214.1	472.8	0.0095 mg/L	0.0095 mg/L	12:06:37
1	Cr 267.716†	1417.2	963.3	0.0118 mg/L	0.0118 mg/L	12:06:27
1	Cu 324.752†	5646.0	1290.6	0.0114 mg/L	0.0114 mg/L	12:06:27
1	Mg 279.077†	1001.8	1077.8	0.1121 mg/L	0.1121 mg/L	12:06:27
1	Mn 257.610†	21555.6	7191.8	0.0109 mg/L	0.0109 mg/L	12:06:27
1	Mn 294.920†	2021.1	3513.6	0.0107 mg/L	0.0107 mg/L	12:06:27
1	Mo 202.031†	237.9	220.8	0.0118 mg/L	0.0118 mg/L	12:06:37
1	Ni 231.604†	551.6	437.3	0.0114 mg/L	0.0114 mg/L	12:06:27
1	P 214.914†	93.0	127.5	0.1266 mg/L	0.1266 mg/L	12:06:37
1	Pb 220.353†	274.6	114.2	0.0079 mg/L	0.0079 mg/L	12:06:37
1	Sb 206.836†	65.6	22.9	0.0149 mg/L	0.0149 mg/L	12:06:37
1	Se 196.026†	44.9	37.6	0.0308 mg/L	0.0308 mg/L	12:06:37
1	Sn 189.927†	64.3	40.1	0.0046 mg/L	0.0046 mg/L	12:06:37
1	Ti 337.279†	6414.0	7542.2	0.0137 mg/L	0.0137 mg/L	12:06:27
1	Tl 190.801†	1.9	6.8	0.0077 mg/L	0.0077 mg/L	12:06:37
1	V 292.402†	1535.9	2006.0	0.0138 mg/L	0.0138 mg/L	12:06:27
1	Zn 213.857†	2305.1	1342.4	0.0125 mg/L	0.0125 mg/L	12:06:37
2	B 249.677†	-3.8	2.4	0.0026 mg/L	0.0026 mg/L	12:06:21
2	Fe 234.349†	77.7	76.9	0.0616 mg/L	0.0616 mg/L	12:06:21
2	K 766.490†	1584.9	889.6	0.6591 mg/L	0.6591 mg/L	12:06:11
2	Li 670.784†	7.4	243.6	0.0111 mg/L	0.0111 mg/L	12:06:11
2	Na 589.592†	2362.5	2065.5	0.4890 mg/L	0.4890 mg/L	12:06:11
2	Sr 407.771†	818.6	811.3	0.0013 mg/L	0.0013 mg/L	12:06:11
2	Y 371.029	2507143.3	2507143.3	0.928 mg/L		12:06:39
2	Ag 328.068†	2505.3	833.9	0.0064 mg/L	0.0064 mg/L	12:06:42
2	Al 237.313†	-121.3	299.8	0.0466 mg/L	0.0466 mg/L	12:06:42
2	As 188.979†	8.3	15.6	0.0157 mg/L	0.0157 mg/L	12:06:52
2	B 182.528†	0.8	10.4	0.0111 mg/L	0.0111 mg/L	12:06:52
2	Ba 233.527†	850.2	1012.9	0.0120 mg/L	0.0120 mg/L	12:06:52
2	Be 313.107†	487.2	1962.9	0.0012 mg/L	0.0012 mg/L	12:06:42
2	Ca 315.887†	5400.0	7693.2	0.1198 mg/L	0.1198 mg/L	12:06:42
2	Cd 228.802†	290.2	153.6	0.0058 mg/L	0.0058 mg/L	12:06:52
2	Co 228.616†	175.7	431.0	0.0086 mg/L	0.0086 mg/L	12:06:52
2	Cr 267.716†	1464.5	1011.5	0.0122 mg/L	0.0122 mg/L	12:06:42
2	Cu 324.752†	5559.0	1186.1	0.0108 mg/L	0.0108 mg/L	12:06:42
2	Mg 279.077†	983.4	1056.0	0.1103 mg/L	0.1103 mg/L	12:06:42
2	Mn 257.610†	21617.9	7217.2	0.0110 mg/L	0.0110 mg/L	12:06:42
2	Mn 294.920†	1910.2	3390.2	0.0104 mg/L	0.0104 mg/L	12:06:42
2	Mo 202.031†	228.4	210.2	0.0114 mg/L	0.0114 mg/L	12:06:52
2	Ni 231.604†	531.8	414.9	0.0109 mg/L	0.0109 mg/L	12:06:42
2	P 214.914†	95.3	129.7	0.1280 mg/L	0.1280 mg/L	12:06:52
2	Pb 220.353†	331.9	175.5	0.0122 mg/L	0.0122 mg/L	12:06:52
2	Sb 206.836†	60.6	17.4	0.0124 mg/L	0.0124 mg/L	12:06:52
2	Se 196.026†	44.8	37.3	0.0306 mg/L	0.0306 mg/L	12:06:52
2	Sn 189.927†	86.3	63.7	0.0081 mg/L	0.0081 mg/L	12:06:52
2	Ti 337.279†	6403.0	7518.0	0.0137 mg/L	0.0137 mg/L	12:06:42
2	Tl 190.801†	0.4	5.2	0.0062 mg/L	0.0062 mg/L	12:06:52
2	V 292.402†	1451.2	1911.7	0.0134 mg/L	0.0134 mg/L	12:06:42
2	Zn 213.857†	2268.0	1298.0	0.0121 mg/L	0.0121 mg/L	12:06:52

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2504900.0	0.927 mg/L	0.0012			0.13%
Ag 328.068†	825.9	0.0064 mg/L	0.00006	0.0064 mg/L	0.00006	0.98%
	QC value greater than the upper limit for Ag 328.068 Recovery = 127.09%					
Al 237.313†	373.3	0.0547 mg/L	0.01151	0.0547 mg/L	0.01151	21.04%
	QC value within limits for Al 237.313 Recovery = 109.40%					
As 188.979†	15.0	0.0153 mg/L	0.00066	0.0153 mg/L	0.00066	4.34%
	QC value greater than the upper limit for As 188.979 Recovery = 152.64%					
B 249.677†	8.3	0.0059 mg/L	0.00468	0.0059 mg/L	0.00468	79.19%
	QC value less than the lower limit for B 249.677 Recovery = 59.11%					
B 182.528†	9.4	0.0100 mg/L	0.00150	0.0100 mg/L	0.00150	14.93%
	QC value within limits for B 182.528 Recovery = 100.20%					
Ba 233.527†	1006.3	0.0119 mg/L	0.00008	0.0119 mg/L	0.00008	0.69%
	QC value within limits for Ba 233.527 Recovery = 118.97%					
Be 313.107†	1991.5	0.0013 mg/L	0.00002	0.0013 mg/L	0.00002	1.41%
	QC value greater than the upper limit for Be 313.107 Recovery = 125.56%					
Ca 315.887†	7774.1	0.1207 mg/L	0.00125	0.1207 mg/L	0.00125	1.03%
	QC value greater than the upper limit for Ca 315.887 Recovery = 120.69%					
Cd 228.802†	157.3	0.0059 mg/L	0.00016	0.0059 mg/L	0.00016	2.73%
	QC value within limits for Cd 228.802 Recovery = 118.34%					
Co 228.616†	451.9	0.0090 mg/L	0.00059	0.0090 mg/L	0.00059	6.54%
	QC value within limits for Co 228.616 Recovery = 90.36%					
Cr 267.716†	987.4	0.0120 mg/L	0.00030	0.0120 mg/L	0.00030	2.47%
	QC value greater than the upper limit for Cr 267.716 Recovery = 120.02%					
Cu 324.752†	1238.4	0.0111 mg/L	0.00040	0.0111 mg/L	0.00040	3.59%
	QC value within limits for Cu 324.752 Recovery = 110.75%					
Fe 234.349†	76.6	0.0614 mg/L	0.00033	0.0614 mg/L	0.00033	0.54%
	QC value greater than the upper limit for Fe 234.349 Recovery = 122.77%					
K 766.490†	918.8	0.6751 mg/L	0.02256	0.6751 mg/L	0.02256	3.34%
	QC value greater than the upper limit for K 766.490 Recovery = 135.02%					
Li 670.784†	300.1	0.0127 mg/L	0.00220	0.0127 mg/L	0.00220	17.30%
	QC value greater than the upper limit for Li 670.784 Recovery = 126.97%					
Mg 279.077†	1066.9	0.1112 mg/L	0.00124	0.1112 mg/L	0.00124	1.12%
	QC value within limits for Mg 279.077 Recovery = 111.18%					
Mn 257.610†	7204.5	0.0109 mg/L	0.00002	0.0109 mg/L	0.00002	0.21%
	QC value within limits for Mn 257.610 Recovery = 109.47%					
Mn 294.920†	3451.9	0.0105 mg/L	0.00023	0.0105 mg/L	0.00023	2.16%
	QC value within limits for Mn 294.920 Recovery = 105.17%					
Mo 202.031†	215.5	0.0116 mg/L	0.00032	0.0116 mg/L	0.00032	2.74%
	QC value within limits for Mo 202.031 Recovery = 116.06%					
Na 589.592†	2112.9	0.4977 mg/L	0.01220	0.4977 mg/L	0.01220	2.45%
	QC value within limits for Na 589.592 Recovery = 99.53%					
Ni 231.604†	426.1	0.0111 mg/L	0.00035	0.0111 mg/L	0.00035	3.18%
	QC value within limits for Ni 231.604 Recovery = 111.36%					
P 214.914†	128.6	0.1273 mg/L	0.00099	0.1273 mg/L	0.00099	0.78%
	QC value greater than the upper limit for P 214.914 Recovery = 127.32%					
Pb 220.353†	144.8	0.0101 mg/L	0.00305	0.0101 mg/L	0.00305	30.26%
	QC value within limits for Pb 220.353 Recovery = 100.86%					
Sb 206.836†	20.2	0.0137 mg/L	0.00182	0.0137 mg/L	0.00182	13.33%
	QC value greater than the upper limit for Sb 206.836 Recovery = 136.54%					
Se 196.026†	37.5	0.0307 mg/L	0.00010	0.0307 mg/L	0.00010	0.34%
	QC value greater than the upper limit for Se 196.026 Recovery = 153.49%					
Sn 189.927†	51.9	0.0063 mg/L	0.00247	0.0063 mg/L	0.00247	38.95%
	QC value less than the lower limit for Sn 189.927 Recovery = 63.43%					
Sr 407.771†	790.8	0.0013 mg/L	0.00003	0.0013 mg/L	0.00003	2.62%
	QC value greater than the upper limit for Sr 407.771 Recovery = 128.96%					
Ti 337.279†	7530.1	0.0137 mg/L	0.00002	0.0137 mg/L	0.00002	0.15%
	QC value greater than the upper limit for Ti 337.279 Recovery = 136.87%					
Tl 190.801†	6.0	0.0069 mg/L	0.00108	0.0069 mg/L	0.00108	15.49%
	QC value less than the lower limit for Tl 190.801 Recovery = 69.49%					
V 292.402†	1958.8	0.0136 mg/L	0.00031	0.0136 mg/L	0.00031	2.25%
	QC value greater than the upper limit for V 292.402 Recovery = 136.14%					
Zn 213.857†	1320.2	0.0123 mg/L	0.00023	0.0123 mg/L	0.00023	1.85%
	QC value greater than the upper limit for Zn 213.857 Recovery = 123.11%					

QC Failed. Continue with analysis.
User canceled analysis.

Sample Information File: C:\pe\Administrator\Sample Information\070513NA.sif

Batch ID:

Results Data Set: 070513NA

Results Library: C:\pe\ICP3\Results\Results.mdb

Sequence No.: 1

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 12:38:51 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	766.2	835.3	0.4668 mg/L	0.4668 mg/L	12:40:44
1	Fe 234.349†	3260.8	3520.5	2.344 mg/L	2.344 mg/L	12:40:44
1	K 766.490†	41150.3	43694.7	23.99 mg/L	23.99 mg/L	12:40:34
1	Li 670.784†	15686.1	17203.3	0.4773 mg/L	0.4773 mg/L	12:40:34
1	Na 589.592†	122005.3	131494.2	24.04 mg/L	24.04 mg/L	12:40:34
1	Sr 407.771†	37347.7	40328.6	0.0474 mg/L	0.0474 mg/L	12:40:34
1	Y 371.029	2497013.4	2497013.4	0.924 mg/L		12:41:01
1	Ag 328.068†	42312.6	43904.7	0.2452 mg/L	0.2452 mg/L	12:41:03
1	Al 237.313†	19428.5	21446.3	2.389 mg/L	2.389 mg/L	12:41:03
1	As 188.979†	581.7	635.9	0.4665 mg/L	0.4665 mg/L	12:41:13
1	B 182.528†	391.7	433.2	0.4649 mg/L	0.4649 mg/L	12:41:13
1	Ba 233.527†	50626.7	54860.3	0.4811 mg/L	0.4811 mg/L	12:41:03
1	Be 313.107†	99830.4	109425.2	0.0484 mg/L	0.0484 mg/L	12:41:03
1	Ca 315.887†	377110.6	409798.5	4.504 mg/L	4.504 mg/L	12:41:01
1	Cd 228.802†	7229.2	7660.9	0.2402 mg/L	0.2402 mg/L	12:41:13
1	Co 228.616†	21748.6	23767.4	0.4748 mg/L	0.4748 mg/L	12:41:03
1	Cr 267.716†	50654.3	54226.9	0.4764 mg/L	0.4764 mg/L	12:41:03
1	Cu 324.752†	85675.1	87872.4	0.4774 mg/L	0.4774 mg/L	12:41:03
1	Mg 279.077†	53531.0	57901.4	4.692 mg/L	4.692 mg/L	12:41:03
1	Mn 257.610†	360847.5	374258.6	0.4827 mg/L	0.4827 mg/L	12:41:03
1	Mn 294.920†	168882.4	184013.5	0.4814 mg/L	0.4814 mg/L	12:41:03
1	Mo 202.031†	10236.8	11037.3	0.4685 mg/L	0.4685 mg/L	12:41:13
1	Ni 231.604†	19718.3	21171.4	0.4743 mg/L	0.4743 mg/L	12:41:03
1	P 214.914†	6698.5	7272.9	4.594 mg/L	4.594 mg/L	12:41:13
1	Pb 220.353†	6301.1	6633.8	0.4685 mg/L	0.4685 mg/L	12:41:13
1	Sb 206.836†	975.9	1007.8	0.4753 mg/L	0.4753 mg/L	12:41:13
1	Se 196.026†	1265.4	1357.9	0.9352 mg/L	0.9352 mg/L	12:41:13
1	Sn 189.927†	2970.2	3183.6	0.4726 mg/L	0.4726 mg/L	12:41:13
1	Ti 337.279†	376120.9	407472.2	0.4805 mg/L	0.4805 mg/L	12:41:03
1	Tl 190.801†	433.1	473.3	0.4578 mg/L	0.4578 mg/L	12:41:13
1	V 292.402†	96667.0	104913.6	0.4889 mg/L	0.4889 mg/L	12:41:03
1	Zn 213.857†	60783.4	64604.3	0.4740 mg/L	0.4740 mg/L	12:41:03
2	B 249.677†	774.7	843.7	0.4715 mg/L	0.4715 mg/L	12:40:57
2	Fe 234.349†	3302.5	3562.4	2.372 mg/L	2.372 mg/L	12:40:57
2	K 766.490†	41488.8	44021.5	24.17 mg/L	24.17 mg/L	12:40:47
2	Li 670.784†	15877.8	17395.7	0.4826 mg/L	0.4826 mg/L	12:40:47
2	Na 589.592†	122932.5	132380.7	24.20 mg/L	24.20 mg/L	12:40:47
2	Sr 407.771†	37778.2	40758.6	0.0479 mg/L	0.0479 mg/L	12:40:47
2	Y 371.029	2499202.4	2499202.4	0.925 mg/L		12:41:16
2	Ag 328.068†	42322.0	43874.8	0.2451 mg/L	0.2451 mg/L	12:41:18
2	Al 237.313†	19221.6	21204.3	2.362 mg/L	2.362 mg/L	12:41:18
2	As 188.979†	575.6	628.7	0.4613 mg/L	0.4613 mg/L	12:41:28
2	B 182.528†	390.3	431.4	0.4629 mg/L	0.4629 mg/L	12:41:28
2	Ba 233.527†	50373.9	54539.1	0.4783 mg/L	0.4783 mg/L	12:41:18
2	Be 313.107†	99472.1	108943.4	0.0482 mg/L	0.0482 mg/L	12:41:18
2	Ca 315.887†	378540.1	410986.1	4.517 mg/L	4.517 mg/L	12:41:16
2	Cd 228.802†	7257.1	7684.1	0.2409 mg/L	0.2409 mg/L	12:41:28
2	Co 228.616†	21647.8	23637.9	0.4722 mg/L	0.4722 mg/L	12:41:18
2	Cr 267.716†	50353.0	53853.3	0.4732 mg/L	0.4732 mg/L	12:41:18
2	Cu 324.752†	85429.5	87525.8	0.4755 mg/L	0.4755 mg/L	12:41:18
2	Mg 279.077†	53086.5	57370.3	4.649 mg/L	4.649 mg/L	12:41:18
2	Mn 257.610†	359264.3	372205.6	0.4800 mg/L	0.4800 mg/L	12:41:18
2	Mn 294.920†	168178.4	183092.6	0.4790 mg/L	0.4790 mg/L	12:41:18
2	Mo 202.031†	10200.1	10988.0	0.4664 mg/L	0.4664 mg/L	12:41:28
2	Ni 231.604†	19633.9	21061.5	0.4718 mg/L	0.4718 mg/L	12:41:18

2	P 214.914†	6692.8	7260.4	4.586 mg/L	4.586 mg/L	12:41:28
2	Pb 220.353†	6309.7	6637.1	0.4688 mg/L	0.4688 mg/L	12:41:28
2	Sb 206.836†	961.1	990.9	0.4674 mg/L	0.4674 mg/L	12:41:28
2	Se 196.026†	1244.8	1334.4	0.9191 mg/L	0.9191 mg/L	12:41:28
2	Sn 189.927†	2975.4	3186.3	0.4730 mg/L	0.4730 mg/L	12:41:28
2	Ti 337.279†	374581.2	405451.8	0.4781 mg/L	0.4781 mg/L	12:41:18
2	Tl 190.801†	433.9	473.8	0.4582 mg/L	0.4582 mg/L	12:41:28
2	V 292.402†	96388.2	104520.6	0.4871 mg/L	0.4871 mg/L	12:41:18
2	Zn 213.857†	60468.5	64206.5	0.4711 mg/L	0.4711 mg/L	12:41:18

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2498107.9	0.925 mg/L		0.0006			0.06%
Ag 328.068†	43889.7	0.2451 mg/L		0.00012	0.2451 mg/L	0.00012	0.05%
QC value within limits for Ag	328.068	Recovery = 98.06%					
Al 237.313†	21325.3	2.375 mg/L		0.0189	2.375 mg/L	0.0189	0.80%
QC value within limits for Al	237.313	Recovery = 95.01%					
As 188.979†	632.3	0.4639 mg/L		0.00370	0.4639 mg/L	0.00370	0.80%
QC value within limits for As	188.979	Recovery = 92.78%					
B 249.677†	839.5	0.4692 mg/L		0.00330	0.4692 mg/L	0.00330	0.70%
QC value within limits for B	249.677	Recovery = 93.83%					
B 182.528†	432.3	0.4639 mg/L		0.00141	0.4639 mg/L	0.00141	0.30%
QC value within limits for B	182.528	Recovery = 92.79%					
Ba 233.527†	54699.7	0.4797 mg/L		0.00198	0.4797 mg/L	0.00198	0.41%
QC value within limits for Ba	233.527	Recovery = 95.94%					
Be 313.107†	109184.3	0.0483 mg/L		0.00015	0.0483 mg/L	0.00015	0.31%
QC value within limits for Be	313.107	Recovery = 96.67%					
Ca 315.887†	410392.3	4.510 mg/L		0.0091	4.510 mg/L	0.0091	0.20%
QC value within limits for Ca	315.887	Recovery = 90.20%					
Cd 228.802†	7672.5	0.2406 mg/L		0.00051	0.2406 mg/L	0.00051	0.21%
QC value within limits for Cd	228.802	Recovery = 96.23%					
Co 228.616†	23702.6	0.4735 mg/L		0.00183	0.4735 mg/L	0.00183	0.39%
QC value within limits for Co	228.616	Recovery = 94.69%					
Cr 267.716†	54040.1	0.4748 mg/L		0.00230	0.4748 mg/L	0.00230	0.49%
QC value within limits for Cr	267.716	Recovery = 94.96%					
Cu 324.752†	87699.1	0.4764 mg/L		0.00132	0.4764 mg/L	0.00132	0.28%
QC value within limits for Cu	324.752	Recovery = 95.29%					
Fe 234.349†	3541.4	2.358 mg/L		0.0198	2.358 mg/L	0.0198	0.84%
QC value within limits for Fe	234.349	Recovery = 94.31%					
K 766.490†	43858.1	24.08 mg/L		0.126	24.08 mg/L	0.126	0.52%
QC value within limits for K	766.490	Recovery = 96.31%					
Li 670.784†	17299.5	0.4799 mg/L		0.00374	0.4799 mg/L	0.00374	0.78%
QC value within limits for Li	670.784	Recovery = 95.99%					
Mg 279.077†	57635.8	4.670 mg/L		0.0303	4.670 mg/L	0.0303	0.65%
QC value within limits for Mg	279.077	Recovery = 93.41%					
Mn 257.610†	373232.1	0.4813 mg/L		0.00187	0.4813 mg/L	0.00187	0.39%
QC value within limits for Mn	257.610	Recovery = 96.27%					
Mn 294.920†	183553.1	0.4802 mg/L		0.00170	0.4802 mg/L	0.00170	0.35%
QC value within limits for Mn	294.920	Recovery = 96.04%					
Mo 202.031†	11012.6	0.4674 mg/L		0.00148	0.4674 mg/L	0.00148	0.32%
QC value within limits for Mo	202.031	Recovery = 93.48%					
Na 589.592†	131937.5	24.12 mg/L		0.114	24.12 mg/L	0.114	0.47%
QC value within limits for Na	589.592	Recovery = 96.47%					
Ni 231.604†	21116.4	0.4731 mg/L		0.00174	0.4731 mg/L	0.00174	0.37%
QC value within limits for Ni	231.604	Recovery = 94.61%					
P 214.914†	7266.7	4.590 mg/L		0.0055	4.590 mg/L	0.0055	0.12%
QC value within limits for P	214.914	Recovery = 91.80%					
Pb 220.353†	6635.5	0.4687 mg/L		0.00016	0.4687 mg/L	0.00016	0.03%
QC value within limits for Pb	220.353	Recovery = 93.73%					
Sb 206.836†	999.3	0.4713 mg/L		0.00558	0.4713 mg/L	0.00558	1.18%
QC value within limits for Sb	206.836	Recovery = 94.26%					
Se 196.026†	1346.1	0.9272 mg/L		0.01140	0.9272 mg/L	0.01140	1.23%
QC value within limits for Se	196.026	Recovery = 92.72%					
Sn 189.927†	3185.0	0.4728 mg/L		0.00030	0.4728 mg/L	0.00030	0.06%
QC value within limits for Sn	189.927	Recovery = 94.56%					
Sr 407.771†	40543.6	0.0476 mg/L		0.00035	0.0476 mg/L	0.00035	0.74%
QC value within limits for Sr	407.771	Recovery = 95.28%					
Ti 337.279†	406462.0	0.4793 mg/L		0.00167	0.4793 mg/L	0.00167	0.35%
QC value within limits for Ti	337.279	Recovery = 95.86%					
Tl 190.801†	473.5	0.4580 mg/L		0.00034	0.4580 mg/L	0.00034	0.07%
QC value within limits for Tl	190.801	Recovery = 91.60%					

V 292.402† 104717.1 0.4880 mg/L 0.00129 0.4880 mg/L 0.00129 0.26%
 QC value within limits for V 292.402 Recovery = 97.60%
 Zn 213.857† 64405.4 0.4726 mg/L 0.00206 0.4726 mg/L 0.00206 0.44%
 QC value within limits for Zn 213.857 Recovery = 94.52%
 All analyte(s) passed QC.

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Sequence No.: 2	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 7/5/2013 12:43:11 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-5.2	1.0	0.0018 mg/L		0.0018 mg/L	12:45:00
1	Fe 234.349†	7.9	1.5	0.0116 mg/L		0.0116 mg/L	12:45:00
1	K 766.490†	811.9	37.0	0.1945 mg/L		0.1945 mg/L	12:44:50
1	Li 670.784†	-410.3	-196.4	-0.0010 mg/L		-0.0010 mg/L	12:44:50
1	Na 589.592†	21.3	-457.3	0.0300 mg/L		0.0300 mg/L	12:44:50
1	Sr 407.771†	-40.1	-112.8	0.0002 mg/L		0.0002 mg/L	12:44:50
1	Y 371.029	2565277.4	2565277.4	0.950 mg/L			12:45:16
1	Ag 328.068†	1694.6	-80.9	0.0013 mg/L		0.0013 mg/L	12:45:18
1	Al 237.313†	-370.9	39.9	0.0178 mg/L		0.0178 mg/L	12:45:18
1	As 188.979†	-1.8	4.7	0.0078 mg/L		0.0078 mg/L	12:45:28
1	B 182.528†	-8.5	0.6	0.0005 mg/L		0.0005 mg/L	12:45:28
1	Ba 233.527†	-69.0	24.4	0.0033 mg/L		0.0033 mg/L	12:45:28
1	Be 313.107†	-1351.9	14.5	0.0004 mg/L		0.0004 mg/L	12:45:18
1	Ca 315.887†	-1914.8	-140.6	0.0344 mg/L		0.0344 mg/L	12:45:18
1	Cd 228.802†	144.8	-6.6	0.0008 mg/L		0.0008 mg/L	12:45:28
1	Co 228.616†	-201.4	29.7	0.0006 mg/L		0.0006 mg/L	12:45:28
1	Cr 267.716†	473.9	-67.2	0.0028 mg/L		0.0028 mg/L	12:45:18
1	Cu 324.752†	3922.6	-672.7	0.0008 mg/L		0.0008 mg/L	12:45:18
1	Mg 279.077†	56.4	56.0	0.0297 mg/L		0.0297 mg/L	12:45:18
1	Mn 257.610†	14922.5	-360.3	0.0012 mg/L		0.0012 mg/L	12:45:18
1	Mn 294.920†	-1314.7	-52.0	0.0014 mg/L		0.0014 mg/L	12:45:18
1	Mo 202.031†	61.6	28.9	0.0037 mg/L		0.0037 mg/L	12:45:28
1	Ni 231.604†	157.6	7.9	0.0018 mg/L		0.0018 mg/L	12:45:18
1	P 214.914†	-38.7	-13.7	0.0384 mg/L		0.0384 mg/L	12:45:28
1	Pb 220.353†	145.3	-29.1	-0.0022 mg/L		-0.0022 mg/L	12:45:28
1	Sb 206.836†	53.9	8.9	0.0084 mg/L		0.0084 mg/L	12:45:28
1	Se 196.026†	13.4	3.2	0.0072 mg/L		0.0072 mg/L	12:45:28
1	Sn 189.927†	16.0	-12.5	-0.0032 mg/L		-0.0032 mg/L	12:45:28
1	Ti 337.279†	-715.1	-133.1	0.0047 mg/L		0.0047 mg/L	12:45:18
1	Tl 190.801†	-7.5	-3.1	-0.0018 mg/L		-0.0018 mg/L	12:45:28
1	V 292.402†	-338.1	-7.7	0.0045 mg/L		0.0045 mg/L	12:45:18
1	Zn 213.857†	1028.0	-63.1	0.0022 mg/L		0.0022 mg/L	12:45:28
2	B 249.677†	-11.5	-5.8	-0.0020 mg/L		-0.0020 mg/L	12:45:12
2	Fe 234.349†	9.0	2.9	0.0125 mg/L		0.0125 mg/L	12:45:12
2	K 766.490†	843.5	86.2	0.2213 mg/L		0.2213 mg/L	12:45:02
2	Li 670.784†	-348.4	-137.8	0.0007 mg/L		0.0007 mg/L	12:45:02
2	Na 589.592†	-35.2	-517.5	0.0191 mg/L		0.0191 mg/L	12:45:02
2	Sr 407.771†	27.7	-40.8	0.0003 mg/L		0.0003 mg/L	12:45:02
2	Y 371.029	2520121.1	2520121.1	0.933 mg/L			12:45:30
2	Ag 328.068†	1732.0	-8.9	0.0017 mg/L		0.0017 mg/L	12:45:33
2	Al 237.313†	-386.7	16.0	0.0151 mg/L		0.0151 mg/L	12:45:33
2	As 188.979†	3.6	10.4	0.0120 mg/L		0.0120 mg/L	12:45:43
2	B 182.528†	-6.1	3.0	0.0031 mg/L		0.0031 mg/L	12:45:43
2	Ba 233.527†	-69.7	22.3	0.0033 mg/L		0.0033 mg/L	12:45:43
2	Be 313.107†	-1251.8	96.4	0.0004 mg/L		0.0004 mg/L	12:45:33
2	Ca 315.887†	-1922.6	-185.0	0.0339 mg/L		0.0339 mg/L	12:45:33
2	Cd 228.802†	152.4	4.3	0.0011 mg/L		0.0011 mg/L	12:45:43
2	Co 228.616†	-233.4	-8.3	-0.0002 mg/L		-0.0002 mg/L	12:45:43
2	Cr 267.716†	491.2	-39.7	0.0030 mg/L		0.0030 mg/L	12:45:33
2	Cu 324.752†	3995.8	-520.2	0.0016 mg/L		0.0016 mg/L	12:45:33
2	Mg 279.077†	-14.9	-19.4	0.0236 mg/L		0.0236 mg/L	12:45:33
2	Mn 257.610†	14889.9	-113.7	0.0015 mg/L		0.0015 mg/L	12:45:33
2	Mn 294.920†	-1363.2	-128.7	0.0012 mg/L		0.0012 mg/L	12:45:33
2	Mo 202.031†	64.8	33.5	0.0039 mg/L		0.0039 mg/L	12:45:43
2	Ni 231.604†	151.9	4.7	0.0017 mg/L		0.0017 mg/L	12:45:33
2	P 214.914†	-28.8	-3.8	0.0445 mg/L		0.0445 mg/L	12:45:43

2	Pb 220.353†	205.2	37.8	0.0025 mg/L	0.0025 mg/L	12:45:43
2	Sb 206.836†	43.6	-1.1	0.0037 mg/L	0.0037 mg/L	12:45:43
2	Se 196.026†	9.4	-0.9	0.0044 mg/L	0.0044 mg/L	12:45:43
2	Sn 189.927†	29.9	2.7	-0.0010 mg/L	-0.0010 mg/L	12:45:43
2	Ti 337.279†	-540.6	40.4	0.0049 mg/L	0.0049 mg/L	12:45:33
2	Tl 190.801†	-8.9	-4.7	-0.0034 mg/L	-0.0034 mg/L	12:45:43
2	V 292.402†	-225.1	107.0	0.0051 mg/L	0.0051 mg/L	12:45:33
2	Zn 213.857†	1047.7	-22.5	0.0025 mg/L	0.0025 mg/L	12:45:43

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2542699.2	0.941 mg/L		0.0118			1.26%
Ag 328.068†	-44.9	0.0015 mg/L		0.00028	0.0015 mg/L	0.00028	18.50%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 237.313†	27.9	0.0164 mg/L		0.00187	0.0164 mg/L	0.00187	11.39%
QC value within limits for Al 237.313			Recovery =	Not calculated			
As 188.979†	7.6	0.0099 mg/L		0.00293	0.0099 mg/L	0.00293	29.63%
QC value within limits for As 188.979			Recovery =	Not calculated			
B 249.677†	-2.4	-0.0001 mg/L		0.00268	-0.0001 mg/L	0.00268	>999.9%
QC value within limits for B 249.677			Recovery =	Not calculated			
B 182.528†	1.8	0.0018 mg/L		0.00184	0.0018 mg/L	0.00184	100.02%
QC value within limits for B 182.528			Recovery =	Not calculated			
Ba 233.527†	23.4	0.0033 mg/L		0.00001	0.0033 mg/L	0.00001	0.39%
QC value greater than the upper limit for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	55.4	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	6.28%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Ca 315.887†	-162.8	0.0342 mg/L		0.00034	0.0342 mg/L	0.00034	1.00%
QC value greater than the upper limit for Ca 315.887			Recovery =	Not calculated			
Cd 228.802†	-1.1	0.0010 mg/L		0.00024	0.0010 mg/L	0.00024	24.89%
QC value within limits for Cd 228.802			Recovery =	Not calculated			
Co 228.616†	10.7	0.0002 mg/L		0.00054	0.0002 mg/L	0.00054	242.02%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	-53.5	0.0029 mg/L		0.00017	0.0029 mg/L	0.00017	5.80%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 324.752†	-596.4	0.0012 mg/L		0.00058	0.0012 mg/L	0.00058	48.38%
QC value within limits for Cu 324.752			Recovery =	Not calculated			
Fe 234.349†	2.2	0.0121 mg/L		0.00066	0.0121 mg/L	0.00066	5.49%
QC value within limits for Fe 234.349			Recovery =	Not calculated			
K 766.490†	61.6	0.2079 mg/L		0.01897	0.2079 mg/L	0.01897	9.12%
QC value greater than the upper limit for K 766.490			Recovery =	Not calculated			
Li 670.784†	-167.1	-0.0001 mg/L		0.00114	-0.0001 mg/L	0.00114	791.50%
QC value within limits for Li 670.784			Recovery =	Not calculated			
Mg 279.077†	18.3	0.0267 mg/L		0.00430	0.0267 mg/L	0.00430	16.11%
QC value greater than the upper limit for Mg 279.077			Recovery =	Not calculated			
Mn 257.610†	-237.0	0.0014 mg/L		0.00022	0.0014 mg/L	0.00022	16.19%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Mn 294.920†	-90.3	0.0013 mg/L		0.00014	0.0013 mg/L	0.00014	11.07%
QC value within limits for Mn 294.920			Recovery =	Not calculated			
Mo 202.031†	31.2	0.0038 mg/L		0.00013	0.0038 mg/L	0.00013	3.49%
QC value greater than the upper limit for Mo 202.031			Recovery =	Not calculated			
Na 589.592†	-487.4	0.0246 mg/L		0.00774	0.0246 mg/L	0.00774	31.53%
QC value within limits for Na 589.592			Recovery =	Not calculated			
Ni 231.604†	6.3	0.0018 mg/L		0.00005	0.0018 mg/L	0.00005	2.83%
QC value within limits for Ni 231.604			Recovery =	Not calculated			
P 214.914†	-8.7	0.0415 mg/L		0.00435	0.0415 mg/L	0.00435	10.51%
QC value greater than the upper limit for P 214.914			Recovery =	Not calculated			
Pb 220.353†	4.3	0.0002 mg/L		0.00333	0.0002 mg/L	0.00333	>999.9%
QC value within limits for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	3.9	0.0060 mg/L		0.00330	0.0060 mg/L	0.00330	54.62%
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	1.2	0.0058 mg/L		0.00197	0.0058 mg/L	0.00197	33.77%
QC value within limits for Se 196.026			Recovery =	Not calculated			
Sn 189.927†	-4.9	-0.0021 mg/L		0.00159	-0.0021 mg/L	0.00159	74.95%
QC value within limits for Sn 189.927			Recovery =	Not calculated			
Sr 407.771†	-76.8	0.0003 mg/L		0.00006	0.0003 mg/L	0.00006	21.33%
QC value within limits for Sr 407.771			Recovery =	Not calculated			
Ti 337.279†	-46.3	0.0048 mg/L		0.00014	0.0048 mg/L	0.00014	2.96%
QC value greater than the upper limit for Ti 337.279			Recovery =	Not calculated			
Tl 190.801†	-3.9	-0.0026 mg/L		0.00114	-0.0026 mg/L	0.00114	43.35%
QC value within limits for Tl 190.801			Recovery =	Not calculated			
V 292.402†	49.6	0.0048 mg/L		0.00037	0.0048 mg/L	0.00037	7.72%

QC value greater than the upper limit for V 292.402 Recovery = Not calculated
 Zn 213.857† -42.8 0.0024 mg/L 0.00021 0.0024 mg/L 0.00021 8.92%
 QC value within limits for Zn 213.857 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 3 Autosampler Location: 9
 Sample ID: 1306536-02 Date Collected: 7/5/2013 12:47:20 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: 1306536-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	80.4	104.8	0.0596	mg/L	0.0596	mg/L	12:49:09
1	Fe 234.349†	7398.2	9034.4	5.986	mg/L	5.986	mg/L	12:49:09
1	K 766.490†	7778.1	8687.5	4.909	mg/L	4.909	mg/L	12:48:59
1	Li 670.784†	50.3	297.0	0.0126	mg/L	0.0126	mg/L	12:48:59
1	Na 589.592†	229814.5	280369.1	51.13	mg/L	51.13	mg/L	12:48:59
1	Sr 407.771†	88041.8	107522.5	0.1257	mg/L	0.1257	mg/L	12:48:59
1	Y 371.029	2210217.9	2210217.9	0.818	mg/L			12:49:25
1	Ag 328.068†	1596.3	85.7	0.0024	mg/L	0.0024	mg/L	12:49:27
1	Al 237.313†	7411.2	9487.4	1.063	mg/L	1.063	mg/L	12:49:27
1	As 188.979†	5.2	13.0	0.0139	mg/L	0.0139	mg/L	12:49:38
1	B 182.528†	33.4	50.4	0.0540	mg/L	0.0540	mg/L	12:49:38
1	Ba 233.527†	121851.1	149007.3	1.301	mg/L	1.301	mg/L	12:49:27
1	Be 313.107†	-1290.3	-138.9	0.0003	mg/L	0.0003	mg/L	12:49:27
1	Ca 315.887†	2235147.5	2733376.7	29.82	mg/L	29.82	mg/L	12:49:25
1	Cd 228.802†	1760.6	1992.5	0.0631	mg/L	0.0631	mg/L	12:49:38
1	Co 228.616†	85.7	346.5	0.0068	mg/L	0.0068	mg/L	12:49:38
1	Cr 267.716†	892.2	524.1	0.0080	mg/L	0.0080	mg/L	12:49:38
1	Cu 324.752†	24488.0	25123.1	0.1396	mg/L	0.1396	mg/L	12:49:27
1	Mg 279.077†	18193.3	22230.0	1.817	mg/L	1.817	mg/L	12:49:27
1	Mn 257.610†	61060.6	58547.7	0.0757	mg/L	0.0757	mg/L	12:49:27
1	Mn 294.920†	22416.9	28727.3	0.0764	mg/L	0.0764	mg/L	12:49:27
1	Mo 202.031†	185.4	190.7	0.0089	mg/L	0.0089	mg/L	12:49:38
1	Ni 231.604†	698.7	695.8	0.0171	mg/L	0.0171	mg/L	12:49:38
1	P 214.914†	1509.9	1872.2	1.218	mg/L	1.218	mg/L	12:49:38
1	Pb 220.353†	1436.4	1573.3	0.1105	mg/L	0.1105	mg/L	12:49:38
1	Sb 206.836†	54.1	18.3	0.0111	mg/L	0.0111	mg/L	12:49:38
1	Se 196.026†	1.2	-9.5	-0.0027	mg/L	-0.0027	mg/L	12:49:38
1	Sn 189.927†	-240.6	-323.4	-0.0308	mg/L	-0.0308	mg/L	12:49:38
1	Ti 337.279†	37604.4	46574.9	0.0593	mg/L	0.0593	mg/L	12:49:27
1	Tl 190.801†	0.8	5.8	0.0038	mg/L	0.0038	mg/L	12:49:38
1	V 292.402†	111.1	484.1	0.0066	mg/L	0.0066	mg/L	12:49:27
1	Zn 213.857†	46487.6	55665.6	0.4117	mg/L	0.4117	mg/L	12:49:27
2	B 249.677†	74.0	98.4	0.0561	mg/L	0.0561	mg/L	12:49:21
2	Fe 234.349†	7391.8	9174.6	6.080	mg/L	6.080	mg/L	12:49:21
2	K 766.490†	7630.1	8659.6	4.894	mg/L	4.894	mg/L	12:49:11
2	Li 670.784†	14.1	253.1	0.0114	mg/L	0.0114	mg/L	12:49:11
2	Na 589.592†	230861.7	286277.1	52.20	mg/L	52.20	mg/L	12:49:11
2	Sr 407.771†	88396.6	109728.3	0.1283	mg/L	0.1283	mg/L	12:49:11
2	Y 371.029	2174544.9	2174544.9	0.805	mg/L			12:49:40
2	Ag 328.068†	1532.9	38.8	0.0021	mg/L	0.0021	mg/L	12:49:42
2	Al 237.313†	7306.1	9505.4	1.065	mg/L	1.065	mg/L	12:49:42
2	As 188.979†	-3.8	1.9	0.0058	mg/L	0.0058	mg/L	12:49:52
2	B 182.528†	30.9	48.0	0.0514	mg/L	0.0514	mg/L	12:49:52
2	Ba 233.527†	122297.4	152004.5	1.327	mg/L	1.327	mg/L	12:49:42
2	Be 313.107†	-1216.2	-72.6	0.0003	mg/L	0.0003	mg/L	12:49:42
2	Ca 315.887†	2191808.5	2724354.5	29.73	mg/L	29.73	mg/L	12:49:40
2	Cd 228.802†	1757.4	2023.8	0.0641	mg/L	0.0641	mg/L	12:49:52
2	Co 228.616†	100.0	366.0	0.0072	mg/L	0.0072	mg/L	12:49:52
2	Cr 267.716†	897.1	548.0	0.0082	mg/L	0.0082	mg/L	12:49:52
2	Cu 324.752†	24637.5	25799.7	0.1432	mg/L	0.1432	mg/L	12:49:42
2	Mg 279.077†	18202.4	22606.0	1.847	mg/L	1.847	mg/L	12:49:42
2	Mn 257.610†	61355.4	60138.0	0.0777	mg/L	0.0777	mg/L	12:49:42
2	Mn 294.920†	22631.5	29443.3	0.0783	mg/L	0.0783	mg/L	12:49:42
2	Mo 202.031†	204.5	218.1	0.0101	mg/L	0.0101	mg/L	12:49:52
2	Ni 231.604†	687.2	695.5	0.0171	mg/L	0.0171	mg/L	12:49:52
2	P 214.914†	1482.8	1868.9	1.216	mg/L	1.216	mg/L	12:49:52
2	Pb 220.353†	1412.0	1571.8	0.1104	mg/L	0.1104	mg/L	12:49:52

2	Sb 206.836†	58.7	25.1	0.0143 mg/L	0.0143 mg/L	12:49:52
2	Se 196.026†	2.7	-7.5	-0.0014 mg/L	-0.0014 mg/L	12:49:52
2	Sn 189.927†	-231.0	-316.3	-0.0298 mg/L	-0.0298 mg/L	12:49:52
2	Ti 337.279†	36282.8	45687.2	0.0582 mg/L	0.0582 mg/L	12:49:42
2	Tl 190.801†	4.5	10.3	0.0082 mg/L	0.0082 mg/L	12:49:52
2	V 292.402†	238.9	645.0	0.0073 mg/L	0.0073 mg/L	12:49:42
2	Zn 213.857†	46703.5	56865.7	0.4205 mg/L	0.4205 mg/L	12:49:42

Mean Data: 1306536-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2192381.4	0.812 mg/L		0.0093			1.15%
Ag 328.068†	62.3	0.0023 mg/L		0.00018	0.0023 mg/L	0.00018	8.00%
Al 237.313†	9496.4	1.064 mg/L		0.0014	1.064 mg/L	0.0014	0.13%
As 188.979†	7.5	0.0098 mg/L		0.00572	0.0098 mg/L	0.00572	58.27%
B 249.677†	101.6	0.0578 mg/L		0.00250	0.0578 mg/L	0.00250	4.32%
B 182.528†	49.2	0.0527 mg/L		0.00183	0.0527 mg/L	0.00183	3.47%
Ba 233.527†	150505.9	1.314 mg/L		0.0185	1.314 mg/L	0.0185	1.40%
Be 313.107†	-105.8	0.0003 mg/L		0.00002	0.0003 mg/L	0.00002	6.46%
Ca 315.887†	2728865.6	29.78 mg/L		0.070	29.78 mg/L	0.070	0.23%
Cd 228.802†	2008.2	0.0636 mg/L		0.00069	0.0636 mg/L	0.00069	1.09%
Co 228.616†	356.3	0.0070 mg/L		0.00028	0.0070 mg/L	0.00028	3.95%
Cr 267.716†	536.1	0.0081 mg/L		0.00015	0.0081 mg/L	0.00015	1.83%
Cu 324.752†	25461.4	0.1414 mg/L		0.00257	0.1414 mg/L	0.00257	1.82%
Fe 234.349†	9104.5	6.033 mg/L		0.0663	6.033 mg/L	0.0663	1.10%
K 766.490†	8673.5	4.901 mg/L		0.0108	4.901 mg/L	0.0108	0.22%
Li 670.784†	275.1	0.0120 mg/L		0.00085	0.0120 mg/L	0.00085	7.11%
Mg 279.077†	22418.0	1.832 mg/L		0.0214	1.832 mg/L	0.0214	1.17%
Mn 257.610†	59342.8	0.0767 mg/L		0.00143	0.0767 mg/L	0.00143	1.87%
Mn 294.920†	29085.3	0.0774 mg/L		0.00132	0.0774 mg/L	0.00132	1.71%
Mo 202.031†	204.4	0.0095 mg/L		0.00080	0.0095 mg/L	0.00080	8.41%
Na 589.592†	283323.1	51.66 mg/L		0.760	51.66 mg/L	0.760	1.47%
Ni 231.604†	695.6	0.0171 mg/L		0.00000	0.0171 mg/L	0.00000	0.01%
P 214.914†	1870.6	1.217 mg/L		0.0015	1.217 mg/L	0.0015	0.12%
Pb 220.353†	1572.5	0.1104 mg/L		0.00008	0.1104 mg/L	0.00008	0.07%
Sb 206.836†	21.7	0.0127 mg/L		0.00223	0.0127 mg/L	0.00223	17.61%
Se 196.026†	-8.5	-0.0020 mg/L		0.00093	-0.0020 mg/L	0.00093	46.10%
Sn 189.927†	-319.8	-0.0303 mg/L		0.00070	-0.0303 mg/L	0.00070	2.30%
Sr 407.771†	108625.4	0.1270 mg/L		0.00182	0.1270 mg/L	0.00182	1.43%
Ti 337.279†	46131.1	0.0587 mg/L		0.00073	0.0587 mg/L	0.00073	1.25%
Tl 190.801†	8.1	0.0060 mg/L		0.00311	0.0060 mg/L	0.00311	52.26%
V 292.402†	564.6	0.0069 mg/L		0.00053	0.0069 mg/L	0.00053	7.61%
Zn 213.857†	56265.6	0.4161 mg/L		0.00624	0.4161 mg/L	0.00624	1.50%

Sequence No.: 4

Sample ID: 1307030-17

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 7/5/2013 12:51:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307030-17

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-115.0	-111.2	-0.0606 mg/L		-0.0606 mg/L	12:53:11
1	Fe 234.349†	800661.2	819216.7	546.3 mg/L		546.3 mg/L	12:53:09
1	K 766.490†	257838.5	262998.3	143.5 mg/L		143.5 mg/L	12:53:09
1	Li 670.784†	31047.4	32002.8	0.8841 mg/L		0.8841 mg/L	12:53:11
1	Na 589.592†	10091.4	9845.6	1.905 mg/L		1.905 mg/L	12:53:11
1	Sr 407.771†	108910.0	111364.4	0.1302 mg/L		0.1302 mg/L	12:53:09
1	Y 371.029	2639834.5	2639834.5	0.977 mg/L			12:53:24
1	Ag 328.068†	8.4	-1856.6	0.0054 mg/L		0.0054 mg/L	12:53:27
1	Al 237.313†	3846359.8	3935962.9	435.6 mg/L		435.6 mg/L	12:53:24
1	As 188.979†	72.2	80.5	0.0611 mg/L		0.0611 mg/L	12:53:37
1	B 182.528†	40.5	51.0	0.0547 mg/L		0.0547 mg/L	12:53:37
1	Ba 233.527†	325757.8	333407.0	2.908 mg/L		2.908 mg/L	12:53:27
1	Be 313.107†	70016.9	73078.1	0.0247 mg/L		0.0247 mg/L	12:53:27
1	Ca 315.887†	1337610.5	1370496.7	14.98 mg/L		14.98 mg/L	12:53:24
1	Cd 228.802†	318.5	166.8	-0.0031 mg/L		-0.0031 mg/L	12:53:37
1	Co 228.616†	14454.9	15031.8	0.2308 mg/L		0.2308 mg/L	12:53:37
1	Cr 267.716†	71004.0	72083.9	0.6317 mg/L		0.6317 mg/L	12:53:27

1	Cu 324.752†	112927.0	110742.2	0.6391 mg/L	0.6391 mg/L	12:53:27
1	Mg 279.077†	1531493.7	1566995.8	126.3 mg/L	126.3 mg/L	12:53:24
1	Mn 257.610†	6142021.5	6268343.5	7.943 mg/L	7.943 mg/L	12:53:24
1	Mn 294.920†	3128969.9	3202843.1	8.354 mg/L	8.354 mg/L	12:53:24
1	Mo 202.031†	255.8	225.8	-0.0732 mg/L	-0.0732 mg/L	12:53:27
1	Ni 231.604†	21493.1	21833.4	0.4883 mg/L	0.4883 mg/L	12:53:27
1	P 214.914†	11580.8	11876.4	7.482 mg/L	7.482 mg/L	12:53:37
1	Pb 220.353†	3418.7	3315.8	0.1448 mg/L	0.1448 mg/L	12:53:37
1	Sb 206.836†	187.6	144.1	-0.0899 mg/L	-0.0899 mg/L	12:53:37
1	Se 196.026†	-111.0	-124.4	-0.1895 mg/L	-0.1895 mg/L	12:53:37
1	Sn 189.927†	-35.5	-65.7	-0.0019 mg/L	-0.0019 mg/L	12:53:37
1	Ti 337.279†	27328187.1	27962374.0	32.64 mg/L	32.64 mg/L	12:53:21
1	Tl 190.801†	-10.1	-5.6	-0.3374 mg/L	-0.3374 mg/L	12:53:37
1	V 292.402†	234911.4	240705.8	1.035 mg/L	1.035 mg/L	12:53:27
1	Zn 213.857†	161826.2	164432.5	1.184 mg/L	1.184 mg/L	12:53:27
2	B 249.677†	-109.8	-106.2	-0.0578 mg/L	-0.0578 mg/L	12:53:15
2	Fe 234.349†	816766.3	838640.2	559.2 mg/L	559.2 mg/L	12:53:13
2	K 766.490†	262310.7	268520.0	146.5 mg/L	146.5 mg/L	12:53:13
2	Li 670.784†	30945.1	32009.7	0.8843 mg/L	0.8843 mg/L	12:53:15
2	Na 589.592†	10054.4	9844.0	1.904 mg/L	1.904 mg/L	12:53:15
2	Sr 407.771†	111152.1	114059.3	0.1334 mg/L	0.1334 mg/L	12:53:13
2	Y 371.029	2630564.2	2630564.2	0.974 mg/L		12:53:44
2	Ag 328.068†	-125.6	-1994.2	0.0049 mg/L	0.0049 mg/L	12:53:47
2	Al 237.313†	3828674.6	3931673.1	435.1 mg/L	435.1 mg/L	12:53:44
2	As 188.979†	70.2	78.8	0.0599 mg/L	0.0599 mg/L	12:53:57
2	B 182.528†	40.5	51.1	0.0548 mg/L	0.0548 mg/L	12:53:57
2	Ba 233.527†	330334.8	339281.3	2.959 mg/L	2.959 mg/L	12:53:47
2	Be 313.107†	71071.8	74413.8	0.0252 mg/L	0.0252 mg/L	12:53:47
2	Ca 315.887†	1330113.9	1367622.5	14.95 mg/L	14.95 mg/L	12:53:44
2	Cd 228.802†	317.2	166.6	-0.0033 mg/L	-0.0033 mg/L	12:53:57
2	Co 228.616†	14275.4	14899.7	0.2273 mg/L	0.2273 mg/L	12:53:57
2	Cr 267.716†	71744.1	73099.8	0.6406 mg/L	0.6406 mg/L	12:53:47
2	Cu 324.752†	114450.3	112713.5	0.6502 mg/L	0.6502 mg/L	12:53:47
2	Mg 279.077†	1524215.1	1565044.6	126.2 mg/L	126.2 mg/L	12:53:44
2	Mn 257.610†	6116669.6	6264459.3	7.935 mg/L	7.935 mg/L	12:53:44
2	Mn 294.920†	3116057.6	3200867.4	8.349 mg/L	8.349 mg/L	12:53:44
2	Mo 202.031†	266.7	237.9	-0.0747 mg/L	-0.0747 mg/L	12:53:47
2	Ni 231.604†	21856.2	22283.7	0.4984 mg/L	0.4984 mg/L	12:53:47
2	P 214.914†	11457.9	11791.9	7.429 mg/L	7.429 mg/L	12:53:57
2	Pb 220.353†	3385.6	3294.2	0.1433 mg/L	0.1433 mg/L	12:53:57
2	Sb 206.836†	185.0	142.1	-0.0946 mg/L	-0.0946 mg/L	12:53:57
2	Se 196.026†	-113.0	-127.0	-0.1938 mg/L	-0.1938 mg/L	12:53:57
2	Sn 189.927†	-49.7	-80.4	-0.0041 mg/L	-0.0041 mg/L	12:53:57
2	Ti 337.279†	27565136.4	28304210.9	33.04 mg/L	33.04 mg/L	12:53:41
2	Tl 190.801†	-14.4	-10.0	-0.3496 mg/L	-0.3496 mg/L	12:53:57
2	V 292.402†	238303.1	245035.3	1.054 mg/L	1.054 mg/L	12:53:47
2	Zn 213.857†	164299.3	167555.4	1.206 mg/L	1.206 mg/L	12:53:47

Mean Data: 1307030-17

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2635199.3	0.976	mg/L	0.0024				0.25%
Ag 328.068†	-1925.4	0.0052	mg/L	0.00031	0.0052	mg/L	0.00031	5.96%
Al 237.313†	3933818.0	435.4	mg/L	0.34	435.4	mg/L	0.34	0.08%
As 188.979†	79.6	0.0605	mg/L	0.00090	0.0605	mg/L	0.00090	1.49%
B 249.677†	-108.7	-0.0592	mg/L	0.00195	-0.0592	mg/L	0.00195	3.30%
B 182.528†	51.1	0.0547	mg/L	0.00007	0.0547	mg/L	0.00007	0.12%
Ba 233.527†	336344.2	2.933	mg/L	0.0362	2.933	mg/L	0.0362	1.23%
Be 313.107†	73746.0	0.0250	mg/L	0.00035	0.0250	mg/L	0.00035	1.39%
Ca 315.887†	1369059.6	14.96	mg/L	0.022	14.96	mg/L	0.022	0.15%
Cd 228.802†	166.7	-0.0032	mg/L	0.00016	-0.0032	mg/L	0.00016	5.01%
Co 228.616†	14965.7	0.2290	mg/L	0.00247	0.2290	mg/L	0.00247	1.08%
Cr 267.716†	72591.8	0.6362	mg/L	0.00626	0.6362	mg/L	0.00626	0.98%
Cu 324.752†	111727.9	0.6447	mg/L	0.00784	0.6447	mg/L	0.00784	1.22%
Fe 234.349†	828928.4	552.8	mg/L	9.16	552.8	mg/L	9.16	1.66%
K 766.490†	265759.1	145.0	mg/L	2.13	145.0	mg/L	2.13	1.47%
Li 670.784†	32006.3	0.8842	mg/L	0.00013	0.8842	mg/L	0.00013	0.02%
Mg 279.077†	1566020.2	126.2	mg/L	0.11	126.2	mg/L	0.11	0.09%
Mn 257.610†	6266401.4	7.939	mg/L	0.0056	7.939	mg/L	0.0056	0.07%
Mn 294.920†	3201855.3	8.352	mg/L	0.0036	8.352	mg/L	0.0036	0.04%
Mo 202.031†	231.9	-0.0739	mg/L	0.00105	-0.0739	mg/L	0.00105	1.42%
Na 589.592†	9844.8	1.904	mg/L	0.0002	1.904	mg/L	0.0002	0.01%

Ni 231.604†	22058.5	0.4934 mg/L	0.00710	0.4934 mg/L	0.00710	1.44%
P 214.914†	11834.1	7.456 mg/L	0.0374	7.456 mg/L	0.0374	0.50%
Pb 220.353†	3305.0	0.1441 mg/L	0.00101	0.1441 mg/L	0.00101	0.70%
Sb 206.836†	143.1	-0.0922 mg/L	0.00333	-0.0922 mg/L	0.00333	3.61%
Se 196.026†	-125.7	-0.1917 mg/L	0.00305	-0.1917 mg/L	0.00305	1.59%
Sn 189.927†	-73.0	-0.0030 mg/L	0.00155	-0.0030 mg/L	0.00155	52.26%
Sr 407.771†	112711.8	0.1318 mg/L	0.00222	0.1318 mg/L	0.00222	1.69%
Ti 337.279†	28133292.5	32.84 mg/L	0.282	32.84 mg/L	0.282	0.86%
Tl 190.801†	-7.8	-0.3435 mg/L	0.00864	-0.3435 mg/L	0.00864	2.51%
V 292.402†	242870.6	1.045 mg/L	0.0134	1.045 mg/L	0.0134	1.28%
Zn 213.857†	165994.0	1.195 mg/L	0.0158	1.195 mg/L	0.0158	1.32%

Sequence No.: 5
Sample ID: 1307030-17 @3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 7/5/2013 12:57:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307030-17 @3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-50.1	-46.4	-0.0246 mg/L	-0.0246 mg/L	12:58:45
1	Fe 234.349†	326896.2	345384.4	230.3 mg/L	230.3 mg/L	12:58:43
1	K 766.490†	102284.5	107253.7	58.63 mg/L	58.63 mg/L	12:58:43
1	Li 670.784†	11528.5	12416.4	0.3457 mg/L	0.3457 mg/L	12:58:45
1	Na 589.592†	3887.3	3627.5	0.7732 mg/L	0.7732 mg/L	12:58:45
1	Sr 407.771†	43417.1	45803.0	0.0538 mg/L	0.0538 mg/L	12:58:43
1	Y 371.029	2556400.5	2556400.5	0.946 mg/L		12:58:57
1	Ag 328.068†	1064.5	-740.4	0.0035 mg/L	0.0035 mg/L	12:59:00
1	Al 237.313†	1549449.3	1637543.8	181.2 mg/L	181.2 mg/L	12:58:57
1	As 188.979†	34.3	42.9	0.0348 mg/L	0.0348 mg/L	12:59:10
1	B 182.528†	23.4	34.3	0.0367 mg/L	0.0367 mg/L	12:59:10
1	Ba 233.527†	131506.4	139043.7	1.215 mg/L	1.215 mg/L	12:59:00
1	Be 313.107†	27882.4	30897.9	0.0107 mg/L	0.0107 mg/L	12:59:00
1	Ca 315.887†	543039.1	575638.6	6.313 mg/L	6.313 mg/L	12:58:57
1	Cd 228.802†	229.7	83.6	-0.0003 mg/L	-0.0003 mg/L	12:59:10
1	Co 228.616†	5850.8	6423.6	0.0989 mg/L	0.0989 mg/L	12:59:10
1	Cr 267.716†	29260.8	30350.1	0.2679 mg/L	0.2679 mg/L	12:59:00
1	Cu 324.752†	47376.5	45254.1	0.2644 mg/L	0.2644 mg/L	12:59:00
1	Mg 279.077†	626506.5	661949.3	53.37 mg/L	53.37 mg/L	12:58:57
1	Mn 257.610†	2567539.7	2696732.4	3.419 mg/L	3.419 mg/L	12:58:57
1	Mn 294.920†	1291243.4	1365631.1	3.563 mg/L	3.563 mg/L	12:58:57
1	Mo 202.031†	188.3	163.0	-0.0265 mg/L	-0.0265 mg/L	12:59:00
1	Ni 231.604†	9096.7	9453.3	0.2124 mg/L	0.2124 mg/L	12:59:00
1	P 214.914†	4720.4	5014.5	3.186 mg/L	3.186 mg/L	12:59:10
1	Pb 220.353†	1499.8	1402.5	0.0618 mg/L	0.0618 mg/L	12:59:10
1	Sb 206.836†	109.9	68.3	-0.0319 mg/L	-0.0319 mg/L	12:59:10
1	Se 196.026†	-38.1	-51.2	-0.0761 mg/L	-0.0761 mg/L	12:59:10
1	Sn 189.927†	-46.6	-78.6	-0.0091 mg/L	-0.0091 mg/L	12:59:10
1	Ti 337.279†	11209357.6	11844175.9	13.83 mg/L	13.83 mg/L	12:58:55
1	Tl 190.801†	-1.8	2.9	-0.1365 mg/L	-0.1365 mg/L	12:59:10
1	V 292.402†	95314.0	101054.9	0.4371 mg/L	0.4371 mg/L	12:59:00
1	Zn 213.857†	66739.3	69369.8	0.5010 mg/L	0.5010 mg/L	12:59:00
2	B 249.677†	-55.5	-52.1	-0.0277 mg/L	-0.0277 mg/L	12:58:50
2	Fe 234.349†	323974.3	341888.1	228.0 mg/L	228.0 mg/L	12:58:48
2	K 766.490†	101543.4	106342.4	58.13 mg/L	58.13 mg/L	12:58:48
2	Li 670.784†	11691.7	12574.1	0.3501 mg/L	0.3501 mg/L	12:58:50
2	Na 589.592†	4008.5	3750.5	0.7956 mg/L	0.7956 mg/L	12:58:50
2	Sr 407.771†	43138.1	45453.7	0.0534 mg/L	0.0534 mg/L	12:58:48
2	Y 371.029	2559459.5	2559459.5	0.948 mg/L		12:59:15
2	Ag 328.068†	920.9	-893.3	0.0026 mg/L	0.0026 mg/L	12:59:18
2	Al 237.313†	1537461.1	1622935.9	179.6 mg/L	179.6 mg/L	12:59:15
2	As 188.979†	26.9	35.0	0.0291 mg/L	0.0291 mg/L	12:59:28
2	B 182.528†	16.9	27.4	0.0293 mg/L	0.0293 mg/L	12:59:28
2	Ba 233.527†	133181.4	140645.3	1.228 mg/L	1.228 mg/L	12:59:18
2	Be 313.107†	28356.7	31363.3	0.0109 mg/L	0.0109 mg/L	12:59:18
2	Ca 315.887†	537573.3	569184.6	6.243 mg/L	6.243 mg/L	12:59:15
2	Cd 228.802†	221.6	74.8	-0.0005 mg/L	-0.0005 mg/L	12:59:28
2	Co 228.616†	5800.8	6363.5	0.0979 mg/L	0.0979 mg/L	12:59:28
2	Cr 267.716†	29617.8	30689.8	0.2709 mg/L	0.2709 mg/L	12:59:18
2	Cu 324.752†	47716.4	45553.0	0.2659 mg/L	0.2659 mg/L	12:59:18

2	Mg 279.077†	619073.3	653313.8	52.68 mg/L	52.68 mg/L	12:59:15
2	Mn 257.610†	2548182.5	2673062.3	3.389 mg/L	3.389 mg/L	12:59:15
2	Mn 294.920†	1281986.2	1354231.3	3.533 mg/L	3.533 mg/L	12:59:15
2	Mo 202.031†	184.5	158.8	-0.0263 mg/L	-0.0263 mg/L	12:59:18
2	Ni 231.604†	9200.7	9551.6	0.2146 mg/L	0.2146 mg/L	12:59:18
2	P 214.914†	4714.1	5001.9	3.178 mg/L	3.178 mg/L	12:59:28
2	Pb 220.353†	1491.6	1392.0	0.0614 mg/L	0.0614 mg/L	12:59:28
2	Sb 206.836†	110.0	68.2	-0.0313 mg/L	-0.0313 mg/L	12:59:28
2	Se 196.026†	-35.0	-47.8	-0.0733 mg/L	-0.0733 mg/L	12:59:28
2	Sn 189.927†	-55.1	-87.5	-0.0105 mg/L	-0.0105 mg/L	12:59:28
2	Ti 337.279†	11149898.4	11767272.9	13.74 mg/L	13.74 mg/L	12:59:13
2	Tl 190.801†	-9.2	-4.9	-0.1427 mg/L	-0.1427 mg/L	12:59:28
2	V 292.402†	96287.6	101962.0	0.4414 mg/L	0.4414 mg/L	12:59:18
2	Zn 213.857†	67679.0	70277.2	0.5077 mg/L	0.5077 mg/L	12:59:18

Mean Data: 1307030-17 @3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2557930.0	0.947 mg/L	0.0008			0.08%
Ag 328.068†	-816.9	0.0031 mg/L	0.00064	0.0031 mg/L	0.00064	20.82%
Al 237.313†	1630239.9	180.4 mg/L	1.14	180.4 mg/L	1.14	0.63%
As 188.979†	39.0	0.0320 mg/L	0.00404	0.0320 mg/L	0.00404	12.63%
B 249.677†	-49.3	-0.0261 mg/L	0.00221	-0.0261 mg/L	0.00221	8.47%
B 182.528†	30.9	0.0330 mg/L	0.00520	0.0330 mg/L	0.00520	15.76%
Ba 233.527†	139844.5	1.221 mg/L	0.0099	1.221 mg/L	0.0099	0.81%
Be 313.107†	31130.6	0.0108 mg/L	0.00016	0.0108 mg/L	0.00016	1.48%
Ca 315.887†	572411.6	6.278 mg/L	0.0497	6.278 mg/L	0.0497	0.79%
Cd 228.802†	79.2	-0.0004 mg/L	0.00017	-0.0004 mg/L	0.00017	39.87%
Co 228.616†	6393.5	0.0984 mg/L	0.00071	0.0984 mg/L	0.00071	0.73%
Cr 267.716†	30520.0	0.2694 mg/L	0.00209	0.2694 mg/L	0.00209	0.78%
Cu 324.752†	45403.5	0.2651 mg/L	0.00106	0.2651 mg/L	0.00106	0.40%
Fe 234.349†	343636.3	229.2 mg/L	1.65	229.2 mg/L	1.65	0.72%
K 766.490†	106798.0	58.38 mg/L	0.351	58.38 mg/L	0.351	0.60%
Li 670.784†	12495.2	0.3479 mg/L	0.00306	0.3479 mg/L	0.00306	0.88%
Mg 279.077†	657631.5	53.02 mg/L	0.492	53.02 mg/L	0.492	0.93%
Mn 257.610†	2684897.3	3.404 mg/L	0.0212	3.404 mg/L	0.0212	0.62%
Mn 294.920†	1359931.2	3.548 mg/L	0.0210	3.548 mg/L	0.0210	0.59%
Mo 202.031†	160.9	-0.0264 mg/L	0.00011	-0.0264 mg/L	0.00011	0.43%
Na 589.592†	3689.0	0.7844 mg/L	0.01582	0.7844 mg/L	0.01582	2.02%
Ni 231.604†	9502.5	0.2135 mg/L	0.00155	0.2135 mg/L	0.00155	0.73%
P 214.914†	5008.2	3.182 mg/L	0.0056	3.182 mg/L	0.0056	0.18%
Pb 220.353†	1397.2	0.0616 mg/L	0.00029	0.0616 mg/L	0.00029	0.48%
Sb 206.836†	68.3	-0.0316 mg/L	0.00042	-0.0316 mg/L	0.00042	1.32%
Se 196.026†	-49.5	-0.0747 mg/L	0.00198	-0.0747 mg/L	0.00198	2.65%
Sn 189.927†	-83.0	-0.0098 mg/L	0.00096	-0.0098 mg/L	0.00096	9.78%
Sr 407.771†	45628.4	0.0536 mg/L	0.00029	0.0536 mg/L	0.00029	0.54%
Ti 337.279†	11805724.4	13.78 mg/L	0.063	13.78 mg/L	0.063	0.46%
Tl 190.801†	-1.0	-0.1396 mg/L	0.00435	-0.1396 mg/L	0.00435	3.12%
V 292.402†	101508.4	0.4393 mg/L	0.00305	0.4393 mg/L	0.00305	0.69%
Zn 213.857†	69823.5	0.5043 mg/L	0.00478	0.5043 mg/L	0.00478	0.95%

Sequence No.: 6

Sample ID: CG30304-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 7/5/2013 1:02:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30304-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-9.0	-2.9	-0.0004 mg/L	-0.0004 mg/L	13:04:25
1	Fe 234.349†	63.8	60.3	0.0504 mg/L	0.0504 mg/L	13:04:25
1	K 766.490†	1003.0	236.0	0.3029 mg/L	0.3029 mg/L	13:04:15
1	Li 670.784†	-239.6	-16.2	0.0040 mg/L	0.0040 mg/L	13:04:15
1	Na 589.592†	135.8	-337.1	0.0519 mg/L	0.0519 mg/L	13:04:15
1	Sr 407.771†	231.7	172.9	0.0006 mg/L	0.0006 mg/L	13:04:15
1	Y 371.029	2570717.6	2570717.6	0.952 mg/L		13:04:41
1	Ag 328.068†	1647.6	-134.0	0.0010 mg/L	0.0010 mg/L	13:04:43
1	Al 237.313†	-337.5	75.9	0.0218 mg/L	0.0218 mg/L	13:04:43
1	As 188.979†	-2.4	4.1	0.0073 mg/L	0.0073 mg/L	13:04:53

1	B	182.528†	-10.7	-1.7	-0.0019	mg/L	-0.0019	mg/L	13:04:53
1	Ba	233.527†	-21.2	74.8	0.0038	mg/L	0.0038	mg/L	13:04:53
1	Be	313.107†	-1366.8	2.0	0.0004	mg/L	0.0004	mg/L	13:04:43
1	Ca	315.887†	15531.8	18194.7	0.2342	mg/L	0.2342	mg/L	13:04:43
1	Cd	228.802†	162.5	11.8	0.0014	mg/L	0.0014	mg/L	13:04:53
1	Co	228.616†	-241.3	-11.8	-0.0002	mg/L	-0.0002	mg/L	13:04:53
1	Cr	267.716†	585.2	48.6	0.0038	mg/L	0.0038	mg/L	13:04:43
1	Cu	324.752†	4391.8	-188.4	0.0034	mg/L	0.0034	mg/L	13:04:43
1	Mg	279.077†	170.7	175.9	0.0394	mg/L	0.0394	mg/L	13:04:43
1	Mn	257.610†	16589.1	1357.5	0.0034	mg/L	0.0034	mg/L	13:04:43
1	Mn	294.920†	-537.5	767.5	0.0035	mg/L	0.0035	mg/L	13:04:43
1	Mo	202.031†	58.4	25.5	0.0036	mg/L	0.0036	mg/L	13:04:53
1	Ni	231.604†	183.3	34.6	0.0024	mg/L	0.0024	mg/L	13:04:43
1	P	214.914†	32.5	61.2	0.0853	mg/L	0.0853	mg/L	13:04:53
1	Pb	220.353†	143.7	-31.1	-0.0023	mg/L	-0.0023	mg/L	13:04:53
1	Sb	206.836†	48.5	3.1	0.0057	mg/L	0.0057	mg/L	13:04:53
1	Se	196.026†	18.8	8.8	0.0111	mg/L	0.0111	mg/L	13:04:53
1	Sn	189.927†	155.0	133.5	0.0185	mg/L	0.0185	mg/L	13:04:53
1	Ti	337.279†	614.4	1265.3	0.0064	mg/L	0.0064	mg/L	13:04:43
1	Tl	190.801†	-13.8	-9.7	-0.0083	mg/L	-0.0083	mg/L	13:04:53
1	V	292.402†	-298.5	34.6	0.0047	mg/L	0.0047	mg/L	13:04:43
1	Zn	213.857†	2079.1	1039.0	0.0103	mg/L	0.0103	mg/L	13:04:53
2	B	249.677†	-12.9	-7.0	-0.0026	mg/L	-0.0026	mg/L	13:04:37
2	Fe	234.349†	61.7	57.7	0.0487	mg/L	0.0487	mg/L	13:04:37
2	K	766.490†	860.7	82.8	0.2194	mg/L	0.2194	mg/L	13:04:27
2	Li	670.784†	-360.7	-141.8	0.0006	mg/L	0.0006	mg/L	13:04:27
2	Na	589.592†	148.8	-324.0	0.0543	mg/L	0.0543	mg/L	13:04:27
2	Sr	407.771†	157.6	94.3	0.0005	mg/L	0.0005	mg/L	13:04:27
2	Y	371.029	2581231.0	2581231.0	0.956	mg/L			13:04:55
2	Ag	328.068†	1625.9	-163.7	0.0009	mg/L	0.0009	mg/L	13:04:58
2	Al	237.313†	-356.2	57.6	0.0197	mg/L	0.0197	mg/L	13:04:58
2	As	188.979†	-6.0	0.4	0.0046	mg/L	0.0046	mg/L	13:05:08
2	B	182.528†	-5.9	3.4	0.0035	mg/L	0.0035	mg/L	13:05:08
2	Ba	233.527†	-15.4	80.9	0.0038	mg/L	0.0038	mg/L	13:05:08
2	Be	313.107†	-1410.3	-37.8	0.0004	mg/L	0.0004	mg/L	13:04:58
2	Ca	315.887†	15410.5	18001.4	0.2321	mg/L	0.2321	mg/L	13:04:58
2	Cd	228.802†	154.5	2.7	0.0011	mg/L	0.0011	mg/L	13:05:08
2	Co	228.616†	-206.1	26.1	0.0005	mg/L	0.0005	mg/L	13:05:08
2	Cr	267.716†	604.7	66.5	0.0040	mg/L	0.0040	mg/L	13:04:58
2	Cu	324.752†	4451.1	-145.2	0.0036	mg/L	0.0036	mg/L	13:04:58
2	Mg	279.077†	135.1	137.9	0.0363	mg/L	0.0363	mg/L	13:04:58
2	Mn	257.610†	16491.7	1184.6	0.0032	mg/L	0.0032	mg/L	13:04:58
2	Mn	294.920†	-335.1	981.6	0.0041	mg/L	0.0041	mg/L	13:04:58
2	Mo	202.031†	45.8	12.0	0.0030	mg/L	0.0030	mg/L	13:05:08
2	Ni	231.604†	184.9	35.4	0.0024	mg/L	0.0024	mg/L	13:04:58
2	P	214.914†	31.2	59.7	0.0843	mg/L	0.0843	mg/L	13:05:08
2	Pb	220.353†	168.1	-6.2	-0.0006	mg/L	-0.0006	mg/L	13:05:08
2	Sb	206.836†	52.8	7.4	0.0077	mg/L	0.0077	mg/L	13:05:08
2	Se	196.026†	15.8	5.6	0.0089	mg/L	0.0089	mg/L	13:05:08
2	Sn	189.927†	171.7	150.4	0.0210	mg/L	0.0210	mg/L	13:05:08
2	Ti	337.279†	845.3	1504.4	0.0067	mg/L	0.0067	mg/L	13:04:58
2	Tl	190.801†	-5.9	-1.3	-0.0001	mg/L	-0.0001	mg/L	13:05:08
2	V	292.402†	-267.4	68.5	0.0049	mg/L	0.0049	mg/L	13:04:58
2	Zn	213.857†	2112.7	1065.3	0.0105	mg/L	0.0105	mg/L	13:05:08

Mean Data: CG30304-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2575974.3	0.954	mg/L	0.0028				0.29%
Ag 328.068†	-148.9	0.0010	mg/L	0.00012	0.0010	mg/L	0.00012	12.26%
Al 237.313†	66.7	0.0207	mg/L	0.00142	0.0207	mg/L	0.00142	6.87%
As 188.979†	2.2	0.0060	mg/L	0.00191	0.0060	mg/L	0.00191	31.95%
B 249.677†	-4.9	-0.0015	mg/L	0.00158	-0.0015	mg/L	0.00158	107.00%
B 182.528†	0.8	0.0008	mg/L	0.00388	0.0008	mg/L	0.00388	483.04%
Ba 233.527†	77.8	0.0038	mg/L	0.00004	0.0038	mg/L	0.00004	0.99%
Be 313.107†	-17.9	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.32%
Ca 315.887†	18098.0	0.2332	mg/L	0.00149	0.2332	mg/L	0.00149	0.64%
Cd 228.802†	7.2	0.0012	mg/L	0.00020	0.0012	mg/L	0.00020	16.26%
Co 228.616†	7.2	0.0001	mg/L	0.00054	0.0001	mg/L	0.00054	360.51%
Cr 267.716†	57.6	0.0039	mg/L	0.00011	0.0039	mg/L	0.00011	2.83%
Cu 324.752†	-166.8	0.0035	mg/L	0.00016	0.0035	mg/L	0.00016	4.69%
Fe 234.349†	59.0	0.0496	mg/L	0.00120	0.0496	mg/L	0.00120	2.41%

K 766.490†	159.4	0.2612 mg/L	0.05905	0.2612 mg/L	0.05905	22.61%
Li 670.784†	-79.0	0.0023 mg/L	0.00244	0.0023 mg/L	0.00244	107.17%
Mg 279.077†	156.9	0.0378 mg/L	0.00216	0.0378 mg/L	0.00216	5.71%
Mn 257.610†	1271.1	0.0033 mg/L	0.00016	0.0033 mg/L	0.00016	4.73%
Mn 294.920†	874.6	0.0038 mg/L	0.00039	0.0038 mg/L	0.00039	10.40%
Mo 202.031†	18.7	0.0033 mg/L	0.00041	0.0033 mg/L	0.00041	12.34%
Na 589.592†	-330.5	0.0531 mg/L	0.00168	0.0531 mg/L	0.00168	3.17%
Ni 231.604†	35.0	0.0024 mg/L	0.00001	0.0024 mg/L	0.00001	0.53%
P 214.914†	60.5	0.0848 mg/L	0.00068	0.0848 mg/L	0.00068	0.80%
Pb 220.353†	-18.7	-0.0015 mg/L	0.00124	-0.0015 mg/L	0.00124	84.98%
Sb 206.836†	5.3	0.0067 mg/L	0.00143	0.0067 mg/L	0.00143	21.39%
Se 196.026†	7.2	0.0100 mg/L	0.00155	0.0100 mg/L	0.00155	15.54%
Sn 189.927†	142.0	0.0197 mg/L	0.00177	0.0197 mg/L	0.00177	8.94%
Sr 407.771†	133.6	0.0005 mg/L	0.00006	0.0005 mg/L	0.00006	12.38%
Ti 337.279†	1384.9	0.0065 mg/L	0.00020	0.0065 mg/L	0.00020	3.03%
Tl 190.801†	-5.5	-0.0042 mg/L	0.00576	-0.0042 mg/L	0.00576	136.46%
V 292.402†	51.6	0.0048 mg/L	0.00010	0.0048 mg/L	0.00010	2.15%
Zn 213.857†	1052.2	0.0104 mg/L	0.00014	0.0104 mg/L	0.00014	1.31%

Sequence No.: 7
Sample ID: CG30304-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 7/5/2013 1:06:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30304-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	892.7	930.6	0.5203 mg/L		0.5203 mg/L	13:08:30
1	Fe 234.349†	91282.3	94481.0	62.93 mg/L		62.93 mg/L	13:08:30
1	K 766.490†	25148.8	25214.1	13.92 mg/L		13.92 mg/L	13:08:30
1	Li 670.784†	1240.4	1519.6	0.0462 mg/L		0.0462 mg/L	13:08:30
1	Na 589.592†	15842.5	15919.2	3.010 mg/L		3.010 mg/L	13:08:30
1	Sr 407.771†	491768.3	508966.7	0.5938 mg/L		0.5938 mg/L	13:08:27
1	Y 371.029	2609403.6	2609403.6	0.966 mg/L			13:08:39
1	Ag 328.068†	71136.9	71769.8	0.4012 mg/L		0.4012 mg/L	13:08:42
1	Al 237.313†	401872.3	416414.9	46.10 mg/L		46.10 mg/L	13:08:42
1	As 188.979†	1116.5	1162.4	0.8494 mg/L		0.8494 mg/L	13:08:52
1	B 182.528†	459.8	485.5	0.5210 mg/L		0.5210 mg/L	13:08:52
1	Ba 233.527†	237281.6	245711.0	2.144 mg/L		2.144 mg/L	13:08:42
1	Be 313.107†	1816424.2	1881647.8	0.8276 mg/L		0.8276 mg/L	13:08:39
1	Ca 315.887†	3928834.1	4068674.7	44.38 mg/L		44.38 mg/L	13:08:39
1	Cd 228.802†	26713.6	27492.6	0.8585 mg/L		0.8585 mg/L	13:08:42
1	Co 228.616†	29353.2	30625.8	0.6091 mg/L		0.6091 mg/L	13:08:52
1	Cr 267.716†	118713.6	122316.1	1.070 mg/L		1.070 mg/L	13:08:42
1	Cu 324.752†	174468.1	175791.9	0.9518 mg/L		0.9518 mg/L	13:08:42
1	Mg 279.077†	219711.6	227423.6	18.36 mg/L		18.36 mg/L	13:08:42
1	Mn 257.610†	1642336.2	1683936.0	2.154 mg/L		2.154 mg/L	13:08:39
1	Mn 294.920†	807752.6	837450.0	2.185 mg/L		2.185 mg/L	13:08:42
1	Mo 202.031†	16863.8	17420.0	0.7279 mg/L		0.7279 mg/L	13:08:52
1	Ni 231.604†	33537.0	34556.6	0.7731 mg/L		0.7731 mg/L	13:08:42
1	P 214.914†	4064.7	4234.5	2.685 mg/L		2.685 mg/L	13:08:52
1	Pb 220.353†	8347.6	8458.6	0.5889 mg/L		0.5889 mg/L	13:08:52
1	Sb 206.836†	911.6	895.8	0.4032 mg/L		0.4032 mg/L	13:08:52
1	Se 196.026†	1138.5	1167.5	0.7926 mg/L		0.7926 mg/L	13:08:52
1	Sn 189.927†	5166.1	5318.2	0.8132 mg/L		0.8132 mg/L	13:08:52
1	Ti 337.279†	1550114.7	1605168.3	1.878 mg/L		1.878 mg/L	13:08:39
1	Tl 190.801†	888.0	924.0	0.8593 mg/L		0.8593 mg/L	13:08:52
1	V 292.402†	151626.2	157299.0	0.7297 mg/L		0.7297 mg/L	13:08:42
1	Zn 213.857†	254372.4	262159.5	1.922 mg/L		1.922 mg/L	13:08:42
2	B 249.677†	911.8	956.0	0.5344 mg/L		0.5344 mg/L	13:08:34
2	Fe 234.349†	93050.7	96882.4	64.53 mg/L		64.53 mg/L	13:08:34
2	K 766.490†	25458.9	25691.3	14.18 mg/L		14.18 mg/L	13:08:34
2	Li 670.784†	1287.7	1576.4	0.0478 mg/L		0.0478 mg/L	13:08:34
2	Na 589.592†	15941.8	16119.7	3.046 mg/L		3.046 mg/L	13:08:34
2	Sr 407.771†	490466.3	510628.2	0.5957 mg/L		0.5957 mg/L	13:08:32
2	Y 371.029	2594028.0	2594028.0	0.960 mg/L			13:08:55
2	Ag 328.068†	71094.0	72161.6	0.4034 mg/L		0.4034 mg/L	13:08:58
2	Al 237.313†	401556.8	418552.1	46.34 mg/L		46.34 mg/L	13:08:58
2	As 188.979†	1127.8	1180.9	0.8629 mg/L		0.8629 mg/L	13:09:08
2	B 182.528†	462.4	491.0	0.5269 mg/L		0.5269 mg/L	13:09:08

2	Ba	233.527†	237392.3	247282.1	2.158 mg/L	2.158 mg/L	13:08:58
2	Be	313.107†	1808831.5	1884886.5	0.8291 mg/L	0.8291 mg/L	13:08:55
2	Ca	315.887†	3906614.0	4069643.1	44.39 mg/L	44.39 mg/L	13:08:55
2	Cd	228.802†	26752.4	27697.0	0.8648 mg/L	0.8648 mg/L	13:08:58
2	Co	228.616†	29624.8	31088.7	0.6184 mg/L	0.6184 mg/L	13:09:08
2	Cr	267.716†	118813.2	123148.2	1.077 mg/L	1.077 mg/L	13:08:58
2	Cu	324.752†	174845.6	177255.3	0.9597 mg/L	0.9597 mg/L	13:08:58
2	Mg	279.077†	219581.4	228636.1	18.45 mg/L	18.45 mg/L	13:08:58
2	Mn	257.610†	1635179.5	1686560.5	2.157 mg/L	2.157 mg/L	13:08:55
2	Mn	294.920†	807387.7	842025.9	2.197 mg/L	2.197 mg/L	13:08:58
2	Mo	202.031†	16960.9	17624.7	0.7363 mg/L	0.7363 mg/L	13:09:08
2	Ni	231.604†	33584.5	34811.9	0.7788 mg/L	0.7788 mg/L	13:08:58
2	P	214.914†	4117.2	4314.1	2.734 mg/L	2.734 mg/L	13:09:08
2	Pb	220.353†	8408.0	8572.7	0.5969 mg/L	0.5969 mg/L	13:09:08
2	Sb	206.836†	907.3	896.9	0.4033 mg/L	0.4033 mg/L	13:09:08
2	Se	196.026†	1149.1	1185.6	0.8047 mg/L	0.8047 mg/L	13:09:08
2	Sn	189.927†	5199.4	5384.6	0.8231 mg/L	0.8231 mg/L	13:09:08
2	Ti	337.279†	1542818.8	1607082.2	1.881 mg/L	1.881 mg/L	13:08:55
2	Tl	190.801†	898.2	940.0	0.8739 mg/L	0.8739 mg/L	13:09:08
2	V	292.402†	151441.7	158037.2	0.7332 mg/L	0.7332 mg/L	13:08:58
2	Zn	213.857†	254203.8	263544.6	1.932 mg/L	1.932 mg/L	13:08:58

Mean Data: CG30304-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2601715.8	0.963 mg/L		0.0040			0.42%
Ag 328.068†	71965.7	0.4023 mg/L		0.00156	0.4023 mg/L	0.00156	0.39%
Al 237.313†	417483.5	46.22 mg/L		0.167	46.22 mg/L	0.167	0.36%
As 188.979†	1171.7	0.8561 mg/L		0.00955	0.8561 mg/L	0.00955	1.12%
B 249.677†	943.3	0.5273 mg/L		0.00999	0.5273 mg/L	0.00999	1.89%
B 182.528†	488.3	0.5240 mg/L		0.00418	0.5240 mg/L	0.00418	0.80%
Ba 233.527†	246496.6	2.151 mg/L		0.0097	2.151 mg/L	0.0097	0.45%
Be 313.107†	1883267.2	0.8283 mg/L		0.00101	0.8283 mg/L	0.00101	0.12%
Ca 315.887†	4069158.9	44.38 mg/L		0.007	44.38 mg/L	0.007	0.02%
Cd 228.802†	27594.8	0.8617 mg/L		0.00449	0.8617 mg/L	0.00449	0.52%
Co 228.616†	30857.2	0.6138 mg/L		0.00655	0.6138 mg/L	0.00655	1.07%
Cr 267.716†	122732.2	1.074 mg/L		0.0051	1.074 mg/L	0.0051	0.48%
Cu 324.752†	176523.6	0.9558 mg/L		0.00556	0.9558 mg/L	0.00556	0.58%
Fe 234.349†	95681.7	63.73 mg/L		1.132	63.73 mg/L	1.132	1.78%
K 766.490†	25452.7	14.05 mg/L		0.184	14.05 mg/L	0.184	1.31%
Li 670.784†	1548.0	0.0470 mg/L		0.00110	0.0470 mg/L	0.00110	2.35%
Mg 279.077†	228029.8	18.40 mg/L		0.069	18.40 mg/L	0.069	0.38%
Mn 257.610†	1685248.2	2.155 mg/L		0.0021	2.155 mg/L	0.0021	0.10%
Mn 294.920†	839738.0	2.191 mg/L		0.0084	2.191 mg/L	0.0084	0.39%
Mo 202.031†	17522.4	0.7321 mg/L		0.00595	0.7321 mg/L	0.00595	0.81%
Na 589.592†	16019.4	3.028 mg/L		0.0258	3.028 mg/L	0.0258	0.85%
Ni 231.604†	34684.2	0.7759 mg/L		0.00403	0.7759 mg/L	0.00403	0.52%
P 214.914†	4274.3	2.710 mg/L		0.0352	2.710 mg/L	0.0352	1.30%
Pb 220.353†	8515.7	0.5929 mg/L		0.00567	0.5929 mg/L	0.00567	0.96%
Sb 206.836†	896.3	0.4032 mg/L		0.00004	0.4032 mg/L	0.00004	0.01%
Se 196.026†	1176.5	0.7987 mg/L		0.00851	0.7987 mg/L	0.00851	1.07%
Sn 189.927†	5351.4	0.8181 mg/L		0.00696	0.8181 mg/L	0.00696	0.85%
Sr 407.771†	509797.4	0.5948 mg/L		0.00137	0.5948 mg/L	0.00137	0.23%
Ti 337.279†	1606125.3	1.880 mg/L		0.0016	1.880 mg/L	0.0016	0.08%
Tl 190.801†	932.0	0.8666 mg/L		0.01030	0.8666 mg/L	0.01030	1.19%
V 292.402†	157668.1	0.7315 mg/L		0.00247	0.7315 mg/L	0.00247	0.34%
Zn 213.857†	262852.1	1.927 mg/L		0.0071	1.927 mg/L	0.0071	0.37%

Sequence No.: 8

Sample ID: CG30304-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 14

Date Collected: 7/5/2013 1:10:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30304-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	962.9	1004.8	0.5616 mg/L	0.5616 mg/L	13:12:29
1	Fe 234.349†	97077.9	100645.1	67.04 mg/L	67.04 mg/L	13:12:29
1	K 766.490†	26838.5	27008.7	14.89 mg/L	14.89 mg/L	13:12:29

1	Li 670.784†	1275.7	1558.3	0.0473 mg/L	0.0473 mg/L	13:12:29
1	Na 589.592†	16545.4	16674.8	3.147 mg/L	3.147 mg/L	13:12:29
1	Sr 407.771†	482145.7	499825.4	0.5831 mg/L	0.5831 mg/L	13:12:26
1	Y 371.029	2605127.0	2605127.0	0.964 mg/L		13:12:38
1	Ag 328.068†	74687.7	75572.2	0.4224 mg/L	0.4224 mg/L	13:12:41
1	Al 237.313†	414044.9	429718.6	47.57 mg/L	47.57 mg/L	13:12:41
1	As 188.979†	1170.7	1220.4	0.8916 mg/L	0.8916 mg/L	13:12:51
1	B 182.528†	482.6	509.9	0.5472 mg/L	0.5472 mg/L	13:12:51
1	Ba 233.527†	244798.2	253907.5	2.215 mg/L	2.215 mg/L	13:12:41
1	Be 313.107†	1863563.2	1933608.8	0.8505 mg/L	0.8505 mg/L	13:12:38
1	Ca 315.887†	4025620.0	4175699.9	45.55 mg/L	45.55 mg/L	13:12:38
1	Cd 228.802†	27768.9	28632.2	0.8940 mg/L	0.8940 mg/L	13:12:41
1	Co 228.616†	30732.3	32105.6	0.6386 mg/L	0.6386 mg/L	13:12:51
1	Cr 267.716†	119310.9	123137.1	1.077 mg/L	1.077 mg/L	13:12:41
1	Cu 324.752†	182862.0	184791.2	1.000 mg/L	1.000 mg/L	13:12:41
1	Mg 279.077†	231170.5	239677.7	19.34 mg/L	19.34 mg/L	13:12:41
1	Mn 257.610†	1703767.1	1750419.3	2.239 mg/L	2.239 mg/L	13:12:38
1	Mn 294.920†	842462.4	874810.2	2.283 mg/L	2.283 mg/L	13:12:41
1	Mo 202.031†	17850.6	18471.9	0.7717 mg/L	0.7717 mg/L	13:12:51
1	Ni 231.604†	35193.9	36331.5	0.8127 mg/L	0.8127 mg/L	13:12:41
1	P 214.914†	4250.6	4434.2	2.809 mg/L	2.809 mg/L	13:12:51
1	Pb 220.353†	11658.6	11905.7	0.8317 mg/L	0.8317 mg/L	13:12:51
1	Sb 206.836†	962.3	949.9	0.4277 mg/L	0.4277 mg/L	13:12:51
1	Se 196.026†	1184.8	1217.6	0.8261 mg/L	0.8261 mg/L	13:12:51
1	Sn 189.927†	5424.7	5595.1	0.8549 mg/L	0.8549 mg/L	13:12:51
1	Ti 337.279†	1595321.5	1654673.5	1.936 mg/L	1.936 mg/L	13:12:38
1	Tl 190.801†	905.8	944.0	0.8762 mg/L	0.8762 mg/L	13:12:51
1	V 292.402†	156670.3	162786.4	0.7552 mg/L	0.7552 mg/L	13:12:41
1	Zn 213.857†	265346.7	273970.1	2.009 mg/L	2.009 mg/L	13:12:41
2	B 249.677†	922.5	968.5	0.5414 mg/L	0.5414 mg/L	13:12:33
2	Fe 234.349†	92734.5	96702.3	64.41 mg/L	64.41 mg/L	13:12:33
2	K 766.490†	25793.4	26081.0	14.39 mg/L	14.39 mg/L	13:12:33
2	Li 670.784†	1278.3	1568.7	0.0476 mg/L	0.0476 mg/L	13:12:33
2	Na 589.592†	16093.6	16303.7	3.080 mg/L	3.080 mg/L	13:12:33
2	Sr 407.771†	481269.8	501826.6	0.5855 mg/L	0.5855 mg/L	13:12:31
2	Y 371.029	2590025.8	2590025.8	0.959 mg/L		13:12:54
2	Ag 328.068†	74650.4	75984.9	0.4246 mg/L	0.4246 mg/L	13:12:57
2	Al 237.313†	412941.6	431070.9	47.72 mg/L	47.72 mg/L	13:12:57
2	As 188.979†	1160.0	1216.4	0.8887 mg/L	0.8887 mg/L	13:13:07
2	B 182.528†	481.8	512.0	0.5495 mg/L	0.5495 mg/L	13:13:07
2	Ba 233.527†	244124.7	254685.1	2.222 mg/L	2.222 mg/L	13:12:57
2	Be 313.107†	1854150.0	1935057.7	0.8511 mg/L	0.8511 mg/L	13:12:54
2	Ca 315.887†	4003573.9	4177044.5	45.56 mg/L	45.56 mg/L	13:12:54
2	Cd 228.802†	27699.3	28727.5	0.8970 mg/L	0.8970 mg/L	13:12:57
2	Co 228.616†	30670.3	32226.7	0.6411 mg/L	0.6411 mg/L	13:13:07
2	Cr 267.716†	119101.3	123639.8	1.082 mg/L	1.082 mg/L	13:12:57
2	Cu 324.752†	182361.7	185375.0	1.003 mg/L	1.003 mg/L	13:12:57
2	Mg 279.077†	230364.6	240234.7	19.39 mg/L	19.39 mg/L	13:12:57
2	Mn 257.610†	1693758.9	1750281.7	2.239 mg/L	2.239 mg/L	13:12:54
2	Mn 294.920†	840354.3	877704.6	2.290 mg/L	2.290 mg/L	13:12:57
2	Mo 202.031†	17766.7	18492.2	0.7729 mg/L	0.7729 mg/L	13:13:07
2	Ni 231.604†	35156.4	36505.2	0.8166 mg/L	0.8166 mg/L	13:12:57
2	P 214.914†	4248.8	4458.0	2.824 mg/L	2.824 mg/L	13:13:07
2	Pb 220.353†	11614.0	11929.6	0.8334 mg/L	0.8334 mg/L	13:13:07
2	Sb 206.836†	965.8	959.3	0.4328 mg/L	0.4328 mg/L	13:13:07
2	Se 196.026†	1176.3	1215.8	0.8254 mg/L	0.8254 mg/L	13:13:07
2	Sn 189.927†	5428.1	5631.4	0.8603 mg/L	0.8603 mg/L	13:13:07
2	Ti 337.279†	1587304.2	1655956.6	1.938 mg/L	1.938 mg/L	13:12:54
2	Tl 190.801†	917.3	961.5	0.8948 mg/L	0.8948 mg/L	13:13:07
2	V 292.402†	155865.7	162894.4	0.7557 mg/L	0.7557 mg/L	13:12:57
2	Zn 213.857†	264689.7	274889.0	2.016 mg/L	2.016 mg/L	13:12:57

Mean Data: CG30304-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2597576.4	0.962	mg/L	0.0040			0.41%
Ag 328.068†	75778.5	0.4235	mg/L	0.00157	0.4235 mg/L	0.00157	0.37%
Al 237.313†	430394.7	47.65	mg/L	0.106	47.65 mg/L	0.106	0.22%
As 188.979†	1218.4	0.8901	mg/L	0.00208	0.8901 mg/L	0.00208	0.23%
B 249.677†	986.7	0.5515	mg/L	0.01430	0.5515 mg/L	0.01430	2.59%
B 182.528†	510.9	0.5483	mg/L	0.00161	0.5483 mg/L	0.00161	0.29%
Ba 233.527†	254296.3	2.219	mg/L	0.0048	2.219 mg/L	0.0048	0.22%

Be 313.107†	1934333.3	0.8508 mg/L	0.00045	0.8508 mg/L	0.00045	0.05%
Ca 315.887†	4176372.2	45.55 mg/L	0.010	45.55 mg/L	0.010	0.02%
Cd 228.802†	28679.8	0.8955 mg/L	0.00214	0.8955 mg/L	0.00214	0.24%
Co 228.616†	32166.1	0.6398 mg/L	0.00171	0.6398 mg/L	0.00171	0.27%
Cr 267.716†	123388.5	1.080 mg/L	0.0031	1.080 mg/L	0.0031	0.29%
Cu 324.752†	185083.1	1.002 mg/L	0.0022	1.002 mg/L	0.0022	0.22%
Fe 234.349†	98673.7	65.73 mg/L	1.859	65.73 mg/L	1.859	2.83%
K 766.490†	26544.8	14.64 mg/L	0.357	14.64 mg/L	0.357	2.44%
Li 670.784†	1563.5	0.0474 mg/L	0.00020	0.0474 mg/L	0.00020	0.42%
Mg 279.077†	239956.2	19.37 mg/L	0.032	19.37 mg/L	0.032	0.16%
Mn 257.610†	1750350.5	2.239 mg/L	0.0003	2.239 mg/L	0.0003	0.01%
Mn 294.920†	876257.4	2.287 mg/L	0.0053	2.287 mg/L	0.0053	0.23%
Mo 202.031†	18482.1	0.7723 mg/L	0.00088	0.7723 mg/L	0.00088	0.11%
Na 589.592†	16489.2	3.113 mg/L	0.0477	3.113 mg/L	0.0477	1.53%
Ni 231.604†	36418.4	0.8146 mg/L	0.00274	0.8146 mg/L	0.00274	0.34%
P 214.914†	4446.1	2.816 mg/L	0.0105	2.816 mg/L	0.0105	0.37%
Pb 220.353†	11917.7	0.8325 mg/L	0.00118	0.8325 mg/L	0.00118	0.14%
Sb 206.836†	954.6	0.4302 mg/L	0.00363	0.4302 mg/L	0.00363	0.84%
Se 196.026†	1216.7	0.8258 mg/L	0.00048	0.8258 mg/L	0.00048	0.06%
Sn 189.927†	5613.3	0.8576 mg/L	0.00380	0.8576 mg/L	0.00380	0.44%
Sr 407.771†	500826.0	0.5843 mg/L	0.00165	0.5843 mg/L	0.00165	0.28%
Ti 337.279†	1655315.1	1.937 mg/L	0.0011	1.937 mg/L	0.0011	0.05%
Tl 190.801†	952.7	0.8855 mg/L	0.01315	0.8855 mg/L	0.01315	1.49%
V 292.402†	162840.4	0.7554 mg/L	0.00036	0.7554 mg/L	0.00036	0.05%
Zn 213.857†	274429.6	2.012 mg/L	0.0048	2.012 mg/L	0.0048	0.24%

Sequence No.: 9

Sample ID: 1307036-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 7/5/2013 1:14:45 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307036-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-11.1	-4.2	-0.0011 mg/L		-0.0011 mg/L	13:16:27
1	Fe 234.349†	396741.2	384305.5	256.3 mg/L		256.3 mg/L	13:16:25
1	K 766.490†	11419.2	10243.6	5.757 mg/L		5.757 mg/L	13:16:27
1	Li 670.784†	9808.9	9737.3	0.2721 mg/L		0.2721 mg/L	13:16:27
1	Na 589.592†	2237.7	1687.8	0.4203 mg/L		0.4203 mg/L	13:16:27
1	Sr 407.771†	64212.5	62130.3	0.0728 mg/L		0.0728 mg/L	13:16:27
1	Y 371.029	2788388.5	2788388.5	1.03 mg/L			13:16:36
1	Ag 328.068†	575.1	-1308.0	0.0010 mg/L		0.0010 mg/L	13:16:38
1	Al 237.313†	1455658.3	1410486.7	156.1 mg/L		156.1 mg/L	13:16:36
1	As 188.979†	47.5	52.7	0.0423 mg/L		0.0423 mg/L	13:16:49
1	B 182.528†	15.3	24.3	0.0260 mg/L		0.0260 mg/L	13:16:49
1	Ba 233.527†	48726.0	47296.6	0.4152 mg/L		0.4152 mg/L	13:16:38
1	Be 313.107†	21783.5	22539.1	0.0091 mg/L		0.0091 mg/L	13:16:38
1	Ca 315.887†	545701.8	530481.9	5.819 mg/L		5.819 mg/L	13:16:36
1	Cd 228.802†	285.4	117.4	0.0003 mg/L		0.0003 mg/L	13:16:49
1	Co 228.616†	4502.3	4603.1	0.0813 mg/L		0.0813 mg/L	13:16:49
1	Cr 267.716†	20676.0	19462.0	0.1730 mg/L		0.1730 mg/L	13:16:38
1	Cu 324.752†	38161.4	32163.0	0.1834 mg/L		0.1834 mg/L	13:16:38
1	Mg 279.077†	418525.4	405410.7	32.70 mg/L		32.70 mg/L	13:16:36
1	Mn 257.610†	1541651.3	1477282.9	1.844 mg/L		1.844 mg/L	13:16:36
1	Mn 294.920†	792953.7	769444.8	2.008 mg/L		2.008 mg/L	13:16:36
1	Mo 202.031†	178.7	137.2	-0.0311 mg/L		-0.0311 mg/L	13:16:38
1	Ni 231.604†	8233.0	7817.1	0.1759 mg/L		0.1759 mg/L	13:16:38
1	P 214.914†	12298.8	11940.6	7.524 mg/L		7.524 mg/L	13:16:38
1	Pb 220.353†	4360.2	4041.5	0.2529 mg/L		0.2529 mg/L	13:16:49
1	Sb 206.836†	116.0	64.5	-0.0403 mg/L		-0.0403 mg/L	13:16:49
1	Se 196.026†	-40.7	-50.3	-0.0807 mg/L		-0.0807 mg/L	13:16:49
1	Sn 189.927†	-12.7	-41.6	-0.0040 mg/L		-0.0040 mg/L	13:16:49
1	Ti 337.279†	4438647.7	4300216.2	5.024 mg/L		5.024 mg/L	13:16:36
1	Tl 190.801†	-9.8	-4.7	-0.1585 mg/L		-0.1585 mg/L	13:16:49
1	V 292.402†	63109.0	61480.2	0.2742 mg/L		0.2742 mg/L	13:16:38
1	Zn 213.857†	139075.1	133572.8	0.9726 mg/L		0.9726 mg/L	13:16:38
2	B 249.677†	-40.1	-32.2	-0.0166 mg/L		-0.0166 mg/L	13:16:31
2	Fe 234.349†	393088.4	379734.0	253.2 mg/L		253.2 mg/L	13:16:29
2	K 766.490†	11369.1	10165.2	5.714 mg/L		5.714 mg/L	13:16:31
2	Li 670.784†	9692.4	9598.9	0.2683 mg/L		0.2683 mg/L	13:16:31

2	Na 589.592†	2241.9	1686.1	0.4200 mg/L	0.4200 mg/L	13:16:31
2	Sr 407.771†	64442.1	62183.3	0.0729 mg/L	0.0729 mg/L	13:16:31
2	Y 371.029	2795975.1	2795975.1	1.04 mg/L		13:16:52
2	Ag 328.068†	500.4	-1381.8	0.0005 mg/L	0.0005 mg/L	13:16:54
2	Al 237.313†	1459578.9	1410448.2	156.1 mg/L	156.1 mg/L	13:16:52
2	As 188.979†	53.3	58.1	0.0462 mg/L	0.0462 mg/L	13:17:04
2	B 182.528†	24.1	32.9	0.0352 mg/L	0.0352 mg/L	13:17:04
2	Ba 233.527†	47967.8	46436.0	0.4077 mg/L	0.4077 mg/L	13:16:54
2	Be 313.107†	21427.1	22137.6	0.0089 mg/L	0.0089 mg/L	13:16:54
2	Ca 315.887†	546365.4	529688.6	5.811 mg/L	5.811 mg/L	13:16:52
2	Cd 228.802†	278.3	109.8	0.0001 mg/L	0.0001 mg/L	13:17:04
2	Co 228.616†	4506.4	4595.1	0.0812 mg/L	0.0812 mg/L	13:17:04
2	Cr 267.716†	20427.2	19167.4	0.1705 mg/L	0.1705 mg/L	13:16:54
2	Cu 324.752†	37503.4	31427.0	0.1795 mg/L	0.1795 mg/L	13:16:54
2	Mg 279.077†	419192.4	404955.0	32.66 mg/L	32.66 mg/L	13:16:52
2	Mn 257.610†	1546403.8	1477821.9	1.846 mg/L	1.846 mg/L	13:16:52
2	Mn 294.920†	795687.5	770001.6	2.010 mg/L	2.010 mg/L	13:16:52
2	Mo 202.031†	269.1	224.0	-0.0269 mg/L	-0.0269 mg/L	13:16:54
2	Ni 231.604†	8152.2	7717.4	0.1737 mg/L	0.1737 mg/L	13:16:54
2	P 214.914†	12054.1	11671.9	7.355 mg/L	7.355 mg/L	13:16:54
2	Pb 220.353†	4455.7	4122.3	0.2586 mg/L	0.2586 mg/L	13:17:04
2	Sb 206.836†	112.4	60.8	-0.0411 mg/L	-0.0411 mg/L	13:17:04
2	Se 196.026†	-52.2	-61.4	-0.0877 mg/L	-0.0877 mg/L	13:17:04
2	Sn 189.927†	0.3	-29.0	-0.0021 mg/L	-0.0021 mg/L	13:17:04
2	Ti 337.279†	4450737.9	4300229.3	5.024 mg/L	5.024 mg/L	13:16:52
2	Tl 190.801†	-15.7	-10.4	-0.1622 mg/L	-0.1622 mg/L	13:17:04
2	V 292.402†	62058.2	60299.3	0.2689 mg/L	0.2689 mg/L	13:16:54
2	Zn 213.857†	136805.8	131015.1	0.9539 mg/L	0.9539 mg/L	13:16:54

Mean Data: 1307036-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2792181.8	1.03	mg/L	0.002			0.19%
Ag 328.068†	-1344.9	0.0007	mg/L	0.00034	0.0007 mg/L	0.00034	45.91%
Al 237.313†	1410467.5	156.1	mg/L	0.00	156.1 mg/L	0.00	0.00%
As 188.979†	55.4	0.0442	mg/L	0.00279	0.0442 mg/L	0.00279	6.32%
B 249.677†	-18.2	-0.0089	mg/L	0.01100	-0.0089 mg/L	0.01100	124.10%
B 182.528†	28.6	0.0306	mg/L	0.00647	0.0306 mg/L	0.00647	21.14%
Ba 233.527†	46866.3	0.4114	mg/L	0.00530	0.4114 mg/L	0.00530	1.29%
Be 313.107†	22338.3	0.0090	mg/L	0.00013	0.0090 mg/L	0.00013	1.39%
Ca 315.887†	530085.3	5.815	mg/L	0.0062	5.815 mg/L	0.0062	0.11%
Cd 228.802†	113.6	0.0002	mg/L	0.00013	0.0002 mg/L	0.00013	58.80%
Co 228.616†	4599.1	0.0813	mg/L	0.00011	0.0813 mg/L	0.00011	0.14%
Cr 267.716†	19314.7	0.1718	mg/L	0.00181	0.1718 mg/L	0.00181	1.06%
Cu 324.752†	31795.0	0.1814	mg/L	0.00280	0.1814 mg/L	0.00280	1.54%
Fe 234.349†	382019.8	254.8	mg/L	2.16	254.8 mg/L	2.16	0.85%
K 766.490†	10204.4	5.736	mg/L	0.0302	5.736 mg/L	0.0302	0.53%
Li 670.784†	9668.1	0.2702	mg/L	0.00269	0.2702 mg/L	0.00269	1.00%
Mg 279.077†	405182.8	32.68	mg/L	0.026	32.68 mg/L	0.026	0.08%
Mn 257.610†	1477552.4	1.845	mg/L	0.0010	1.845 mg/L	0.0010	0.05%
Mn 294.920†	769723.2	2.009	mg/L	0.0010	2.009 mg/L	0.0010	0.05%
Mo 202.031†	180.6	-0.0290	mg/L	0.00295	-0.0290 mg/L	0.00295	10.16%
Na 589.592†	1687.0	0.4202	mg/L	0.00023	0.4202 mg/L	0.00023	0.05%
Ni 231.604†	7767.2	0.1748	mg/L	0.00157	0.1748 mg/L	0.00157	0.90%
P 214.914†	11806.2	7.439	mg/L	0.1190	7.439 mg/L	0.1190	1.60%
Pb 220.353†	4081.9	0.2557	mg/L	0.00404	0.2557 mg/L	0.00404	1.58%
Sb 206.836†	62.6	-0.0407	mg/L	0.00057	-0.0407 mg/L	0.00057	1.40%
Se 196.026†	-55.8	-0.0842	mg/L	0.00490	-0.0842 mg/L	0.00490	5.82%
Sn 189.927†	-35.3	-0.0030	mg/L	0.00132	-0.0030 mg/L	0.00132	43.37%
Sr 407.771†	62156.8	0.0728	mg/L	0.00004	0.0728 mg/L	0.00004	0.06%
Ti 337.279†	4300222.8	5.024	mg/L	0.0000	5.024 mg/L	0.0000	0.00%
Tl 190.801†	-7.6	-0.1604	mg/L	0.00259	-0.1604 mg/L	0.00259	1.61%
V 292.402†	60889.7	0.2716	mg/L	0.00376	0.2716 mg/L	0.00376	1.38%
Zn 213.857†	132293.9	0.9632	mg/L	0.01320	0.9632 mg/L	0.01320	1.37%

Sequence No.: 10
Sample ID: 1307036-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 7/5/2013 1:20:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	-32.6	-25.4	-0.0129 mg/L	-0.0129 mg/L	13:21:56
1	Fe 234.349†	387858.5	379871.1	253.3 mg/L	253.3 mg/L	13:21:54
1	K 766.490†	14747.5	13626.2	7.600 mg/L	7.600 mg/L	13:21:56
1	Li 670.784†	9770.0	9804.6	0.2739 mg/L	0.2739 mg/L	13:21:56
1	Na 589.592†	2859.5	2320.9	0.5355 mg/L	0.5355 mg/L	13:21:56
1	Sr 407.771†	120838.5	118281.5	0.1383 mg/L	0.1383 mg/L	13:21:54
1	Y 371.029	2757780.0	2757780.0	1.02 mg/L		13:22:06
1	Ag 328.068†	799.7	-1081.9	0.0022 mg/L	0.0022 mg/L	13:22:06
1	Al 237.313†	1355491.0	1328030.6	147.0 mg/L	147.0 mg/L	13:22:06
1	As 188.979†	52.0	57.6	0.0458 mg/L	0.0458 mg/L	13:22:17
1	B 182.528†	30.1	39.0	0.0418 mg/L	0.0418 mg/L	13:22:17
1	Ba 233.527†	51261.9	50304.2	0.4414 mg/L	0.4414 mg/L	13:22:06
1	Be 313.107†	17075.7	18162.3	0.0073 mg/L	0.0073 mg/L	13:22:06
1	Ca 315.887†	1543566.9	1513681.8	16.53 mg/L	16.53 mg/L	13:22:06
1	Cd 228.802†	335.4	169.5	0.0020 mg/L	0.0020 mg/L	13:22:17
1	Co 228.616†	4819.4	4962.0	0.0896 mg/L	0.0896 mg/L	13:22:17
1	Cr 267.716†	23054.9	22014.2	0.1953 mg/L	0.1953 mg/L	13:22:06
1	Cu 324.752†	54365.6	48444.1	0.2704 mg/L	0.2704 mg/L	13:22:06
1	Mg 279.077†	462760.1	453234.9	36.55 mg/L	36.55 mg/L	13:22:06
1	Mn 257.610†	2233926.8	2171888.6	2.739 mg/L	2.739 mg/L	13:22:06
1	Mn 294.920†	1136228.9	1114182.0	2.907 mg/L	2.907 mg/L	13:22:06
1	Mo 202.031†	578.1	530.3	-0.0144 mg/L	-0.0144 mg/L	13:22:17
1	Ni 231.604†	8883.7	8542.8	0.1921 mg/L	0.1921 mg/L	13:22:17
1	P 214.914†	12458.3	12229.0	7.703 mg/L	7.703 mg/L	13:22:17
1	Pb 220.353†	4836.8	4555.1	0.2910 mg/L	0.2910 mg/L	13:22:17
1	Sb 206.836†	109.3	59.3	-0.0419 mg/L	-0.0419 mg/L	13:22:17
1	Se 196.026†	-51.5	-61.4	-0.0877 mg/L	-0.0877 mg/L	13:22:17
1	Sn 189.927†	-147.8	-174.1	-0.0170 mg/L	-0.0170 mg/L	13:22:17
1	Ti 337.279†	3973122.1	3891990.3	4.548 mg/L	4.548 mg/L	13:22:06
1	Tl 190.801†	-17.6	-12.4	-0.1640 mg/L	-0.1640 mg/L	13:22:17
1	V 292.402†	61673.7	60752.9	0.2722 mg/L	0.2722 mg/L	13:22:06
1	Zn 213.857†	148954.1	144743.8	1.055 mg/L	1.055 mg/L	13:22:06
2	B 249.677†	-39.4	-31.9	-0.0165 mg/L	-0.0165 mg/L	13:22:01
2	Fe 234.349†	386314.0	377149.6	251.5 mg/L	251.5 mg/L	13:21:59
2	K 766.490†	14699.3	13533.0	7.550 mg/L	7.550 mg/L	13:22:01
2	Li 670.784†	9499.8	9510.2	0.2658 mg/L	0.2658 mg/L	13:22:01
2	Na 589.592†	2846.8	2299.6	0.5316 mg/L	0.5316 mg/L	13:22:01
2	Sr 407.771†	120588.1	117659.0	0.1376 mg/L	0.1376 mg/L	13:21:59
2	Y 371.029	2766618.6	2766618.6	1.02 mg/L		13:22:20
2	Ag 328.068†	595.0	-1284.2	0.0010 mg/L	0.0010 mg/L	13:22:20
2	Al 237.313†	1356068.3	1324352.9	146.6 mg/L	146.6 mg/L	13:22:20
2	As 188.979†	54.6	59.9	0.0475 mg/L	0.0475 mg/L	13:22:31
2	B 182.528†	29.9	38.7	0.0415 mg/L	0.0415 mg/L	13:22:31
2	Ba 233.527†	51189.6	50073.2	0.4394 mg/L	0.4394 mg/L	13:22:20
2	Be 313.107†	17098.6	18131.3	0.0073 mg/L	0.0073 mg/L	13:22:20
2	Ca 315.887†	1544405.4	1509670.6	16.49 mg/L	16.49 mg/L	13:22:20
2	Cd 228.802†	341.9	174.7	0.0022 mg/L	0.0022 mg/L	13:22:31
2	Co 228.616†	4759.4	4888.3	0.0881 mg/L	0.0881 mg/L	13:22:31
2	Cr 267.716†	23027.2	21915.1	0.1944 mg/L	0.1944 mg/L	13:22:20
2	Cu 324.752†	54329.6	48238.8	0.2693 mg/L	0.2693 mg/L	13:22:20
2	Mg 279.077†	462819.6	451845.0	36.44 mg/L	36.44 mg/L	13:22:20
2	Mn 257.610†	2233216.2	2164205.0	2.729 mg/L	2.729 mg/L	13:22:20
2	Mn 294.920†	1135436.3	1109852.9	2.896 mg/L	2.896 mg/L	13:22:20
2	Mo 202.031†	543.4	494.6	-0.0157 mg/L	-0.0157 mg/L	13:22:31
2	Ni 231.604†	8894.2	8525.4	0.1917 mg/L	0.1917 mg/L	13:22:31
2	P 214.914†	12396.3	12129.5	7.641 mg/L	7.641 mg/L	13:22:31
2	Pb 220.353†	4835.5	4538.7	0.2899 mg/L	0.2899 mg/L	13:22:31
2	Sb 206.836†	119.3	68.7	-0.0370 mg/L	-0.0370 mg/L	13:22:31
2	Se 196.026†	-39.8	-49.8	-0.0794 mg/L	-0.0794 mg/L	13:22:31
2	Sn 189.927†	-108.8	-135.6	-0.0113 mg/L	-0.0113 mg/L	13:22:31
2	Ti 337.279†	3973929.7	3880346.9	4.534 mg/L	4.534 mg/L	13:22:20
2	Tl 190.801†	-10.1	-5.1	-0.1558 mg/L	-0.1558 mg/L	13:22:31
2	V 292.402†	61593.3	60481.5	0.2709 mg/L	0.2709 mg/L	13:22:20
2	Zn 213.857†	148867.4	144193.0	1.051 mg/L	1.051 mg/L	13:22:20

Y 371.029	2762199.3	1.02 mg/L	0.002			0.23%
Ag 328.068†	-1183.0	0.0016 mg/L	0.00083	0.0016 mg/L	0.00083	52.00%
Al 237.313†	1326191.7	146.8 mg/L	0.29	146.8 mg/L	0.29	0.20%
As 188.979†	58.8	0.0467 mg/L	0.00122	0.0467 mg/L	0.00122	2.61%
B 249.677†	-28.7	-0.0147 mg/L	0.00255	-0.0147 mg/L	0.00255	17.41%
B 182.528†	38.9	0.0416 mg/L	0.00023	0.0416 mg/L	0.00023	0.55%
Ba 233.527†	50188.7	0.4404 mg/L	0.00142	0.4404 mg/L	0.00142	0.32%
Be 313.107†	18146.8	0.0073 mg/L	0.00001	0.0073 mg/L	0.00001	0.10%
Ca 315.887†	1511676.2	16.51 mg/L	0.031	16.51 mg/L	0.031	0.19%
Cd 228.802†	172.1	0.0021 mg/L	0.00014	0.0021 mg/L	0.00014	6.60%
Co 228.616†	4925.2	0.0888 mg/L	0.00102	0.0888 mg/L	0.00102	1.15%
Cr 267.716†	21964.7	0.1949 mg/L	0.00061	0.1949 mg/L	0.00061	0.31%
Cu 324.752†	48341.5	0.2699 mg/L	0.00079	0.2699 mg/L	0.00079	0.29%
Fe 234.349†	378510.4	252.4 mg/L	1.28	252.4 mg/L	1.28	0.51%
K 766.490†	13579.6	7.575 mg/L	0.0359	7.575 mg/L	0.0359	0.47%
Li 670.784†	9657.4	0.2699 mg/L	0.00572	0.2699 mg/L	0.00572	2.12%
Mg 279.077†	452539.9	36.50 mg/L	0.079	36.50 mg/L	0.079	0.22%
Mn 257.610†	2168046.8	2.734 mg/L	0.0067	2.734 mg/L	0.0067	0.25%
Mn 294.920†	1112017.4	2.902 mg/L	0.0080	2.902 mg/L	0.0080	0.28%
Mo 202.031†	512.4	-0.0151 mg/L	0.00088	-0.0151 mg/L	0.00088	5.83%
Na 589.592†	2310.3	0.5336 mg/L	0.00274	0.5336 mg/L	0.00274	0.51%
Ni 231.604†	8534.1	0.1919 mg/L	0.00028	0.1919 mg/L	0.00028	0.14%
P 214.914†	12179.3	7.672 mg/L	0.0440	7.672 mg/L	0.0440	0.57%
Pb 220.353†	4546.9	0.2904 mg/L	0.00076	0.2904 mg/L	0.00076	0.26%
Sb 206.836†	64.0	-0.0395 mg/L	0.00348	-0.0395 mg/L	0.00348	8.81%
Se 196.026†	-55.6	-0.0835 mg/L	0.00587	-0.0835 mg/L	0.00587	7.03%
Sn 189.927†	-154.8	-0.0141 mg/L	0.00401	-0.0141 mg/L	0.00401	28.40%
Sr 407.771†	117970.3	0.1379 mg/L	0.00051	0.1379 mg/L	0.00051	0.37%
Ti 337.279†	3886168.6	4.541 mg/L	0.0096	4.541 mg/L	0.0096	0.21%
Tl 190.801†	-8.8	-0.1599 mg/L	0.00580	-0.1599 mg/L	0.00580	3.63%
V 292.402†	60617.2	0.2715 mg/L	0.00087	0.2715 mg/L	0.00087	0.32%
Zn 213.857†	144468.4	1.053 mg/L	0.0028	1.053 mg/L	0.0028	0.27%

Sequence No.: 11

Sample ID: CG30304-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 17

Date Collected: 7/5/2013 1:25:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30304-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-42.9	-35.8	-0.0186	mg/L	-0.0186	mg/L	13:27:22
1	Fe 234.349†	350218.2	344680.4	229.8	mg/L	229.8	mg/L	13:27:20
1	K 766.490†	15714.6	14648.5	8.158	mg/L	8.158	mg/L	13:27:22
1	Li 670.784†	8572.5	8672.8	0.2428	mg/L	0.2428	mg/L	13:27:22
1	Na 589.592†	2753.6	2230.4	0.5190	mg/L	0.5190	mg/L	13:27:22
1	Sr 407.771†	135259.4	133052.7	0.1555	mg/L	0.1555	mg/L	13:27:20
1	Y 371.029	2744377.8	2744377.8	1.02	mg/L			13:27:32
1	Ag 328.068†	778.3	-1099.2	0.0015	mg/L	0.0015	mg/L	13:27:32
1	Al 237.313†	1261900.7	1242401.8	137.5	mg/L	137.5	mg/L	13:27:32
1	As 188.979†	60.7	66.4	0.0523	mg/L	0.0523	mg/L	13:27:42
1	B 182.528†	25.0	34.2	0.0366	mg/L	0.0366	mg/L	13:27:42
1	Ba 233.527†	53968.4	53213.1	0.4667	mg/L	0.4667	mg/L	13:27:32
1	Be 313.107†	15982.0	17167.6	0.0069	mg/L	0.0069	mg/L	13:27:32
1	Ca 315.887†	1732084.1	1706604.7	18.64	mg/L	18.64	mg/L	13:27:32
1	Cd 228.802†	284.3	120.8	0.0009	mg/L	0.0009	mg/L	13:27:42
1	Co 228.616†	4379.8	4552.4	0.0813	mg/L	0.0813	mg/L	13:27:42
1	Cr 267.716†	19242.5	18372.3	0.1635	mg/L	0.1635	mg/L	13:27:32
1	Cu 324.752†	51700.7	46081.3	0.2577	mg/L	0.2577	mg/L	13:27:32
1	Mg 279.077†	419716.5	413084.5	33.32	mg/L	33.32	mg/L	13:27:32
1	Mn 257.610†	2182724.5	2132179.9	2.693	mg/L	2.693	mg/L	13:27:32
1	Mn 294.920†	1104174.7	1088068.6	2.839	mg/L	2.839	mg/L	13:27:32
1	Mo 202.031†	293.1	252.6	-0.0226	mg/L	-0.0226	mg/L	13:27:42
1	Ni 231.604†	7904.5	7621.6	0.1715	mg/L	0.1715	mg/L	13:27:42
1	P 214.914†	12321.2	12153.7	7.656	mg/L	7.656	mg/L	13:27:42
1	Pb 220.353†	4796.5	4538.6	0.2917	mg/L	0.2917	mg/L	13:27:42
1	Sb 206.836†	108.9	59.4	-0.0350	mg/L	-0.0350	mg/L	13:27:42
1	Se 196.026†	-43.4	-53.7	-0.0777	mg/L	-0.0777	mg/L	13:27:42
1	Sn 189.927†	-127.1	-154.4	-0.0127	mg/L	-0.0127	mg/L	13:27:42
1	Ti 337.279†	3962151.8	3900196.9	4.557	mg/L	4.557	mg/L	13:27:32

1	Tl 190.801†	-14.3	-9.2	-0.1466 mg/L	-0.1466 mg/L	13:27:42
1	V 292.402†	53763.0	53262.2	0.2379 mg/L	0.2379 mg/L	13:27:32
1	Zn 213.857†	122078.0	119004.6	0.8665 mg/L	0.8665 mg/L	13:27:32
2	B 249.677†	-8.0	-1.4	0.0005 mg/L	0.0005 mg/L	13:27:26
2	Fe 234.349†	342961.6	337807.2	225.2 mg/L	225.2 mg/L	13:27:24
2	K 766.490†	15929.0	14872.0	8.279 mg/L	8.279 mg/L	13:27:26
2	Li 670.784†	8537.1	8644.6	0.2421 mg/L	0.2421 mg/L	13:27:26
2	Na 589.592†	2786.0	2264.4	0.5252 mg/L	0.5252 mg/L	13:27:26
2	Sr 407.771†	132369.3	130311.9	0.1523 mg/L	0.1523 mg/L	13:27:24
2	Y 371.029	2742194.1	2742194.1	1.02 mg/L		13:27:46
2	Ag 328.068†	730.3	-1145.8	0.0011 mg/L	0.0011 mg/L	13:27:46
2	Al 237.313†	1260380.4	1241893.4	137.4 mg/L	137.4 mg/L	13:27:46
2	As 188.979†	58.4	64.2	0.0507 mg/L	0.0507 mg/L	13:27:56
2	B 182.528†	20.5	29.8	0.0319 mg/L	0.0319 mg/L	13:27:56
2	Ba 233.527†	53965.7	53252.7	0.4671 mg/L	0.4671 mg/L	13:27:46
2	Be 313.107†	15884.4	17084.0	0.0068 mg/L	0.0068 mg/L	13:27:46
2	Ca 315.887†	1730527.7	1706429.1	18.63 mg/L	18.63 mg/L	13:27:46
2	Cd 228.802†	284.3	121.0	0.0010 mg/L	0.0010 mg/L	13:27:56
2	Co 228.616†	4253.1	4431.0	0.0789 mg/L	0.0789 mg/L	13:27:56
2	Cr 267.716†	19167.6	18313.6	0.1630 mg/L	0.1630 mg/L	13:27:46
2	Cu 324.752†	51464.8	45889.5	0.2567 mg/L	0.2567 mg/L	13:27:46
2	Mg 279.077†	419056.1	412762.8	33.29 mg/L	33.29 mg/L	13:27:46
2	Mn 257.610†	2180808.1	2132003.0	2.694 mg/L	2.694 mg/L	13:27:46
2	Mn 294.920†	1103281.2	1088054.0	2.839 mg/L	2.839 mg/L	13:27:46
2	Mo 202.031†	304.4	263.9	-0.0215 mg/L	-0.0215 mg/L	13:27:56
2	Ni 231.604†	7817.1	7541.8	0.1698 mg/L	0.1698 mg/L	13:27:56
2	P 214.914†	12172.0	12016.3	7.570 mg/L	7.570 mg/L	13:27:56
2	Pb 220.353†	4757.4	4503.9	0.2893 mg/L	0.2893 mg/L	13:27:56
2	Sb 206.836†	109.0	59.5	-0.0336 mg/L	-0.0336 mg/L	13:27:56
2	Se 196.026†	-42.8	-53.1	-0.0764 mg/L	-0.0764 mg/L	13:27:56
2	Sn 189.927†	-114.6	-142.2	-0.0109 mg/L	-0.0109 mg/L	13:27:56
2	Ti 337.279†	3956555.8	3897790.2	4.554 mg/L	4.554 mg/L	13:27:46
2	Tl 190.801†	-7.1	-2.2	-0.1370 mg/L	-0.1370 mg/L	13:27:56
2	V 292.402†	53736.5	53278.2	0.2380 mg/L	0.2380 mg/L	13:27:46
2	Zn 213.857†	121960.3	118984.3	0.8666 mg/L	0.8666 mg/L	13:27:46

Mean Data: CG30304-DUP1

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2743286.0	1.02	mg/L	0.001				0.06%
Ag 328.068†	-1122.5	0.0013	mg/L	0.00026	0.0013	mg/L	0.00026	20.40%
Al 237.313†	1242147.6	137.5	mg/L	0.04	137.5	mg/L	0.04	0.03%
As 188.979†	65.3	0.0515	mg/L	0.00115	0.0515	mg/L	0.00115	2.24%
B 249.677†	-18.6	-0.0090	mg/L	0.01354	-0.0090	mg/L	0.01354	149.77%
B 182.528†	32.0	0.0342	mg/L	0.00336	0.0342	mg/L	0.00336	9.80%
Ba 233.527†	53232.9	0.4669	mg/L	0.00024	0.4669	mg/L	0.00024	0.05%
Be 313.107†	17125.8	0.0068	mg/L	0.00003	0.0068	mg/L	0.00003	0.37%
Ca 315.887†	1706516.9	18.64	mg/L	0.001	18.64	mg/L	0.001	0.01%
Cd 228.802†	120.9	0.0009	mg/L	0.00006	0.0009	mg/L	0.00006	6.40%
Co 228.616†	4491.7	0.0801	mg/L	0.00171	0.0801	mg/L	0.00171	2.14%
Cr 267.716†	18343.0	0.1633	mg/L	0.00036	0.1633	mg/L	0.00036	0.22%
Cu 324.752†	45985.4	0.2572	mg/L	0.00073	0.2572	mg/L	0.00073	0.28%
Fe 234.349†	341243.8	227.5	mg/L	3.24	227.5	mg/L	3.24	1.42%
K 766.490†	14760.3	8.218	mg/L	0.0861	8.218	mg/L	0.0861	1.05%
Li 670.784†	8658.7	0.2424	mg/L	0.00055	0.2424	mg/L	0.00055	0.23%
Mg 279.077†	412923.7	33.30	mg/L	0.018	33.30	mg/L	0.018	0.06%
Mn 257.610†	2132091.5	2.693	mg/L	0.0006	2.693	mg/L	0.0006	0.02%
Mn 294.920†	1088061.3	2.839	mg/L	0.0000	2.839	mg/L	0.0000	0.00%
Mo 202.031†	258.2	-0.0221	mg/L	0.00083	-0.0221	mg/L	0.00083	3.76%
Na 589.592†	2247.4	0.5221	mg/L	0.00438	0.5221	mg/L	0.00438	0.84%
Ni 231.604†	7581.7	0.1706	mg/L	0.00126	0.1706	mg/L	0.00126	0.74%
P 214.914†	12085.0	7.613	mg/L	0.0608	7.613	mg/L	0.0608	0.80%
Pb 220.353†	4521.2	0.2905	mg/L	0.00172	0.2905	mg/L	0.00172	0.59%
Sb 206.836†	59.5	-0.0343	mg/L	0.00098	-0.0343	mg/L	0.00098	2.84%
Se 196.026†	-53.4	-0.0770	mg/L	0.00094	-0.0770	mg/L	0.00094	1.22%
Sn 189.927†	-148.3	-0.0118	mg/L	0.00127	-0.0118	mg/L	0.00127	10.73%
Sr 407.771†	131682.3	0.1539	mg/L	0.00226	0.1539	mg/L	0.00226	1.47%
Ti 337.279†	3898993.6	4.556	mg/L	0.0020	4.556	mg/L	0.0020	0.04%
Tl 190.801†	-5.7	-0.1418	mg/L	0.00680	-0.1418	mg/L	0.00680	4.80%
V 292.402†	53270.2	0.2379	mg/L	0.00006	0.2379	mg/L	0.00006	0.02%
Zn 213.857†	118994.5	0.8665	mg/L	0.00005	0.8665	mg/L	0.00005	0.01%

Sequence No.: 12
 Sample ID: CG30304-MS1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 18
 Date Collected: 7/5/2013 1:31:05 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CG30304-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	618.3	619.1	0.3463 mg/L	0.3463 mg/L	13:32:48
1	Fe 234.349†	355186.2	351913.9	234.6 mg/L	234.6 mg/L	13:32:46
1	K 766.490†	59131.1	57769.6	31.66 mg/L	31.66 mg/L	13:32:48
1	Li 670.784†	24435.1	24446.0	0.6764 mg/L	0.6764 mg/L	13:32:48
1	Na 589.592†	113416.8	111894.4	20.47 mg/L	20.47 mg/L	13:32:46
1	Sr 407.771†	149461.9	148017.2	0.1730 mg/L	0.1730 mg/L	13:32:46
1	Y 371.029	2726098.7	2726098.7	1.01 mg/L		13:32:59
1	Ag 328.068†	34445.1	32263.3	0.1866 mg/L	0.1866 mg/L	13:32:59
1	Al 237.313†	1289562.4	1278136.9	141.5 mg/L	141.5 mg/L	13:32:59
1	As 188.979†	533.0	534.7	0.3925 mg/L	0.3925 mg/L	13:33:09
1	B 182.528†	347.1	353.5	0.3793 mg/L	0.3793 mg/L	13:33:09
1	Ba 233.527†	106117.9	105239.3	0.9200 mg/L	0.9200 mg/L	13:32:59
1	Be 313.107†	101868.0	102369.4	0.0443 mg/L	0.0443 mg/L	13:32:59
1	Ca 315.887†	1875329.0	1859963.2	20.31 mg/L	20.31 mg/L	13:32:59
1	Cd 228.802†	6277.0	6060.3	0.1863 mg/L	0.1863 mg/L	13:33:09
1	Co 228.616†	22953.9	22984.7	0.4498 mg/L	0.4498 mg/L	13:33:09
1	Cr 267.716†	68048.0	66856.2	0.5864 mg/L	0.5864 mg/L	13:32:59
1	Cu 324.752†	124219.0	118274.0	0.6461 mg/L	0.6461 mg/L	13:32:59
1	Mg 279.077†	529806.0	524931.6	42.33 mg/L	42.33 mg/L	13:32:59
1	Mn 257.610†	2358984.3	2321223.8	2.935 mg/L	2.935 mg/L	13:32:59
1	Mn 294.920†	1194521.5	1184871.6	3.092 mg/L	3.092 mg/L	13:32:59
1	Mo 202.031†	8929.4	8811.3	0.3381 mg/L	0.3381 mg/L	13:33:09
1	Ni 231.604†	24356.2	23974.2	0.5366 mg/L	0.5366 mg/L	13:32:59
1	P 214.914†	16182.6	16060.9	10.10 mg/L	10.10 mg/L	13:33:09
1	Pb 220.353†	9502.9	9233.4	0.6230 mg/L	0.6230 mg/L	13:33:09
1	Sb 206.836†	546.5	493.6	0.1666 mg/L	0.1666 mg/L	13:33:09
1	Se 196.026†	1007.3	987.2	0.6347 mg/L	0.6347 mg/L	13:33:09
1	Sn 189.927†	2452.6	2400.7	0.3665 mg/L	0.3665 mg/L	13:33:09
1	Ti 337.279†	4138127.0	4100701.8	4.791 mg/L	4.791 mg/L	13:32:59
1	Tl 190.801†	370.3	371.7	0.2188 mg/L	0.2188 mg/L	13:33:09
1	V 292.402†	148565.5	147547.9	0.6728 mg/L	0.6728 mg/L	13:32:59
1	Zn 213.857†	162490.0	159850.7	1.164 mg/L	1.164 mg/L	13:32:59
2	B 249.677†	640.4	647.9	0.3624 mg/L	0.3624 mg/L	13:32:53
2	Fe 234.349†	352973.1	353523.8	235.7 mg/L	235.7 mg/L	13:32:51
2	K 766.490†	59274.8	58550.5	32.08 mg/L	32.08 mg/L	13:32:53
2	Li 670.784†	24420.5	24694.6	0.6832 mg/L	0.6832 mg/L	13:32:53
2	Na 589.592†	112770.6	112468.9	20.58 mg/L	20.58 mg/L	13:32:51
2	Sr 407.771†	148468.3	148632.2	0.1737 mg/L	0.1737 mg/L	13:32:51
2	Y 371.029	2696776.7	2696776.7	0.998 mg/L		13:33:13
2	Ag 328.068†	33959.9	32148.4	0.1860 mg/L	0.1860 mg/L	13:33:13
2	Al 237.313†	1271920.8	1274359.8	141.0 mg/L	141.0 mg/L	13:33:13
2	As 188.979†	535.0	542.4	0.3981 mg/L	0.3981 mg/L	13:33:23
2	B 182.528†	350.3	360.4	0.3867 mg/L	0.3867 mg/L	13:33:23
2	Ba 233.527†	104774.9	105037.4	0.9182 mg/L	0.9182 mg/L	13:33:13
2	Be 313.107†	100598.0	102194.9	0.0442 mg/L	0.0442 mg/L	13:33:13
2	Ca 315.887†	1844762.6	1849551.5	20.20 mg/L	20.20 mg/L	13:33:13
2	Cd 228.802†	6306.3	6157.2	0.1893 mg/L	0.1893 mg/L	13:33:23
2	Co 228.616†	23055.3	23333.5	0.4568 mg/L	0.4568 mg/L	13:33:23
2	Cr 267.716†	67056.9	66596.5	0.5842 mg/L	0.5842 mg/L	13:33:13
2	Cu 324.752†	122772.8	118163.8	0.6455 mg/L	0.6455 mg/L	13:33:13
2	Mg 279.077†	521741.1	522561.6	42.14 mg/L	42.14 mg/L	13:33:13
2	Mn 257.610†	2328941.4	2316546.8	2.929 mg/L	2.929 mg/L	13:33:13
2	Mn 294.920†	1178145.8	1181338.7	3.082 mg/L	3.082 mg/L	13:33:13
2	Mo 202.031†	9000.3	8978.6	0.3451 mg/L	0.3451 mg/L	13:33:23
2	Ni 231.604†	24116.3	23996.4	0.5371 mg/L	0.5371 mg/L	13:33:13
2	P 214.914†	16216.3	16269.0	10.23 mg/L	10.23 mg/L	13:33:23
2	Pb 220.353†	9529.7	9362.7	0.6323 mg/L	0.6323 mg/L	13:33:23
2	Sb 206.836†	555.7	508.7	0.1734 mg/L	0.1734 mg/L	13:33:23
2	Se 196.026†	1003.5	994.2	0.6393 mg/L	0.6393 mg/L	13:33:23
2	Sn 189.927†	2445.2	2419.8	0.3692 mg/L	0.3692 mg/L	13:33:23
2	Ti 337.279†	4083368.9	4090437.3	4.779 mg/L	4.779 mg/L	13:33:13
2	Tl 190.801†	367.2	372.6	0.2191 mg/L	0.2191 mg/L	13:33:23

2	V 292.402†	146843.6	147423.8	0.6724 mg/L	0.6724 mg/L	13:33:13
2	Zn 213.857†	160740.7	159849.1	1.164 mg/L	1.164 mg/L	13:33:13

Mean Data: CG30304-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2711437.7	1.00	mg/L	0.008			0.76%
Ag 328.068†	32205.8	0.1863	mg/L	0.00043	0.1863 mg/L	0.00043	0.23%
Al 237.313†	1276248.4	141.3	mg/L	0.30	141.3 mg/L	0.30	0.21%
As 188.979†	538.6	0.3953	mg/L	0.00397	0.3953 mg/L	0.00397	1.00%
B 249.677†	633.5	0.3544	mg/L	0.01134	0.3544 mg/L	0.01134	3.20%
B 182.528†	356.9	0.3830	mg/L	0.00528	0.3830 mg/L	0.00528	1.38%
Ba 233.527†	105138.4	0.9191	mg/L	0.00124	0.9191 mg/L	0.00124	0.14%
Be 313.107†	102282.2	0.0443	mg/L	0.00005	0.0443 mg/L	0.00005	0.12%
Ca 315.887†	1854757.3	20.25	mg/L	0.080	20.25 mg/L	0.080	0.40%
Cd 228.802†	6108.8	0.1878	mg/L	0.00213	0.1878 mg/L	0.00213	1.13%
Co 228.616†	23159.1	0.4533	mg/L	0.00496	0.4533 mg/L	0.00496	1.09%
Cr 267.716†	66726.4	0.5853	mg/L	0.00160	0.5853 mg/L	0.00160	0.27%
Cu 324.752†	118218.9	0.6458	mg/L	0.00043	0.6458 mg/L	0.00043	0.07%
Fe 234.349†	352718.8	235.2	mg/L	0.76	235.2 mg/L	0.76	0.32%
K 766.490†	58160.1	31.87	mg/L	0.301	31.87 mg/L	0.301	0.94%
Li 670.784†	24570.3	0.6798	mg/L	0.00483	0.6798 mg/L	0.00483	0.71%
Mg 279.077†	523746.6	42.24	mg/L	0.135	42.24 mg/L	0.135	0.32%
Mn 257.610†	2318885.3	2.932	mg/L	0.0044	2.932 mg/L	0.0044	0.15%
Mn 294.920†	1183105.2	3.087	mg/L	0.0065	3.087 mg/L	0.0065	0.21%
Mo 202.031†	8895.0	0.3416	mg/L	0.00491	0.3416 mg/L	0.00491	1.44%
Na 589.592†	112181.7	20.52	mg/L	0.074	20.52 mg/L	0.074	0.36%
Ni 231.604†	23985.3	0.5369	mg/L	0.00036	0.5369 mg/L	0.00036	0.07%
P 214.914†	16165.0	10.16	mg/L	0.092	10.16 mg/L	0.092	0.91%
Pb 220.353†	9298.0	0.6276	mg/L	0.00652	0.6276 mg/L	0.00652	1.04%
Sb 206.836†	501.2	0.1700	mg/L	0.00484	0.1700 mg/L	0.00484	2.85%
Se 196.026†	990.7	0.6370	mg/L	0.00324	0.6370 mg/L	0.00324	0.51%
Sn 189.927†	2410.3	0.3679	mg/L	0.00194	0.3679 mg/L	0.00194	0.53%
Sr 407.771†	148324.7	0.1733	mg/L	0.00051	0.1733 mg/L	0.00051	0.29%
Ti 337.279†	4095569.6	4.785	mg/L	0.0085	4.785 mg/L	0.0085	0.18%
Tl 190.801†	372.1	0.2190	mg/L	0.00016	0.2190 mg/L	0.00016	0.07%
V 292.402†	147485.8	0.6726	mg/L	0.00032	0.6726 mg/L	0.00032	0.05%
Zn 213.857†	159849.9	1.164	mg/L	0.0000	1.164 mg/L	0.0000	0.00%

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Sequence No.: 13

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 1:36:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	782.3	846.2	0.4729	mg/L	0.4729 mg/L	13:38:23
1	Fe 234.349†	3357.3	3597.2	2.395	mg/L	2.395 mg/L	13:38:23
1	K 766.490†	42451.5	44752.5	24.56	mg/L	24.56 mg/L	13:38:13
1	Li 670.784†	16311.7	17745.7	0.4922	mg/L	0.4922 mg/L	13:38:13
1	Na 589.592†	125886.7	134655.8	24.61	mg/L	24.61 mg/L	13:38:13
1	Sr 407.771†	38718.6	41492.6	0.0487	mg/L	0.0487 mg/L	13:38:13
1	Y 371.029	2516174.6	2516174.6	0.932	mg/L		13:38:40
1	Ag 328.068†	41873.5	43084.7	0.2407	mg/L	0.2407 mg/L	13:38:42
1	Al 237.313†	19229.6	21072.8	2.347	mg/L	2.347 mg/L	13:38:42
1	As 188.979†	600.4	651.2	0.4776	mg/L	0.4776 mg/L	13:38:52
1	B 182.528†	411.0	450.7	0.4837	mg/L	0.4837 mg/L	13:38:52
1	Ba 233.527†	49944.4	53710.8	0.4711	mg/L	0.4711 mg/L	13:38:42
1	Be 313.107†	98477.0	107150.0	0.0474	mg/L	0.0474 mg/L	13:38:42
1	Ca 315.887†	391137.0	421749.0	4.634	mg/L	4.634 mg/L	13:38:40
1	Cd 228.802†	7269.2	7644.2	0.2397	mg/L	0.2397 mg/L	13:38:52
1	Co 228.616†	21538.2	23362.4	0.4667	mg/L	0.4667 mg/L	13:38:42
1	Cr 267.716†	50326.9	53458.1	0.4697	mg/L	0.4697 mg/L	13:38:42
1	Cu 324.752†	85460.6	86936.5	0.4723	mg/L	0.4723 mg/L	13:38:42
1	Mg 279.077†	53299.2	57211.6	4.636	mg/L	4.636 mg/L	13:38:42
1	Mn 257.610†	356942.2	367093.9	0.4734	mg/L	0.4734 mg/L	13:38:42
1	Mn 294.920†	167019.0	180622.0	0.4726	mg/L	0.4726 mg/L	13:38:42
1	Mo 202.031†	10333.3	11056.5	0.4693	mg/L	0.4693 mg/L	13:38:52

1	Ni 231.604†	19556.0	20834.8	0.4668 mg/L	0.4668 mg/L	13:38:42
1	P 214.914†	6771.2	7295.7	4.608 mg/L	4.608 mg/L	13:38:52
1	Pb 220.353†	6393.7	6681.3	0.4719 mg/L	0.4719 mg/L	13:38:52
1	Sb 206.836†	980.7	1004.9	0.4740 mg/L	0.4740 mg/L	13:38:52
1	Se 196.026†	1283.8	1367.2	0.9416 mg/L	0.9416 mg/L	13:38:52
1	Sn 189.927†	3011.5	3203.4	0.4756 mg/L	0.4756 mg/L	13:38:52
1	Ti 337.279†	373377.4	401428.9	0.4734 mg/L	0.4734 mg/L	13:38:42
1	Tl 190.801†	442.0	479.3	0.4636 mg/L	0.4636 mg/L	13:38:52
1	V 292.402†	95854.8	103245.4	0.4813 mg/L	0.4813 mg/L	13:38:42
1	Zn 213.857†	60380.5	63671.2	0.4672 mg/L	0.4672 mg/L	13:38:42
2	B 249.677†	798.1	928.7	0.5189 mg/L	0.5189 mg/L	13:38:36
2	Fe 234.349†	3387.7	3907.8	2.601 mg/L	2.601 mg/L	13:38:36
2	K 766.490†	42049.2	47770.9	26.21 mg/L	26.21 mg/L	13:38:26
2	Li 670.784†	16011.2	18736.9	0.5195 mg/L	0.5195 mg/L	13:38:26
2	Na 589.592†	124557.9	143449.4	26.21 mg/L	26.21 mg/L	13:38:26
2	Sr 407.771†	38172.2	44038.1	0.0517 mg/L	0.0517 mg/L	13:38:26
2	Y 371.029	2337506.3	2337506.3	0.865 mg/L		13:38:55
2	Ag 328.068†	42412.9	47143.8	0.2632 mg/L	0.2632 mg/L	13:38:57
2	Al 237.313†	19293.1	22724.0	2.530 mg/L	2.530 mg/L	13:38:57
2	As 188.979†	598.8	698.5	0.5121 mg/L	0.5121 mg/L	13:39:07
2	B 182.528†	404.2	476.6	0.5115 mg/L	0.5115 mg/L	13:39:07
2	Ba 233.527†	50479.9	58427.5	0.5122 mg/L	0.5122 mg/L	13:38:57
2	Be 313.107†	99634.6	116567.8	0.0516 mg/L	0.0516 mg/L	13:38:57
2	Ca 315.887†	392150.4	455013.2	4.996 mg/L	4.996 mg/L	13:38:55
2	Cd 228.802†	7364.9	8351.3	0.2618 mg/L	0.2618 mg/L	13:39:07
2	Co 228.616†	21725.0	25345.5	0.5063 mg/L	0.5063 mg/L	13:38:57
2	Cr 267.716†	50896.9	58246.2	0.5115 mg/L	0.5115 mg/L	13:38:57
2	Cu 324.752†	86284.0	94900.0	0.5152 mg/L	0.5152 mg/L	13:38:57
2	Mg 279.077†	53734.0	62087.3	5.029 mg/L	5.029 mg/L	13:38:57
2	Mn 257.610†	361114.4	401202.4	0.5173 mg/L	0.5173 mg/L	13:38:57
2	Mn 294.920†	169038.8	196660.0	0.5144 mg/L	0.5144 mg/L	13:38:57
2	Mo 202.031†	10494.1	12090.2	0.5129 mg/L	0.5129 mg/L	13:39:07
2	Ni 231.604†	19740.3	22652.2	0.5074 mg/L	0.5074 mg/L	13:38:57
2	P 214.914†	6871.0	7966.6	5.028 mg/L	5.028 mg/L	13:39:07
2	Pb 220.353†	6444.8	7265.0	0.5131 mg/L	0.5131 mg/L	13:39:07
2	Sb 206.836†	974.8	1078.6	0.5084 mg/L	0.5084 mg/L	13:39:07
2	Se 196.026†	1308.6	1501.2	1.033 mg/L	1.033 mg/L	13:39:07
2	Sn 189.927†	3040.2	3483.7	0.5173 mg/L	0.5173 mg/L	13:39:07
2	Ti 337.279†	377364.8	436672.5	0.5146 mg/L	0.5146 mg/L	13:38:57
2	Tl 190.801†	439.7	512.8	0.4959 mg/L	0.4959 mg/L	13:39:07
2	V 292.402†	96683.7	112068.2	0.5221 mg/L	0.5221 mg/L	13:38:57
2	Zn 213.857†	60705.3	69000.8	0.5061 mg/L	0.5061 mg/L	13:38:57

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2426840.4	0.898 mg/L	0.0468			5.21%
Ag 328.068†	45114.3	0.2519 mg/L	0.01591	0.2519 mg/L	0.01591	6.32%
QC value within limits for Ag 328.068 Recovery = 100.78%						
Al 237.313†	21898.4	2.439 mg/L	0.1293	2.439 mg/L	0.1293	5.30%
QC value within limits for Al 237.313 Recovery = 97.55%						
As 188.979†	674.9	0.4948 mg/L	0.02434	0.4948 mg/L	0.02434	4.92%
QC value within limits for As 188.979 Recovery = 98.97%						
B 249.677†	887.5	0.4959 mg/L	0.03250	0.4959 mg/L	0.03250	6.55%
QC value within limits for B 249.677 Recovery = 99.18%						
B 182.528†	463.7	0.4976 mg/L	0.01964	0.4976 mg/L	0.01964	3.95%
QC value within limits for B 182.528 Recovery = 99.52%						
Ba 233.527†	56069.2	0.4916 mg/L	0.02906	0.4916 mg/L	0.02906	5.91%
QC value within limits for Ba 233.527 Recovery = 98.32%						
Be 313.107†	111858.9	0.0495 mg/L	0.00292	0.0495 mg/L	0.00292	5.91%
QC value within limits for Be 313.107 Recovery = 99.02%						
Ca 315.887†	438381.1	4.815 mg/L	0.2564	4.815 mg/L	0.2564	5.33%
QC value within limits for Ca 315.887 Recovery = 96.30%						
Cd 228.802†	7997.7	0.2507 mg/L	0.01561	0.2507 mg/L	0.01561	6.23%
QC value within limits for Cd 228.802 Recovery = 100.29%						
Co 228.616†	24353.9	0.4865 mg/L	0.02801	0.4865 mg/L	0.02801	5.76%
QC value within limits for Co 228.616 Recovery = 97.30%						
Cr 267.716†	55852.1	0.4906 mg/L	0.02954	0.4906 mg/L	0.02954	6.02%
QC value within limits for Cr 267.716 Recovery = 98.12%						
Cu 324.752†	90918.2	0.4938 mg/L	0.03031	0.4938 mg/L	0.03031	6.14%
QC value within limits for Cu 324.752 Recovery = 98.75%						
Fe 234.349†	3752.5	2.498 mg/L	0.1456	2.498 mg/L	0.1456	5.83%

QC value within limits for Fe 234.349	Recovery = 99.92%
K 766.490†	46261.7 25.39 mg/L 1.163 25.39 mg/L 1.163 4.58%
QC value within limits for K 766.490	Recovery = 101.55%
Li 670.784†	18241.3 0.5058 mg/L 0.01926 0.5058 mg/L 0.01926 3.81%
QC value within limits for Li 670.784	Recovery = 101.17%
Mg 279.077†	59649.4 4.833 mg/L 0.2779 4.833 mg/L 0.2779 5.75%
QC value within limits for Mg 279.077	Recovery = 96.66%
Mn 257.610†	384148.1 0.4953 mg/L 0.03100 0.4953 mg/L 0.03100 6.26%
QC value within limits for Mn 257.610	Recovery = 99.07%
Mn 294.920†	188641.0 0.4935 mg/L 0.02957 0.4935 mg/L 0.02957 5.99%
QC value within limits for Mn 294.920	Recovery = 98.69%
Mo 202.031†	11573.3 0.4911 mg/L 0.03086 0.4911 mg/L 0.03086 6.28%
QC value within limits for Mo 202.031	Recovery = 98.22%
Na 589.592†	139052.6 25.41 mg/L 1.131 25.41 mg/L 1.131 4.45%
QC value within limits for Na 589.592	Recovery = 101.65%
Ni 231.604†	21743.5 0.4871 mg/L 0.02870 0.4871 mg/L 0.02870 5.89%
QC value within limits for Ni 231.604	Recovery = 97.41%
P 214.914†	7631.2 4.818 mg/L 0.2966 4.818 mg/L 0.2966 6.16%
QC value within limits for P 214.914	Recovery = 96.36%
Pb 220.353†	6973.1 0.4925 mg/L 0.02917 0.4925 mg/L 0.02917 5.92%
QC value within limits for Pb 220.353	Recovery = 98.50%
Sb 206.836†	1041.7 0.4912 mg/L 0.02435 0.4912 mg/L 0.02435 4.96%
QC value within limits for Sb 206.836	Recovery = 98.24%
Se 196.026†	1434.2 0.9875 mg/L 0.06489 0.9875 mg/L 0.06489 6.57%
QC value within limits for Se 196.026	Recovery = 98.75%
Sn 189.927†	3343.6 0.4965 mg/L 0.02950 0.4965 mg/L 0.02950 5.94%
QC value within limits for Sn 189.927	Recovery = 99.29%
Sr 407.771†	42765.4 0.0502 mg/L 0.00210 0.0502 mg/L 0.00210 4.18%
QC value within limits for Sr 407.771	Recovery = 100.46%
Ti 337.279†	419050.7 0.4940 mg/L 0.02909 0.4940 mg/L 0.02909 5.89%
QC value within limits for Ti 337.279	Recovery = 98.80%
Tl 190.801†	496.1 0.4798 mg/L 0.02286 0.4798 mg/L 0.02286 4.77%
QC value within limits for Tl 190.801	Recovery = 95.96%
V 292.402†	107656.8 0.5017 mg/L 0.02885 0.5017 mg/L 0.02885 5.75%
QC value within limits for V 292.402	Recovery = 100.35%
Zn 213.857†	66336.0 0.4867 mg/L 0.02749 0.4867 mg/L 0.02749 5.65%
QC value within limits for Zn 213.857	Recovery = 97.33%
All analyte(s) passed QC.	

Sequence No.: 14
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 1:40:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-7.1	-1.1	0.0007 mg/L	0.0007 mg/L	0.0007 mg/L	13:42:37
1	Fe 234.349†	11.9	5.9	0.0145 mg/L	0.0145 mg/L	0.0145 mg/L	13:42:37
1	K 766.490†	763.5	-6.5	0.1708 mg/L	0.1708 mg/L	0.1708 mg/L	13:42:27
1	Li 670.784†	-247.3	-27.2	0.0037 mg/L	0.0037 mg/L	0.0037 mg/L	13:42:27
1	Na 589.592†	115.2	-357.3	0.0482 mg/L	0.0482 mg/L	0.0482 mg/L	13:42:27
1	Sr 407.771†	116.7	53.4	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	13:42:27
1	Y 371.029	2541564.2	2541564.2	0.941 mg/L	0.941 mg/L	0.941 mg/L	13:42:53
1	Ag 328.068†	1718.4	-39.0	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	13:42:56
1	Al 237.313†	-378.0	28.8	0.0165 mg/L	0.0165 mg/L	0.0165 mg/L	13:42:56
1	As 188.979†	-7.7	-1.5	0.0033 mg/L	0.0033 mg/L	0.0033 mg/L	13:43:06
1	B 182.528†	-8.1	0.9	0.0009 mg/L	0.0009 mg/L	0.0009 mg/L	13:43:06
1	Ba 233.527†	-84.2	7.5	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	13:43:06
1	Be 313.107†	-1312.9	42.8	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	13:42:56
1	Ca 315.887†	-1906.9	-151.0	0.0343 mg/L	0.0343 mg/L	0.0343 mg/L	13:42:56
1	Cd 228.802†	148.6	-1.1	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	13:43:06
1	Co 228.616†	-214.9	13.4	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	13:43:06
1	Cr 267.716†	544.7	12.6	0.0035 mg/L	0.0035 mg/L	0.0035 mg/L	13:42:56
1	Cu 324.752†	4068.5	-479.1	0.0018 mg/L	0.0018 mg/L	0.0018 mg/L	13:42:56
1	Mg 279.077†	32.6	31.2	0.0277 mg/L	0.0277 mg/L	0.0277 mg/L	13:42:56
1	Mn 257.610†	15044.9	-83.6	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	13:42:56
1	Mn 294.920†	-1214.4	41.7	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	13:42:56
1	Mo 202.031†	76.0	44.8	0.0044 mg/L	0.0044 mg/L	0.0044 mg/L	13:43:06
1	Ni 231.604†	164.5	16.7	0.0020 mg/L	0.0020 mg/L	0.0020 mg/L	13:42:56

1	P 214.914†	-33.9	-9.0	0.0413 mg/L	0.0413 mg/L	13:43:06
1	Pb 220.353†	149.1	-23.7	-0.0018 mg/L	-0.0018 mg/L	13:43:06
1	Sb 206.836†	53.3	8.8	0.0084 mg/L	0.0084 mg/L	13:43:06
1	Se 196.026†	15.1	5.2	0.0086 mg/L	0.0086 mg/L	13:43:06
1	Sn 189.927†	21.4	-6.6	-0.0024 mg/L	-0.0024 mg/L	13:43:06
1	Ti 337.279†	-566.0	18.3	0.0049 mg/L	0.0049 mg/L	13:42:56
1	Tl 190.801†	-9.4	-5.2	-0.0039 mg/L	-0.0039 mg/L	13:43:06
1	V 292.402†	-165.5	172.4	0.0054 mg/L	0.0054 mg/L	13:42:56
1	Zn 213.857†	1042.8	-37.1	0.0024 mg/L	0.0024 mg/L	13:43:06
2	B 249.677†	-0.5	5.9	0.0046 mg/L	0.0046 mg/L	13:42:50
2	Fe 234.349†	17.7	11.6	0.0183 mg/L	0.0183 mg/L	13:42:50
2	K 766.490†	825.7	43.1	0.1978 mg/L	0.1978 mg/L	13:42:40
2	Li 670.784†	-363.2	-143.1	0.0005 mg/L	0.0005 mg/L	13:42:40
2	Na 589.592†	42.0	-435.9	0.0339 mg/L	0.0339 mg/L	13:42:40
2	Sr 407.771†	28.7	-40.6	0.0003 mg/L	0.0003 mg/L	13:42:40
2	Y 371.029	2590341.2	2590341.2	0.959 mg/L		13:43:08
2	Ag 328.068†	1735.8	-55.2	0.0015 mg/L	0.0015 mg/L	13:43:10
2	Al 237.313†	-269.3	149.7	0.0299 mg/L	0.0299 mg/L	13:43:10
2	As 188.979†	-2.0	4.6	0.0077 mg/L	0.0077 mg/L	13:43:21
2	B 182.528†	-8.3	0.9	0.0008 mg/L	0.0008 mg/L	13:43:21
2	Ba 233.527†	-88.9	4.3	0.0032 mg/L	0.0032 mg/L	13:43:21
2	Be 313.107†	-1312.2	69.7	0.0004 mg/L	0.0004 mg/L	13:43:10
2	Ca 315.887†	-1965.0	-173.5	0.0340 mg/L	0.0340 mg/L	13:43:10
2	Cd 228.802†	154.7	2.3	0.0011 mg/L	0.0011 mg/L	13:43:21
2	Co 228.616†	-230.8	1.1	0.0000 mg/L	0.0000 mg/L	13:43:21
2	Cr 267.716†	487.9	-57.4	0.0029 mg/L	0.0029 mg/L	13:43:10
2	Cu 324.752†	4075.7	-553.0	0.0014 mg/L	0.0014 mg/L	13:43:10
2	Mg 279.077†	25.0	22.6	0.0270 mg/L	0.0270 mg/L	13:43:10
2	Mn 257.610†	15091.6	-336.0	0.0013 mg/L	0.0013 mg/L	13:43:10
2	Mn 294.920†	-1317.0	-40.9	0.0014 mg/L	0.0014 mg/L	13:43:10
2	Mo 202.031†	79.5	46.9	0.0045 mg/L	0.0045 mg/L	13:43:21
2	Ni 231.604†	162.6	11.6	0.0019 mg/L	0.0019 mg/L	13:43:10
2	P 214.914†	-25.8	0.2	0.0470 mg/L	0.0470 mg/L	13:43:21
2	Pb 220.353†	169.6	-5.3	-0.0005 mg/L	-0.0005 mg/L	13:43:21
2	Sb 206.836†	50.7	5.0	0.0066 mg/L	0.0066 mg/L	13:43:21
2	Se 196.026†	17.9	7.7	0.0103 mg/L	0.0103 mg/L	13:43:21
2	Sn 189.927†	13.2	-15.5	-0.0037 mg/L	-0.0037 mg/L	13:43:21
2	Ti 337.279†	-437.7	163.4	0.0051 mg/L	0.0051 mg/L	13:43:10
2	Tl 190.801†	-3.0	1.7	0.0028 mg/L	0.0028 mg/L	13:43:21
2	V 292.402†	-403.9	-72.9	0.0043 mg/L	0.0043 mg/L	13:43:10
2	Zn 213.857†	1051.1	-49.4	0.0023 mg/L	0.0023 mg/L	13:43:21

Mean Data: CCBL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2565952.7	0.950 mg/L	0.0128			1.34%
Ag 328.068†	-47.1	0.0015 mg/L	0.00006	0.0015 mg/L	0.00006	4.21%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	89.2	0.0232 mg/L	0.00946	0.0232 mg/L	0.00946	40.73%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.5	0.0055 mg/L	0.00315	0.0055 mg/L	0.00315	57.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.4	0.0026 mg/L	0.00277	0.0026 mg/L	0.00277	105.64%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	0.9	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	3.03%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	5.9	0.0032 mg/L	0.00002	0.0032 mg/L	0.00002	0.62%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	56.2	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.05%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-162.2	0.0342 mg/L	0.00018	0.0342 mg/L	0.00018	0.52%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	0.6	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	7.20%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	7.2	0.0002 mg/L	0.00017	0.0002 mg/L	0.00017	112.86%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-22.4	0.0032 mg/L	0.00043	0.0032 mg/L	0.00043	13.52%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-516.0	0.0016 mg/L	0.00028	0.0016 mg/L	0.00028	17.23%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	8.8	0.0164 mg/L	0.00269	0.0164 mg/L	0.00269	16.39%
QC value within limits for Fe 234.349 Recovery = Not calculated						

K 766.490†	18.3	0.1843 mg/L	0.01911	0.1843 mg/L	0.01911	10.37%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-85.1	0.0021 mg/L	0.00225	0.0021 mg/L	0.00225	106.85%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	26.9	0.0274 mg/L	0.00049	0.0274 mg/L	0.00049	1.80%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-209.8	0.0014 mg/L	0.00023	0.0014 mg/L	0.00023	16.23%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	0.4	0.0015 mg/L	0.00015	0.0015 mg/L	0.00015	10.06%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	45.9	0.0045 mg/L	0.00006	0.0045 mg/L	0.00006	1.44%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-396.6	0.0411 mg/L	0.01011	0.0411 mg/L	0.01011	24.63%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	14.1	0.0019 mg/L	0.00008	0.0019 mg/L	0.00008	4.19%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.4	0.0442 mg/L	0.00404	0.0442 mg/L	0.00404	9.15%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	-14.5	-0.0012 mg/L	0.00091	-0.0012 mg/L	0.00091	78.55%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	6.9	0.0075 mg/L	0.00125	0.0075 mg/L	0.00125	16.74%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	6.4	0.0095 mg/L	0.00125	0.0095 mg/L	0.00125	13.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-11.0	-0.0030 mg/L	0.00094	-0.0030 mg/L	0.00094	30.94%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	6.4	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	20.68%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	90.8	0.0050 mg/L	0.00012	0.0050 mg/L	0.00012	2.39%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-1.7	-0.0005 mg/L	0.00474	-0.0005 mg/L	0.00474	916.46%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	49.7	0.0048 mg/L	0.00079	0.0048 mg/L	0.00079	16.39%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	-43.3	0.0024 mg/L	0.00006	0.0024 mg/L	0.00006	2.67%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15 Autosampler Location: 19
Sample ID: CG30304-SD1 @5 Date Collected: 7/5/2013 1:44:58 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CG30304-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-18.2	-12.3	-0.0056	mg/L	-0.0056 mg/L	13:46:43
1	Fe 234.349†	142152.1	147276.8	98.21	mg/L	98.21 mg/L	13:46:41
1	K 766.490†	5877.8	5272.2	3.048	mg/L	3.048 mg/L	13:46:43
1	Li 670.784†	3184.4	3534.9	0.1016	mg/L	0.1016 mg/L	13:46:43
1	Na 589.592†	1157.3	719.4	0.2441	mg/L	0.2441 mg/L	13:46:43
1	Sr 407.771†	43556.1	45057.8	0.0529	mg/L	0.0529 mg/L	13:46:41
1	Y 371.029	2606929.4	2606929.4	0.965	mg/L		13:46:52
1	Ag 328.068†	1354.9	-461.3	0.0017	mg/L	0.0017 mg/L	13:46:54
1	Al 237.313†	475872.1	493480.8	54.63	mg/L	54.63 mg/L	13:46:52
1	As 188.979†	22.2	29.7	0.0258	mg/L	0.0258 mg/L	13:47:05
1	B 182.528†	3.8	13.5	0.0144	mg/L	0.0144 mg/L	13:47:05
1	Ba 233.527†	18030.8	18778.8	0.1667	mg/L	0.1667 mg/L	13:46:54
1	Be 313.107†	5197.0	6822.6	0.0030	mg/L	0.0030 mg/L	13:46:54
1	Ca 315.887†	542227.3	563676.4	6.180	mg/L	6.180 mg/L	13:46:52
1	Cd 228.802†	225.0	74.1	0.0017	mg/L	0.0017 mg/L	13:47:05
1	Co 228.616†	1517.1	1813.7	0.0327	mg/L	0.0327 mg/L	13:47:05
1	Cr 267.716†	8565.2	8308.2	0.0758	mg/L	0.0758 mg/L	13:46:54
1	Cu 324.752†	21847.2	17832.9	0.1024	mg/L	0.1024 mg/L	13:46:54
1	Mg 279.077†	166287.6	172286.9	13.91	mg/L	13.91 mg/L	13:46:54
1	Mn 257.610†	808661.9	821780.8	1.037	mg/L	1.037 mg/L	13:46:52
1	Mn 294.920†	406242.2	422239.2	1.103	mg/L	1.103 mg/L	13:46:54
1	Mo 202.031†	218.5	190.5	-0.0047	mg/L	-0.0047 mg/L	13:47:05
1	Ni 231.604†	3271.4	3231.4	0.0737	mg/L	0.0737 mg/L	13:47:05
1	P 214.914†	4371.1	4555.9	2.899	mg/L	2.899 mg/L	13:47:05

1	Pb 220.353†	1845.5	1730.0	0.1107 mg/L	0.1107 mg/L	13:47:05
1	Sb 206.836†	81.6	36.7	-0.0072 mg/L	-0.0072 mg/L	13:47:05
1	Se 196.026†	-4.4	-15.5	-0.0252 mg/L	-0.0252 mg/L	13:47:05
1	Sn 189.927†	-24.4	-54.6	-0.0057 mg/L	-0.0057 mg/L	13:47:05
1	Ti 337.279†	1403596.6	1454884.0	1.703 mg/L	1.703 mg/L	13:46:52
1	Tl 190.801†	-2.7	2.0	-0.0562 mg/L	-0.0562 mg/L	13:47:05
1	V 292.402†	21796.3	22931.4	0.1056 mg/L	0.1056 mg/L	13:46:54
1	Zn 213.857†	54514.0	55336.5	0.4048 mg/L	0.4048 mg/L	13:46:54
2	B 249.677†	-26.1	-20.3	-0.0100 mg/L	-0.0100 mg/L	13:46:48
2	Fe 234.349†	142085.2	145770.5	97.21 mg/L	97.21 mg/L	13:46:46
2	K 766.490†	5805.3	5138.3	2.975 mg/L	2.975 mg/L	13:46:48
2	Li 670.784†	3282.1	3603.0	0.1035 mg/L	0.1035 mg/L	13:46:48
2	Na 589.592†	1125.3	674.8	0.2360 mg/L	0.2360 mg/L	13:46:48
2	Sr 407.771†	43336.0	44391.5	0.0521 mg/L	0.0521 mg/L	13:46:46
2	Y 371.029	2632627.0	2632627.0	0.975 mg/L		13:47:07
2	Ag 328.068†	1359.0	-470.9	0.0016 mg/L	0.0016 mg/L	13:47:10
2	Al 237.313†	457708.8	470032.8	52.03 mg/L	52.03 mg/L	13:47:07
2	As 188.979†	18.6	25.7	0.0229 mg/L	0.0229 mg/L	13:47:20
2	B 182.528†	7.5	17.2	0.0184 mg/L	0.0184 mg/L	13:47:20
2	Ba 233.527†	17067.1	17607.6	0.1565 mg/L	0.1565 mg/L	13:47:10
2	Be 313.107†	4813.0	6376.0	0.0028 mg/L	0.0028 mg/L	13:47:10
2	Ca 315.887†	523063.0	538530.3	5.906 mg/L	5.906 mg/L	13:47:07
2	Cd 228.802†	216.7	63.3	0.0013 mg/L	0.0013 mg/L	13:47:20
2	Co 228.616†	1460.1	1739.8	0.0314 mg/L	0.0314 mg/L	13:47:20
2	Cr 267.716†	8047.7	7690.6	0.0704 mg/L	0.0704 mg/L	13:47:10
2	Cu 324.752†	20819.9	16558.0	0.0954 mg/L	0.0954 mg/L	13:47:10
2	Mg 279.077†	157348.8	161434.0	13.04 mg/L	13.04 mg/L	13:47:10
2	Mn 257.610†	779699.6	783887.5	0.9882 mg/L	0.9882 mg/L	13:47:07
2	Mn 294.920†	384113.3	395426.7	1.033 mg/L	1.033 mg/L	13:47:10
2	Mo 202.031†	238.6	208.9	-0.0037 mg/L	-0.0037 mg/L	13:47:20
2	Ni 231.604†	3072.6	2994.4	0.0684 mg/L	0.0684 mg/L	13:47:20
2	P 214.914†	4092.0	4225.4	2.692 mg/L	2.692 mg/L	13:47:20
2	Pb 220.353†	1715.5	1577.9	0.1005 mg/L	0.1005 mg/L	13:47:20
2	Sb 206.836†	74.9	29.1	-0.0105 mg/L	-0.0105 mg/L	13:47:20
2	Se 196.026†	-10.6	-21.8	-0.0293 mg/L	-0.0293 mg/L	13:47:20
2	Sn 189.927†	-36.6	-66.9	-0.0077 mg/L	-0.0077 mg/L	13:47:20
2	Ti 337.279†	1351164.8	1386894.5	1.624 mg/L	1.624 mg/L	13:47:07
2	Tl 190.801†	-5.6	-1.0	-0.0585 mg/L	-0.0585 mg/L	13:47:20
2	V 292.402†	20632.8	21517.3	0.0993 mg/L	0.0993 mg/L	13:47:10
2	Zn 213.857†	51655.2	51852.0	0.3793 mg/L	0.3793 mg/L	13:47:10

Mean Data: CG30304-SD1 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2619778.2	0.970	mg/L	0.0067				0.69%
Ag 328.068†	-466.1	0.0017	mg/L	0.00006	0.0017	mg/L	0.00006	3.39%
Al 237.313†	481756.8	53.33	mg/L	1.835	53.33	mg/L	1.835	3.44%
As 188.979†	27.7	0.0244	mg/L	0.00202	0.0244	mg/L	0.00202	8.31%
B 249.677†	-16.3	-0.0078	mg/L	0.00313	-0.0078	mg/L	0.00313	40.19%
B 182.528†	15.4	0.0164	mg/L	0.00282	0.0164	mg/L	0.00282	17.22%
Ba 233.527†	18193.2	0.1616	mg/L	0.00721	0.1616	mg/L	0.00721	4.46%
Be 313.107†	6599.3	0.0029	mg/L	0.00013	0.0029	mg/L	0.00013	4.35%
Ca 315.887†	551103.4	6.043	mg/L	0.1938	6.043	mg/L	0.1938	3.21%
Cd 228.802†	68.7	0.0015	mg/L	0.00023	0.0015	mg/L	0.00023	15.20%
Co 228.616†	1776.7	0.0320	mg/L	0.00092	0.0320	mg/L	0.00092	2.89%
Cr 267.716†	7999.4	0.0731	mg/L	0.00381	0.0731	mg/L	0.00381	5.21%
Cu 324.752†	17195.5	0.0989	mg/L	0.00492	0.0989	mg/L	0.00492	4.97%
Fe 234.349†	146523.7	97.71	mg/L	0.710	97.71	mg/L	0.710	0.73%
K 766.490†	5205.2	3.011	mg/L	0.0516	3.011	mg/L	0.0516	1.71%
Li 670.784†	3569.0	0.1025	mg/L	0.00132	0.1025	mg/L	0.00132	1.29%
Mg 279.077†	166860.5	13.47	mg/L	0.618	13.47	mg/L	0.618	4.59%
Mn 257.610†	802834.1	1.012	mg/L	0.0343	1.012	mg/L	0.0343	3.39%
Mn 294.920†	408833.0	1.068	mg/L	0.0494	1.068	mg/L	0.0494	4.63%
Mo 202.031†	199.7	-0.0042	mg/L	0.00069	-0.0042	mg/L	0.00069	16.38%
Na 589.592†	697.1	0.2401	mg/L	0.00573	0.2401	mg/L	0.00573	2.39%
Ni 231.604†	3112.9	0.0710	mg/L	0.00373	0.0710	mg/L	0.00373	5.26%
P 214.914†	4390.7	2.796	mg/L	0.1463	2.796	mg/L	0.1463	5.23%
Pb 220.353†	1654.0	0.1056	mg/L	0.00720	0.1056	mg/L	0.00720	6.82%
Sb 206.836†	32.9	-0.0089	mg/L	0.00229	-0.0089	mg/L	0.00229	25.84%
Se 196.026†	-18.6	-0.0273	mg/L	0.00289	-0.0273	mg/L	0.00289	10.59%
Sn 189.927†	-60.7	-0.0067	mg/L	0.00141	-0.0067	mg/L	0.00141	21.13%
Sr 407.771†	44724.7	0.0525	mg/L	0.00055	0.0525	mg/L	0.00055	1.05%

Ti 337.279†	1420889.3	1.663 mg/L	0.0561	1.663 mg/L	0.0561	3.37%
Tl 190.801†	0.5	-0.0573 mg/L	0.00162	-0.0573 mg/L	0.00162	2.82%
V 292.402†	22224.3	0.1025 mg/L	0.00443	0.1025 mg/L	0.00443	4.32%
Zn 213.857†	53594.2	0.3920 mg/L	0.01807	0.3920 mg/L	0.01807	4.61%

Sequence No.: 16
Sample ID: CG30304-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 7/5/2013 1:48:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30304-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	B 249.677†	833.3	836.5	0.4675	mg/L	0.4675	mg/L	13:50:42
1	Fe 234.349†	392794.9	391212.2	260.9	mg/L	260.9	mg/L	13:50:40
1	K 766.490†	61766.2	60700.6	33.26	mg/L	33.26	mg/L	13:50:42
1	Li 670.784†	28924.4	29044.0	0.8028	mg/L	0.8028	mg/L	13:50:42
1	Na 589.592†	145566.2	144502.4	26.40	mg/L	26.40	mg/L	13:50:40
1	Sr 407.771†	164899.8	164167.6	0.1918	mg/L	0.1918	mg/L	13:50:40
1	Y 371.029	2711916.2	2711916.2	1.00	mg/L			13:50:53
1	Ag 328.068†	42686.3	40649.9	0.2337	mg/L	0.2337	mg/L	13:50:53
1	Al 237.313†	1354600.1	1349595.7	149.4	mg/L	149.4	mg/L	13:50:53
1	As 188.979†	686.5	690.3	0.5057	mg/L	0.5057	mg/L	13:51:03
1	B 182.528†	455.9	463.6	0.4975	mg/L	0.4975	mg/L	13:51:03
1	Ba 233.527†	104898.9	104575.0	0.9142	mg/L	0.9142	mg/L	13:50:53
1	Be 313.107†	124889.1	125826.1	0.0546	mg/L	0.0546	mg/L	13:50:53
1	Ca 315.887†	1962790.6	1956791.1	21.37	mg/L	21.37	mg/L	13:50:53
1	Cd 228.802†	7763.3	7573.1	0.2331	mg/L	0.2331	mg/L	13:51:03
1	Co 228.616†	27960.6	28090.2	0.5516	mg/L	0.5516	mg/L	13:51:03
1	Cr 267.716†	77205.6	76329.6	0.6691	mg/L	0.6691	mg/L	13:50:53
1	Cu 324.752†	144145.6	138764.4	0.7565	mg/L	0.7565	mg/L	13:50:53
1	Mg 279.077†	511600.8	509544.7	41.09	mg/L	41.09	mg/L	13:50:53
1	Mn 257.610†	2546506.0	2520216.4	3.185	mg/L	3.185	mg/L	13:50:53
1	Mn 294.920†	1290838.9	1286992.1	3.358	mg/L	3.358	mg/L	13:50:53
1	Mo 202.031†	11706.3	11623.4	0.4530	mg/L	0.4530	mg/L	13:51:03
1	Ni 231.604†	29401.6	29125.6	0.6516	mg/L	0.6516	mg/L	13:50:53
1	P 214.914†	19368.2	19317.6	12.13	mg/L	12.13	mg/L	13:51:03
1	Pb 220.353†	11401.2	11173.4	0.7585	mg/L	0.7585	mg/L	13:51:03
1	Sb 206.836†	1112.9	1060.6	0.4247	mg/L	0.4247	mg/L	13:51:03
1	Se 196.026†	1303.4	1287.3	0.8351	mg/L	0.8351	mg/L	13:51:03
1	Sn 189.927†	3112.1	3070.3	0.4663	mg/L	0.4663	mg/L	13:51:03
1	Ti 337.279†	4295502.2	4278887.7	4.999	mg/L	4.999	mg/L	13:50:53
1	Tl 190.801†	466.6	469.6	0.2980	mg/L	0.2980	mg/L	13:51:03
1	V 292.402†	164997.7	164684.0	0.7521	mg/L	0.7521	mg/L	13:50:53
1	Zn 213.857†	207661.0	205682.4	1.499	mg/L	1.499	mg/L	13:50:53
2	B 249.677†	845.2	840.7	0.4698	mg/L	0.4698	mg/L	13:50:47
2	Fe 234.349†	391323.2	386258.5	257.5	mg/L	257.5	mg/L	13:50:45
2	K 766.490†	61085.0	59477.6	32.59	mg/L	32.59	mg/L	13:50:47
2	Li 670.784†	28694.1	28558.9	0.7894	mg/L	0.7894	mg/L	13:50:47
2	Na 589.592†	144426.9	142080.4	25.96	mg/L	25.96	mg/L	13:50:45
2	Sr 407.771†	163805.7	161617.8	0.1888	mg/L	0.1888	mg/L	13:50:45
2	Y 371.029	2736404.6	2736404.6	1.01	mg/L			13:51:07
2	Ag 328.068†	41977.2	39569.5	0.2276	mg/L	0.2276	mg/L	13:51:07
2	Al 237.313†	1367693.6	1350446.0	149.5	mg/L	149.5	mg/L	13:51:07
2	As 188.979†	666.6	664.6	0.4870	mg/L	0.4870	mg/L	13:51:17
2	B 182.528†	441.0	444.8	0.4774	mg/L	0.4774	mg/L	13:51:17
2	Ba 233.527†	104672.4	103416.4	0.9041	mg/L	0.9041	mg/L	13:51:07
2	Be 313.107†	123226.0	123071.2	0.0534	mg/L	0.0534	mg/L	13:51:07
2	Ca 315.887†	1969078.7	1945503.1	21.24	mg/L	21.24	mg/L	13:51:07
2	Cd 228.802†	7540.3	7283.8	0.2241	mg/L	0.2241	mg/L	13:51:17
2	Co 228.616†	27260.9	27150.4	0.5328	mg/L	0.5328	mg/L	13:51:17
2	Cr 267.716†	76693.6	75136.0	0.6587	mg/L	0.6587	mg/L	13:51:07
2	Cu 324.752†	142419.5	135775.8	0.7404	mg/L	0.7404	mg/L	13:51:07
2	Mg 279.077†	515174.1	508511.8	41.01	mg/L	41.01	mg/L	13:51:07
2	Mn 257.610†	2561292.4	2512114.2	3.175	mg/L	3.175	mg/L	13:51:07
2	Mn 294.920†	1298502.3	1283050.9	3.348	mg/L	3.348	mg/L	13:51:07
2	Mo 202.031†	11360.5	11177.8	0.4347	mg/L	0.4347	mg/L	13:51:17
2	Ni 231.604†	29102.6	28568.4	0.6392	mg/L	0.6392	mg/L	13:51:07
2	P 214.914†	19149.0	18928.6	11.89	mg/L	11.89	mg/L	13:51:17
2	Pb 220.353†	11149.9	10823.7	0.7338	mg/L	0.7338	mg/L	13:51:17

2	Sb 206.836†	1097.5	1035.5	0.4137 mg/L	0.4137 mg/L	13:51:17
2	Se 196.026†	1246.1	1219.1	0.7891 mg/L	0.7891 mg/L	13:51:17
2	Sn 189.927†	2977.8	2910.0	0.4425 mg/L	0.4425 mg/L	13:51:17
2	Ti 337.279†	4325497.6	4270208.6	4.989 mg/L	4.989 mg/L	13:51:07
2	Tl 190.801†	462.0	460.8	0.2915 mg/L	0.2915 mg/L	13:51:17
2	V 292.402†	163909.6	162139.3	0.7403 mg/L	0.7403 mg/L	13:51:07
2	Zn 213.857†	207920.5	204087.6	1.487 mg/L	1.487 mg/L	13:51:07

Mean Data: CG30304-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2724160.4	1.01	mg/L	0.006				0.64%
Ag 328.068†	40109.7	0.2307	mg/L	0.00429	0.2307	mg/L	0.00429	1.86%
Al 237.313†	1350020.8	149.4	mg/L	0.07	149.4	mg/L	0.07	0.04%
As 188.979†	677.5	0.4963	mg/L	0.01325	0.4963	mg/L	0.01325	2.67%
B 249.677†	838.6	0.4687	mg/L	0.00165	0.4687	mg/L	0.00165	0.35%
B 182.528†	454.2	0.4874	mg/L	0.01424	0.4874	mg/L	0.01424	2.92%
Ba 233.527†	103995.7	0.9092	mg/L	0.00714	0.9092	mg/L	0.00714	0.79%
Be 313.107†	124448.6	0.0540	mg/L	0.00086	0.0540	mg/L	0.00086	1.59%
Ca 315.887†	1951147.1	21.30	mg/L	0.087	21.30	mg/L	0.087	0.41%
Cd 228.802†	7428.5	0.2286	mg/L	0.00635	0.2286	mg/L	0.00635	2.78%
Co 228.616†	27620.3	0.5422	mg/L	0.01329	0.5422	mg/L	0.01329	2.45%
Cr 267.716†	75732.8	0.6639	mg/L	0.00737	0.6639	mg/L	0.00737	1.11%
Cu 324.752†	137270.1	0.7485	mg/L	0.01137	0.7485	mg/L	0.01137	1.52%
Fe 234.349†	388735.3	259.2	mg/L	2.34	259.2	mg/L	2.34	0.90%
K 766.490†	60089.1	32.92	mg/L	0.471	32.92	mg/L	0.471	1.43%
Li 670.784†	28801.4	0.7961	mg/L	0.00943	0.7961	mg/L	0.00943	1.18%
Mg 279.077†	509028.3	41.05	mg/L	0.059	41.05	mg/L	0.059	0.14%
Mn 257.610†	2516165.3	3.180	mg/L	0.0068	3.180	mg/L	0.0068	0.22%
Mn 294.920†	1285021.5	3.353	mg/L	0.0073	3.353	mg/L	0.0073	0.22%
Mo 202.031†	11400.6	0.4439	mg/L	0.01297	0.4439	mg/L	0.01297	2.92%
Na 589.592†	143291.4	26.18	mg/L	0.312	26.18	mg/L	0.312	1.19%
Ni 231.604†	28847.0	0.6454	mg/L	0.00880	0.6454	mg/L	0.00880	1.36%
P 214.914†	19123.1	12.01	mg/L	0.172	12.01	mg/L	0.172	1.43%
Pb 220.353†	10998.5	0.7462	mg/L	0.01749	0.7462	mg/L	0.01749	2.34%
Sb 206.836†	1048.1	0.4192	mg/L	0.00771	0.4192	mg/L	0.00771	1.84%
Se 196.026†	1253.2	0.8121	mg/L	0.03257	0.8121	mg/L	0.03257	4.01%
Sn 189.927†	2990.2	0.4544	mg/L	0.01683	0.4544	mg/L	0.01683	3.70%
Sr 407.771†	162892.7	0.1903	mg/L	0.00210	0.1903	mg/L	0.00210	1.10%
Ti 337.279†	4274548.2	4.994	mg/L	0.0072	4.994	mg/L	0.0072	0.14%
Tl 190.801†	465.2	0.2947	mg/L	0.00458	0.2947	mg/L	0.00458	1.55%
V 292.402†	163411.6	0.7462	mg/L	0.00838	0.7462	mg/L	0.00838	1.12%
Zn 213.857†	204885.0	1.493	mg/L	0.0081	1.493	mg/L	0.0081	0.54%

Sequence No.: 17
Sample ID: 1307053-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 7/5/2013 1:54:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-105.5	-103.9	-0.0565	mg/L	-0.0565	mg/L	13:56:12
1	Fe 234.349†	823056.0	861571.4	574.5	mg/L	574.5	mg/L	13:56:09
1	K 766.490†	18645.3	18700.1	10.37	mg/L	10.37	mg/L	13:56:12
1	Li 670.784†	19692.6	20849.9	0.5775	mg/L	0.5775	mg/L	13:56:12
1	Na 589.592†	4567.9	4302.0	0.8960	mg/L	0.8960	mg/L	13:56:12
1	Sr 407.771†	130469.2	136505.0	0.1595	mg/L	0.1595	mg/L	13:56:12
1	Y 371.029	2580269.1	2580269.1	0.955	mg/L			13:56:22
1	Ag 328.068†	-286.7	-2165.2	0.0042	mg/L	0.0042	mg/L	13:56:24
1	Al 237.313†	2007320.5	2101701.2	232.6	mg/L	232.6	mg/L	13:56:22
1	As 188.979†	438.8	466.0	0.3430	mg/L	0.3430	mg/L	13:56:34
1	B 182.528†	33.9	45.0	0.0482	mg/L	0.0482	mg/L	13:56:34
1	Ba 233.527†	44907.0	47105.8	0.4135	mg/L	0.4135	mg/L	13:56:24
1	Be 313.107†	22193.1	24669.9	0.0108	mg/L	0.0108	mg/L	13:56:24
1	Ca 315.887†	1529447.4	1602906.9	17.51	mg/L	17.51	mg/L	13:56:22
1	Cd 228.802†	335.0	191.7	-0.0028	mg/L	-0.0028	mg/L	13:56:34
1	Co 228.616†	11364.4	12138.1	0.2386	mg/L	0.2386	mg/L	13:56:34
1	Cr 267.716†	35466.7	36560.5	0.3221	mg/L	0.3221	mg/L	13:56:24

1	Cu 324.752†	76050.1	74806.7	0.4092 mg/L	0.4092 mg/L	13:56:24
1	Mg 279.077†	875755.7	916740.9	73.91 mg/L	73.91 mg/L	13:56:22
1	Mn 257.610†	4942318.2	5157564.9	6.507 mg/L	6.507 mg/L	13:56:22
1	Mn 294.920†	2532512.3	2652375.8	6.919 mg/L	6.919 mg/L	13:56:22
1	Mo 202.031†	524.6	513.2	-0.0641 mg/L	-0.0641 mg/L	13:56:24
1	Ni 231.604†	18968.4	19698.1	0.4408 mg/L	0.4408 mg/L	13:56:24
1	P 214.914†	16721.0	17530.7	11.02 mg/L	11.02 mg/L	13:56:34
1	Pb 220.353†	4878.8	4925.1	0.2997 mg/L	0.2997 mg/L	13:56:34
1	Sb 206.836†	172.2	132.4	-0.1007 mg/L	-0.1007 mg/L	13:56:34
1	Se 196.026†	-131.8	-148.9	-0.2119 mg/L	-0.2119 mg/L	13:56:34
1	Sn 189.927†	-243.7	-284.4	-0.0327 mg/L	-0.0327 mg/L	13:56:34
1	Ti 337.279†	1631973.3	1708975.7	2.000 mg/L	2.000 mg/L	13:56:22
1	Tl 190.801†	-39.7	-36.8	-0.3809 mg/L	-0.3809 mg/L	13:56:34
1	V 292.402†	78390.6	82407.8	0.3762 mg/L	0.3762 mg/L	13:56:24
1	Zn 213.857†	147629.2	153393.4	1.102 mg/L	1.102 mg/L	13:56:24
2	B 249.677†	-142.2	-139.9	-0.0766 mg/L	-0.0766 mg/L	13:56:16
2	Fe 234.349†	827054.0	851655.7	567.9 mg/L	567.9 mg/L	13:56:14
2	K 766.490†	18600.2	18335.8	10.17 mg/L	10.17 mg/L	13:56:16
2	Li 670.784†	19949.9	20779.1	0.5756 mg/L	0.5756 mg/L	13:56:16
2	Na 589.592†	4576.6	4233.1	0.8834 mg/L	0.8834 mg/L	13:56:16
2	Sr 407.771†	129845.9	133638.8	0.1562 mg/L	0.1562 mg/L	13:56:16
2	Y 371.029	2622989.9	2622989.9	0.971 mg/L		13:56:38
2	Ag 328.068†	-386.4	-2263.1	0.0035 mg/L	0.0035 mg/L	13:56:40
2	Al 237.313†	2043156.2	2104379.6	232.9 mg/L	232.9 mg/L	13:56:38
2	As 188.979†	438.5	458.1	0.3373 mg/L	0.3373 mg/L	13:56:50
2	B 182.528†	44.8	55.7	0.0597 mg/L	0.0597 mg/L	13:56:50
2	Ba 233.527†	44601.8	46026.0	0.4041 mg/L	0.4041 mg/L	13:56:40
2	Be 313.107†	22175.6	24273.5	0.0106 mg/L	0.0106 mg/L	13:56:40
2	Ca 315.887†	1555972.9	1604145.5	17.52 mg/L	17.52 mg/L	13:56:38
2	Cd 228.802†	337.0	188.0	-0.0028 mg/L	-0.0028 mg/L	13:56:50
2	Co 228.616†	11377.6	11957.9	0.2350 mg/L	0.2350 mg/L	13:56:50
2	Cr 267.716†	35267.9	35751.0	0.3150 mg/L	0.3150 mg/L	13:56:40
2	Cu 324.752†	75456.1	72898.4	0.3989 mg/L	0.3989 mg/L	13:56:40
2	Mg 279.077†	891796.5	918328.0	74.04 mg/L	74.04 mg/L	13:56:38
2	Mn 257.610†	5028080.0	5161615.2	6.514 mg/L	6.514 mg/L	13:56:38
2	Mn 294.920†	2576646.1	2654645.1	6.924 mg/L	6.924 mg/L	13:56:38
2	Mo 202.031†	468.0	446.0	-0.0659 mg/L	-0.0659 mg/L	13:56:40
2	Ni 231.604†	18928.0	19333.2	0.4326 mg/L	0.4326 mg/L	13:56:40
2	P 214.914†	16651.1	17173.6	10.80 mg/L	10.80 mg/L	13:56:50
2	Pb 220.353†	4770.6	4730.5	0.2859 mg/L	0.2859 mg/L	13:56:50
2	Sb 206.836†	178.2	135.7	-0.0972 mg/L	-0.0972 mg/L	13:56:50
2	Se 196.026†	-133.8	-148.7	-0.2104 mg/L	-0.2104 mg/L	13:56:50
2	Sn 189.927†	-251.3	-288.1	-0.0332 mg/L	-0.0332 mg/L	13:56:50
2	Ti 337.279†	1658401.0	1708365.6	1.999 mg/L	1.999 mg/L	13:56:38
2	Tl 190.801†	-41.5	-38.0	-0.3780 mg/L	-0.3780 mg/L	13:56:50
2	V 292.402†	77948.9	80616.5	0.3680 mg/L	0.3680 mg/L	13:56:40
2	Zn 213.857†	147125.2	150357.4	1.080 mg/L	1.080 mg/L	13:56:40

Mean Data: 1307053-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2601629.5	0.963	mg/L	0.0112				1.16%
Ag 328.068†	-2214.2	0.0039	mg/L	0.00050	0.0039	mg/L	0.00050	12.98%
Al 237.313†	2103040.4	232.8	mg/L	0.21	232.8	mg/L	0.21	0.09%
As 188.979†	462.1	0.3401	mg/L	0.00402	0.3401	mg/L	0.00402	1.18%
B 249.677†	-121.9	-0.0665	mg/L	0.01417	-0.0665	mg/L	0.01417	21.30%
B 182.528†	50.4	0.0539	mg/L	0.00813	0.0539	mg/L	0.00813	15.08%
Ba 233.527†	46565.9	0.4088	mg/L	0.00665	0.4088	mg/L	0.00665	1.63%
Be 313.107†	24471.7	0.0107	mg/L	0.00012	0.0107	mg/L	0.00012	1.16%
Ca 315.887†	1603526.2	17.51	mg/L	0.010	17.51	mg/L	0.010	0.05%
Cd 228.802†	189.8	-0.0028	mg/L	0.00000	-0.0028	mg/L	0.00000	0.05%
Co 228.616†	12048.0	0.2368	mg/L	0.00255	0.2368	mg/L	0.00255	1.08%
Cr 267.716†	36155.7	0.3186	mg/L	0.00499	0.3186	mg/L	0.00499	1.57%
Cu 324.752†	73852.5	0.4040	mg/L	0.00726	0.4040	mg/L	0.00726	1.80%
Fe 234.349†	856613.6	571.2	mg/L	4.68	571.2	mg/L	4.68	0.82%
K 766.490†	18518.0	10.27	mg/L	0.140	10.27	mg/L	0.140	1.37%
Li 670.784†	20814.5	0.5766	mg/L	0.00138	0.5766	mg/L	0.00138	0.24%
Mg 279.077†	917534.5	73.97	mg/L	0.090	73.97	mg/L	0.090	0.12%
Mn 257.610†	5159590.0	6.511	mg/L	0.0047	6.511	mg/L	0.0047	0.07%
Mn 294.920†	2653510.4	6.922	mg/L	0.0042	6.922	mg/L	0.0042	0.06%
Mo 202.031†	479.6	-0.0650	mg/L	0.00128	-0.0650	mg/L	0.00128	1.96%
Na 589.592†	4267.5	0.8897	mg/L	0.00887	0.8897	mg/L	0.00887	1.00%

Ni 231.604†	19515.6	0.4367 mg/L	0.00576	0.4367 mg/L	0.00576	1.32%
P 214.914†	17352.2	10.91 mg/L	0.158	10.91 mg/L	0.158	1.45%
Pb 220.353†	4827.8	0.2928 mg/L	0.00975	0.2928 mg/L	0.00975	3.33%
Sb 206.836†	134.1	-0.0990 mg/L	0.00242	-0.0990 mg/L	0.00242	2.45%
Se 196.026†	-148.8	-0.2112 mg/L	0.00105	-0.2112 mg/L	0.00105	0.50%
Sn 189.927†	-286.2	-0.0330 mg/L	0.00037	-0.0330 mg/L	0.00037	1.14%
Sr 407.771†	135071.9	0.1579 mg/L	0.00236	0.1579 mg/L	0.00236	1.50%
Ti 337.279†	1708670.6	1.999 mg/L	0.0005	1.999 mg/L	0.0005	0.03%
Tl 190.801†	-37.4	-0.3795 mg/L	0.00205	-0.3795 mg/L	0.00205	0.54%
V 292.402†	81512.2	0.3721 mg/L	0.00580	0.3721 mg/L	0.00580	1.56%
Zn 213.857†	151875.4	1.091 mg/L	0.0155	1.091 mg/L	0.0155	1.42%

Sequence No.: 18

Autosampler Location: 22

Sample ID: 1307053-02

Date Collected: 7/5/2013 2:00:01 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1307053-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-108.3	-104.5	-0.0569	mg/L	-0.0569	mg/L	14:01:47
1	Fe 234.349†	672924.6	689712.0	459.9	mg/L	459.9	mg/L	14:01:44
1	K 766.490†	15139.4	14699.4	8.185	mg/L	8.185	mg/L	14:01:47
1	Li 670.784†	15538.2	16161.6	0.4487	mg/L	0.4487	mg/L	14:01:47
1	Na 589.592†	3826.7	3442.5	0.7396	mg/L	0.7396	mg/L	14:01:47
1	Sr 407.771†	103370.7	105880.0	0.1238	mg/L	0.1238	mg/L	14:01:44
1	Y 371.029	2635267.4	2635267.4	0.976	mg/L			14:01:57
1	Ag 328.068†	-116.1	-1984.2	0.0023	mg/L	0.0023	mg/L	14:01:59
1	Al 237.313†	1783453.9	1828393.8	202.4	mg/L	202.4	mg/L	14:01:57
1	As 188.979†	242.8	255.5	0.1899	mg/L	0.1899	mg/L	14:02:09
1	B 182.528†	33.5	43.9	0.0471	mg/L	0.0471	mg/L	14:02:09
1	Ba 233.527†	35010.0	35980.8	0.3166	mg/L	0.3166	mg/L	14:01:59
1	Be 313.107†	12920.3	14680.8	0.0063	mg/L	0.0063	mg/L	14:01:59
1	Ca 315.887†	979806.2	1006134.7	11.00	mg/L	11.00	mg/L	14:01:57
1	Cd 228.802†	305.7	154.3	-0.0020	mg/L	-0.0020	mg/L	14:02:09
1	Co 228.616†	10714.6	11223.8	0.2200	mg/L	0.2200	mg/L	14:02:09
1	Cr 267.716†	26361.4	26453.1	0.2340	mg/L	0.2340	mg/L	14:01:59
1	Cu 324.752†	67912.5	64804.5	0.3555	mg/L	0.3555	mg/L	14:01:59
1	Mg 279.077†	728881.1	747068.2	60.23	mg/L	60.23	mg/L	14:01:57
1	Mn 257.610†	3772218.6	3850289.0	4.851	mg/L	4.851	mg/L	14:01:57
1	Mn 294.920†	1927474.6	1976910.7	5.157	mg/L	5.157	mg/L	14:01:57
1	Mo 202.031†	220.6	190.2	-0.0604	mg/L	-0.0604	mg/L	14:01:59
1	Ni 231.604†	16396.7	16647.9	0.3727	mg/L	0.3727	mg/L	14:01:59
1	P 214.914†	14166.8	14547.5	9.154	mg/L	9.154	mg/L	14:02:09
1	Pb 220.353†	3017.8	2911.0	0.1639	mg/L	0.1639	mg/L	14:02:09
1	Sb 206.836†	138.0	93.6	-0.0854	mg/L	-0.0854	mg/L	14:02:09
1	Se 196.026†	-101.7	-115.1	-0.1658	mg/L	-0.1658	mg/L	14:02:09
1	Sn 189.927†	-183.9	-217.8	-0.0269	mg/L	-0.0269	mg/L	14:02:09
1	Ti 337.279†	1786472.6	1831677.3	2.143	mg/L	2.143	mg/L	14:01:57
1	Tl 190.801†	-33.9	-30.0	-0.3054	mg/L	-0.3054	mg/L	14:02:09
1	V 292.402†	67603.8	69639.3	0.3175	mg/L	0.3175	mg/L	14:01:59
1	Zn 213.857†	113815.4	115510.5	0.8289	mg/L	0.8289	mg/L	14:01:59
2	B 249.677†	-104.4	-99.1	-0.0539	mg/L	-0.0539	mg/L	14:01:51
2	Fe 234.349†	665570.3	673366.4	449.0	mg/L	449.0	mg/L	14:01:49
2	K 766.490†	15012.1	14370.3	8.006	mg/L	8.006	mg/L	14:01:51
2	Li 670.784†	15509.8	15927.2	0.4422	mg/L	0.4422	mg/L	14:01:51
2	Na 589.592†	3717.9	3281.8	0.7103	mg/L	0.7103	mg/L	14:01:51
2	Sr 407.771†	102484.7	103615.6	0.1212	mg/L	0.1212	mg/L	14:01:49
2	Y 371.029	2669736.8	2669736.8	0.988	mg/L			14:02:13
2	Ag 328.068†	-91.2	-1957.5	0.0022	mg/L	0.0022	mg/L	14:02:15
2	Al 237.313†	1810582.0	1832238.8	202.8	mg/L	202.8	mg/L	14:02:13
2	As 188.979†	248.5	258.0	0.1917	mg/L	0.1917	mg/L	14:02:25
2	B 182.528†	38.4	48.4	0.0519	mg/L	0.0519	mg/L	14:02:25
2	Ba 233.527†	35233.9	35743.9	0.3145	mg/L	0.3145	mg/L	14:02:15
2	Be 313.107†	12987.7	14578.0	0.0063	mg/L	0.0063	mg/L	14:02:15
2	Ca 315.887†	994819.6	1008358.0	11.03	mg/L	11.03	mg/L	14:02:13
2	Cd 228.802†	286.0	130.3	-0.0026	mg/L	-0.0026	mg/L	14:02:25
2	Co 228.616†	10663.5	11030.3	0.2161	mg/L	0.2161	mg/L	14:02:25
2	Cr 267.716†	26349.3	26092.0	0.2308	mg/L	0.2308	mg/L	14:02:15
2	Cu 324.752†	68287.1	64284.7	0.3528	mg/L	0.3528	mg/L	14:02:15

2	Mg 279.077†	740658.1	749337.8	60.42 mg/L	60.42 mg/L	14:02:13
2	Mn 257.610†	3825976.4	3854757.7	4.860 mg/L	4.860 mg/L	14:02:13
2	Mn 294.920†	1954939.9	1979191.0	5.163 mg/L	5.163 mg/L	14:02:13
2	Mo 202.031†	257.1	224.1	-0.0573 mg/L	-0.0573 mg/L	14:02:15
2	Ni 231.604†	16393.5	16427.6	0.3678 mg/L	0.3678 mg/L	14:02:15
2	P 214.914†	14101.8	14294.2	8.996 mg/L	8.996 mg/L	14:02:25
2	Pb 220.353†	2957.1	2809.6	0.1566 mg/L	0.1566 mg/L	14:02:25
2	Sb 206.836†	156.1	110.1	-0.0746 mg/L	-0.0746 mg/L	14:02:25
2	Se 196.026†	-106.0	-118.2	-0.1658 mg/L	-0.1658 mg/L	14:02:25
2	Sn 189.927†	-183.1	-214.6	-0.0264 mg/L	-0.0264 mg/L	14:02:25
2	Ti 337.279†	1811716.1	1833575.6	2.145 mg/L	2.145 mg/L	14:02:13
2	Tl 190.801†	-35.0	-30.6	-0.2994 mg/L	-0.2994 mg/L	14:02:25
2	V 292.402†	67759.6	68902.3	0.3141 mg/L	0.3141 mg/L	14:02:15
2	Zn 213.857†	114494.2	114691.0	0.8234 mg/L	0.8234 mg/L	14:02:15

Mean Data: 1307053-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2652502.1	0.982 mg/L	0.0090			0.92%
Ag 328.068†	-1970.8	0.0023 mg/L	0.00009	0.0023 mg/L	0.00009	3.88%
Al 237.313†	1830316.3	202.6 mg/L	0.30	202.6 mg/L	0.30	0.15%
As 188.979†	256.8	0.1908 mg/L	0.00128	0.1908 mg/L	0.00128	0.67%
B 249.677†	-101.8	-0.0554 mg/L	0.00213	-0.0554 mg/L	0.00213	3.84%
B 182.528†	46.2	0.0495 mg/L	0.00342	0.0495 mg/L	0.00342	6.92%
Ba 233.527†	35862.4	0.3156 mg/L	0.00146	0.3156 mg/L	0.00146	0.46%
Be 313.107†	14629.4	0.0063 mg/L	0.00003	0.0063 mg/L	0.00003	0.52%
Ca 315.887†	1007246.3	11.02 mg/L	0.017	11.02 mg/L	0.017	0.16%
Cd 228.802†	142.3	-0.0023 mg/L	0.00040	-0.0023 mg/L	0.00040	17.49%
Co 228.616†	11127.1	0.2180 mg/L	0.00274	0.2180 mg/L	0.00274	1.26%
Cr 267.716†	26272.5	0.2324 mg/L	0.00222	0.2324 mg/L	0.00222	0.96%
Cu 324.752†	64544.6	0.3541 mg/L	0.00198	0.3541 mg/L	0.00198	0.56%
Fe 234.349†	681539.2	454.5 mg/L	7.71	454.5 mg/L	7.71	1.70%
K 766.490†	14534.8	8.096 mg/L	0.1268	8.096 mg/L	0.1268	1.57%
Li 670.784†	16044.4	0.4455 mg/L	0.00455	0.4455 mg/L	0.00455	1.02%
Mg 279.077†	748203.0	60.33 mg/L	0.129	60.33 mg/L	0.129	0.21%
Mn 257.610†	3852523.4	4.855 mg/L	0.0058	4.855 mg/L	0.0058	0.12%
Mn 294.920†	1978050.8	5.160 mg/L	0.0042	5.160 mg/L	0.0042	0.08%
Mo 202.031†	207.2	-0.0588 mg/L	0.00219	-0.0588 mg/L	0.00219	3.72%
Na 589.592†	3362.1	0.7249 mg/L	0.02068	0.7249 mg/L	0.02068	2.85%
Ni 231.604†	16537.8	0.3703 mg/L	0.00347	0.3703 mg/L	0.00347	0.94%
P 214.914†	14420.8	9.075 mg/L	0.1122	9.075 mg/L	0.1122	1.24%
Pb 220.353†	2860.3	0.1602 mg/L	0.00511	0.1602 mg/L	0.00511	3.19%
Sb 206.836†	101.8	-0.0800 mg/L	0.00768	-0.0800 mg/L	0.00768	9.59%
Se 196.026†	-116.6	-0.1658 mg/L	0.00005	-0.1658 mg/L	0.00005	0.03%
Sn 189.927†	-216.2	-0.0266 mg/L	0.00035	-0.0266 mg/L	0.00035	1.32%
Sr 407.771†	104747.8	0.1225 mg/L	0.00187	0.1225 mg/L	0.00187	1.52%
Ti 337.279†	1832626.4	2.144 mg/L	0.0016	2.144 mg/L	0.0016	0.07%
Tl 190.801†	-30.3	-0.3024 mg/L	0.00421	-0.3024 mg/L	0.00421	1.39%
V 292.402†	69270.8	0.3158 mg/L	0.00237	0.3158 mg/L	0.00237	0.75%
Zn 213.857†	115100.8	0.8261 mg/L	0.00389	0.8261 mg/L	0.00389	0.47%

Sequence No.: 19

Sample ID: 1307053-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 23

Date Collected: 7/5/2013 2:05:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307053-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-64.3	-59.6	-0.0319 mg/L	-0.0319 mg/L	14:07:24
1	Fe 234.349†	598853.1	615923.0	410.7 mg/L	410.7 mg/L	14:07:21
1	K 766.490†	16817.3	16479.0	9.155 mg/L	9.155 mg/L	14:07:24
1	Li 670.784†	14642.1	15295.3	0.4249 mg/L	0.4249 mg/L	14:07:24
1	Na 589.592†	3838.2	3467.9	0.7442 mg/L	0.7442 mg/L	14:07:24
1	Sr 407.771†	87806.6	90239.9	0.1056 mg/L	0.1056 mg/L	14:07:21
1	Y 371.029	2626149.0	2626149.0	0.972 mg/L		14:07:34
1	Ag 328.068†	-35.4	-1901.6	0.0016 mg/L	0.0016 mg/L	14:07:36
1	Al 237.313†	1784014.8	1835317.7	203.1 mg/L	203.1 mg/L	14:07:34
1	As 188.979†	242.3	255.9	0.1901 mg/L	0.1901 mg/L	14:07:46

1	B	182.528†	35.1	45.6	0.0489	mg/L	0.0489	mg/L	14:07:46
1	Ba	233.527†	37599.6	38768.8	0.3409	mg/L	0.3409	mg/L	14:07:36
1	Be	313.107†	14604.5	16458.9	0.0071	mg/L	0.0071	mg/L	14:07:36
1	Ca	315.887†	764626.6	788306.1	8.629	mg/L	8.629	mg/L	14:07:34
1	Cd	228.802†	297.4	146.9	-0.0014	mg/L	-0.0014	mg/L	14:07:46
1	Co	228.616†	14783.2	15446.5	0.3039	mg/L	0.3039	mg/L	14:07:46
1	Cr	267.716†	25923.9	26096.9	0.2309	mg/L	0.2309	mg/L	14:07:36
1	Cu	324.752†	77557.4	74966.1	0.4105	mg/L	0.4105	mg/L	14:07:36
1	Mg	279.077†	702112.8	722130.6	58.23	mg/L	58.23	mg/L	14:07:34
1	Mn	257.610†	4011144.9	4109453.0	5.196	mg/L	5.196	mg/L	14:07:34
1	Mn	294.920†	2039978.0	2099481.7	5.477	mg/L	5.477	mg/L	14:07:34
1	Mo	202.031†	278.1	250.1	-0.0508	mg/L	-0.0508	mg/L	14:07:36
1	Ni	231.604†	15438.1	15720.3	0.3521	mg/L	0.3521	mg/L	14:07:46
1	P	214.914†	13173.5	13576.2	8.546	mg/L	8.546	mg/L	14:07:46
1	Pb	220.353†	2816.5	2714.7	0.1499	mg/L	0.1499	mg/L	14:07:46
1	Sb	206.836†	129.9	85.8	-0.0750	mg/L	-0.0750	mg/L	14:07:46
1	Se	196.026†	-96.6	-110.3	-0.1527	mg/L	-0.1527	mg/L	14:07:46
1	Sn	189.927†	-180.3	-214.8	-0.0279	mg/L	-0.0279	mg/L	14:07:46
1	Ti	337.279†	2015208.1	2073293.0	2.425	mg/L	2.425	mg/L	14:07:34
1	Tl	190.801†	-33.0	-29.1	-0.2750	mg/L	-0.2750	mg/L	14:07:46
1	V	292.402†	66855.3	69110.0	0.3146	mg/L	0.3146	mg/L	14:07:36
1	Zn	213.857†	107561.4	109483.2	0.7868	mg/L	0.7868	mg/L	14:07:36
2	B	249.677†	-90.0	-86.1	-0.0466	mg/L	-0.0466	mg/L	14:07:28
2	Fe	234.349†	599285.8	616639.0	411.2	mg/L	411.2	mg/L	14:07:26
2	K	766.490†	16964.2	16637.8	9.242	mg/L	9.242	mg/L	14:07:28
2	Li	670.784†	14712.6	15374.4	0.4270	mg/L	0.4270	mg/L	14:07:28
2	Na	589.592†	3821.9	3452.9	0.7415	mg/L	0.7415	mg/L	14:07:28
2	Sr	407.771†	87823.1	90296.6	0.1057	mg/L	0.1057	mg/L	14:07:26
2	Y	371.029	2624995.0	2624995.0	0.972	mg/L			14:07:50
2	Ag	328.068†	-98.0	-1966.0	0.0012	mg/L	0.0012	mg/L	14:07:52
2	Al	237.313†	1782477.1	1834542.1	203.0	mg/L	203.0	mg/L	14:07:50
2	As	188.979†	241.4	255.0	0.1895	mg/L	0.1895	mg/L	14:08:02
2	B	182.528†	25.2	35.5	0.0380	mg/L	0.0380	mg/L	14:08:02
2	Ba	233.527†	37202.2	38376.8	0.3375	mg/L	0.3375	mg/L	14:07:52
2	Be	313.107†	14307.9	16160.3	0.0069	mg/L	0.0069	mg/L	14:07:52
2	Ca	315.887†	765248.6	789291.7	8.640	mg/L	8.640	mg/L	14:07:50
2	Cd	228.802†	292.5	142.0	-0.0016	mg/L	-0.0016	mg/L	14:08:02
2	Co	228.616†	14826.5	15497.8	0.3049	mg/L	0.3049	mg/L	14:08:02
2	Cr	267.716†	25704.5	25882.9	0.2290	mg/L	0.2290	mg/L	14:07:52
2	Cu	324.752†	76480.7	73893.3	0.4048	mg/L	0.4048	mg/L	14:07:52
2	Mg	279.077†	702696.3	723048.4	58.30	mg/L	58.30	mg/L	14:07:50
2	Mn	257.610†	4010510.7	4110614.1	5.197	mg/L	5.197	mg/L	14:07:50
2	Mn	294.920†	2040905.2	2101358.2	5.482	mg/L	5.482	mg/L	14:07:50
2	Mo	202.031†	189.2	158.8	-0.0547	mg/L	-0.0547	mg/L	14:07:52
2	Ni	231.604†	15460.7	15750.5	0.3527	mg/L	0.3527	mg/L	14:08:02
2	P	214.914†	13174.7	13583.5	8.550	mg/L	8.550	mg/L	14:08:02
2	Pb	220.353†	2878.7	2780.0	0.1546	mg/L	0.1546	mg/L	14:08:02
2	Sb	206.836†	145.0	101.4	-0.0678	mg/L	-0.0678	mg/L	14:08:02
2	Se	196.026†	-82.3	-95.6	-0.1428	mg/L	-0.1428	mg/L	14:08:02
2	Sn	189.927†	-133.2	-166.4	-0.0207	mg/L	-0.0207	mg/L	14:08:02
2	Ti	337.279†	2014418.0	2073391.2	2.425	mg/L	2.425	mg/L	14:07:50
2	Tl	190.801†	-39.3	-35.6	-0.2816	mg/L	-0.2816	mg/L	14:08:02
2	V	292.402†	66096.0	68358.9	0.3111	mg/L	0.3111	mg/L	14:07:52
2	Zn	213.857†	106175.6	108105.9	0.7767	mg/L	0.7767	mg/L	14:07:52

Mean Data: 1307053-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2625572.0	0.972	mg/L	0.0003				0.03%
Ag 328.068†	-1933.8	0.0014	mg/L	0.00024	0.0014	mg/L	0.00024	17.49%
Al 237.313†	1834929.9	203.1	mg/L	0.06	203.1	mg/L	0.06	0.03%
As 188.979†	255.4	0.1898	mg/L	0.00043	0.1898	mg/L	0.00043	0.23%
B 249.677†	-72.9	-0.0393	mg/L	0.01041	-0.0393	mg/L	0.01041	26.51%
B 182.528†	40.6	0.0434	mg/L	0.00770	0.0434	mg/L	0.00770	17.74%
Ba 233.527†	38572.8	0.3392	mg/L	0.00241	0.3392	mg/L	0.00241	0.71%
Be 313.107†	16309.6	0.0070	mg/L	0.00009	0.0070	mg/L	0.00009	1.33%
Ca 315.887†	788798.9	8.635	mg/L	0.0076	8.635	mg/L	0.0076	0.09%
Cd 228.802†	144.4	-0.0015	mg/L	0.00011	-0.0015	mg/L	0.00011	7.75%
Co 228.616†	15472.2	0.3044	mg/L	0.00072	0.3044	mg/L	0.00072	0.24%
Cr 267.716†	25989.9	0.2299	mg/L	0.00132	0.2299	mg/L	0.00132	0.57%
Cu 324.752†	74429.7	0.4077	mg/L	0.00408	0.4077	mg/L	0.00408	1.00%
Fe 234.349†	616281.0	411.0	mg/L	0.34	411.0	mg/L	0.34	0.08%

K 766.490†	16558.4	9.198 mg/L	0.0612	9.198 mg/L	0.0612	0.67%
Li 670.784†	15334.8	0.4259 mg/L	0.00154	0.4259 mg/L	0.00154	0.36%
Mg 279.077†	722589.5	58.26 mg/L	0.052	58.26 mg/L	0.052	0.09%
Mn 257.610†	4110033.6	5.197 mg/L	0.0010	5.197 mg/L	0.0010	0.02%
Mn 294.920†	2100419.9	5.479 mg/L	0.0035	5.479 mg/L	0.0035	0.06%
Mo 202.031†	204.4	-0.0527 mg/L	0.00277	-0.0527 mg/L	0.00277	5.26%
Na 589.592†	3460.4	0.7428 mg/L	0.00193	0.7428 mg/L	0.00193	0.26%
Ni 231.604†	15735.4	0.3524 mg/L	0.00047	0.3524 mg/L	0.00047	0.13%
P 214.914†	13579.8	8.548 mg/L	0.0033	8.548 mg/L	0.0033	0.04%
Pb 220.353†	2747.3	0.1523 mg/L	0.00326	0.1523 mg/L	0.00326	2.14%
Sb 206.836†	93.6	-0.0714 mg/L	0.00505	-0.0714 mg/L	0.00505	7.07%
Se 196.026†	-103.0	-0.1477 mg/L	0.00702	-0.1477 mg/L	0.00702	4.75%
Sn 189.927†	-190.6	-0.0243 mg/L	0.00507	-0.0243 mg/L	0.00507	20.86%
Sr 407.771†	90268.3	0.1056 mg/L	0.00005	0.1056 mg/L	0.00005	0.04%
Ti 337.279†	2073342.1	2.425 mg/L	0.0001	2.425 mg/L	0.0001	0.00%
Tl 190.801†	-32.4	-0.2783 mg/L	0.00467	-0.2783 mg/L	0.00467	1.68%
V 292.402†	68734.4	0.3128 mg/L	0.00245	0.3128 mg/L	0.00245	0.78%
Zn 213.857†	108794.6	0.7818 mg/L	0.00718	0.7818 mg/L	0.00718	0.92%

Sequence No.: 20
Sample ID: 1307053-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 7/5/2013 2:11:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-117.0	-116.4	-0.0635 mg/L	-0.0635 mg/L	14:12:56
1	Fe 234.349†	685528.5	720085.9	480.2 mg/L	480.2 mg/L	14:12:53
1	K 766.490†	17126.9	17172.6	9.533 mg/L	9.533 mg/L	14:12:56
1	Li 670.784†	17906.0	19044.4	0.5279 mg/L	0.5279 mg/L	14:12:56
1	Na 589.592†	4220.0	3953.0	0.8325 mg/L	0.8325 mg/L	14:12:56
1	Sr 407.771†	96417.8	101208.6	0.1184 mg/L	0.1184 mg/L	14:12:53
1	Y 371.029	2571386.6	2571386.6	0.952 mg/L		14:13:06
1	Ag 328.068†	-156.2	-2029.2	0.0026 mg/L	0.0026 mg/L	14:13:08
1	Al 237.313†	1893099.4	1988979.6	220.1 mg/L	220.1 mg/L	14:13:06
1	As 188.979†	296.4	317.9	0.2352 mg/L	0.2352 mg/L	14:13:18
1	B 182.528†	26.3	37.2	0.0399 mg/L	0.0399 mg/L	14:13:18
1	Ba 233.527†	38467.8	40504.4	0.3560 mg/L	0.3560 mg/L	14:13:08
1	Be 313.107†	11067.4	13063.4	0.0057 mg/L	0.0057 mg/L	14:13:08
1	Ca 315.887†	1567671.3	1648588.6	18.01 mg/L	18.01 mg/L	14:13:06
1	Cd 228.802†	320.4	177.5	-0.0016 mg/L	-0.0016 mg/L	14:13:18
1	Co 228.616†	10099.8	10850.8	0.2131 mg/L	0.2131 mg/L	14:13:18
1	Cr 267.716†	29955.1	30899.2	0.2727 mg/L	0.2727 mg/L	14:13:08
1	Cu 324.752†	63040.2	61415.8	0.3370 mg/L	0.3370 mg/L	14:13:08
1	Mg 279.077†	839664.6	881996.9	71.11 mg/L	71.11 mg/L	14:13:06
1	Mn 257.610†	4015918.9	4202328.4	5.300 mg/L	5.300 mg/L	14:13:06
1	Mn 294.920†	2054682.7	2159611.8	5.634 mg/L	5.634 mg/L	14:13:06
1	Mo 202.031†	306.4	285.9	-0.0592 mg/L	-0.0592 mg/L	14:13:08
1	Ni 231.604†	17290.6	18004.4	0.4030 mg/L	0.4030 mg/L	14:13:08
1	P 214.914†	15323.6	16123.3	10.14 mg/L	10.14 mg/L	14:13:18
1	Pb 220.353†	4118.2	4143.7	0.2471 mg/L	0.2471 mg/L	14:13:18
1	Sb 206.836†	152.5	112.3	-0.0828 mg/L	-0.0828 mg/L	14:13:18
1	Se 196.026†	-107.9	-124.3	-0.1762 mg/L	-0.1762 mg/L	14:13:18
1	Sn 189.927†	-284.2	-327.8	-0.0388 mg/L	-0.0388 mg/L	14:13:18
1	Ti 337.279†	1537527.4	1615669.1	1.891 mg/L	1.891 mg/L	14:13:06
1	Tl 190.801†	-35.4	-32.4	-0.3201 mg/L	-0.3201 mg/L	14:13:18
1	V 292.402†	80922.5	85350.9	0.3896 mg/L	0.3896 mg/L	14:13:08
1	Zn 213.857†	120190.6	125105.1	0.8984 mg/L	0.8984 mg/L	14:13:08
2	B 249.677†	-103.1	-100.7	-0.0547 mg/L	-0.0547 mg/L	14:13:00
2	Fe 234.349†	687582.9	714996.3	476.8 mg/L	476.8 mg/L	14:12:58
2	K 766.490†	17021.0	16882.0	9.375 mg/L	9.375 mg/L	14:13:00
2	Li 670.784†	17696.6	18638.0	0.5167 mg/L	0.5167 mg/L	14:13:00
2	Na 589.592†	4222.4	3911.1	0.8248 mg/L	0.8248 mg/L	14:13:00
2	Sr 407.771†	97013.0	100811.2	0.1179 mg/L	0.1179 mg/L	14:12:58
2	Y 371.029	2597451.5	2597451.5	0.962 mg/L		14:13:22
2	Ag 328.068†	-239.9	-2114.6	0.0021 mg/L	0.0021 mg/L	14:13:24
2	Al 237.313†	1913087.9	1989810.5	220.2 mg/L	220.2 mg/L	14:13:22
2	As 188.979†	310.9	329.9	0.2439 mg/L	0.2439 mg/L	14:13:34
2	B 182.528†	29.0	39.8	0.0426 mg/L	0.0426 mg/L	14:13:34

2	Ba	233.527†	37648.8	39247.2	0.3451 mg/L	0.3451 mg/L	14:13:24
2	Be	313.107†	10733.0	12599.0	0.0055 mg/L	0.0055 mg/L	14:13:24
2	Ca	315.887†	1583485.8	1648509.4	18.00 mg/L	18.00 mg/L	14:13:22
2	Cd	228.802†	301.8	154.8	-0.0023 mg/L	-0.0023 mg/L	14:13:34
2	Co	228.616†	10167.7	10814.9	0.2123 mg/L	0.2123 mg/L	14:13:34
2	Cr	267.716†	29331.4	29934.8	0.2643 mg/L	0.2643 mg/L	14:13:24
2	Cu	324.752†	61718.2	59376.6	0.3260 mg/L	0.3260 mg/L	14:13:24
2	Mg	279.077†	848975.9	882828.8	71.18 mg/L	71.18 mg/L	14:13:22
2	Mn	257.610†	4059456.9	4205271.8	5.304 mg/L	5.304 mg/L	14:13:22
2	Mn	294.920†	2077593.8	2161778.6	5.639 mg/L	5.639 mg/L	14:13:22
2	Mo	202.031†	314.7	291.3	-0.0584 mg/L	-0.0584 mg/L	14:13:24
2	Ni	231.604†	16851.1	17365.0	0.3887 mg/L	0.3887 mg/L	14:13:24
2	P	214.914†	15378.9	16019.3	10.08 mg/L	10.08 mg/L	14:13:34
2	Pb	220.353†	4138.8	4121.7	0.2456 mg/L	0.2456 mg/L	14:13:34
2	Sb	206.836†	157.1	115.5	-0.0802 mg/L	-0.0802 mg/L	14:13:34
2	Se	196.026†	-109.5	-124.8	-0.1758 mg/L	-0.1758 mg/L	14:13:34
2	Sn	189.927†	-269.6	-309.7	-0.0361 mg/L	-0.0361 mg/L	14:13:34
2	Ti	337.279†	1554640.6	1617258.1	1.893 mg/L	1.893 mg/L	14:13:22
2	Tl	190.801†	-31.7	-28.1	-0.3139 mg/L	-0.3139 mg/L	14:13:34
2	V	292.402†	79223.1	82730.7	0.3777 mg/L	0.3777 mg/L	14:13:24
2	Zn	213.857†	117538.5	121080.4	0.8690 mg/L	0.8690 mg/L	14:13:24

Mean Data: 1307053-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2584419.0	0.957 mg/L		0.0068			0.71%
Ag 328.068†	-2071.9	0.0023 mg/L		0.00040	0.0023 mg/L	0.00040	16.97%
Al 237.313†	1989395.1	220.2 mg/L		0.07	220.2 mg/L	0.07	0.03%
As 188.979†	323.9	0.2396 mg/L		0.00618	0.2396 mg/L	0.00618	2.58%
B 249.677†	-108.5	-0.0591 mg/L		0.00618	-0.0591 mg/L	0.00618	10.46%
B 182.528†	38.5	0.0412 mg/L		0.00193	0.0412 mg/L	0.00193	4.67%
Ba 233.527†	39875.8	0.3505 mg/L		0.00774	0.3505 mg/L	0.00774	2.21%
Be 313.107†	12831.2	0.0056 mg/L		0.00015	0.0056 mg/L	0.00015	2.60%
Ca 315.887†	1648549.0	18.00 mg/L		0.001	18.00 mg/L	0.001	0.00%
Cd 228.802†	166.2	-0.0019 mg/L		0.00046	-0.0019 mg/L	0.00046	23.73%
Co 228.616†	10832.9	0.2127 mg/L		0.00051	0.2127 mg/L	0.00051	0.24%
Cr 267.716†	30417.0	0.2685 mg/L		0.00594	0.2685 mg/L	0.00594	2.21%
Cu 324.752†	60396.2	0.3315 mg/L		0.00775	0.3315 mg/L	0.00775	2.34%
Fe 234.349†	717541.1	478.5 mg/L		2.40	478.5 mg/L	2.40	0.50%
K 766.490†	17027.3	9.454 mg/L		0.1120	9.454 mg/L	0.1120	1.18%
Li 670.784†	18841.2	0.5223 mg/L		0.00790	0.5223 mg/L	0.00790	1.51%
Mg 279.077†	882412.9	71.14 mg/L		0.047	71.14 mg/L	0.047	0.07%
Mn 257.610†	4203800.1	5.302 mg/L		0.0032	5.302 mg/L	0.0032	0.06%
Mn 294.920†	2160695.2	5.636 mg/L		0.0040	5.636 mg/L	0.0040	0.07%
Mo 202.031†	288.6	-0.0588 mg/L		0.00057	-0.0588 mg/L	0.00057	0.96%
Na 589.592†	3932.0	0.8286 mg/L		0.00540	0.8286 mg/L	0.00540	0.65%
Ni 231.604†	17684.7	0.3959 mg/L		0.01008	0.3959 mg/L	0.01008	2.55%
P 214.914†	16071.3	10.11 mg/L		0.046	10.11 mg/L	0.046	0.46%
Pb 220.353†	4132.7	0.2463 mg/L		0.00111	0.2463 mg/L	0.00111	0.45%
Sb 206.836†	113.9	-0.0815 mg/L		0.00179	-0.0815 mg/L	0.00179	2.20%
Se 196.026†	-124.5	-0.1760 mg/L		0.00023	-0.1760 mg/L	0.00023	0.13%
Sn 189.927†	-318.8	-0.0375 mg/L		0.00190	-0.0375 mg/L	0.00190	5.08%
Sr 407.771†	101009.9	0.1181 mg/L		0.00033	0.1181 mg/L	0.00033	0.28%
Ti 337.279†	1616463.6	1.892 mg/L		0.0013	1.892 mg/L	0.0013	0.07%
Tl 190.801†	-30.3	-0.3170 mg/L		0.00439	-0.3170 mg/L	0.00439	1.38%
V 292.402†	84040.8	0.3836 mg/L		0.00844	0.3836 mg/L	0.00844	2.20%
Zn 213.857†	123092.8	0.8837 mg/L		0.02075	0.8837 mg/L	0.02075	2.35%

Sequence No.: 21
Sample ID: 1307053-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 7/5/2013 2:16:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-105.7	-103.8	-0.0565 mg/L	-0.0565 mg/L	14:18:22
1	Fe 234.349†	796089.1	830548.7	553.8 mg/L	553.8 mg/L	14:18:20
1	K 766.490†	19026.7	19032.6	10.55 mg/L	10.55 mg/L	14:18:22

1	Li 670.784†	19954.5	21054.0	0.5831 mg/L	0.5831 mg/L	14:18:22
1	Na 589.592†	4797.7	4525.7	0.9367 mg/L	0.9367 mg/L	14:18:22
1	Sr 407.771†	118293.4	123344.3	0.1442 mg/L	0.1442 mg/L	14:18:20
1	Y 371.029	2588947.8	2588947.8	0.959 mg/L		14:18:32
1	Ag 328.068†	-283.3	-2160.7	0.0037 mg/L	0.0037 mg/L	14:18:34
1	Al 237.313†	2079286.6	2169739.2	240.1 mg/L	240.1 mg/L	14:18:32
1	As 188.979†	347.2	368.9	0.2723 mg/L	0.2723 mg/L	14:18:45
1	B 182.528†	28.6	39.4	0.0422 mg/L	0.0422 mg/L	14:18:45
1	Ba 233.527†	44374.8	46393.0	0.4073 mg/L	0.4073 mg/L	14:18:34
1	Be 313.107†	11958.3	13914.1	0.0060 mg/L	0.0060 mg/L	14:18:34
1	Ca 315.887†	1781155.1	1860145.3	20.31 mg/L	20.31 mg/L	14:18:32
1	Cd 228.802†	301.7	155.7	-0.0035 mg/L	-0.0035 mg/L	14:18:45
1	Co 228.616†	10214.4	10898.4	0.2135 mg/L	0.2135 mg/L	14:18:45
1	Cr 267.716†	32991.3	33853.4	0.2985 mg/L	0.2985 mg/L	14:18:34
1	Cu 324.752†	75341.5	73800.6	0.4039 mg/L	0.4039 mg/L	14:18:34
1	Mg 279.077†	906605.3	945853.1	76.25 mg/L	76.25 mg/L	14:18:32
1	Mn 257.610†	4323726.0	4494848.0	5.659 mg/L	5.659 mg/L	14:18:32
1	Mn 294.920†	2215716.7	2312977.9	6.033 mg/L	6.033 mg/L	14:18:32
1	Mo 202.031†	398.7	380.0	-0.0667 mg/L	-0.0667 mg/L	14:18:34
1	Ni 231.604†	17832.5	18446.5	0.4128 mg/L	0.4128 mg/L	14:18:34
1	P 214.914†	15991.8	16711.3	10.51 mg/L	10.51 mg/L	14:18:45
1	Pb 220.353†	4291.9	4295.5	0.2537 mg/L	0.2537 mg/L	14:18:45
1	Sb 206.836†	168.0	127.4	-0.0970 mg/L	-0.0970 mg/L	14:18:45
1	Se 196.026†	-126.2	-142.6	-0.2035 mg/L	-0.2035 mg/L	14:18:45
1	Sn 189.927†	-294.8	-336.9	-0.0387 mg/L	-0.0387 mg/L	14:18:45
1	Ti 337.279†	1759330.8	1836120.3	2.148 mg/L	2.148 mg/L	14:18:32
1	Tl 190.801†	-34.3	-31.0	-0.3629 mg/L	-0.3629 mg/L	14:18:45
1	V 292.402†	81729.8	85616.6	0.3904 mg/L	0.3904 mg/L	14:18:34
1	Zn 213.857†	126010.8	130321.0	0.9333 mg/L	0.9333 mg/L	14:18:34
2	B 249.677†	-125.1	-124.5	-0.0680 mg/L	-0.0680 mg/L	14:18:26
2	Fe 234.349†	791521.0	828426.7	552.4 mg/L	552.4 mg/L	14:18:24
2	K 766.490†	18777.1	18835.0	10.44 mg/L	10.44 mg/L	14:18:26
2	Li 670.784†	19842.9	21003.9	0.5818 mg/L	0.5818 mg/L	14:18:26
2	Na 589.592†	4847.7	4594.1	0.9491 mg/L	0.9491 mg/L	14:18:26
2	Sr 407.771†	117619.5	123034.1	0.1438 mg/L	0.1438 mg/L	14:18:24
2	Y 371.029	2580685.6	2580685.6	0.955 mg/L		14:18:48
2	Ag 328.068†	-381.2	-2264.1	0.0031 mg/L	0.0031 mg/L	14:18:51
2	Al 237.313†	2071960.7	2169016.7	240.1 mg/L	240.1 mg/L	14:18:48
2	As 188.979†	353.2	376.3	0.2777 mg/L	0.2777 mg/L	14:19:01
2	B 182.528†	30.2	41.1	0.0441 mg/L	0.0441 mg/L	14:19:01
2	Ba 233.527†	45136.3	47338.3	0.4156 mg/L	0.4156 mg/L	14:18:51
2	Be 313.107†	12175.3	14181.1	0.0061 mg/L	0.0061 mg/L	14:18:51
2	Ca 315.887†	1774805.1	1859448.5	20.30 mg/L	20.30 mg/L	14:18:48
2	Cd 228.802†	317.9	173.7	-0.0030 mg/L	-0.0030 mg/L	14:19:01
2	Co 228.616†	10149.6	10864.7	0.2128 mg/L	0.2128 mg/L	14:19:01
2	Cr 267.716†	33550.3	34548.7	0.3046 mg/L	0.3046 mg/L	14:18:51
2	Cu 324.752†	76744.1	75520.2	0.4132 mg/L	0.4132 mg/L	14:18:51
2	Mg 279.077†	903415.2	945542.4	76.23 mg/L	76.23 mg/L	14:18:48
2	Mn 257.610†	4309377.7	4494272.4	5.659 mg/L	5.659 mg/L	14:18:48
2	Mn 294.920†	2207986.6	2312288.0	6.032 mg/L	6.032 mg/L	14:18:48
2	Mo 202.031†	415.1	398.5	-0.0657 mg/L	-0.0657 mg/L	14:18:51
2	Ni 231.604†	18152.8	18841.3	0.4216 mg/L	0.4216 mg/L	14:18:51
2	P 214.914†	15892.7	16660.9	10.48 mg/L	10.48 mg/L	14:19:01
2	Pb 220.353†	4285.1	4302.8	0.2542 mg/L	0.2542 mg/L	14:19:01
2	Sb 206.836†	179.3	139.9	-0.0908 mg/L	-0.0908 mg/L	14:19:01
2	Se 196.026†	-113.4	-129.6	-0.1943 mg/L	-0.1943 mg/L	14:19:01
2	Sn 189.927†	-283.5	-326.1	-0.0371 mg/L	-0.0371 mg/L	14:19:01
2	Ti 337.279†	1754005.9	1836423.5	2.148 mg/L	2.148 mg/L	14:18:48
2	Tl 190.801†	-30.1	-26.7	-0.3579 mg/L	-0.3579 mg/L	14:19:01
2	V 292.402†	83120.0	87344.6	0.3983 mg/L	0.3983 mg/L	14:18:51
2	Zn 213.857†	128279.4	133116.2	0.9539 mg/L	0.9539 mg/L	14:18:51

Mean Data: 1307053-05

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Std.Dev.	
Y 371.029	2584816.7	0.957	mg/L	0.0022			0.23%
Ag 328.068†	-2212.4	0.0034	mg/L	0.00043	0.0034 mg/L	0.00043	12.52%
Al 237.313†	2169377.9	240.1	mg/L	0.06	240.1 mg/L	0.06	0.02%
As 188.979†	372.6	0.2750	mg/L	0.00383	0.2750 mg/L	0.00383	1.39%
B 249.677†	-114.2	-0.0622	mg/L	0.00812	-0.0622 mg/L	0.00812	13.05%
B 182.528†	40.3	0.0431	mg/L	0.00133	0.0431 mg/L	0.00133	3.08%
Ba 233.527†	46865.6	0.4114	mg/L	0.00582	0.4114 mg/L	0.00582	1.42%

Be 313.107†	14047.6	0.0061 mg/L	0.00008	0.0061 mg/L	0.00008	1.37%
Ca 315.887†	1859796.9	20.31 mg/L	0.005	20.31 mg/L	0.005	0.03%
Cd 228.802†	164.7	-0.0033 mg/L	0.00041	-0.0033 mg/L	0.00041	12.71%
Co 228.616†	10881.5	0.2131 mg/L	0.00048	0.2131 mg/L	0.00048	0.22%
Cr 267.716†	34201.1	0.3015 mg/L	0.00429	0.3015 mg/L	0.00429	1.42%
Cu 324.752†	74660.4	0.4086 mg/L	0.00654	0.4086 mg/L	0.00654	1.60%
Fe 234.349†	829487.7	553.1 mg/L	1.00	553.1 mg/L	1.00	0.18%
K 766.490†	18933.8	10.49 mg/L	0.076	10.49 mg/L	0.076	0.73%
Li 670.784†	21029.0	0.5825 mg/L	0.00097	0.5825 mg/L	0.00097	0.17%
Mg 279.077†	945697.7	76.24 mg/L	0.018	76.24 mg/L	0.018	0.02%
Mn 257.610†	4494560.2	5.659 mg/L	0.0003	5.659 mg/L	0.0003	0.01%
Mn 294.920†	2312632.9	6.033 mg/L	0.0013	6.033 mg/L	0.0013	0.02%
Mo 202.031†	389.2	-0.0662 mg/L	0.00067	-0.0662 mg/L	0.00067	1.01%
Na 589.592†	4559.9	0.9429 mg/L	0.00879	0.9429 mg/L	0.00879	0.93%
Ni 231.604†	18643.9	0.4172 mg/L	0.00622	0.4172 mg/L	0.00622	1.49%
P 214.914†	16686.1	10.49 mg/L	0.022	10.49 mg/L	0.022	0.21%
Pb 220.353†	4299.2	0.2540 mg/L	0.00037	0.2540 mg/L	0.00037	0.15%
Sb 206.836†	133.6	-0.0939 mg/L	0.00437	-0.0939 mg/L	0.00437	4.65%
Se 196.026†	-136.1	-0.1989 mg/L	0.00650	-0.1989 mg/L	0.00650	3.27%
Sn 189.927†	-331.5	-0.0379 mg/L	0.00113	-0.0379 mg/L	0.00113	2.98%
Sr 407.771†	123189.2	0.1440 mg/L	0.00026	0.1440 mg/L	0.00026	0.18%
Ti 337.279†	1836271.9	2.148 mg/L	0.0003	2.148 mg/L	0.0003	0.01%
Tl 190.801†	-28.8	-0.3604 mg/L	0.00356	-0.3604 mg/L	0.00356	0.99%
V 292.402†	86480.6	0.3944 mg/L	0.00557	0.3944 mg/L	0.00557	1.41%
Zn 213.857†	131718.6	0.9436 mg/L	0.01454	0.9436 mg/L	0.01454	1.54%

Sequence No.: 22
Sample ID: 1307053-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 7/5/2013 2:22:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-85.9	-80.6	-0.0436 mg/L	-0.0436 mg/L	-0.0436 mg/L	14:23:50
1	Fe 234.349†	656185.5	665951.9	444.1 mg/L	444.1 mg/L	444.1 mg/L	14:23:47
1	K 766.490†	14767.5	14169.6	7.897 mg/L	7.897 mg/L	7.897 mg/L	14:23:50
1	Li 670.784†	14891.9	15349.3	0.4263 mg/L	0.4263 mg/L	0.4263 mg/L	14:23:50
1	Na 589.592†	3521.4	3094.1	0.6762 mg/L	0.6762 mg/L	0.6762 mg/L	14:23:50
1	Sr 407.771†	96533.1	97900.3	0.1145 mg/L	0.1145 mg/L	0.1145 mg/L	14:23:47
1	Y 371.029	2661397.0	2661397.0	0.985 mg/L	0.985 mg/L	0.985 mg/L	14:24:00
1	Ag 328.068†	66.5	-1797.7	0.0030 mg/L	0.0030 mg/L	0.0030 mg/L	14:24:02
1	Al 237.313†	1739695.7	1766036.9	195.5 mg/L	195.5 mg/L	195.5 mg/L	14:24:00
1	As 188.979†	259.8	270.3	0.2006 mg/L	0.2006 mg/L	0.2006 mg/L	14:24:12
1	B 182.528†	26.7	36.7	0.0393 mg/L	0.0393 mg/L	0.0393 mg/L	14:24:12
1	Ba 233.527†	34846.1	35462.1	0.3121 mg/L	0.3121 mg/L	0.3121 mg/L	14:24:02
1	Be 313.107†	14224.9	15874.7	0.0069 mg/L	0.0069 mg/L	0.0069 mg/L	14:24:02
1	Ca 315.887†	887901.3	903001.1	9.879 mg/L	9.879 mg/L	9.879 mg/L	14:24:00
1	Cd 228.802†	296.8	142.2	-0.0021 mg/L	-0.0021 mg/L	-0.0021 mg/L	14:24:12
1	Co 228.616†	10910.5	11314.8	0.2222 mg/L	0.2222 mg/L	0.2222 mg/L	14:24:12
1	Cr 267.716†	26459.0	26286.9	0.2325 mg/L	0.2325 mg/L	0.2325 mg/L	14:24:02
1	Cu 324.752†	66751.4	62942.7	0.3453 mg/L	0.3453 mg/L	0.3453 mg/L	14:24:02
1	Mg 279.077†	725347.9	736147.7	59.35 mg/L	59.35 mg/L	59.35 mg/L	14:24:00
1	Mn 257.610†	3786037.2	3826353.4	4.824 mg/L	4.824 mg/L	4.824 mg/L	14:24:00
1	Mn 294.920†	1935020.6	1965172.9	5.126 mg/L	5.126 mg/L	5.126 mg/L	14:24:00
1	Mo 202.031†	276.7	244.9	-0.0556 mg/L	-0.0556 mg/L	-0.0556 mg/L	14:24:02
1	Ni 231.604†	15833.8	15911.5	0.3563 mg/L	0.3563 mg/L	0.3563 mg/L	14:24:12
1	P 214.914†	14345.5	14586.2	9.179 mg/L	9.179 mg/L	9.179 mg/L	14:24:12
1	Pb 220.353†	3247.9	3114.1	0.1796 mg/L	0.1796 mg/L	0.1796 mg/L	14:24:12
1	Sb 206.836†	147.5	101.8	-0.0770 mg/L	-0.0770 mg/L	-0.0770 mg/L	14:24:12
1	Se 196.026†	-101.7	-114.1	-0.1620 mg/L	-0.1620 mg/L	-0.1620 mg/L	14:24:12
1	Sn 189.927†	-177.3	-209.3	-0.0263 mg/L	-0.0263 mg/L	-0.0263 mg/L	14:24:12
1	Ti 337.279†	1646057.6	1671193.6	1.956 mg/L	1.956 mg/L	1.956 mg/L	14:24:00
1	Tl 190.801†	-28.5	-24.2	-0.2902 mg/L	-0.2902 mg/L	-0.2902 mg/L	14:24:12
1	V 292.402†	66311.5	67647.4	0.3088 mg/L	0.3088 mg/L	0.3088 mg/L	14:24:02
1	Zn 213.857†	115791.8	116371.0	0.8361 mg/L	0.8361 mg/L	0.8361 mg/L	14:24:02
2	B 249.677†	-106.8	-101.9	-0.0554 mg/L	-0.0554 mg/L	-0.0554 mg/L	14:23:54
2	Fe 234.349†	671074.9	681411.1	454.4 mg/L	454.4 mg/L	454.4 mg/L	14:23:52
2	K 766.490†	14819.2	14229.8	7.929 mg/L	7.929 mg/L	7.929 mg/L	14:23:54
2	Li 670.784†	15002.9	15469.7	0.4297 mg/L	0.4297 mg/L	0.4297 mg/L	14:23:54

2	Na 589.592†	3571.3	3146.6	0.6857 mg/L	0.6857 mg/L	14:23:54
2	Sr 407.771†	98655.1	100105.0	0.1171 mg/L	0.1171 mg/L	14:23:52
2	Y 371.029	2660037.5	2660037.5	0.985 mg/L		14:24:16
2	Ag 328.068†	-76.3	-1942.6	0.0024 mg/L	0.0024 mg/L	14:24:18
2	Al 237.313†	1741402.6	1768672.5	195.7 mg/L	195.7 mg/L	14:24:16
2	As 188.979†	256.3	266.9	0.1981 mg/L	0.1981 mg/L	14:24:28
2	B 182.528†	29.0	39.0	0.0418 mg/L	0.0418 mg/L	14:24:28
2	Ba 233.527†	35353.0	35994.9	0.3167 mg/L	0.3167 mg/L	14:24:18
2	Be 313.107†	14477.5	16138.7	0.0070 mg/L	0.0070 mg/L	14:24:18
2	Ca 315.887†	890033.6	905626.8	9.908 mg/L	9.908 mg/L	14:24:16
2	Cd 228.802†	305.7	151.4	-0.0020 mg/L	-0.0020 mg/L	14:24:28
2	Co 228.616†	10918.8	11328.9	0.2225 mg/L	0.2225 mg/L	14:24:28
2	Cr 267.716†	26818.1	26665.2	0.2358 mg/L	0.2358 mg/L	14:24:18
2	Cu 324.752†	67764.7	64006.2	0.3510 mg/L	0.3510 mg/L	14:24:18
2	Mg 279.077†	726799.3	737997.7	59.50 mg/L	59.50 mg/L	14:24:16
2	Mn 257.610†	3790455.3	3832803.5	4.830 mg/L	4.830 mg/L	14:24:16
2	Mn 294.920†	1937560.8	1968756.0	5.136 mg/L	5.136 mg/L	14:24:16
2	Mo 202.031†	310.7	279.6	-0.0557 mg/L	-0.0557 mg/L	14:24:18
2	Ni 231.604†	15877.7	15964.4	0.3575 mg/L	0.3575 mg/L	14:24:28
2	P 214.914†	14380.6	14629.3	9.206 mg/L	9.206 mg/L	14:24:28
2	Pb 220.353†	3200.4	3067.7	0.1763 mg/L	0.1763 mg/L	14:24:28
2	Sb 206.836†	142.2	96.6	-0.0824 mg/L	-0.0824 mg/L	14:24:28
2	Se 196.026†	-111.3	-124.0	-0.1708 mg/L	-0.1708 mg/L	14:24:28
2	Sn 189.927†	-170.4	-202.4	-0.0252 mg/L	-0.0252 mg/L	14:24:28
2	Ti 337.279†	1647909.1	1673927.5	1.959 mg/L	1.959 mg/L	14:24:16
2	Tl 190.801†	-31.2	-26.9	-0.2990 mg/L	-0.2990 mg/L	14:24:28
2	V 292.402†	67315.5	68701.2	0.3136 mg/L	0.3136 mg/L	14:24:18
2	Zn 213.857†	117797.1	118467.3	0.8510 mg/L	0.8510 mg/L	14:24:18

Mean Data: 1307053-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2660717.2	0.985 mg/L		0.0004			0.04%
Ag 328.068†	-1870.2	0.0027 mg/L		0.00038	0.0027 mg/L	0.00038	14.21%
Al 237.313†	1767354.7	195.6 mg/L		0.21	195.6 mg/L	0.21	0.11%
As 188.979†	268.6	0.1994 mg/L		0.00179	0.1994 mg/L	0.00179	0.90%
B 249.677†	-91.3	-0.0495 mg/L		0.00838	-0.0495 mg/L	0.00838	16.93%
B 182.528†	37.9	0.0405 mg/L		0.00179	0.0405 mg/L	0.00179	4.42%
Ba 233.527†	35728.5	0.3144 mg/L		0.00328	0.3144 mg/L	0.00328	1.04%
Be 313.107†	16006.7	0.0070 mg/L		0.00008	0.0070 mg/L	0.00008	1.17%
Ca 315.887†	904314.0	9.894 mg/L		0.0203	9.894 mg/L	0.0203	0.20%
Cd 228.802†	146.8	-0.0020 mg/L		0.00008	-0.0020 mg/L	0.00008	3.91%
Co 228.616†	11321.8	0.2223 mg/L		0.00019	0.2223 mg/L	0.00019	0.09%
Cr 267.716†	26476.0	0.2342 mg/L		0.00233	0.2342 mg/L	0.00233	1.00%
Cu 324.752†	63474.5	0.3482 mg/L		0.00405	0.3482 mg/L	0.00405	1.16%
Fe 234.349†	673681.5	449.2 mg/L		7.29	449.2 mg/L	7.29	1.62%
K 766.490†	14199.7	7.913 mg/L		0.0232	7.913 mg/L	0.0232	0.29%
Li 670.784†	15409.5	0.4280 mg/L		0.00234	0.4280 mg/L	0.00234	0.55%
Mg 279.077†	737072.7	59.43 mg/L		0.105	59.43 mg/L	0.105	0.18%
Mn 257.610†	3829578.5	4.827 mg/L		0.0042	4.827 mg/L	0.0042	0.09%
Mn 294.920†	1966964.4	5.131 mg/L		0.0066	5.131 mg/L	0.0066	0.13%
Mo 202.031†	262.2	-0.0557 mg/L		0.00007	-0.0557 mg/L	0.00007	0.13%
Na 589.592†	3120.3	0.6810 mg/L		0.00676	0.6810 mg/L	0.00676	0.99%
Ni 231.604†	15938.0	0.3569 mg/L		0.00083	0.3569 mg/L	0.00083	0.23%
P 214.914†	14607.7	9.192 mg/L		0.0191	9.192 mg/L	0.0191	0.21%
Pb 220.353†	3090.9	0.1779 mg/L		0.00236	0.1779 mg/L	0.00236	1.32%
Sb 206.836†	99.2	-0.0797 mg/L		0.00383	-0.0797 mg/L	0.00383	4.81%
Se 196.026†	-119.0	-0.1664 mg/L		0.00624	-0.1664 mg/L	0.00624	3.75%
Sn 189.927†	-205.8	-0.0258 mg/L		0.00073	-0.0258 mg/L	0.00073	2.85%
Sr 407.771†	99002.7	0.1158 mg/L		0.00182	0.1158 mg/L	0.00182	1.57%
Ti 337.279†	1672560.5	1.957 mg/L		0.0023	1.957 mg/L	0.0023	0.12%
Tl 190.801†	-25.5	-0.2946 mg/L		0.00627	-0.2946 mg/L	0.00627	2.13%
V 292.402†	68174.3	0.3112 mg/L		0.00340	0.3112 mg/L	0.00340	1.09%
Zn 213.857†	117419.1	0.8435 mg/L		0.01057	0.8435 mg/L	0.01057	1.25%

Sequence No.: 23
Sample ID: 1307053-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 7/5/2013 2:27:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-95.2	-90.6	-0.0490	mg/L	-0.0490	mg/L	14:29:18
1	Fe 234.349†	645192.1	658217.1	438.9	mg/L	438.9	mg/L	14:29:15
1	K 766.490†	18513.6	18069.7	10.02	mg/L	10.02	mg/L	14:29:18
1	Li 670.784†	15003.1	15541.7	0.4316	mg/L	0.4316	mg/L	14:29:18
1	Na 589.592†	3810.5	3407.7	0.7332	mg/L	0.7332	mg/L	14:29:18
1	Sr 407.771†	104033.2	106063.9	0.1240	mg/L	0.1240	mg/L	14:29:15
1	Y 371.029	2647559.6	2647559.6	0.980	mg/L			14:29:28
1	Ag 328.068†	13.3	-1851.6	0.0026	mg/L	0.0026	mg/L	14:29:30
1	Al 237.313†	1823525.2	1860787.5	205.9	mg/L	205.9	mg/L	14:29:28
1	As 188.979†	261.2	273.1	0.2027	mg/L	0.2027	mg/L	14:29:40
1	B 182.528†	28.4	38.5	0.0412	mg/L	0.0412	mg/L	14:29:40
1	Ba 233.527†	41025.6	41951.3	0.3686	mg/L	0.3686	mg/L	14:29:30
1	Be 313.107†	13060.8	14762.6	0.0063	mg/L	0.0063	mg/L	14:29:30
1	Ca 315.887†	1070122.3	1093612.4	11.96	mg/L	11.96	mg/L	14:29:28
1	Cd 228.802†	275.8	122.3	-0.0026	mg/L	-0.0026	mg/L	14:29:40
1	Co 228.616†	10609.5	11065.6	0.2161	mg/L	0.2161	mg/L	14:29:40
1	Cr 267.716†	27905.2	27902.6	0.2467	mg/L	0.2467	mg/L	14:29:30
1	Cu 324.752†	63805.7	60291.6	0.3316	mg/L	0.3316	mg/L	14:29:30
1	Mg 279.077†	749318.2	764449.6	61.63	mg/L	61.63	mg/L	14:29:28
1	Mn 257.610†	3666094.6	3724070.6	4.694	mg/L	4.694	mg/L	14:29:28
1	Mn 294.920†	1872932.5	1912094.6	4.988	mg/L	4.988	mg/L	14:29:28
1	Mo 202.031†	1804.5	1805.0	0.0115	mg/L	0.0115	mg/L	14:29:30
1	Ni 231.604†	15701.1	15860.2	0.3553	mg/L	0.3553	mg/L	14:29:40
1	P 214.914†	13563.8	13864.8	8.727	mg/L	8.727	mg/L	14:29:40
1	Pb 220.353†	3648.7	3540.3	0.2077	mg/L	0.2077	mg/L	14:29:40
1	Sb 206.836†	150.8	106.0	-0.0731	mg/L	-0.0731	mg/L	14:29:40
1	Se 196.026†	-104.6	-117.6	-0.1633	mg/L	-0.1633	mg/L	14:29:40
1	Sn 189.927†	-187.2	-220.3	-0.0266	mg/L	-0.0266	mg/L	14:29:40
1	Ti 337.279†	2087699.4	2130487.0	2.492	mg/L	2.492	mg/L	14:29:28
1	Tl 190.801†	-25.5	-21.2	-0.2842	mg/L	-0.2842	mg/L	14:29:40
1	V 292.402†	69827.3	71586.0	0.3267	mg/L	0.3267	mg/L	14:29:30
1	Zn 213.857†	113958.2	115114.6	0.8271	mg/L	0.8271	mg/L	14:29:30
2	B 249.677†	-89.1	-84.7	-0.0457	mg/L	-0.0457	mg/L	14:29:22
2	Fe 234.349†	643805.6	658948.1	439.4	mg/L	439.4	mg/L	14:29:20
2	K 766.490†	18685.6	18307.4	10.15	mg/L	10.15	mg/L	14:29:22
2	Li 670.784†	15134.9	15726.6	0.4367	mg/L	0.4367	mg/L	14:29:22
2	Na 589.592†	3828.9	3439.3	0.7390	mg/L	0.7390	mg/L	14:29:22
2	Sr 407.771†	103805.5	106177.6	0.1242	mg/L	0.1242	mg/L	14:29:20
2	Y 371.029	2638939.0	2638939.0	0.977	mg/L			14:29:44
2	Ag 328.068†	-75.6	-1942.5	0.0021	mg/L	0.0021	mg/L	14:29:46
2	Al 237.313†	1819955.5	1863211.0	206.2	mg/L	206.2	mg/L	14:29:44
2	As 188.979†	258.6	271.4	0.2014	mg/L	0.2014	mg/L	14:29:56
2	B 182.528†	27.2	37.4	0.0400	mg/L	0.0400	mg/L	14:29:56
2	Ba 233.527†	40292.7	41337.9	0.3633	mg/L	0.3633	mg/L	14:29:46
2	Be 313.107†	12841.5	14581.7	0.0062	mg/L	0.0062	mg/L	14:29:46
2	Ca 315.887†	1069345.7	1096383.8	11.99	mg/L	11.99	mg/L	14:29:44
2	Cd 228.802†	300.9	148.9	-0.0018	mg/L	-0.0018	mg/L	14:29:56
2	Co 228.616†	10601.8	11093.0	0.2166	mg/L	0.2166	mg/L	14:29:56
2	Cr 267.716†	27323.5	27400.3	0.2423	mg/L	0.2423	mg/L	14:29:46
2	Cu 324.752†	62873.1	59549.6	0.3277	mg/L	0.3277	mg/L	14:29:46
2	Mg 279.077†	748614.1	766226.1	61.78	mg/L	61.78	mg/L	14:29:44
2	Mn 257.610†	3659195.1	3729226.5	4.700	mg/L	4.700	mg/L	14:29:44
2	Mn 294.920†	1869343.6	1914663.2	4.995	mg/L	4.995	mg/L	14:29:44
2	Mo 202.031†	1729.1	1733.9	0.0085	mg/L	0.0085	mg/L	14:29:46
2	Ni 231.604†	15646.4	15856.5	0.3552	mg/L	0.3552	mg/L	14:29:56
2	P 214.914†	13500.4	13845.1	8.714	mg/L	8.714	mg/L	14:29:56
2	Pb 220.353†	3718.0	3623.3	0.2135	mg/L	0.2135	mg/L	14:29:56
2	Sb 206.836†	148.7	104.4	-0.0740	mg/L	-0.0740	mg/L	14:29:56
2	Se 196.026†	-90.4	-103.4	-0.1537	mg/L	-0.1537	mg/L	14:29:56
2	Sn 189.927†	-189.7	-223.4	-0.0271	mg/L	-0.0271	mg/L	14:29:56
2	Ti 337.279†	2082085.4	2131698.4	2.493	mg/L	2.493	mg/L	14:29:44
2	Tl 190.801†	-23.8	-19.5	-0.2828	mg/L	-0.2828	mg/L	14:29:56
2	V 292.402†	68579.6	70541.7	0.3219	mg/L	0.3219	mg/L	14:29:46
2	Zn 213.857†	112017.0	113507.4	0.8152	mg/L	0.8152	mg/L	14:29:46

Mean Data: 1307053-07

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 371.029	2643249.3	0.979 mg/L	0.0023			0.0023 mg/L	0.00035	15.09%
Ag 328.068†	-1897.0	0.0023 mg/L	0.00035		0.0023 mg/L		0.00035	15.09%
Al 237.313†	1861999.2	206.1 mg/L	0.19		206.1 mg/L		0.19	0.09%
As 188.979†	272.2	0.2020 mg/L	0.00091		0.2020 mg/L		0.00091	0.45%
B 249.677†	-87.7	-0.0474 mg/L	0.00233		-0.0474 mg/L		0.00233	4.91%
B 182.528†	37.9	0.0406 mg/L	0.00084		0.0406 mg/L		0.00084	2.06%
Ba 233.527†	41644.6	0.3660 mg/L	0.00378		0.3660 mg/L		0.00378	1.03%
Be 313.107†	14672.1	0.0063 mg/L	0.00006		0.0063 mg/L		0.00006	0.91%
Ca 315.887†	1094998.1	11.97 mg/L	0.021		11.97 mg/L		0.021	0.18%
Cd 228.802†	135.6	-0.0022 mg/L	0.00058		-0.0022 mg/L		0.00058	26.10%
Co 228.616†	11079.3	0.2164 mg/L	0.00038		0.2164 mg/L		0.00038	0.18%
Cr 267.716†	27651.4	0.2445 mg/L	0.00310		0.2445 mg/L		0.00310	1.27%
Cu 324.752†	59920.6	0.3297 mg/L	0.00282		0.3297 mg/L		0.00282	0.86%
Fe 234.349†	658582.6	439.2 mg/L	0.34		439.2 mg/L		0.34	0.08%
K 766.490†	18188.6	10.09 mg/L	0.092		10.09 mg/L		0.092	0.91%
Li 670.784†	15634.2	0.4342 mg/L	0.00359		0.4342 mg/L		0.00359	0.83%
Mg 279.077†	765337.9	61.71 mg/L	0.101		61.71 mg/L		0.101	0.16%
Mn 257.610†	3726648.5	4.697 mg/L	0.0046		4.697 mg/L		0.0046	0.10%
Mn 294.920†	1913378.9	4.991 mg/L	0.0047		4.991 mg/L		0.0047	0.09%
Mo 202.031†	1769.4	0.0100 mg/L	0.00217		0.0100 mg/L		0.00217	21.74%
Na 589.592†	3423.5	0.7361 mg/L	0.00406		0.7361 mg/L		0.00406	0.55%
Ni 231.604†	15858.3	0.3552 mg/L	0.00006		0.3552 mg/L		0.00006	0.02%
P 214.914†	13855.0	8.720 mg/L	0.0087		8.720 mg/L		0.0087	0.10%
Pb 220.353†	3581.8	0.2106 mg/L	0.00410		0.2106 mg/L		0.00410	1.94%
Sb 206.836†	105.2	-0.0735 mg/L	0.00062		-0.0735 mg/L		0.00062	0.85%
Se 196.026†	-110.5	-0.1585 mg/L	0.00681		-0.1585 mg/L		0.00681	4.29%
Sn 189.927†	-221.9	-0.0269 mg/L	0.00031		-0.0269 mg/L		0.00031	1.17%
Sr 407.771†	106120.7	0.1241 mg/L	0.00009		0.1241 mg/L		0.00009	0.08%
Ti 337.279†	2131092.7	2.492 mg/L	0.0010		2.492 mg/L		0.0010	0.04%
Tl 190.801†	-20.4	-0.2835 mg/L	0.00096		-0.2835 mg/L		0.00096	0.34%
V 292.402†	71063.8	0.3243 mg/L	0.00340		0.3243 mg/L		0.00340	1.05%
Zn 213.857†	114311.0	0.8212 mg/L	0.00837		0.8212 mg/L		0.00837	1.02%

Sequence No.: 24
Sample ID: 1307053-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 7/5/2013 2:33:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-102.6	-98.5	-0.0536	mg/L	-0.0536	mg/L	14:34:45
1	Fe 234.349†	700973.9	717854.4	478.7	mg/L	478.7	mg/L	14:34:43
1	K 766.490†	19279.6	18926.2	10.49	mg/L	10.49	mg/L	14:34:45
1	Li 670.784†	16518.3	17151.8	0.4759	mg/L	0.4759	mg/L	14:34:45
1	Na 589.592†	5044.2	4686.0	0.9658	mg/L	0.9658	mg/L	14:34:45
1	Sr 407.771†	114558.5	117247.8	0.1371	mg/L	0.1371	mg/L	14:34:43
1	Y 371.029	2637495.2	2637495.2	0.976	mg/L			14:34:55
1	Ag 328.068†	-151.3	-2020.1	0.0026	mg/L	0.0026	mg/L	14:34:58
1	Al 237.313†	1972549.4	2020500.7	223.6	mg/L	223.6	mg/L	14:34:55
1	As 188.979†	260.5	273.4	0.2028	mg/L	0.2028	mg/L	14:35:08
1	B 182.528†	31.0	41.3	0.0443	mg/L	0.0443	mg/L	14:35:08
1	Ba 233.527†	40905.0	41987.5	0.3689	mg/L	0.3689	mg/L	14:34:58
1	Be 313.107†	14074.0	15851.0	0.0067	mg/L	0.0067	mg/L	14:34:58
1	Ca 315.887†	1053822.9	1081086.3	11.82	mg/L	11.82	mg/L	14:34:55
1	Cd 228.802†	310.6	159.1	-0.0022	mg/L	-0.0022	mg/L	14:35:08
1	Co 228.616†	10457.7	10951.4	0.2135	mg/L	0.2135	mg/L	14:35:08
1	Cr 267.716†	28877.1	29006.6	0.2562	mg/L	0.2562	mg/L	14:34:58
1	Cu 324.752†	66583.3	63384.5	0.3485	mg/L	0.3485	mg/L	14:34:58
1	Mg 279.077†	829791.3	849778.5	68.51	mg/L	68.51	mg/L	14:34:55
1	Mn 257.610†	3791101.6	3866361.1	4.868	mg/L	4.868	mg/L	14:34:55
1	Mn 294.920†	1942576.5	1990707.7	5.193	mg/L	5.193	mg/L	14:34:55
1	Mo 202.031†	243.1	213.0	-0.0622	mg/L	-0.0622	mg/L	14:34:58
1	Ni 231.604†	15950.4	16176.6	0.3622	mg/L	0.3622	mg/L	14:35:08
1	P 214.914†	14189.6	14558.5	9.162	mg/L	9.162	mg/L	14:35:08
1	Pb 220.353†	3784.1	3693.1	0.2146	mg/L	0.2146	mg/L	14:35:08
1	Sb 206.836†	157.8	113.7	-0.0816	mg/L	-0.0816	mg/L	14:35:08
1	Se 196.026†	-110.5	-124.0	-0.1757	mg/L	-0.1757	mg/L	14:35:08
1	Sn 189.927†	-190.0	-223.9	-0.0272	mg/L	-0.0272	mg/L	14:35:08
1	Ti 337.279†	2190362.3	2243750.5	2.624	mg/L	2.624	mg/L	14:34:55

1	Tl 190.801†	-21.5	-17.2	-0.3044	mg/L	-0.3044	mg/L	14:35:08
1	V 292.402†	75586.9	77756.1	0.3535	mg/L	0.3535	mg/L	14:34:58
1	Zn 213.857†	123287.0	125111.7	0.8988	mg/L	0.8988	mg/L	14:34:58
2	B 249.677†	-88.0	-83.4	-0.0451	mg/L	-0.0451	mg/L	14:34:50
2	Fe 234.349†	697946.1	712366.2	475.0	mg/L	475.0	mg/L	14:34:48
2	K 766.490†	19329.4	18911.1	10.48	mg/L	10.48	mg/L	14:34:50
2	Li 670.784†	16390.3	16964.7	0.4707	mg/L	0.4707	mg/L	14:34:50
2	Na 589.592†	5081.1	4706.4	0.9695	mg/L	0.9695	mg/L	14:34:50
2	Sr 407.771†	114046.2	116333.1	0.1360	mg/L	0.1360	mg/L	14:34:48
2	Y 371.029	2646334.4	2646334.4	0.980	mg/L			14:35:12
2	Ag 328.068†	-107.2	-1974.6	0.0028	mg/L	0.0028	mg/L	14:35:14
2	Al 237.313†	1980239.7	2021602.7	223.7	mg/L	223.7	mg/L	14:35:12
2	As 188.979†	263.0	275.1	0.2040	mg/L	0.2040	mg/L	14:35:24
2	B 182.528†	35.8	46.1	0.0494	mg/L	0.0494	mg/L	14:35:24
2	Ba 233.527†	41178.6	42126.9	0.3702	mg/L	0.3702	mg/L	14:35:14
2	Be 313.107†	14170.0	15900.9	0.0068	mg/L	0.0068	mg/L	14:35:14
2	Ca 315.887†	1057317.7	1081048.6	11.82	mg/L	11.82	mg/L	14:35:12
2	Cd 228.802†	305.4	152.6	-0.0023	mg/L	-0.0023	mg/L	14:35:24
2	Co 228.616†	10432.9	10890.3	0.2123	mg/L	0.2123	mg/L	14:35:24
2	Cr 267.716†	29080.4	29115.2	0.2572	mg/L	0.2572	mg/L	14:35:14
2	Cu 324.752†	66964.2	63545.5	0.3493	mg/L	0.3493	mg/L	14:35:14
2	Mg 279.077†	832644.4	849852.1	68.52	mg/L	68.52	mg/L	14:35:12
2	Mn 257.610†	3806186.4	3868789.8	4.872	mg/L	4.872	mg/L	14:35:12
2	Mn 294.920†	1950296.0	1991941.9	5.196	mg/L	5.196	mg/L	14:35:12
2	Mo 202.031†	253.2	222.5	-0.0612	mg/L	-0.0612	mg/L	14:35:14
2	Ni 231.604†	16000.9	16173.6	0.3622	mg/L	0.3622	mg/L	14:35:24
2	P 214.914†	14226.7	14547.9	9.155	mg/L	9.155	mg/L	14:35:24
2	Pb 220.353†	3780.9	3676.9	0.2135	mg/L	0.2135	mg/L	14:35:24
2	Sb 206.836†	157.6	113.0	-0.0809	mg/L	-0.0809	mg/L	14:35:24
2	Se 196.026†	-107.1	-120.3	-0.1724	mg/L	-0.1724	mg/L	14:35:24
2	Sn 189.927†	-188.5	-221.7	-0.0269	mg/L	-0.0269	mg/L	14:35:24
2	Ti 337.279†	2198918.0	2244990.6	2.625	mg/L	2.625	mg/L	14:35:12
2	Tl 190.801†	-32.5	-28.4	-0.3131	mg/L	-0.3131	mg/L	14:35:24
2	V 292.402†	75832.8	77748.6	0.3535	mg/L	0.3535	mg/L	14:35:14
2	Zn 213.857†	123876.3	125291.5	0.9003	mg/L	0.9003	mg/L	14:35:14

Mean Data: 1307053-08

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2641914.8	0.978	mg/L	0.0023				0.24%
Ag 328.068†	-1997.4	0.0027	mg/L	0.00011	0.0027	mg/L	0.00011	4.21%
Al 237.313†	2021051.7	223.7	mg/L	0.09	223.7	mg/L	0.09	0.04%
As 188.979†	274.2	0.2034	mg/L	0.00087	0.2034	mg/L	0.00087	0.43%
B 249.677†	-91.0	-0.0493	mg/L	0.00597	-0.0493	mg/L	0.00597	12.11%
B 182.528†	43.7	0.0468	mg/L	0.00365	0.0468	mg/L	0.00365	7.79%
Ba 233.527†	42057.2	0.3695	mg/L	0.00086	0.3695	mg/L	0.00086	0.23%
Be 313.107†	15876.0	0.0068	mg/L	0.00002	0.0068	mg/L	0.00002	0.23%
Ca 315.887†	1081067.5	11.82	mg/L	0.000	11.82	mg/L	0.000	0.00%
Cd 228.802†	155.9	-0.0022	mg/L	0.00010	-0.0022	mg/L	0.00010	4.40%
Co 228.616†	10920.9	0.2129	mg/L	0.00087	0.2129	mg/L	0.00087	0.41%
Cr 267.716†	29060.9	0.2567	mg/L	0.00067	0.2567	mg/L	0.00067	0.26%
Cu 324.752†	63465.0	0.3489	mg/L	0.00061	0.3489	mg/L	0.00061	0.18%
Fe 234.349†	715110.3	476.9	mg/L	2.59	476.9	mg/L	2.59	0.54%
K 766.490†	18918.7	10.48	mg/L	0.006	10.48	mg/L	0.006	0.06%
Li 670.784†	17058.3	0.4733	mg/L	0.00364	0.4733	mg/L	0.00364	0.77%
Mg 279.077†	849815.3	68.51	mg/L	0.004	68.51	mg/L	0.004	0.01%
Mn 257.610†	3867575.5	4.870	mg/L	0.0028	4.870	mg/L	0.0028	0.06%
Mn 294.920†	1991324.8	5.195	mg/L	0.0023	5.195	mg/L	0.0023	0.04%
Mo 202.031†	217.8	-0.0617	mg/L	0.00067	-0.0617	mg/L	0.00067	1.09%
Na 589.592†	4696.2	0.9677	mg/L	0.00262	0.9677	mg/L	0.00262	0.27%
Ni 231.604†	16175.1	0.3622	mg/L	0.00005	0.3622	mg/L	0.00005	0.01%
P 214.914†	14553.2	9.158	mg/L	0.0047	9.158	mg/L	0.0047	0.05%
Pb 220.353†	3685.0	0.2141	mg/L	0.00082	0.2141	mg/L	0.00082	0.38%
Sb 206.836†	113.4	-0.0812	mg/L	0.00050	-0.0812	mg/L	0.00050	0.61%
Se 196.026†	-122.2	-0.1741	mg/L	0.00234	-0.1741	mg/L	0.00234	1.34%
Sn 189.927†	-222.8	-0.0271	mg/L	0.00022	-0.0271	mg/L	0.00022	0.83%
Sr 407.771†	116790.4	0.1365	mg/L	0.00075	0.1365	mg/L	0.00075	0.55%
Ti 337.279†	2244370.5	2.625	mg/L	0.0010	2.625	mg/L	0.0010	0.04%
Tl 190.801†	-22.8	-0.3087	mg/L	0.00617	-0.3087	mg/L	0.00617	2.00%
V 292.402†	77752.4	0.3535	mg/L	0.00002	0.3535	mg/L	0.00002	0.01%
Zn 213.857†	125201.6	0.8995	mg/L	0.00105	0.8995	mg/L	0.00105	0.12%

Sequence No.: 25
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 2:38:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	796.0	852.9	0.4766 mg/L	0.4766 mg/L	14:40:21
1	Fe 234.349†	3411.7	3620.5	2.410 mg/L	2.410 mg/L	14:40:21
1	K 766.490†	42253.2	44105.8	24.21 mg/L	24.21 mg/L	14:40:11
1	Li 670.784†	16318.2	17585.1	0.4878 mg/L	0.4878 mg/L	14:40:11
1	Na 589.592†	125675.2	133138.4	24.34 mg/L	24.34 mg/L	14:40:11
1	Sr 407.771†	38645.7	41017.6	0.0482 mg/L	0.0482 mg/L	14:40:11
1	Y 371.029	2540472.4	2540472.4	0.941 mg/L		14:40:37
1	Ag 328.068†	42618.5	43446.9	0.2427 mg/L	0.2427 mg/L	14:40:40
1	Al 237.313†	19485.9	21147.9	2.356 mg/L	2.356 mg/L	14:40:40
1	As 188.979†	597.3	641.7	0.4707 mg/L	0.4707 mg/L	14:40:50
1	B 182.528†	401.7	436.6	0.4686 mg/L	0.4686 mg/L	14:40:50
1	Ba 233.527†	50756.0	54060.9	0.4741 mg/L	0.4741 mg/L	14:40:40
1	Be 313.107†	99905.8	107658.0	0.0477 mg/L	0.0477 mg/L	14:40:40
1	Ca 315.887†	390354.6	416901.4	4.581 mg/L	4.581 mg/L	14:40:37
1	Cd 228.802†	7298.8	7601.1	0.2383 mg/L	0.2383 mg/L	14:40:50
1	Co 228.616†	21927.1	23554.7	0.4705 mg/L	0.4705 mg/L	14:40:40
1	Cr 267.716†	51489.0	54177.0	0.4760 mg/L	0.4760 mg/L	14:40:40
1	Cu 324.752†	86819.9	87504.3	0.4754 mg/L	0.4754 mg/L	14:40:40
1	Mg 279.077†	54499.8	57940.8	4.695 mg/L	4.695 mg/L	14:40:40
1	Mn 257.610†	363621.5	370530.6	0.4778 mg/L	0.4778 mg/L	14:40:40
1	Mn 294.920†	170428.8	182532.5	0.4775 mg/L	0.4775 mg/L	14:40:40
1	Mo 202.031†	10407.5	11029.4	0.4681 mg/L	0.4681 mg/L	14:40:50
1	Ni 231.604†	20037.7	21146.1	0.4737 mg/L	0.4737 mg/L	14:40:40
1	P 214.914†	6846.7	7306.5	4.615 mg/L	4.615 mg/L	14:40:50
1	Pb 220.353†	6423.7	6647.6	0.4695 mg/L	0.4695 mg/L	14:40:50
1	Sb 206.836†	986.1	1000.6	0.4719 mg/L	0.4719 mg/L	14:40:50
1	Se 196.026†	1282.1	1352.3	0.9314 mg/L	0.9314 mg/L	14:40:50
1	Sn 189.927†	3034.6	3197.1	0.4746 mg/L	0.4746 mg/L	14:40:50
1	Ti 337.279†	379939.6	404572.4	0.4771 mg/L	0.4771 mg/L	14:40:40
1	Tl 190.801†	456.4	490.0	0.4740 mg/L	0.4740 mg/L	14:40:50
1	V 292.402†	97397.8	103901.8	0.4843 mg/L	0.4843 mg/L	14:40:40
1	Zn 213.857†	61315.2	64045.0	0.4699 mg/L	0.4699 mg/L	14:40:40
2	B 249.677†	808.5	865.0	0.4833 mg/L	0.4833 mg/L	14:40:33
2	Fe 234.349†	3432.5	3638.2	2.422 mg/L	2.422 mg/L	14:40:33
2	K 766.490†	42245.9	44042.8	24.18 mg/L	24.18 mg/L	14:40:23
2	Li 670.784†	16248.5	17489.8	0.4852 mg/L	0.4852 mg/L	14:40:23
2	Na 589.592†	126145.6	133473.5	24.40 mg/L	24.40 mg/L	14:40:23
2	Sr 407.771†	38808.5	41139.9	0.0483 mg/L	0.0483 mg/L	14:40:23
2	Y 371.029	2543602.7	2543602.7	0.942 mg/L		14:40:52
2	Ag 328.068†	42856.9	43644.3	0.2438 mg/L	0.2438 mg/L	14:40:55
2	Al 237.313†	19889.9	21551.3	2.400 mg/L	2.400 mg/L	14:40:55
2	As 188.979†	585.2	628.0	0.4608 mg/L	0.4608 mg/L	14:41:05
2	B 182.528†	397.6	431.8	0.4633 mg/L	0.4633 mg/L	14:41:05
2	Ba 233.527†	51371.0	54647.5	0.4792 mg/L	0.4792 mg/L	14:40:55
2	Be 313.107†	100992.3	108681.1	0.0481 mg/L	0.0481 mg/L	14:40:55
2	Ca 315.887†	389506.0	415489.5	4.566 mg/L	4.566 mg/L	14:40:52
2	Cd 228.802†	7280.8	7572.4	0.2374 mg/L	0.2374 mg/L	14:41:05
2	Co 228.616†	22195.3	23810.9	0.4756 mg/L	0.4756 mg/L	14:40:55
2	Cr 267.716†	51886.2	54531.4	0.4791 mg/L	0.4791 mg/L	14:40:55
2	Cu 324.752†	87895.3	88532.5	0.4809 mg/L	0.4809 mg/L	14:40:55
2	Mg 279.077†	55229.1	58644.0	4.752 mg/L	4.752 mg/L	14:40:55
2	Mn 257.610†	367296.6	373957.4	0.4823 mg/L	0.4823 mg/L	14:40:55
2	Mn 294.920†	171829.7	183797.2	0.4808 mg/L	0.4808 mg/L	14:40:55
2	Mo 202.031†	10440.1	11050.3	0.4690 mg/L	0.4690 mg/L	14:41:05
2	Ni 231.604†	20121.1	21208.5	0.4751 mg/L	0.4751 mg/L	14:40:55
2	P 214.914†	6850.0	7301.1	4.612 mg/L	4.612 mg/L	14:41:05
2	Pb 220.353†	6425.2	6640.8	0.4690 mg/L	0.4690 mg/L	14:41:05
2	Sb 206.836†	985.4	998.5	0.4709 mg/L	0.4709 mg/L	14:41:05
2	Se 196.026†	1291.5	1360.5	0.9370 mg/L	0.9370 mg/L	14:41:05
2	Sn 189.927†	3043.5	3202.6	0.4754 mg/L	0.4754 mg/L	14:41:05
2	Ti 337.279†	383415.2	407766.0	0.4808 mg/L	0.4808 mg/L	14:40:55
2	Tl 190.801†	451.9	484.6	0.4688 mg/L	0.4688 mg/L	14:41:05

2	V 292.402†	98490.9	104935.1	0.4890 mg/L	0.4890 mg/L	14:40:55
2	Zn 213.857†	61847.8	64530.4	0.4735 mg/L	0.4735 mg/L	14:40:55

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2542037.5	0.941 mg/L		0.0008			0.09%
Ag 328.068†	43545.6	0.2432 mg/L		0.00077	0.2432 mg/L	0.00077	0.32%
	QC value within limits for Ag	328.068	Recovery =	97.30%			
Al 237.313†	21349.6	2.378 mg/L		0.0316	2.378 mg/L	0.0316	1.33%
	QC value within limits for Al	237.313	Recovery =	95.11%			
As 188.979†	634.8	0.4657 mg/L		0.00704	0.4657 mg/L	0.00704	1.51%
	QC value within limits for As	188.979	Recovery =	93.15%			
B 249.677†	858.9	0.4800 mg/L		0.00478	0.4800 mg/L	0.00478	1.00%
	QC value within limits for B	249.677	Recovery =	95.99%			
B 182.528†	434.2	0.4659 mg/L		0.00370	0.4659 mg/L	0.00370	0.79%
	QC value within limits for B	182.528	Recovery =	93.19%			
Ba 233.527†	54354.2	0.4767 mg/L		0.00361	0.4767 mg/L	0.00361	0.76%
	QC value within limits for Ba	233.527	Recovery =	95.34%			
Be 313.107†	108169.6	0.0479 mg/L		0.00032	0.0479 mg/L	0.00032	0.66%
	QC value within limits for Be	313.107	Recovery =	95.78%			
Ca 315.887†	416195.4	4.573 mg/L		0.0109	4.573 mg/L	0.0109	0.24%
	QC value within limits for Ca	315.887	Recovery =	91.47%			
Cd 228.802†	7586.7	0.2379 mg/L		0.00063	0.2379 mg/L	0.00063	0.27%
	QC value within limits for Cd	228.802	Recovery =	95.15%			
Co 228.616†	23682.8	0.4731 mg/L		0.00362	0.4731 mg/L	0.00362	0.76%
	QC value within limits for Co	228.616	Recovery =	94.61%			
Cr 267.716†	54354.2	0.4775 mg/L		0.00218	0.4775 mg/L	0.00218	0.46%
	QC value within limits for Cr	267.716	Recovery =	95.51%			
Cu 324.752†	88018.4	0.4782 mg/L		0.00391	0.4782 mg/L	0.00391	0.82%
	QC value within limits for Cu	324.752	Recovery =	95.63%			
Fe 234.349†	3629.3	2.416 mg/L		0.0083	2.416 mg/L	0.0083	0.34%
	QC value within limits for Fe	234.349	Recovery =	96.65%			
K 766.490†	44074.3	24.19 mg/L		0.024	24.19 mg/L	0.024	0.10%
	QC value within limits for K	766.490	Recovery =	96.78%			
Li 670.784†	17537.5	0.4865 mg/L		0.00185	0.4865 mg/L	0.00185	0.38%
	QC value within limits for Li	670.784	Recovery =	97.30%			
Mg 279.077†	58292.4	4.723 mg/L		0.0401	4.723 mg/L	0.0401	0.85%
	QC value within limits for Mg	279.077	Recovery =	94.47%			
Mn 257.610†	372244.0	0.4801 mg/L		0.00312	0.4801 mg/L	0.00312	0.65%
	QC value within limits for Mn	257.610	Recovery =	96.01%			
Mn 294.920†	183164.9	0.4792 mg/L		0.00233	0.4792 mg/L	0.00233	0.49%
	QC value within limits for Mn	294.920	Recovery =	95.84%			
Mo 202.031†	11039.8	0.4686 mg/L		0.00061	0.4686 mg/L	0.00061	0.13%
	QC value within limits for Mo	202.031	Recovery =	93.71%			
Na 589.592†	133306.0	24.37 mg/L		0.043	24.37 mg/L	0.043	0.18%
	QC value within limits for Na	589.592	Recovery =	97.47%			
Ni 231.604†	21177.3	0.4744 mg/L		0.00098	0.4744 mg/L	0.00098	0.21%
	QC value within limits for Ni	231.604	Recovery =	94.88%			
P 214.914†	7303.8	4.613 mg/L		0.0024	4.613 mg/L	0.0024	0.05%
	QC value within limits for P	214.914	Recovery =	92.26%			
Pb 220.353†	6644.2	0.4693 mg/L		0.00034	0.4693 mg/L	0.00034	0.07%
	QC value within limits for Pb	220.353	Recovery =	93.86%			
Sb 206.836†	999.5	0.4714 mg/L		0.00069	0.4714 mg/L	0.00069	0.15%
	QC value within limits for Sb	206.836	Recovery =	94.28%			
Se 196.026†	1356.4	0.9342 mg/L		0.00400	0.9342 mg/L	0.00400	0.43%
	QC value within limits for Se	196.026	Recovery =	93.42%			
Sn 189.927†	3199.8	0.4750 mg/L		0.00056	0.4750 mg/L	0.00056	0.12%
	QC value within limits for Sn	189.927	Recovery =	95.01%			
Sr 407.771†	41078.8	0.0483 mg/L		0.00010	0.0483 mg/L	0.00010	0.21%
	QC value within limits for Sr	407.771	Recovery =	96.53%			
Ti 337.279†	406169.2	0.4790 mg/L		0.00264	0.4790 mg/L	0.00264	0.55%
	QC value within limits for Ti	337.279	Recovery =	95.80%			
Tl 190.801†	487.3	0.4714 mg/L		0.00370	0.4714 mg/L	0.00370	0.78%
	QC value within limits for Tl	190.801	Recovery =	94.28%			
V 292.402†	104418.5	0.4867 mg/L		0.00333	0.4867 mg/L	0.00333	0.68%
	QC value within limits for V	292.402	Recovery =	97.34%			
Zn 213.857†	64287.7	0.4717 mg/L		0.00251	0.4717 mg/L	0.00251	0.53%
	QC value within limits for Zn	213.857	Recovery =	94.34%			

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 2:42:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-5.9	0.4	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	14:44:32
1	Fe 234.349†	10.8	4.4	0.0135 mg/L	0.0135 mg/L	0.0135 mg/L	14:44:32
1	K 766.490†	993.0	209.1	0.2883 mg/L	0.2883 mg/L	0.2883 mg/L	14:44:22
1	Li 670.784†	-273.5	-47.2	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	14:44:22
1	Na 589.592†	33.3	-445.3	0.0322 mg/L	0.0322 mg/L	0.0322 mg/L	14:44:22
1	Sr 407.771†	155.2	89.9	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	14:44:22
1	Y 371.029	2611854.7	2611854.7	0.967 mg/L			14:44:48
1	Ag 328.068†	1589.9	-221.0	0.0006 mg/L	0.0006 mg/L	0.0006 mg/L	14:44:51
1	Al 237.313†	-358.6	59.5	0.0199 mg/L	0.0199 mg/L	0.0199 mg/L	14:44:51
1	As 188.979†	1.6	8.3	0.0104 mg/L	0.0104 mg/L	0.0104 mg/L	14:45:01
1	B 182.528†	-3.5	6.0	0.0063 mg/L	0.0063 mg/L	0.0063 mg/L	14:45:01
1	Ba 233.527†	-82.2	12.0	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	14:45:01
1	Be 313.107†	-1340.5	51.7	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	14:44:51
1	Ca 315.887†	-1706.8	110.5	0.0371 mg/L	0.0371 mg/L	0.0371 mg/L	14:44:51
1	Cd 228.802†	158.8	5.1	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	14:45:01
1	Co 228.616†	-210.0	24.7	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	14:45:01
1	Cr 267.716†	518.0	-30.5	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	14:44:51
1	Cu 324.752†	4002.8	-663.4	0.0008 mg/L	0.0008 mg/L	0.0008 mg/L	14:44:51
1	Mg 279.077†	105.0	105.1	0.0337 mg/L	0.0337 mg/L	0.0337 mg/L	14:44:51
1	Mn 257.610†	15027.4	-532.1	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	14:44:51
1	Mn 294.920†	-1344.5	-58.1	0.0014 mg/L	0.0014 mg/L	0.0014 mg/L	14:44:51
1	Mo 202.031†	49.3	15.1	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	14:45:01
1	Ni 231.604†	109.3	-45.0	0.0006 mg/L	0.0006 mg/L	0.0006 mg/L	14:44:51
1	P 214.914†	-28.9	-2.8	0.0452 mg/L	0.0452 mg/L	0.0452 mg/L	14:45:01
1	Pb 220.353†	136.2	-41.2	-0.0031 mg/L	-0.0031 mg/L	-0.0031 mg/L	14:45:01
1	Sb 206.836†	46.8	0.6	0.0045 mg/L	0.0045 mg/L	0.0045 mg/L	14:45:01
1	Se 196.026†	18.6	8.3	0.0107 mg/L	0.0107 mg/L	0.0107 mg/L	14:45:01
1	Sn 189.927†	23.2	-5.3	-0.0022 mg/L	-0.0022 mg/L	-0.0022 mg/L	14:45:01
1	Ti 337.279†	-469.8	134.0	0.0051 mg/L	0.0051 mg/L	0.0051 mg/L	14:44:51
1	Tl 190.801†	-10.3	-5.9	-0.0046 mg/L	-0.0046 mg/L	-0.0046 mg/L	14:45:01
1	V 292.402†	-219.2	121.6	0.0051 mg/L	0.0051 mg/L	0.0051 mg/L	14:44:51
1	Zn 213.857†	1079.1	-29.5	0.0025 mg/L	0.0025 mg/L	0.0025 mg/L	14:45:01
2	B 249.677†	-3.7	2.6	0.0027 mg/L	0.0027 mg/L	0.0027 mg/L	14:44:45
2	Fe 234.349†	11.4	5.1	0.0140 mg/L	0.0140 mg/L	0.0140 mg/L	14:44:45
2	K 766.490†	939.0	161.8	0.2625 mg/L	0.2625 mg/L	0.2625 mg/L	14:44:35
2	Li 670.784†	-268.6	-44.6	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	14:44:35
2	Na 589.592†	53.1	-424.3	0.0360 mg/L	0.0360 mg/L	0.0360 mg/L	14:44:35
2	Sr 407.771†	50.6	-17.8	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	14:44:35
2	Y 371.029	2589039.9	2589039.9	0.959 mg/L			14:45:03
2	Ag 328.068†	1674.1	-118.6	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	14:45:05
2	Al 237.313†	-396.6	16.7	0.0152 mg/L	0.0152 mg/L	0.0152 mg/L	14:45:05
2	As 188.979†	-2.8	3.7	0.0071 mg/L	0.0071 mg/L	0.0071 mg/L	14:45:16
2	B 182.528†	-8.6	0.6	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	14:45:16
2	Ba 233.527†	-97.2	-4.4	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	14:45:16
2	Be 313.107†	-1233.7	151.0	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	14:45:05
2	Ca 315.887†	-1742.6	57.5	0.0366 mg/L	0.0366 mg/L	0.0366 mg/L	14:45:05
2	Cd 228.802†	160.2	8.0	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	14:45:16
2	Co 228.616†	-247.6	-16.6	-0.0003 mg/L	-0.0003 mg/L	-0.0003 mg/L	14:45:16
2	Cr 267.716†	510.3	-33.8	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	14:45:05
2	Cu 324.752†	4011.5	-617.8	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	14:45:05
2	Mg 279.077†	-43.7	-49.0	0.0212 mg/L	0.0212 mg/L	0.0212 mg/L	14:45:05
2	Mn 257.610†	14943.1	-483.1	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	14:45:05
2	Mn 294.920†	-1081.9	203.6	0.0020 mg/L	0.0020 mg/L	0.0020 mg/L	14:45:05
2	Mo 202.031†	56.1	22.6	0.0035 mg/L	0.0035 mg/L	0.0035 mg/L	14:45:16
2	Ni 231.604†	157.0	5.8	0.0018 mg/L	0.0018 mg/L	0.0018 mg/L	14:45:05
2	P 214.914†	-33.5	-7.9	0.0420 mg/L	0.0420 mg/L	0.0420 mg/L	14:45:16
2	Pb 220.353†	172.1	-2.5	-0.0003 mg/L	-0.0003 mg/L	-0.0003 mg/L	14:45:16
2	Sb 206.836†	50.3	4.6	0.0064 mg/L	0.0064 mg/L	0.0064 mg/L	14:45:16
2	Se 196.026†	22.5	12.5	0.0136 mg/L	0.0136 mg/L	0.0136 mg/L	14:45:16
2	Sn 189.927†	32.8	4.9	-0.0007 mg/L	-0.0007 mg/L	-0.0007 mg/L	14:45:16
2	Ti 337.279†	-575.0	20.0	0.0049 mg/L	0.0049 mg/L	0.0049 mg/L	14:45:05
2	Tl 190.801†	-11.7	-7.5	-0.0061 mg/L	-0.0061 mg/L	-0.0061 mg/L	14:45:16
2	V 292.402†	-351.3	-18.2	0.0045 mg/L	0.0045 mg/L	0.0045 mg/L	14:45:05

 Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2600447.3	0.963 mg/L	0.0060			0.62%
Ag 328.068†	-169.8	0.0008 mg/L	0.00040	0.0008 mg/L	0.00040	48.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	38.1	0.0176 mg/L	0.00336	0.0176 mg/L	0.00336	19.10%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	6.0	0.0088 mg/L	0.00238	0.0088 mg/L	0.00238	27.21%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1.5	0.0021 mg/L	0.00087	0.0021 mg/L	0.00087	41.04%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	3.3	0.0034 mg/L	0.00410	0.0034 mg/L	0.00410	120.16%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	3.8	0.0032 mg/L	0.00010	0.0032 mg/L	0.00010	3.20%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	101.3	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.26%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	84.0	0.0369 mg/L	0.00041	0.0369 mg/L	0.00041	1.12%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	6.6	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	5.27%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	4.0	0.0001 mg/L	0.00058	0.0001 mg/L	0.00058	653.80%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-32.2	0.0031 mg/L	0.00002	0.0031 mg/L	0.00002	0.65%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-640.6	0.0010 mg/L	0.00017	0.0010 mg/L	0.00017	18.00%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	4.8	0.0138 mg/L	0.00034	0.0138 mg/L	0.00034	2.45%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	185.4	0.2754 mg/L	0.01823	0.2754 mg/L	0.01823	6.62%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-45.9	0.0032 mg/L	0.00005	0.0032 mg/L	0.00005	1.60%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	28.1	0.0274 mg/L	0.00878	0.0274 mg/L	0.00878	32.00%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-507.6	0.0010 mg/L	0.00004	0.0010 mg/L	0.00004	4.29%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	72.8	0.0017 mg/L	0.00048	0.0017 mg/L	0.00048	28.32%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	18.8	0.0033 mg/L	0.00022	0.0033 mg/L	0.00022	6.77%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-434.8	0.0341 mg/L	0.00270	0.0341 mg/L	0.00270	7.91%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-19.6	0.0012 mg/L	0.00080	0.0012 mg/L	0.00080	67.31%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-5.3	0.0436 mg/L	0.00229	0.0436 mg/L	0.00229	5.25%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	-21.9	-0.0017 mg/L	0.00193	-0.0017 mg/L	0.00193	114.48%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.6	0.0054 mg/L	0.00134	0.0054 mg/L	0.00134	24.65%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	10.4	0.0122 mg/L	0.00205	0.0122 mg/L	0.00205	16.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-0.2	-0.0014 mg/L	0.00107	-0.0014 mg/L	0.00107	74.88%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	36.1	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	21.68%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	77.0	0.0050 mg/L	0.00009	0.0050 mg/L	0.00009	1.89%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-6.7	-0.0053 mg/L	0.00107	-0.0053 mg/L	0.00107	19.99%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	51.7	0.0048 mg/L	0.00045	0.0048 mg/L	0.00045	9.27%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	-39.4	0.0024 mg/L	0.00011	0.0024 mg/L	0.00011	4.54%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sample ID: 1307053-09
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 7/5/2013 2:46:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307053-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-99.0	-95.1	-0.0516	mg/L	-0.0516	mg/L	14:48:35
1	Fe 234.349†	669185.4	686498.0	457.8	mg/L	457.8	mg/L	14:48:32
1	K 766.490†	15820.6	15412.2	8.574	mg/L	8.574	mg/L	14:48:35
1	Li 670.784†	16037.6	16688.3	0.4631	mg/L	0.4631	mg/L	14:48:35
1	Na 589.592†	3770.7	3388.5	0.7298	mg/L	0.7298	mg/L	14:48:35
1	Sr 407.771†	96935.3	99373.5	0.1162	mg/L	0.1162	mg/L	14:48:32
1	Y 371.029	2632892.8	2632892.8	0.975	mg/L			14:48:45
1	Ag 328.068†	-106.4	-1974.3	0.0023	mg/L	0.0023	mg/L	14:48:47
1	Al 237.313†	1841925.9	1890027.8	209.2	mg/L	209.2	mg/L	14:48:45
1	As 188.979†	244.5	257.5	0.1913	mg/L	0.1913	mg/L	14:48:57
1	B 182.528†	24.7	34.9	0.0374	mg/L	0.0374	mg/L	14:48:57
1	Ba 233.527†	34915.8	35916.5	0.3160	mg/L	0.3160	mg/L	14:48:47
1	Be 313.107†	13092.2	14869.0	0.0064	mg/L	0.0064	mg/L	14:48:47
1	Ca 315.887†	874899.8	899419.0	9.840	mg/L	9.840	mg/L	14:48:45
1	Cd 228.802†	305.0	153.8	-0.0020	mg/L	-0.0020	mg/L	14:48:57
1	Co 228.616†	15845.4	16497.3	0.3252	mg/L	0.3252	mg/L	14:48:57
1	Cr 267.716†	25483.1	25576.4	0.2263	mg/L	0.2263	mg/L	14:48:47
1	Cu 324.752†	70554.0	67577.2	0.3706	mg/L	0.3706	mg/L	14:48:47
1	Mg 279.077†	746328.3	765640.8	61.73	mg/L	61.73	mg/L	14:48:45
1	Mn 257.610†	3961490.9	4047947.0	5.106	mg/L	5.106	mg/L	14:48:45
1	Mn 294.920†	2020011.4	2073624.3	5.409	mg/L	5.409	mg/L	14:48:45
1	Mo 202.031†	259.7	230.5	-0.0584	mg/L	-0.0584	mg/L	14:48:47
1	Ni 231.604†	16185.4	16446.3	0.3682	mg/L	0.3682	mg/L	14:48:57
1	P 214.914†	13653.2	14033.7	8.832	mg/L	8.832	mg/L	14:48:57
1	Pb 220.353†	2910.6	2803.9	0.1550	mg/L	0.1550	mg/L	14:48:57
1	Sb 206.836†	157.1	113.3	-0.0755	mg/L	-0.0755	mg/L	14:48:57
1	Se 196.026†	-100.6	-114.1	-0.1648	mg/L	-0.1648	mg/L	14:48:57
1	Sn 189.927†	-198.1	-232.6	-0.0298	mg/L	-0.0298	mg/L	14:48:57
1	Ti 337.279†	1879291.5	1928549.8	2.256	mg/L	2.256	mg/L	14:48:45
1	Tl 190.801†	-34.1	-30.2	-0.3043	mg/L	-0.3043	mg/L	14:48:57
1	V 292.402†	65402.1	67443.1	0.3073	mg/L	0.3073	mg/L	14:48:47
1	Zn 213.857†	112902.9	114679.6	0.8229	mg/L	0.8229	mg/L	14:48:47
2	B 249.677†	-111.2	-106.5	-0.0580	mg/L	-0.0580	mg/L	14:48:39
2	Fe 234.349†	666108.0	676520.7	451.1	mg/L	451.1	mg/L	14:48:37
2	K 766.490†	15334.8	14756.8	8.217	mg/L	8.217	mg/L	14:48:39
2	Li 670.784†	15598.4	16078.0	0.4464	mg/L	0.4464	mg/L	14:48:39
2	Na 589.592†	3591.1	3167.5	0.6895	mg/L	0.6895	mg/L	14:48:39
2	Sr 407.771†	96485.1	97923.7	0.1145	mg/L	0.1145	mg/L	14:48:37
2	Y 371.029	2659435.9	2659435.9	0.985	mg/L			14:49:01
2	Ag 328.068†	-227.2	-2095.9	0.0015	mg/L	0.0015	mg/L	14:49:03
2	Al 237.313†	1861121.8	1890664.4	209.2	mg/L	209.2	mg/L	14:49:01
2	As 188.979†	235.7	246.1	0.1830	mg/L	0.1830	mg/L	14:49:13
2	B 182.528†	27.7	37.7	0.0404	mg/L	0.0404	mg/L	14:49:13
2	Ba 233.527†	34900.9	35543.9	0.3128	mg/L	0.3128	mg/L	14:49:03
2	Be 313.107†	13130.7	14774.1	0.0064	mg/L	0.0064	mg/L	14:49:03
2	Ca 315.887†	884968.6	900687.1	9.854	mg/L	9.854	mg/L	14:49:01
2	Cd 228.802†	299.3	144.9	-0.0021	mg/L	-0.0021	mg/L	14:49:13
2	Co 228.616†	15782.6	16271.3	0.3207	mg/L	0.3207	mg/L	14:49:13
2	Cr 267.716†	25570.1	25403.9	0.2248	mg/L	0.2248	mg/L	14:49:03
2	Cu 324.752†	70639.9	66942.0	0.3672	mg/L	0.3672	mg/L	14:49:03
2	Mg 279.077†	755885.4	767705.7	61.90	mg/L	61.90	mg/L	14:49:01
2	Mn 257.610†	4001647.2	4048169.5	5.108	mg/L	5.108	mg/L	14:49:01
2	Mn 294.920†	2039921.2	2073162.6	5.408	mg/L	5.408	mg/L	14:49:01
2	Mo 202.031†	225.1	192.7	-0.0590	mg/L	-0.0590	mg/L	14:49:03
2	Ni 231.604†	16104.7	16198.5	0.3627	mg/L	0.3627	mg/L	14:49:13
2	P 214.914†	13559.4	13798.6	8.685	mg/L	8.685	mg/L	14:49:13
2	Pb 220.353†	2928.6	2792.2	0.1542	mg/L	0.1542	mg/L	14:49:13
2	Sb 206.836†	155.1	109.7	-0.0753	mg/L	-0.0753	mg/L	14:49:13
2	Se 196.026†	-111.2	-123.8	-0.1701	mg/L	-0.1701	mg/L	14:49:13
2	Sn 189.927†	-212.1	-244.8	-0.0316	mg/L	-0.0316	mg/L	14:49:13
2	Ti 337.279†	1896681.8	1926970.0	2.254	mg/L	2.254	mg/L	14:49:01
2	Tl 190.801†	-29.4	-25.1	-0.2953	mg/L	-0.2953	mg/L	14:49:13
2	V 292.402†	65524.8	66898.0	0.3048	mg/L	0.3048	mg/L	14:49:03
2	Zn 213.857†	113255.4	113881.6	0.8174	mg/L	0.8174	mg/L	14:49:03

 Mean Data: 1307053-09

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2646164.3	0.980	mg/L	0.0069				0.71%
Ag 328.068†	-2035.1	0.0019	mg/L	0.00059	0.0019	mg/L	0.00059	30.92%
Al 237.313†	1890346.1	209.2	mg/L	0.05	209.2	mg/L	0.05	0.02%
As 188.979†	251.8	0.1871	mg/L	0.00586	0.1871	mg/L	0.00586	3.13%
B 249.677†	-100.8	-0.0548	mg/L	0.00448	-0.0548	mg/L	0.00448	8.18%
B 182.528†	36.3	0.0389	mg/L	0.00210	0.0389	mg/L	0.00210	5.40%
Ba 233.527†	35730.2	0.3144	mg/L	0.00230	0.3144	mg/L	0.00230	0.73%
Be 313.107†	14821.5	0.0064	mg/L	0.00003	0.0064	mg/L	0.00003	0.46%
Ca 315.887†	900053.0	9.847	mg/L	0.0098	9.847	mg/L	0.0098	0.10%
Cd 228.802†	149.4	-0.0021	mg/L	0.00012	-0.0021	mg/L	0.00012	5.64%
Co 228.616†	16384.3	0.3230	mg/L	0.00320	0.3230	mg/L	0.00320	0.99%
Cr 267.716†	25490.1	0.2256	mg/L	0.00106	0.2256	mg/L	0.00106	0.47%
Cu 324.752†	67259.6	0.3689	mg/L	0.00242	0.3689	mg/L	0.00242	0.66%
Fe 234.349†	681509.4	454.5	mg/L	4.70	454.5	mg/L	4.70	1.04%
K 766.490†	15084.5	8.395	mg/L	0.2526	8.395	mg/L	0.2526	3.01%
Li 670.784†	16383.2	0.4548	mg/L	0.01186	0.4548	mg/L	0.01186	2.61%
Mg 279.077†	766673.2	61.81	mg/L	0.118	61.81	mg/L	0.118	0.19%
Mn 257.610†	4048058.3	5.107	mg/L	0.0013	5.107	mg/L	0.0013	0.02%
Mn 294.920†	2073393.4	5.409	mg/L	0.0009	5.409	mg/L	0.0009	0.02%
Mo 202.031†	211.6	-0.0587	mg/L	0.00042	-0.0587	mg/L	0.00042	0.71%
Na 589.592†	3278.0	0.7096	mg/L	0.02843	0.7096	mg/L	0.02843	4.01%
Ni 231.604†	16322.4	0.3655	mg/L	0.00391	0.3655	mg/L	0.00391	1.07%
P 214.914†	13916.1	8.759	mg/L	0.1041	8.759	mg/L	0.1041	1.19%
Pb 220.353†	2798.1	0.1546	mg/L	0.00059	0.1546	mg/L	0.00059	0.38%
Sb 206.836†	111.5	-0.0754	mg/L	0.00017	-0.0754	mg/L	0.00017	0.23%
Se 196.026†	-119.0	-0.1674	mg/L	0.00375	-0.1674	mg/L	0.00375	2.24%
Sn 189.927†	-238.7	-0.0307	mg/L	0.00127	-0.0307	mg/L	0.00127	4.15%
Sr 407.771†	98648.6	0.1154	mg/L	0.00120	0.1154	mg/L	0.00120	1.04%
Ti 337.279†	1927759.9	2.255	mg/L	0.0013	2.255	mg/L	0.0013	0.06%
Tl 190.801†	-27.6	-0.2998	mg/L	0.00636	-0.2998	mg/L	0.00636	2.12%
V 292.402†	67170.6	0.3060	mg/L	0.00177	0.3060	mg/L	0.00177	0.58%
Zn 213.857†	114280.6	0.8201	mg/L	0.00391	0.8201	mg/L	0.00391	0.48%

Sequence No.: 28

Sample ID: 1307053-10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 30

Date Collected: 7/5/2013 2:52:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: 1307053-10

Repl#	Analyte	Net		Calib. Units	Sample Conc.	Sample Units	Analysis Time	
		Intensity	Corrected Intensity					
1	B 249.677†	-93.6	-90.4	-0.0490	mg/L	-0.0490	mg/L	14:54:05
1	Fe 234.349†	606536.2	627447.2	418.4	mg/L	418.4	mg/L	14:54:02
1	K 766.490†	15479.0	15195.0	8.455	mg/L	8.455	mg/L	14:54:05
1	Li 670.784†	14206.5	14932.0	0.4149	mg/L	0.4149	mg/L	14:54:05
1	Na 589.592†	3953.6	3610.2	0.7701	mg/L	0.7701	mg/L	14:54:05
1	Sr 407.771†	88875.8	91870.4	0.1075	mg/L	0.1075	mg/L	14:54:02
1	Y 371.029	2610989.7	2610989.7	0.967	mg/L			14:54:14
1	Ag 328.068†	3.4	-1861.7	0.0020	mg/L	0.0020	mg/L	14:54:16
1	Al 237.313†	1668474.9	1726446.4	191.1	mg/L	191.1	mg/L	14:54:14
1	As 188.979†	267.6	283.5	0.2103	mg/L	0.2103	mg/L	14:54:26
1	B 182.528†	27.3	37.8	0.0405	mg/L	0.0405	mg/L	14:54:26
1	Ba 233.527†	36498.1	37853.9	0.3329	mg/L	0.3329	mg/L	14:54:16
1	Be 313.107†	14872.6	16823.6	0.0073	mg/L	0.0073	mg/L	14:54:16
1	Ca 315.887†	749740.4	777472.4	8.511	mg/L	8.511	mg/L	14:54:14
1	Cd 228.802†	286.9	137.7	-0.0018	mg/L	-0.0018	mg/L	14:54:26
1	Co 228.616†	15433.0	16207.0	0.3195	mg/L	0.3195	mg/L	14:54:16
1	Cr 267.716†	25404.9	25714.9	0.2275	mg/L	0.2275	mg/L	14:54:16
1	Cu 324.752†	77576.0	75448.5	0.4129	mg/L	0.4129	mg/L	14:54:16
1	Mg 279.077†	656155.0	678780.5	54.73	mg/L	54.73	mg/L	14:54:14
1	Mn 257.610†	3885701.8	4003636.4	5.058	mg/L	5.058	mg/L	14:54:14
1	Mn 294.920†	1974535.2	2043963.8	5.332	mg/L	5.332	mg/L	14:54:14
1	Mo 202.031†	260.0	233.1	-0.0526	mg/L	-0.0526	mg/L	14:54:16
1	Ni 231.604†	15028.5	15388.7	0.3447	mg/L	0.3447	mg/L	14:54:16
1	P 214.914†	13471.7	13963.4	8.788	mg/L	8.788	mg/L	14:54:16

1	Pb 220.353†	2912.3	2830.7	0.1606 mg/L	0.1606 mg/L	14:54:26
1	Sb 206.836†	144.6	101.7	-0.0697 mg/L	-0.0697 mg/L	14:54:26
1	Se 196.026†	-86.3	-100.2	-0.1473 mg/L	-0.1473 mg/L	14:54:26
1	Sn 189.927†	-162.3	-197.2	-0.0253 mg/L	-0.0253 mg/L	14:54:26
1	Ti 337.279†	1848075.2	1912430.1	2.237 mg/L	2.237 mg/L	14:54:14
1	Tl 190.801†	-26.8	-23.0	-0.2736 mg/L	-0.2736 mg/L	14:54:26
1	V 292.402†	62219.3	64713.3	0.2949 mg/L	0.2949 mg/L	14:54:16
1	Zn 213.857†	102161.7	104539.6	0.7502 mg/L	0.7502 mg/L	14:54:16
2	B 249.677†	-103.0	-97.1	-0.0528 mg/L	-0.0528 mg/L	14:54:09
2	Fe 234.349†	604375.8	607823.1	405.3 mg/L	405.3 mg/L	14:54:07
2	K 766.490†	15454.6	14725.1	8.199 mg/L	8.199 mg/L	14:54:09
2	Li 670.784†	14310.5	14627.8	0.4065 mg/L	0.4065 mg/L	14:54:09
2	Na 589.592†	3972.9	3515.9	0.7529 mg/L	0.7529 mg/L	14:54:09
2	Sr 407.771†	88705.3	89141.6	0.1043 mg/L	0.1043 mg/L	14:54:07
2	Y 371.029	2685686.7	2685686.7	0.994 mg/L		14:54:29
2	Ag 328.068†	-28.2	-1893.5	0.0015 mg/L	0.0015 mg/L	14:54:32
2	Al 237.313†	1715315.5	1725549.0	191.0 mg/L	191.0 mg/L	14:54:29
2	As 188.979†	266.5	274.6	0.2038 mg/L	0.2038 mg/L	14:54:42
2	B 182.528†	19.4	29.1	0.0311 mg/L	0.0311 mg/L	14:54:42
2	Ba 233.527†	36250.3	36554.5	0.3216 mg/L	0.3216 mg/L	14:54:32
2	Be 313.107†	14810.6	16333.3	0.0070 mg/L	0.0070 mg/L	14:54:32
2	Ca 315.887†	770518.8	776797.9	8.504 mg/L	8.504 mg/L	14:54:29
2	Cd 228.802†	291.9	134.5	-0.0017 mg/L	-0.0017 mg/L	14:54:42
2	Co 228.616†	15355.5	15685.0	0.3090 mg/L	0.3090 mg/L	14:54:32
2	Cr 267.716†	25246.4	24824.5	0.2198 mg/L	0.2198 mg/L	14:54:32
2	Cu 324.752†	77234.2	72872.7	0.3991 mg/L	0.3991 mg/L	14:54:32
2	Mg 279.077†	674728.4	678581.1	54.72 mg/L	54.72 mg/L	14:54:29
2	Mn 257.610†	3995348.8	4002109.9	5.059 mg/L	5.059 mg/L	14:54:29
2	Mn 294.920†	2030157.8	2043092.5	5.330 mg/L	5.330 mg/L	14:54:29
2	Mo 202.031†	191.7	156.9	-0.0538 mg/L	-0.0538 mg/L	14:54:32
2	Ni 231.604†	14931.4	14858.7	0.3329 mg/L	0.3329 mg/L	14:54:32
2	P 214.914†	13373.8	13477.3	8.484 mg/L	8.484 mg/L	14:54:32
2	Pb 220.353†	2979.5	2814.4	0.1595 mg/L	0.1595 mg/L	14:54:42
2	Sb 206.836†	136.4	89.3	-0.0717 mg/L	-0.0717 mg/L	14:54:42
2	Se 196.026†	-91.6	-103.0	-0.1466 mg/L	-0.1466 mg/L	14:54:42
2	Sn 189.927†	-148.0	-178.1	-0.0225 mg/L	-0.0225 mg/L	14:54:42
2	Ti 337.279†	1898712.6	1910183.6	2.234 mg/L	2.234 mg/L	14:54:29
2	Tl 190.801†	-28.5	-23.9	-0.2665 mg/L	-0.2665 mg/L	14:54:42
2	V 292.402†	61777.7	62479.1	0.2847 mg/L	0.2847 mg/L	14:54:32
2	Zn 213.857†	101466.4	100900.9	0.7241 mg/L	0.7241 mg/L	14:54:32

Mean Data: 1307053-10

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2648338.2	0.980	mg/L	0.0196				1.99%
Ag 328.068†	-1877.6	0.0017	mg/L	0.00036	0.0017	mg/L	0.00036	20.70%
Al 237.313†	1725997.7	191.0	mg/L	0.07	191.0	mg/L	0.07	0.04%
As 188.979†	279.1	0.2071	mg/L	0.00454	0.2071	mg/L	0.00454	2.19%
B 249.677†	-93.7	-0.0509	mg/L	0.00266	-0.0509	mg/L	0.00266	5.22%
B 182.528†	33.5	0.0358	mg/L	0.00663	0.0358	mg/L	0.00663	18.52%
Ba 233.527†	37204.2	0.3273	mg/L	0.00800	0.3273	mg/L	0.00800	2.45%
Be 313.107†	16578.4	0.0072	mg/L	0.00015	0.0072	mg/L	0.00015	2.13%
Ca 315.887†	777135.2	8.507	mg/L	0.0052	8.507	mg/L	0.0052	0.06%
Cd 228.802†	136.1	-0.0017	mg/L	0.00009	-0.0017	mg/L	0.00009	4.91%
Co 228.616†	15946.0	0.3142	mg/L	0.00738	0.3142	mg/L	0.00738	2.35%
Cr 267.716†	25269.7	0.2237	mg/L	0.00549	0.2237	mg/L	0.00549	2.45%
Cu 324.752†	74160.6	0.4060	mg/L	0.00980	0.4060	mg/L	0.00980	2.41%
Fe 234.349†	617635.1	411.9	mg/L	9.25	411.9	mg/L	9.25	2.25%
K 766.490†	14960.0	8.327	mg/L	0.1811	8.327	mg/L	0.1811	2.17%
Li 670.784†	14779.9	0.4107	mg/L	0.00591	0.4107	mg/L	0.00591	1.44%
Mg 279.077†	678680.8	54.72	mg/L	0.011	54.72	mg/L	0.011	0.02%
Mn 257.610†	4002873.2	5.058	mg/L	0.0007	5.058	mg/L	0.0007	0.01%
Mn 294.920†	2043528.2	5.331	mg/L	0.0016	5.331	mg/L	0.0016	0.03%
Mo 202.031†	195.0	-0.0532	mg/L	0.00085	-0.0532	mg/L	0.00085	1.59%
Na 589.592†	3563.1	0.7615	mg/L	0.01213	0.7615	mg/L	0.01213	1.59%
Ni 231.604†	15123.7	0.3388	mg/L	0.00836	0.3388	mg/L	0.00836	2.47%
P 214.914†	13720.4	8.636	mg/L	0.2151	8.636	mg/L	0.2151	2.49%
Pb 220.353†	2822.5	0.1600	mg/L	0.00081	0.1600	mg/L	0.00081	0.50%
Sb 206.836†	95.5	-0.0707	mg/L	0.00143	-0.0707	mg/L	0.00143	2.02%
Se 196.026†	-101.6	-0.1470	mg/L	0.00051	-0.1470	mg/L	0.00051	0.35%
Sn 189.927†	-187.6	-0.0239	mg/L	0.00199	-0.0239	mg/L	0.00199	8.33%
Sr 407.771†	90506.0	0.1059	mg/L	0.00225	0.1059	mg/L	0.00225	2.12%

Ti 337.279†	1911306.8	2.236 mg/L	0.0019	2.236 mg/L	0.0019	0.08%
Tl 190.801†	-23.4	-0.2701 mg/L	0.00496	-0.2701 mg/L	0.00496	1.84%
V 292.402†	63596.2	0.2898 mg/L	0.00722	0.2898 mg/L	0.00722	2.49%
Zn 213.857†	102720.2	0.7371 mg/L	0.01845	0.7371 mg/L	0.01845	2.50%

Sequence No.: 29
Sample ID: 1307061-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 31
Date Collected: 7/5/2013 2:57:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307061-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-29.5	-22.7	-0.0113	mg/L	-0.0113	mg/L	14:59:32
1	Fe 234.349†	291617.9	288454.2	192.3	mg/L	192.3	mg/L	14:59:30
1	K 766.490†	32693.2	31521.5	17.35	mg/L	17.35	mg/L	14:59:30
1	Li 670.784†	4862.1	5045.1	0.1431	mg/L	0.1431	mg/L	14:59:32
1	Na 589.592†	4539.1	4010.2	0.8429	mg/L	0.8429	mg/L	14:59:32
1	Sr 407.771†	192970.0	190810.4	0.2228	mg/L	0.2228	mg/L	14:59:30
1	Y 371.029	2730595.9	2730595.9	1.01	mg/L			14:59:41
1	Ag 328.068†	17359.6	15306.5	0.0915	mg/L	0.0915	mg/L	14:59:43
1	Al 237.313†	810260.7	801919.5	88.76	mg/L	88.76	mg/L	14:59:41
1	As 188.979†	101.0	106.5	0.0815	mg/L	0.0815	mg/L	14:59:54
1	B 182.528†	17.1	26.5	0.0283	mg/L	0.0283	mg/L	14:59:54
1	Ba 233.527†	78868.3	78111.5	0.6837	mg/L	0.6837	mg/L	14:59:43
1	Be 313.107†	15053.3	16328.4	0.0060	mg/L	0.0060	mg/L	14:59:43
1	Ca 315.887†	2453551.4	2428865.8	26.51	mg/L	26.51	mg/L	14:59:41
1	Cd 228.802†	298.5	136.2	0.0020	mg/L	0.0020	mg/L	14:59:54
1	Co 228.616†	3612.6	3815.3	0.0627	mg/L	0.0627	mg/L	14:59:54
1	Cr 267.716†	16797.9	16049.8	0.1433	mg/L	0.1433	mg/L	14:59:43
1	Cu 324.752†	164845.4	158258.0	0.8633	mg/L	0.8633	mg/L	14:59:43
1	Mg 279.077†	367798.7	363813.6	29.35	mg/L	29.35	mg/L	14:59:41
1	Mn 257.610†	2242692.4	2202341.4	2.792	mg/L	2.792	mg/L	14:59:41
1	Mn 294.920†	1125382.7	1114532.0	2.908	mg/L	2.908	mg/L	14:59:41
1	Mo 202.031†	445.6	404.9	-0.0139	mg/L	-0.0139	mg/L	14:59:43
1	Ni 231.604†	7092.6	6857.8	0.1545	mg/L	0.1545	mg/L	14:59:43
1	P 214.914†	9396.1	9321.5	5.876	mg/L	5.876	mg/L	14:59:43
1	Pb 220.353†	18186.6	17807.6	1.237	mg/L	1.237	mg/L	14:59:43
1	Sb 206.836†	116.8	67.7	-0.0202	mg/L	-0.0202	mg/L	14:59:54
1	Se 196.026†	-25.1	-35.7	-0.0579	mg/L	-0.0579	mg/L	14:59:54
1	Sn 189.927†	240.5	208.6	0.0459	mg/L	0.0459	mg/L	14:59:54
1	Ti 337.279†	5503921.5	5444958.0	6.360	mg/L	6.360	mg/L	14:59:41
1	Tl 190.801†	-6.4	-1.6	-0.1166	mg/L	-0.1166	mg/L	14:59:54
1	V 292.402†	58385.1	58101.3	0.2563	mg/L	0.2563	mg/L	14:59:43
1	Zn 213.857†	121531.7	119070.6	0.8680	mg/L	0.8680	mg/L	14:59:43
2	B 249.677†	-26.5	-19.7	-0.0096	mg/L	-0.0096	mg/L	14:59:36
2	Fe 234.349†	286377.8	282377.0	188.3	mg/L	188.3	mg/L	14:59:34
2	K 766.490†	32243.0	30975.5	17.06	mg/L	17.06	mg/L	14:59:34
2	Li 670.784†	4756.4	4925.6	0.1398	mg/L	0.1398	mg/L	14:59:36
2	Na 589.592†	4430.8	3889.3	0.8209	mg/L	0.8209	mg/L	14:59:36
2	Sr 407.771†	189867.4	187148.8	0.2186	mg/L	0.2186	mg/L	14:59:34
2	Y 371.029	2739238.2	2739238.2	1.01	mg/L			14:59:56
2	Ag 328.068†	17275.1	15169.0	0.0906	mg/L	0.0906	mg/L	14:59:59
2	Al 237.313†	813617.1	802700.4	88.85	mg/L	88.85	mg/L	14:59:56
2	As 188.979†	111.6	116.7	0.0889	mg/L	0.0889	mg/L	15:00:09
2	B 182.528†	23.8	33.0	0.0353	mg/L	0.0353	mg/L	15:00:09
2	Ba 233.527†	78837.8	77835.3	0.6813	mg/L	0.6813	mg/L	14:59:59
2	Be 313.107†	15090.5	16318.0	0.0060	mg/L	0.0060	mg/L	14:59:59
2	Ca 315.887†	2460824.3	2428380.1	26.50	mg/L	26.50	mg/L	14:59:56
2	Cd 228.802†	297.7	134.5	0.0020	mg/L	0.0020	mg/L	15:00:09
2	Co 228.616†	3681.3	3871.8	0.0638	mg/L	0.0638	mg/L	15:00:09
2	Cr 267.716†	16716.5	15917.1	0.1421	mg/L	0.1421	mg/L	14:59:59
2	Cu 324.752†	164009.0	156918.7	0.8561	mg/L	0.8561	mg/L	14:59:59
2	Mg 279.077†	368749.2	363603.0	29.33	mg/L	29.33	mg/L	14:59:56
2	Mn 257.610†	2251118.2	2203650.5	2.794	mg/L	2.794	mg/L	14:59:56
2	Mn 294.920†	1130274.7	1115843.7	2.911	mg/L	2.911	mg/L	14:59:56
2	Mo 202.031†	344.3	303.6	-0.0176	mg/L	-0.0176	mg/L	14:59:59
2	Ni 231.604†	7009.4	6753.6	0.1522	mg/L	0.1522	mg/L	14:59:59
2	P 214.914†	9375.0	9271.3	5.845	mg/L	5.845	mg/L	14:59:59
2	Pb 220.353†	18084.9	17650.5	1.225	mg/L	1.225	mg/L	14:59:59

2	Sb 206.836†	108.5	59.2	-0.0230 mg/L	-0.0230 mg/L	15:00:09
2	Se 196.026†	-32.6	-43.1	-0.0621 mg/L	-0.0621 mg/L	15:00:09
2	Sn 189.927†	249.9	217.1	0.0471 mg/L	0.0471 mg/L	15:00:09
2	Ti 337.279†	5525237.2	5448799.6	6.365 mg/L	6.365 mg/L	14:59:56
2	Tl 190.801†	-2.6	2.2	-0.1105 mg/L	-0.1105 mg/L	15:00:09
2	V 292.402†	58205.1	57741.6	0.2546 mg/L	0.2546 mg/L	14:59:59
2	Zn 213.857†	121185.7	118350.2	0.8629 mg/L	0.8629 mg/L	14:59:59

Mean Data: 1307061-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2734917.0	1.01	mg/L	0.002				0.22%
Ag 328.068†	15237.7	0.0910	mg/L	0.00061	0.0910	mg/L	0.00061	0.67%
Al 237.313†	802310.0	88.80	mg/L	0.061	88.80	mg/L	0.061	0.07%
As 188.979†	111.6	0.0852	mg/L	0.00524	0.0852	mg/L	0.00524	6.15%
B 249.677†	-21.2	-0.0105	mg/L	0.00120	-0.0105	mg/L	0.00120	11.45%
B 182.528†	29.7	0.0318	mg/L	0.00499	0.0318	mg/L	0.00499	15.68%
Ba 233.527†	77973.4	0.6825	mg/L	0.00170	0.6825	mg/L	0.00170	0.25%
Be 313.107†	16323.2	0.0060	mg/L	0.00000	0.0060	mg/L	0.00000	0.07%
Ca 315.887†	2428623.0	26.51	mg/L	0.004	26.51	mg/L	0.004	0.01%
Cd 228.802†	135.4	0.0020	mg/L	0.00001	0.0020	mg/L	0.00001	0.61%
Co 228.616†	3843.5	0.0633	mg/L	0.00079	0.0633	mg/L	0.00079	1.25%
Cr 267.716†	15983.5	0.1427	mg/L	0.00082	0.1427	mg/L	0.00082	0.57%
Cu 324.752†	157588.4	0.8597	mg/L	0.00509	0.8597	mg/L	0.00509	0.59%
Fe 234.349†	285415.6	190.3	mg/L	2.87	190.3	mg/L	2.87	1.51%
K 766.490†	31248.5	17.20	mg/L	0.210	17.20	mg/L	0.210	1.22%
Li 670.784†	4985.3	0.1415	mg/L	0.00232	0.1415	mg/L	0.00232	1.64%
Mg 279.077†	363708.3	29.34	mg/L	0.012	29.34	mg/L	0.012	0.04%
Mn 257.610†	2202996.0	2.793	mg/L	0.0018	2.793	mg/L	0.0018	0.07%
Mn 294.920†	1115187.9	2.910	mg/L	0.0024	2.910	mg/L	0.0024	0.08%
Mo 202.031†	354.2	-0.0158	mg/L	0.00259	-0.0158	mg/L	0.00259	16.40%
Na 589.592†	3949.8	0.8319	mg/L	0.01556	0.8319	mg/L	0.01556	1.87%
Ni 231.604†	6805.7	0.1534	mg/L	0.00165	0.1534	mg/L	0.00165	1.07%
P 214.914†	9296.4	5.861	mg/L	0.0221	5.861	mg/L	0.0221	0.38%
Pb 220.353†	17729.0	1.231	mg/L	0.0078	1.231	mg/L	0.0078	0.64%
Sb 206.836†	63.4	-0.0216	mg/L	0.00202	-0.0216	mg/L	0.00202	9.36%
Se 196.026†	-39.4	-0.0600	mg/L	0.00299	-0.0600	mg/L	0.00299	4.99%
Sn 189.927†	212.9	0.0465	mg/L	0.00089	0.0465	mg/L	0.00089	1.91%
Sr 407.771†	188979.6	0.2207	mg/L	0.00302	0.2207	mg/L	0.00302	1.37%
Ti 337.279†	5446878.8	6.362	mg/L	0.0032	6.362	mg/L	0.0032	0.05%
Tl 190.801†	0.3	-0.1136	mg/L	0.00432	-0.1136	mg/L	0.00432	3.80%
V 292.402†	57921.5	0.2554	mg/L	0.00121	0.2554	mg/L	0.00121	0.47%
Zn 213.857†	118710.4	0.8655	mg/L	0.00360	0.8655	mg/L	0.00360	0.42%

Sequence No.: 30

Autosampler Location: 32

Sample ID: 1307061-02

Date Collected: 7/5/2013 3:01:47 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1307061-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-19.9	-13.6	-0.0063	mg/L	-0.0063	mg/L	15:03:31
1	Fe 234.349†	205229.5	207657.8	138.5	mg/L	138.5	mg/L	15:03:29
1	K 766.490†	19521.6	18935.3	10.49	mg/L	10.49	mg/L	15:03:31
1	Li 670.784†	3343.2	3618.5	0.1039	mg/L	0.1039	mg/L	15:03:31
1	Na 589.592†	3169.6	2727.5	0.6095	mg/L	0.6095	mg/L	15:03:31
1	Sr 407.771†	131026.5	132510.6	0.1549	mg/L	0.1549	mg/L	15:03:29
1	Y 371.029	2669362.7	2669362.7	0.988	mg/L			15:03:41
1	Ag 328.068†	27723.2	26187.0	0.1504	mg/L	0.1504	mg/L	15:03:43
1	Al 237.313†	747606.8	756907.8	83.78	mg/L	83.78	mg/L	15:03:41
1	As 188.979†	121.0	129.1	0.0979	mg/L	0.0979	mg/L	15:03:53
1	B 182.528†	15.1	24.8	0.0265	mg/L	0.0265	mg/L	15:03:53
1	Ba 233.527†	73064.9	74028.9	0.6481	mg/L	0.6481	mg/L	15:03:43
1	Be 313.107†	12037.3	13618.2	0.0052	mg/L	0.0052	mg/L	15:03:43
1	Ca 315.887†	2087474.5	2114118.5	23.08	mg/L	23.08	mg/L	15:03:41
1	Cd 228.802†	274.7	119.0	0.0024	mg/L	0.0024	mg/L	15:03:53
1	Co 228.616†	2854.5	3130.1	0.0522	mg/L	0.0522	mg/L	15:03:53
1	Cr 267.716†	16735.0	16367.4	0.1461	mg/L	0.1461	mg/L	15:03:43

1	Cu 324.752†	104551.0	100988.6	0.5535 mg/L	0.5535 mg/L	15:03:43
1	Mg 279.077†	242348.5	245220.6	19.79 mg/L	19.79 mg/L	15:03:41
1	Mn 257.610†	1682135.6	1686022.1	2.140 mg/L	2.140 mg/L	15:03:41
1	Mn 294.920†	839700.4	850995.9	2.221 mg/L	2.221 mg/L	15:03:41
1	Mo 202.031†	437.5	406.8	-0.0040 mg/L	-0.0040 mg/L	15:03:43
1	Ni 231.604†	5446.4	5352.9	0.1210 mg/L	0.1210 mg/L	15:03:43
1	P 214.914†	8442.2	8569.4	5.408 mg/L	5.408 mg/L	15:03:43
1	Pb 220.353†	19887.9	19941.8	1.388 mg/L	1.388 mg/L	15:03:43
1	Sb 206.836†	92.1	45.4	-0.0152 mg/L	-0.0152 mg/L	15:03:53
1	Se 196.026†	-14.9	-25.9	-0.0404 mg/L	-0.0404 mg/L	15:03:53
1	Sn 189.927†	38.1	9.2	0.0142 mg/L	0.0142 mg/L	15:03:53
1	Ti 337.279†	4132973.8	4182632.5	4.887 mg/L	4.887 mg/L	15:03:41
1	Tl 190.801†	-1.3	3.5	-0.0794 mg/L	-0.0794 mg/L	15:03:53
1	V 292.402†	55910.6	56922.3	0.2540 mg/L	0.2540 mg/L	15:03:43
1	Zn 213.857†	102327.7	102396.5	0.7484 mg/L	0.7484 mg/L	15:03:43
2	B 249.677†	-33.1	-27.0	-0.0137 mg/L	-0.0137 mg/L	15:03:36
2	Fe 234.349†	203967.1	206382.5	137.6 mg/L	137.6 mg/L	15:03:34
2	K 766.490†	19160.0	18569.7	10.29 mg/L	10.29 mg/L	15:03:36
2	Li 670.784†	3428.0	3704.4	0.1063 mg/L	0.1063 mg/L	15:03:36
2	Na 589.592†	3042.4	2598.8	0.5861 mg/L	0.5861 mg/L	15:03:36
2	Sr 407.771†	130218.7	131694.5	0.1539 mg/L	0.1539 mg/L	15:03:34
2	Y 371.029	2669336.8	2669336.8	0.988 mg/L		15:03:56
2	Ag 328.068†	28220.2	26690.2	0.1532 mg/L	0.1532 mg/L	15:03:58
2	Al 237.313†	746875.7	756175.4	83.70 mg/L	83.70 mg/L	15:03:56
2	As 188.979†	120.0	128.0	0.0971 mg/L	0.0971 mg/L	15:04:09
2	B 182.528†	11.3	21.0	0.0224 mg/L	0.0224 mg/L	15:04:09
2	Ba 233.527†	74668.2	75651.9	0.6622 mg/L	0.6622 mg/L	15:03:58
2	Be 313.107†	12313.0	13897.2	0.0053 mg/L	0.0053 mg/L	15:03:58
2	Ca 315.887†	2086603.9	2113258.1	23.07 mg/L	23.07 mg/L	15:03:56
2	Cd 228.802†	282.1	126.4	0.0026 mg/L	0.0026 mg/L	15:04:09
2	Co 228.616†	2776.3	3051.1	0.0506 mg/L	0.0506 mg/L	15:04:09
2	Cr 267.716†	17006.4	16642.2	0.1485 mg/L	0.1485 mg/L	15:03:58
2	Cu 324.752†	106934.3	103401.2	0.5664 mg/L	0.5664 mg/L	15:03:58
2	Mg 279.077†	242072.4	244943.6	19.77 mg/L	19.77 mg/L	15:03:56
2	Mn 257.610†	1682211.1	1686115.0	2.140 mg/L	2.140 mg/L	15:03:56
2	Mn 294.920†	839427.9	850728.5	2.220 mg/L	2.220 mg/L	15:03:56
2	Mo 202.031†	329.7	297.7	-0.0086 mg/L	-0.0086 mg/L	15:03:58
2	Ni 231.604†	5559.9	5467.9	0.1235 mg/L	0.1235 mg/L	15:03:58
2	P 214.914†	8660.7	8790.6	5.547 mg/L	5.547 mg/L	15:03:58
2	Pb 220.353†	20165.5	20222.8	1.408 mg/L	1.408 mg/L	15:03:58
2	Sb 206.836†	95.5	48.8	-0.0134 mg/L	-0.0134 mg/L	15:04:09
2	Se 196.026†	-19.9	-31.0	-0.0438 mg/L	-0.0438 mg/L	15:04:09
2	Sn 189.927†	56.8	28.2	0.0170 mg/L	0.0170 mg/L	15:04:09
2	Ti 337.279†	4130771.2	4180444.4	4.884 mg/L	4.884 mg/L	15:03:56
2	Tl 190.801†	-5.5	-0.7	-0.0830 mg/L	-0.0830 mg/L	15:04:09
2	V 292.402†	57228.9	58256.7	0.2600 mg/L	0.2600 mg/L	15:03:58
2	Zn 213.857†	104575.3	104671.8	0.7651 mg/L	0.7651 mg/L	15:03:58

Mean Data: 1307061-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2669349.8	0.988	mg/L	0.0000				0.00%
Ag 328.068†	26438.6	0.1518	mg/L	0.00196	0.1518	mg/L	0.00196	1.29%
Al 237.313†	756541.6	83.74	mg/L	0.057	83.74	mg/L	0.057	0.07%
As 188.979†	128.5	0.0975	mg/L	0.00052	0.0975	mg/L	0.00052	0.54%
B 249.677†	-20.3	-0.0100	mg/L	0.00527	-0.0100	mg/L	0.00527	52.64%
B 182.528†	22.9	0.0245	mg/L	0.00290	0.0245	mg/L	0.00290	11.86%
Ba 233.527†	74840.4	0.6552	mg/L	0.01000	0.6552	mg/L	0.01000	1.53%
Be 313.107†	13757.7	0.0053	mg/L	0.00009	0.0053	mg/L	0.00009	1.66%
Ca 315.887†	2113688.3	23.07	mg/L	0.007	23.07	mg/L	0.007	0.03%
Cd 228.802†	122.7	0.0025	mg/L	0.00017	0.0025	mg/L	0.00017	7.01%
Co 228.616†	3090.6	0.0514	mg/L	0.00112	0.0514	mg/L	0.00112	2.17%
Cr 267.716†	16504.8	0.1473	mg/L	0.00169	0.1473	mg/L	0.00169	1.15%
Cu 324.752†	102194.9	0.5599	mg/L	0.00918	0.5599	mg/L	0.00918	1.64%
Fe 234.349†	207020.2	138.0	mg/L	0.60	138.0	mg/L	0.60	0.44%
K 766.490†	18752.5	10.39	mg/L	0.141	10.39	mg/L	0.141	1.36%
Li 670.784†	3661.4	0.1051	mg/L	0.00167	0.1051	mg/L	0.00167	1.59%
Mg 279.077†	245082.1	19.78	mg/L	0.016	19.78	mg/L	0.016	0.08%
Mn 257.610†	1686068.6	2.140	mg/L	0.0002	2.140	mg/L	0.0002	0.01%
Mn 294.920†	850862.2	2.220	mg/L	0.0005	2.220	mg/L	0.0005	0.02%
Mo 202.031†	352.2	-0.0063	mg/L	0.00324	-0.0063	mg/L	0.00324	51.11%
Na 589.592†	2663.2	0.5978	mg/L	0.01657	0.5978	mg/L	0.01657	2.77%

Ni 231.604†	5410.4	0.1223 mg/L	0.00181	0.1223 mg/L	0.00181	1.48%
P 214.914†	8680.0	5.478 mg/L	0.0979	5.478 mg/L	0.0979	1.79%
Pb 220.353†	20082.3	1.398 mg/L	0.0140	1.398 mg/L	0.0140	1.00%
Sb 206.836†	47.1	-0.0143 mg/L	0.00125	-0.0143 mg/L	0.00125	8.76%
Se 196.026†	-28.5	-0.0421 mg/L	0.00235	-0.0421 mg/L	0.00235	5.58%
Sn 189.927†	18.7	0.0156 mg/L	0.00198	0.0156 mg/L	0.00198	12.67%
Sr 407.771†	132102.5	0.1544 mg/L	0.00067	0.1544 mg/L	0.00067	0.44%
Ti 337.279†	4181538.5	4.886 mg/L	0.0018	4.886 mg/L	0.0018	0.04%
Tl 190.801†	1.4	-0.0812 mg/L	0.00260	-0.0812 mg/L	0.00260	3.20%
V 292.402†	57589.5	0.2570 mg/L	0.00425	0.2570 mg/L	0.00425	1.65%
Zn 213.857†	103534.1	0.7567 mg/L	0.01184	0.7567 mg/L	0.01184	1.56%

Sequence No.: 31
Sample ID: 1307061-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 7/5/2013 3:05:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307061-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-26.8	-20.8	-0.0103 mg/L	-0.0103 mg/L	15:07:30	
1	Fe 234.349†	278626.7	284059.1	189.4 mg/L	189.4 mg/L	15:07:28	
1	K 766.490†	44280.6	44327.2	24.33 mg/L	24.33 mg/L	15:07:28	
1	Li 670.784†	6043.7	6397.3	0.1803 mg/L	0.1803 mg/L	15:07:30	
1	Na 589.592†	3497.0	3085.5	0.6746 mg/L	0.6746 mg/L	15:07:30	
1	Sr 407.771†	108117.1	110157.1	0.1288 mg/L	0.1288 mg/L	15:07:28	
1	Y 371.029	2649316.5	2649316.5	0.981 mg/L	0.981 mg/L	15:07:40	
1	Ag 328.068†	40338.8	39261.1	0.2241 mg/L	0.2241 mg/L	15:07:42	
1	Al 237.313†	916922.0	935252.2	103.5 mg/L	103.5 mg/L	15:07:40	
1	As 188.979†	92.9	101.4	0.0776 mg/L	0.0776 mg/L	15:07:52	
1	B 182.528†	25.0	35.0	0.0375 mg/L	0.0375 mg/L	15:07:52	
1	Ba 233.527†	161323.2	164569.5	1.437 mg/L	1.437 mg/L	15:07:42	
1	Be 313.107†	13030.6	14723.0	0.0054 mg/L	0.0054 mg/L	15:07:42	
1	Ca 315.887†	2513484.3	2564427.2	27.99 mg/L	27.99 mg/L	15:07:40	
1	Cd 228.802†	315.0	162.1	0.0028 mg/L	0.0028 mg/L	15:07:52	
1	Co 228.616†	4154.5	4477.3	0.0763 mg/L	0.0763 mg/L	15:07:52	
1	Cr 267.716†	24955.8	24876.8	0.2202 mg/L	0.2202 mg/L	15:07:42	
1	Cu 324.752†	156225.9	154472.8	0.8427 mg/L	0.8427 mg/L	15:07:42	
1	Mg 279.077†	510808.8	520777.2	42.00 mg/L	42.00 mg/L	15:07:40	
1	Mn 257.610†	2579320.7	2613600.8	3.321 mg/L	3.321 mg/L	15:07:40	
1	Mn 294.920†	1291690.3	1318238.5	3.439 mg/L	3.439 mg/L	15:07:40	
1	Mo 202.031†	253.2	222.2	-0.0211 mg/L	-0.0211 mg/L	15:07:42	
1	Ni 231.604†	7853.0	7848.2	0.1766 mg/L	0.1766 mg/L	15:07:42	
1	P 214.914†	9870.0	10089.7	6.358 mg/L	6.358 mg/L	15:07:42	
1	Pb 220.353†	13766.5	13853.1	0.9548 mg/L	0.9548 mg/L	15:07:42	
1	Sb 206.836†	102.6	56.8	-0.0252 mg/L	-0.0252 mg/L	15:07:52	
1	Se 196.026†	-26.8	-38.2	-0.0590 mg/L	-0.0590 mg/L	15:07:52	
1	Sn 189.927†	23.4	-5.5	0.0151 mg/L	0.0151 mg/L	15:07:52	
1	Ti 337.279†	5193331.4	5295333.6	6.186 mg/L	6.186 mg/L	15:07:40	
1	Tl 190.801†	-15.2	-10.7	-0.1240 mg/L	-0.1240 mg/L	15:07:52	
1	V 292.402†	68063.0	69740.0	0.3096 mg/L	0.3096 mg/L	15:07:42	
1	Zn 213.857†	159943.4	161920.4	1.183 mg/L	1.183 mg/L	15:07:42	
2	B 249.677†	-20.5	-14.3	-0.0067 mg/L	-0.0067 mg/L	15:07:35	
2	Fe 234.349†	281673.2	286307.6	190.9 mg/L	190.9 mg/L	15:07:33	
2	K 766.490†	44681.2	44599.6	24.48 mg/L	24.48 mg/L	15:07:33	
2	Li 670.784†	6166.6	6503.9	0.1832 mg/L	0.1832 mg/L	15:07:35	
2	Na 589.592†	3507.1	3085.2	0.6746 mg/L	0.6746 mg/L	15:07:35	
2	Sr 407.771†	109184.3	110912.7	0.1297 mg/L	0.1297 mg/L	15:07:33	
2	Y 371.029	2657251.6	2657251.6	0.984 mg/L	0.984 mg/L	15:07:55	
2	Ag 328.068†	40156.4	38952.9	0.2225 mg/L	0.2225 mg/L	15:07:57	
2	Al 237.313†	919423.3	935003.2	103.5 mg/L	103.5 mg/L	15:07:55	
2	As 188.979†	89.6	97.7	0.0750 mg/L	0.0750 mg/L	15:08:08	
2	B 182.528†	20.1	30.0	0.0321 mg/L	0.0321 mg/L	15:08:08	
2	Ba 233.527†	160099.0	162834.0	1.422 mg/L	1.422 mg/L	15:07:57	
2	Be 313.107†	12987.5	14639.5	0.0054 mg/L	0.0054 mg/L	15:07:57	
2	Ca 315.887†	2522243.1	2565678.0	28.00 mg/L	28.00 mg/L	15:07:55	
2	Cd 228.802†	310.9	156.9	0.0027 mg/L	0.0027 mg/L	15:08:08	
2	Co 228.616†	4174.2	4484.8	0.0765 mg/L	0.0765 mg/L	15:08:08	
2	Cr 267.716†	24720.2	24561.3	0.2175 mg/L	0.2175 mg/L	15:07:57	
2	Cu 324.752†	155076.1	152828.4	0.8339 mg/L	0.8339 mg/L	15:07:57	

2	Mg 279.077†	512628.1	521071.3	42.02 mg/L	42.02 mg/L	15:07:55
2	Mn 257.610†	2585497.2	2612026.3	3.319 mg/L	3.319 mg/L	15:07:55
2	Mn 294.920†	1294998.6	1317668.8	3.438 mg/L	3.438 mg/L	15:07:55
2	Mo 202.031†	367.5	337.6	-0.0164 mg/L	-0.0164 mg/L	15:07:57
2	Ni 231.604†	7789.2	7759.5	0.1746 mg/L	0.1746 mg/L	15:07:57
2	P 214.914†	9831.9	10020.9	6.315 mg/L	6.315 mg/L	15:07:57
2	Pb 220.353†	13734.2	13778.4	0.9496 mg/L	0.9496 mg/L	15:07:57
2	Sb 206.836†	106.0	59.9	-0.0240 mg/L	-0.0240 mg/L	15:08:08
2	Se 196.026†	-17.0	-28.2	-0.0525 mg/L	-0.0525 mg/L	15:08:08
2	Sn 189.927†	18.3	-10.7	0.0143 mg/L	0.0143 mg/L	15:08:08
2	Ti 337.279†	5206023.1	5292423.2	6.182 mg/L	6.182 mg/L	15:07:55
2	Tl 190.801†	2.6	7.5	-0.1072 mg/L	-0.1072 mg/L	15:08:08
2	V 292.402†	67686.7	69150.3	0.3070 mg/L	0.3070 mg/L	15:07:57
2	Zn 213.857†	158857.7	160329.8	1.172 mg/L	1.172 mg/L	15:07:57

Mean Data: 1307061-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2653284.1	0.982 mg/L	0.0021			0.21%
Ag 328.068†	39107.0	0.2233 mg/L	0.00118	0.2233 mg/L	0.00118	0.53%
Al 237.313†	935127.7	103.5 mg/L	0.02	103.5 mg/L	0.02	0.02%
As 188.979†	99.5	0.0763 mg/L	0.00189	0.0763 mg/L	0.00189	2.48%
B 249.677†	-17.6	-0.0085 mg/L	0.00257	-0.0085 mg/L	0.00257	30.30%
B 182.528†	32.5	0.0348 mg/L	0.00381	0.0348 mg/L	0.00381	10.95%
Ba 233.527†	163701.8	1.429 mg/L	0.0107	1.429 mg/L	0.0107	0.75%
Be 313.107†	14681.2	0.0054 mg/L	0.00003	0.0054 mg/L	0.00003	0.48%
Ca 315.887†	2565052.6	27.99 mg/L	0.010	27.99 mg/L	0.010	0.03%
Cd 228.802†	159.5	0.0028 mg/L	0.00013	0.0028 mg/L	0.00013	4.77%
Co 228.616†	4481.1	0.0764 mg/L	0.00011	0.0764 mg/L	0.00011	0.15%
Cr 267.716†	24719.0	0.2189 mg/L	0.00194	0.2189 mg/L	0.00194	0.89%
Cu 324.752†	153650.6	0.8383 mg/L	0.00626	0.8383 mg/L	0.00626	0.75%
Fe 234.349†	285183.3	190.1 mg/L	1.06	190.1 mg/L	1.06	0.56%
K 766.490†	44463.4	24.41 mg/L	0.105	24.41 mg/L	0.105	0.43%
Li 670.784†	6450.6	0.1818 mg/L	0.00207	0.1818 mg/L	0.00207	1.14%
Mg 279.077†	520924.3	42.01 mg/L	0.017	42.01 mg/L	0.017	0.04%
Mn 257.610†	2612813.5	3.320 mg/L	0.0017	3.320 mg/L	0.0017	0.05%
Mn 294.920†	1317953.6	3.439 mg/L	0.0011	3.439 mg/L	0.0011	0.03%
Mo 202.031†	279.9	-0.0188 mg/L	0.00334	-0.0188 mg/L	0.00334	17.81%
Na 589.592†	3085.3	0.6746 mg/L	0.00005	0.6746 mg/L	0.00005	0.01%
Ni 231.604†	7803.9	0.1756 mg/L	0.00139	0.1756 mg/L	0.00139	0.79%
P 214.914†	10055.3	6.336 mg/L	0.0304	6.336 mg/L	0.0304	0.48%
Pb 220.353†	13815.7	0.9522 mg/L	0.00371	0.9522 mg/L	0.00371	0.39%
Sb 206.836†	58.4	-0.0246 mg/L	0.00080	-0.0246 mg/L	0.00080	3.24%
Se 196.026†	-33.2	-0.0558 mg/L	0.00463	-0.0558 mg/L	0.00463	8.30%
Sn 189.927†	-8.1	0.0147 mg/L	0.00054	0.0147 mg/L	0.00054	3.67%
Sr 407.771†	110534.9	0.1292 mg/L	0.00062	0.1292 mg/L	0.00062	0.48%
Ti 337.279†	5293878.4	6.184 mg/L	0.0024	6.184 mg/L	0.0024	0.04%
Tl 190.801†	-1.6	-0.1156 mg/L	0.01187	-0.1156 mg/L	0.01187	10.26%
V 292.402†	69445.1	0.3083 mg/L	0.00185	0.3083 mg/L	0.00185	0.60%
Zn 213.857†	161125.1	1.177 mg/L	0.0083	1.177 mg/L	0.0083	0.71%

Sequence No.: 32

Autosampler Location: 34

Sample ID: 1307061-04

Date Collected: 7/5/2013 3:09:46 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1307061-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-4.9	1.4	0.0021 mg/L	0.0021 mg/L	15:11:29
1	Fe 234.349†	211091.4	217676.3	145.1 mg/L	145.1 mg/L	15:11:27
1	K 766.490†	11534.1	11076.5	6.211 mg/L	6.211 mg/L	15:11:29
1	Li 670.784†	3568.2	3915.2	0.1121 mg/L	0.1121 mg/L	15:11:29
1	Na 589.592†	2291.4	1883.3	0.4559 mg/L	0.4559 mg/L	15:11:29
1	Sr 407.771†	87146.1	89796.8	0.1051 mg/L	0.1051 mg/L	15:11:27
1	Y 371.029	2619245.2	2619245.2	0.970 mg/L		15:11:38
1	Ag 328.068†	28867.1	27903.3	0.1601 mg/L	0.1601 mg/L	15:11:41
1	Al 237.313†	1082950.7	1117198.0	123.7 mg/L	123.7 mg/L	15:11:38
1	As 188.979†	115.7	126.0	0.0957 mg/L	0.0957 mg/L	15:11:51

1	B	182.528†	17.8	27.9	0.0298	mg/L	0.0298	mg/L	15:11:51
1	Ba	233.527†	101296.4	104556.5	0.9141	mg/L	0.9141	mg/L	15:11:41
1	Be	313.107†	15092.4	17001.7	0.0065	mg/L	0.0065	mg/L	15:11:41
1	Ca	315.887†	1380434.7	1425416.6	15.57	mg/L	15.57	mg/L	15:11:38
1	Cd	228.802†	306.8	157.3	0.0035	mg/L	0.0035	mg/L	15:11:51
1	Co	228.616†	2397.3	2713.9	0.0419	mg/L	0.0419	mg/L	15:11:51
1	Cr	267.716†	25468.8	25697.9	0.2274	mg/L	0.2274	mg/L	15:11:41
1	Cu	324.752†	203089.2	204628.2	1.112	mg/L	1.112	mg/L	15:11:41
1	Mg	279.077†	211817.2	218428.1	17.63	mg/L	17.63	mg/L	15:11:41
1	Mn	257.610†	2205145.5	2257932.3	2.874	mg/L	2.874	mg/L	15:11:38
1	Mn	294.920†	1098192.2	1133817.4	2.958	mg/L	2.958	mg/L	15:11:38
1	Mo	202.031†	244.4	216.1	-0.0163	mg/L	-0.0163	mg/L	15:11:41
1	Ni	231.604†	5691.9	5711.6	0.1290	mg/L	0.1290	mg/L	15:11:41
1	P	214.914†	11111.0	11485.0	7.228	mg/L	7.228	mg/L	15:11:41
1	Pb	220.353†	20388.9	20843.5	1.443	mg/L	1.443	mg/L	15:11:41
1	Sb	206.836†	113.1	68.8	-0.0069	mg/L	-0.0069	mg/L	15:11:51
1	Se	196.026†	-19.2	-30.7	-0.0450	mg/L	-0.0450	mg/L	15:11:51
1	Sn	189.927†	219.8	197.4	0.0374	mg/L	0.0374	mg/L	15:11:51
1	Ti	337.279†	4813255.9	4964177.5	5.799	mg/L	5.799	mg/L	15:11:38
1	Tl	190.801†	-0.4	4.4	-0.0825	mg/L	-0.0825	mg/L	15:11:51
1	V	292.402†	45302.8	47065.7	0.2075	mg/L	0.2075	mg/L	15:11:41
1	Zn	213.857†	111541.1	113878.8	0.8318	mg/L	0.8318	mg/L	15:11:41
2	B	249.677†	-23.5	-18.0	-0.0087	mg/L	-0.0087	mg/L	15:11:33
2	Fe	234.349†	210079.3	219244.3	146.2	mg/L	146.2	mg/L	15:11:31
2	K	766.490†	11509.8	11194.5	6.275	mg/L	6.275	mg/L	15:11:33
2	Li	670.784†	3450.1	3836.4	0.1099	mg/L	0.1099	mg/L	15:11:33
2	Na	589.592†	2230.6	1848.3	0.4495	mg/L	0.4495	mg/L	15:11:33
2	Sr	407.771†	86829.2	90549.4	0.1059	mg/L	0.1059	mg/L	15:11:31
2	Y	371.029	2588044.9	2588044.9	0.958	mg/L			15:11:54
2	Ag	328.068†	29036.5	28439.0	0.1631	mg/L	0.1631	mg/L	15:11:56
2	Al	237.313†	1069538.2	1116663.2	123.6	mg/L	123.6	mg/L	15:11:54
2	As	188.979†	115.4	127.1	0.0965	mg/L	0.0965	mg/L	15:12:06
2	B	182.528†	21.0	31.5	0.0337	mg/L	0.0337	mg/L	15:12:06
2	Ba	233.527†	102108.0	106662.9	0.9324	mg/L	0.9324	mg/L	15:11:56
2	Be	313.107†	15024.1	17118.1	0.0065	mg/L	0.0065	mg/L	15:11:56
2	Ca	315.887†	1363133.2	1424521.3	15.56	mg/L	15.56	mg/L	15:11:54
2	Cd	228.802†	315.3	170.0	0.0038	mg/L	0.0038	mg/L	15:12:06
2	Co	228.616†	2438.7	2786.9	0.0434	mg/L	0.0434	mg/L	15:12:06
2	Cr	267.716†	25647.2	26200.7	0.2318	mg/L	0.2318	mg/L	15:11:56
2	Cu	324.752†	204563.8	208691.9	1.134	mg/L	1.134	mg/L	15:11:56
2	Mg	279.077†	213898.4	223233.4	18.02	mg/L	18.02	mg/L	15:11:56
2	Mn	257.610†	2178358.9	2257390.6	2.873	mg/L	2.873	mg/L	15:11:54
2	Mn	294.920†	1083990.6	1132648.4	2.955	mg/L	2.955	mg/L	15:11:54
2	Mo	202.031†	311.1	288.7	-0.0135	mg/L	-0.0135	mg/L	15:11:56
2	Ni	231.604†	5728.1	5820.1	0.1314	mg/L	0.1314	mg/L	15:11:56
2	P	214.914†	11204.2	11720.4	7.376	mg/L	7.376	mg/L	15:11:56
2	Pb	220.353†	20603.0	21320.4	1.477	mg/L	1.477	mg/L	15:11:56
2	Sb	206.836†	115.1	72.3	-0.0056	mg/L	-0.0056	mg/L	15:12:06
2	Se	196.026†	-6.5	-17.7	-0.0364	mg/L	-0.0364	mg/L	15:12:06
2	Sn	189.927†	230.8	211.6	0.0395	mg/L	0.0395	mg/L	15:12:06
2	Ti	337.279†	4754968.3	4963183.6	5.798	mg/L	5.798	mg/L	15:11:54
2	Tl	190.801†	-7.4	-2.9	-0.0902	mg/L	-0.0902	mg/L	15:12:06
2	V	292.402†	45683.7	48026.5	0.2119	mg/L	0.2119	mg/L	15:11:56
2	Zn	213.857†	112525.8	116293.1	0.8495	mg/L	0.8495	mg/L	15:11:56

Mean Data: 1307061-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2603645.1	0.964	mg/L	0.0082				0.85%
Ag 328.068†	28171.2	0.1616	mg/L	0.00212	0.1616	mg/L	0.00212	1.31%
Al 237.313†	1116930.6	123.6	mg/L	0.04	123.6	mg/L	0.04	0.03%
As 188.979†	126.5	0.0961	mg/L	0.00056	0.0961	mg/L	0.00056	0.58%
B 249.677†	-8.3	-0.0033	mg/L	0.00764	-0.0033	mg/L	0.00764	228.71%
B 182.528†	29.7	0.0318	mg/L	0.00277	0.0318	mg/L	0.00277	8.73%
Ba 233.527†	105609.7	0.9232	mg/L	0.01298	0.9232	mg/L	0.01298	1.41%
Be 313.107†	17059.9	0.0065	mg/L	0.00004	0.0065	mg/L	0.00004	0.56%
Ca 315.887†	1424969.0	15.57	mg/L	0.007	15.57	mg/L	0.007	0.04%
Cd 228.802†	163.7	0.0036	mg/L	0.00027	0.0036	mg/L	0.00027	7.36%
Co 228.616†	2750.4	0.0426	mg/L	0.00104	0.0426	mg/L	0.00104	2.43%
Cr 267.716†	25949.3	0.2296	mg/L	0.00310	0.2296	mg/L	0.00310	1.35%
Cu 324.752†	206660.0	1.123	mg/L	0.0155	1.123	mg/L	0.0155	1.38%
Fe 234.349†	218460.3	145.7	mg/L	0.74	145.7	mg/L	0.74	0.51%

K 766.490†	11135.5	6.243 mg/L	0.0455	6.243 mg/L	0.0455	0.73%
Li 670.784†	3875.8	0.1110 mg/L	0.00153	0.1110 mg/L	0.00153	1.38%
Mg 279.077†	220830.8	17.83 mg/L	0.274	17.83 mg/L	0.274	1.54%
Mn 257.610†	2257661.5	2.873 mg/L	0.0007	2.873 mg/L	0.0007	0.02%
Mn 294.920†	1133232.9	2.957 mg/L	0.0022	2.957 mg/L	0.0022	0.07%
Mo 202.031†	252.4	-0.0149 mg/L	0.00198	-0.0149 mg/L	0.00198	13.34%
Na 589.592†	1865.8	0.4527 mg/L	0.00450	0.4527 mg/L	0.00450	0.99%
Ni 231.604†	5765.8	0.1302 mg/L	0.00171	0.1302 mg/L	0.00171	1.32%
P 214.914†	11602.7	7.302 mg/L	0.1041	7.302 mg/L	0.1041	1.43%
Pb 220.353†	21082.0	1.460 mg/L	0.0238	1.460 mg/L	0.0238	1.63%
Sb 206.836†	70.5	-0.0063 mg/L	0.00094	-0.0063 mg/L	0.00094	14.90%
Se 196.026†	-24.2	-0.0407 mg/L	0.00612	-0.0407 mg/L	0.00612	15.05%
Sn 189.927†	204.5	0.0385 mg/L	0.00149	0.0385 mg/L	0.00149	3.86%
Sr 407.771†	90173.1	0.1055 mg/L	0.00062	0.1055 mg/L	0.00062	0.59%
Ti 337.279†	4963680.6	5.798 mg/L	0.0008	5.798 mg/L	0.0008	0.01%
Tl 190.801†	0.7	-0.0864 mg/L	0.00548	-0.0864 mg/L	0.00548	6.34%
V 292.402†	47546.1	0.2097 mg/L	0.00313	0.2097 mg/L	0.00313	1.49%
Zn 213.857†	115085.9	0.8406 mg/L	0.01250	0.8406 mg/L	0.01250	1.49%

Sequence No.: 33
Sample ID: 1307065-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 35
Date Collected: 7/5/2013 3:13:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307065-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-170.5	-191.0	-0.1044 mg/L	-0.1044 mg/L	15:15:31
1	Fe 234.349†	6034427.2	6988793.1	4660 mg/L	4660 mg/L	15:15:29
1	K 766.490†	36809.2	41812.9	22.96 mg/L	22.96 mg/L	15:15:31
1	Li 670.784†	1446.6	1911.0	0.0570 mg/L	0.0570 mg/L	15:15:31
1	Na 589.592†	176308.4	203712.7	37.18 mg/L	37.18 mg/L	15:15:31
1	Sr 407.771†	297587.9	344582.3	0.4021 mg/L	0.4021 mg/L	15:15:31
1	Y 371.029	2332189.0	2332189.0	0.863 mg/L		15:15:49
1	Ag 328.068†	-9690.0	-13087.6	0.0459 mg/L	0.0459 mg/L	15:15:49
1	Al 237.313†	328007.7	380314.0	42.12 mg/L	42.12 mg/L	15:15:45
1	As 188.979†	431.8	506.7	0.3722 mg/L	0.3722 mg/L	15:15:51
1	B 182.528†	383.6	453.8	0.4870 mg/L	0.4870 mg/L	15:15:51
1	Ba 233.527†	89034.4	103212.7	0.9023 mg/L	0.9023 mg/L	15:15:49
1	Be 313.107†	-11781.3	-12206.6	-0.0050 mg/L	-0.0050 mg/L	15:15:49
1	Ca 315.887†	6849742.3	7934936.4	86.51 mg/L	86.51 mg/L	15:15:45
1	Cd 228.802†	1702.4	1812.6	-0.0216 mg/L	-0.0216 mg/L	15:15:49
1	Co 228.616†	14350.7	16862.2	0.3330 mg/L	0.3330 mg/L	15:15:51
1	Cr 267.716†	424953.2	491595.3	4.289 mg/L	4.289 mg/L	15:15:49
1	Cu 324.752†	1067662.5	1231715.4	6.632 mg/L	6.632 mg/L	15:15:49
1	Mg 279.077†	131191.6	151936.7	12.32 mg/L	12.32 mg/L	15:15:49
1	Mn 257.610†	21010127.8	24316904.6	30.23 mg/L	30.23 mg/L	15:15:45
1	Mn 294.920†	11580105.9	13412885.7	34.98 mg/L	34.98 mg/L	15:15:45
1	Mo 202.031†	7870.9	9079.8	-0.3480 mg/L	-0.3480 mg/L	15:15:49
1	Ni 231.604†	68966.3	79715.6	1.779 mg/L	1.779 mg/L	15:15:49
1	P 214.914†	7948.0	9232.1	5.758 mg/L	5.758 mg/L	15:15:51
1	Pb 220.353†	22424.5	25788.9	1.807 mg/L	1.807 mg/L	15:15:51
1	Sb 206.836†	771.8	846.0	-0.9656 mg/L	-0.9656 mg/L	15:15:51
1	Se 196.026†	-1449.0	-1689.1	-2.085 mg/L	-2.085 mg/L	15:15:51
1	Sn 189.927†	1462.4	1664.3	0.2984 mg/L	0.2984 mg/L	15:15:51
1	Ti 337.279†	1568839.9	1817579.0	2.126 mg/L	2.126 mg/L	15:15:49
1	Tl 190.801†	-272.0	-310.2	-3.098 mg/L	-3.098 mg/L	15:15:51
1	V 292.402†	111324.1	129278.8	0.6073 mg/L	0.6073 mg/L	15:15:49
1	Zn 213.857†	842338.2	974412.4	6.942 mg/L	6.942 mg/L	15:15:49
2	B 249.677†	-141.2	-155.8	-0.0848 mg/L	-0.0848 mg/L	15:15:36
2	Fe 234.349†	6039987.4	6939990.6	4628 mg/L	4628 mg/L	15:15:34
2	K 766.490†	36665.9	41311.5	22.69 mg/L	22.69 mg/L	15:15:36
2	Li 670.784†	1356.3	1794.0	0.0538 mg/L	0.0538 mg/L	15:15:36
2	Na 589.592†	175015.5	200614.6	36.61 mg/L	36.61 mg/L	15:15:36
2	Sr 407.771†	294961.9	338843.2	0.3954 mg/L	0.3954 mg/L	15:15:36
2	Y 371.029	2350753.1	2350753.1	0.870 mg/L		15:16:01
2	Ag 328.068†	-9823.1	-13152.0	0.0447 mg/L	0.0447 mg/L	15:16:01
2	Al 237.313†	327699.6	376960.0	41.75 mg/L	41.75 mg/L	15:15:58
2	As 188.979†	454.4	528.7	0.3883 mg/L	0.3883 mg/L	15:16:04
2	B 182.528†	386.9	454.1	0.4873 mg/L	0.4873 mg/L	15:16:04

2	Ba	233.527†	89553.0	102994.2	0.9004 mg/L	0.9004 mg/L	15:16:01
2	Be	313.107†	-11933.2	-12273.3	-0.0050 mg/L	-0.0050 mg/L	15:16:01
2	Ca	315.887†	6842751.0	7864255.2	85.74 mg/L	85.74 mg/L	15:15:58
2	Cd	228.802†	1787.6	1894.9	-0.0185 mg/L	-0.0185 mg/L	15:16:01
2	Co	228.616†	14714.3	17148.6	0.3388 mg/L	0.3388 mg/L	15:16:04
2	Cr	267.716†	427698.6	490863.1	4.282 mg/L	4.282 mg/L	15:16:01
2	Cu	324.752†	1075627.5	1231102.3	6.629 mg/L	6.629 mg/L	15:16:01
2	Mg	279.077†	132106.3	151787.8	12.31 mg/L	12.31 mg/L	15:16:01
2	Mn	257.610†	21009614.1	24124154.3	29.99 mg/L	29.99 mg/L	15:15:58
2	Mn	294.920†	11575739.5	13301956.3	34.69 mg/L	34.69 mg/L	15:15:58
2	Mo	202.031†	7971.6	9123.5	-0.3413 mg/L	-0.3413 mg/L	15:16:01
2	Ni	231.604†	69198.7	79351.9	1.771 mg/L	1.771 mg/L	15:16:01
2	P	214.914†	8198.2	9446.9	5.893 mg/L	5.893 mg/L	15:16:04
2	Pb	220.353†	23060.9	26315.1	1.844 mg/L	1.844 mg/L	15:16:04
2	Sb	206.836†	808.3	881.0	-0.9399 mg/L	-0.9399 mg/L	15:16:04
2	Se	196.026†	-1437.8	-1663.0	-2.060 mg/L	-2.060 mg/L	15:16:04
2	Sn	189.927†	1596.3	1804.9	0.3188 mg/L	0.3188 mg/L	15:16:04
2	Ti	337.279†	1579080.3	1814996.6	2.123 mg/L	2.123 mg/L	15:16:01
2	Tl	190.801†	-290.8	-329.4	-3.097 mg/L	-3.097 mg/L	15:16:04
2	V	292.402†	112121.5	129176.9	0.6069 mg/L	0.6069 mg/L	15:16:01
2	Zn	213.857†	848518.3	973809.4	6.939 mg/L	6.939 mg/L	15:16:01

Mean Data: 1307065-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2341471.1	0.867 mg/L		0.0049			0.56%
Ag 328.068†	-13119.8	0.0453 mg/L		0.00083	0.0453 mg/L	0.00083	1.83%
Al 237.313†	378637.0	41.93 mg/L		0.262	41.93 mg/L	0.262	0.63%
As 188.979†	517.7	0.3803 mg/L		0.01136	0.3803 mg/L	0.01136	2.99%
B 249.677†	-173.4	-0.0946 mg/L		0.01385	-0.0946 mg/L	0.01385	14.64%
B 182.528†	454.0	0.4872 mg/L		0.00025	0.4872 mg/L	0.00025	0.05%
Ba 233.527†	103103.5	0.9014 mg/L		0.00135	0.9014 mg/L	0.00135	0.15%
Be 313.107†	-12240.0	-0.0050 mg/L		0.00002	-0.0050 mg/L	0.00002	0.42%
Ca 315.887†	7899595.8	86.13 mg/L		0.545	86.13 mg/L	0.545	0.63%
Cd 228.802†	1853.7	-0.0201 mg/L		0.00221	-0.0201 mg/L	0.00221	11.02%
Co 228.616†	17005.4	0.3359 mg/L		0.00406	0.3359 mg/L	0.00406	1.21%
Cr 267.716†	491229.2	4.286 mg/L		0.0045	4.286 mg/L	0.0045	0.11%
Cu 324.752†	1231408.8	6.631 mg/L		0.0023	6.631 mg/L	0.0023	0.04%
Fe 234.349†	6964391.9	4644 mg/L		23.0	4644 mg/L	23.0	0.50%
K 766.490†	41562.2	22.83 mg/L		0.193	22.83 mg/L	0.193	0.85%
Li 670.784†	1852.5	0.0554 mg/L		0.00227	0.0554 mg/L	0.00227	4.10%
Mg 279.077†	151862.3	12.32 mg/L		0.009	12.32 mg/L	0.009	0.07%
Mn 257.610†	24220529.5	30.11 mg/L		0.170	30.11 mg/L	0.170	0.57%
Mn 294.920†	13357421.0	34.84 mg/L		0.205	34.84 mg/L	0.205	0.59%
Mo 202.031†	9101.7	-0.3446 mg/L		0.00478	-0.3446 mg/L	0.00478	1.39%
Na 589.592†	202163.6	36.90 mg/L		0.399	36.90 mg/L	0.399	1.08%
Ni 231.604†	79533.7	1.775 mg/L		0.0057	1.775 mg/L	0.0057	0.32%
P 214.914†	9339.5	5.826 mg/L		0.0951	5.826 mg/L	0.0951	1.63%
Pb 220.353†	26052.0	1.825 mg/L		0.0263	1.825 mg/L	0.0263	1.44%
Sb 206.836†	863.5	-0.9528 mg/L		0.01820	-0.9528 mg/L	0.01820	1.91%
Se 196.026†	-1676.0	-2.073 mg/L		0.0173	-2.073 mg/L	0.0173	0.83%
Sn 189.927†	1734.6	0.3086 mg/L		0.01437	0.3086 mg/L	0.01437	4.66%
Sr 407.771†	341712.7	0.3988 mg/L		0.00473	0.3988 mg/L	0.00473	1.19%
Ti 337.279†	1816287.8	2.125 mg/L		0.0021	2.125 mg/L	0.0021	0.10%
Tl 190.801†	-319.8	-3.097 mg/L		0.0006	-3.097 mg/L	0.0006	0.02%
V 292.402†	129227.8	0.6071 mg/L		0.00032	0.6071 mg/L	0.00032	0.05%
Zn 213.857†	974110.9	6.941 mg/L		0.0021	6.941 mg/L	0.0021	0.03%

Sequence No.: 34

Sample ID: 1307065-02

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 36

Date Collected: 7/5/2013 3:19:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307065-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-65.8	-62.3	-0.0332 mg/L	-0.0332 mg/L	15:20:57
1	Fe 234.349†	6219554.8	6504867.6	4338 mg/L	4338 mg/L	15:20:55
1	K 766.490†	30053.4	30614.3	16.86 mg/L	16.86 mg/L	15:20:57

1	Li 670.784†	2195.7	2532.0	0.0740 mg/L	0.0740 mg/L	15:20:57
1	Na 589.592†	274621.6	286740.1	52.28 mg/L	52.28 mg/L	15:20:57
1	Sr 407.771†	404000.0	422462.8	0.4929 mg/L	0.4929 mg/L	15:20:55
1	Y 371.029	2582561.6	2582561.6	0.956 mg/L		15:21:16
1	Ag 328.068†	-9944.3	-12265.7	0.0424 mg/L	0.0424 mg/L	15:21:16
1	Al 237.313†	1230905.2	1287802.8	142.5 mg/L	142.5 mg/L	15:21:13
1	As 188.979†	611.9	646.6	0.4739 mg/L	0.4739 mg/L	15:21:18
1	B 182.528†	448.6	478.7	0.5138 mg/L	0.5138 mg/L	15:21:18
1	Ba 233.527†	77072.8	80705.5	0.7063 mg/L	0.7063 mg/L	15:21:16
1	Be 313.107†	-8931.1	-7902.8	-0.0034 mg/L	-0.0034 mg/L	15:21:16
1	Ca 315.887†	7192046.8	7523854.6	82.04 mg/L	82.04 mg/L	15:21:13
1	Cd 228.802†	3018.4	2997.8	0.0209 mg/L	0.0209 mg/L	15:21:16
1	Co 228.616†	10264.8	10977.5	0.2152 mg/L	0.2152 mg/L	15:21:18
1	Cr 267.716†	166937.3	174029.2	1.520 mg/L	1.520 mg/L	15:21:16
1	Cu 324.752†	568969.2	590267.5	3.182 mg/L	3.182 mg/L	15:21:16
1	Mg 279.077†	189559.6	198252.1	16.04 mg/L	16.04 mg/L	15:21:16
1	Mn 257.610†	17433177.5	18216844.8	22.46 mg/L	22.46 mg/L	15:21:13
1	Mn 294.920†	9674644.1	10119796.7	26.39 mg/L	26.39 mg/L	15:21:13
1	Mo 202.031†	2318.7	2389.2	-0.5645 mg/L	-0.5645 mg/L	15:21:16
1	Ni 231.604†	34077.9	35483.2	0.7927 mg/L	0.7927 mg/L	15:21:16
1	P 214.914†	14879.0	15588.7	9.778 mg/L	9.778 mg/L	15:21:18
1	Pb 220.353†	30379.8	31591.3	2.196 mg/L	2.196 mg/L	15:21:18
1	Sb 206.836†	805.9	795.1	-0.8765 mg/L	-0.8765 mg/L	15:21:18
1	Se 196.026†	-1513.9	-1594.2	-1.955 mg/L	-1.955 mg/L	15:21:18
1	Sn 189.927†	1379.9	1413.9	0.2586 mg/L	0.2586 mg/L	15:21:18
1	Ti 337.279†	1726032.4	1805833.2	2.113 mg/L	2.113 mg/L	15:21:16
1	Tl 190.801†	-281.1	-289.2	-2.885 mg/L	-2.885 mg/L	15:21:18
1	V 292.402†	143850.9	150798.3	0.6499 mg/L	0.6499 mg/L	15:21:16
1	Zn 213.857†	9899684.2	10352682.8	75.98 mg/L	75.98 mg/L	15:21:13
2	B 249.677†	-73.4	-76.8	-0.0413 mg/L	-0.0413 mg/L	15:21:02
2	Fe 234.349†	6217512.7	7051007.0	4702 mg/L	4702 mg/L	15:21:00
2	K 766.490†	29760.1	32931.8	18.12 mg/L	18.12 mg/L	15:21:02
2	Li 670.784†	2098.5	2615.4	0.0763 mg/L	0.0763 mg/L	15:21:02
2	Na 589.592†	272941.8	309051.9	56.34 mg/L	56.34 mg/L	15:21:02
2	Sr 407.771†	403466.4	457483.4	0.5338 mg/L	0.5338 mg/L	15:21:00
2	Y 371.029	2381745.8	2381745.8	0.882 mg/L		15:21:29
2	Ag 328.068†	-10237.4	-13475.0	0.0448 mg/L	0.0448 mg/L	15:21:29
2	Al 237.313†	1219203.5	1383076.7	153.1 mg/L	153.1 mg/L	15:21:26
2	As 188.979†	658.0	752.8	0.5512 mg/L	0.5512 mg/L	15:21:32
2	B 182.528†	451.9	522.0	0.5602 mg/L	0.5602 mg/L	15:21:32
2	Ba 233.527†	78219.4	88802.3	0.7768 mg/L	0.7768 mg/L	15:21:29
2	Be 313.107†	-9044.8	-8819.3	-0.0039 mg/L	-0.0039 mg/L	15:21:29
2	Ca 315.887†	7122320.7	8078993.2	88.09 mg/L	88.09 mg/L	15:21:26
2	Cd 228.802†	3135.0	3396.2	0.0271 mg/L	0.0271 mg/L	15:21:29
2	Co 228.616†	10638.2	12306.2	0.2413 mg/L	0.2413 mg/L	15:21:32
2	Cr 267.716†	169296.6	191425.8	1.672 mg/L	1.672 mg/L	15:21:29
2	Cu 324.752†	580275.8	653263.0	3.521 mg/L	3.521 mg/L	15:21:29
2	Mg 279.077†	191466.7	217130.7	17.57 mg/L	17.57 mg/L	15:21:29
2	Mn 257.610†	17295982.1	19598557.1	24.15 mg/L	24.15 mg/L	15:21:26
2	Mn 294.920†	9592843.5	10880163.6	28.38 mg/L	28.38 mg/L	15:21:26
2	Mo 202.031†	2253.0	2519.1	-0.6155 mg/L	-0.6155 mg/L	15:21:29
2	Ni 231.604†	34405.2	38859.4	0.8680 mg/L	0.8680 mg/L	15:21:29
2	P 214.914†	15224.9	17293.0	10.84 mg/L	10.84 mg/L	15:21:32
2	Pb 220.353†	30845.6	34798.5	2.420 mg/L	2.420 mg/L	15:21:32
2	Sb 206.836†	775.2	831.3	-0.9650 mg/L	-0.9650 mg/L	15:21:32
2	Se 196.026†	-1552.2	-1771.2	-2.149 mg/L	-2.149 mg/L	15:21:32
2	Sn 189.927†	1451.2	1616.4	0.2923 mg/L	0.2923 mg/L	15:21:32
2	Ti 337.279†	1754500.8	1990323.8	2.328 mg/L	2.328 mg/L	15:21:29
2	Tl 190.801†	-290.2	-324.3	-3.137 mg/L	-3.137 mg/L	15:21:32
2	V 292.402†	146045.9	165972.7	0.7158 mg/L	0.7158 mg/L	15:21:29
2	Zn 213.857†	9842197.9	11160468.0	81.90 mg/L	81.90 mg/L	15:21:26

Mean Data: 1307065-02

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc.			Units	Std.Dev.	
Y 371.029	2482153.7	0.919	mg/L	0.0526			5.72%
Ag 328.068†	-12870.3	0.0436	mg/L	0.00171	0.0436 mg/L	0.00171	3.92%
Al 237.313†	1335439.7	147.8	mg/L	7.46	147.8 mg/L	7.46	5.04%
As 188.979†	699.7	0.5126	mg/L	0.05461	0.5126 mg/L	0.05461	10.66%
B 249.677†	-69.5	-0.0373	mg/L	0.00569	-0.0373 mg/L	0.00569	15.27%
B 182.528†	500.4	0.5370	mg/L	0.03285	0.5370 mg/L	0.03285	6.12%
Ba 233.527†	84753.9	0.7415	mg/L	0.04988	0.7415 mg/L	0.04988	6.73%

Be 313.107†	-8361.0	-0.0036 mg/L	0.00031	-0.0036 mg/L	0.00031	8.49%
Ca 315.887†	7801423.9	85.06 mg/L	4.278	85.06 mg/L	4.278	5.03%
Cd 228.802†	3197.0	0.0240 mg/L	0.00442	0.0240 mg/L	0.00442	18.41%
Co 228.616†	11641.8	0.2282 mg/L	0.01847	0.2282 mg/L	0.01847	8.09%
Cr 267.716†	182727.5	1.596 mg/L	0.1072	1.596 mg/L	0.1072	6.72%
Cu 324.752†	621765.3	3.351 mg/L	0.2398	3.351 mg/L	0.2398	7.15%
Fe 234.349†	6777937.3	4520 mg/L	257.5	4520 mg/L	257.5	5.70%
K 766.490†	31773.0	17.49 mg/L	0.893	17.49 mg/L	0.893	5.11%
Li 670.784†	2573.7	0.0752 mg/L	0.00162	0.0752 mg/L	0.00162	2.15%
Mg 279.077†	207691.4	16.80 mg/L	1.078	16.80 mg/L	1.078	6.41%
Mn 257.610†	18907701.0	23.31 mg/L	1.199	23.31 mg/L	1.199	5.14%
Mn 294.920†	10499980.2	27.38 mg/L	1.402	27.38 mg/L	1.402	5.12%
Mo 202.031†	2454.1	-0.5900 mg/L	0.03607	-0.5900 mg/L	0.03607	6.11%
Na 589.592†	297896.0	54.31 mg/L	2.871	54.31 mg/L	2.871	5.29%
Ni 231.604†	37171.3	0.8304 mg/L	0.05322	0.8304 mg/L	0.05322	6.41%
P 214.914†	16440.8	10.31 mg/L	0.752	10.31 mg/L	0.752	7.30%
Pb 220.353†	33194.9	2.308 mg/L	0.1582	2.308 mg/L	0.1582	6.86%
Sb 206.836†	813.2	-0.9208 mg/L	0.06256	-0.9208 mg/L	0.06256	6.79%
Se 196.026†	-1682.7	-2.052 mg/L	0.1373	-2.052 mg/L	0.1373	6.69%
Sn 189.927†	1515.1	0.2755 mg/L	0.02385	0.2755 mg/L	0.02385	8.66%
Sr 407.771†	439973.1	0.5134 mg/L	0.02887	0.5134 mg/L	0.02887	5.62%
Ti 337.279†	1898078.5	2.220 mg/L	0.1523	2.220 mg/L	0.1523	6.86%
Tl 190.801†	-306.8	-3.011 mg/L	0.1788	-3.011 mg/L	0.1788	5.94%
V 292.402†	158385.5	0.6829 mg/L	0.04657	0.6829 mg/L	0.04657	6.82%
Zn 213.857†	10756575.4	78.94 mg/L	4.191	78.94 mg/L	4.191	5.31%

Sequence No.: 35

Autosampler Location: 3

Sample ID: CCV1

Date Collected: 7/5/2013 3:24:41 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	791.9	839.8	0.4693 mg/L	0.4693 mg/L	0.4693 mg/L	15:26:32
1	Fe 234.349†	3421.8	3593.9	2.393 mg/L	2.393 mg/L	2.393 mg/L	15:26:32
1	K 766.490†	42598.3	44007.2	24.16 mg/L	24.16 mg/L	24.16 mg/L	15:26:22
1	Li 670.784†	16374.6	17466.1	0.4845 mg/L	0.4845 mg/L	0.4845 mg/L	15:26:22
1	Na 589.592†	126339.2	132463.4	24.21 mg/L	24.21 mg/L	24.21 mg/L	15:26:22
1	Sr 407.771†	38723.6	40677.2	0.0478 mg/L	0.0478 mg/L	0.0478 mg/L	15:26:22
1	Y 371.029	2566860.9	2566860.9	0.950 mg/L	0.950 mg/L	0.950 mg/L	15:26:50
1	Ag 328.068†	42126.9	42463.7	0.2372 mg/L	0.2372 mg/L	0.2372 mg/L	15:26:50
1	Al 237.313†	19710.0	21170.7	2.358 mg/L	2.358 mg/L	2.358 mg/L	15:27:00
1	As 188.979†	599.0	637.0	0.4673 mg/L	0.4673 mg/L	0.4673 mg/L	15:27:00
1	B 182.528†	402.9	433.5	0.4652 mg/L	0.4652 mg/L	0.4652 mg/L	15:27:00
1	Ba 233.527†	50999.0	53761.8	0.4715 mg/L	0.4715 mg/L	0.4715 mg/L	15:26:50
1	Be 313.107†	99504.6	106143.9	0.0470 mg/L	0.0470 mg/L	0.0470 mg/L	15:26:50
1	Ca 315.887†	402616.3	425537.3	4.675 mg/L	4.675 mg/L	4.675 mg/L	15:26:50
1	Cd 228.802†	7345.6	7570.5	0.2374 mg/L	0.2374 mg/L	0.2374 mg/L	15:27:00
1	Co 228.616†	22408.6	23821.7	0.4759 mg/L	0.4759 mg/L	0.4759 mg/L	15:27:00
1	Cr 267.716†	51498.3	53624.0	0.4712 mg/L	0.4712 mg/L	0.4712 mg/L	15:26:50
1	Cu 324.752†	87247.9	87005.6	0.4727 mg/L	0.4727 mg/L	0.4727 mg/L	15:26:50
1	Mg 279.077†	55261.8	58147.0	4.712 mg/L	4.712 mg/L	4.712 mg/L	15:26:50
1	Mn 257.610†	364062.3	367019.9	0.4733 mg/L	0.4733 mg/L	0.4733 mg/L	15:26:50
1	Mn 294.920†	170104.4	180328.4	0.4718 mg/L	0.4718 mg/L	0.4718 mg/L	15:26:50
1	Mo 202.031†	10563.7	11079.9	0.4703 mg/L	0.4703 mg/L	0.4703 mg/L	15:27:00
1	Ni 231.604†	20200.3	21098.1	0.4727 mg/L	0.4727 mg/L	0.4727 mg/L	15:26:50
1	P 214.914†	7006.5	7399.8	4.673 mg/L	4.673 mg/L	4.673 mg/L	15:27:00
1	Pb 220.353†	6643.6	6808.7	0.4809 mg/L	0.4809 mg/L	0.4809 mg/L	15:27:00
1	Sb 206.836†	996.5	1000.8	0.4720 mg/L	0.4720 mg/L	0.4720 mg/L	15:27:00
1	Se 196.026†	1309.3	1366.8	0.9414 mg/L	0.9414 mg/L	0.9414 mg/L	15:27:00
1	Sn 189.927†	3100.9	3233.7	0.4801 mg/L	0.4801 mg/L	0.4801 mg/L	15:27:00
1	Ti 337.279†	378365.6	398763.3	0.4703 mg/L	0.4703 mg/L	0.4703 mg/L	15:26:50
1	Tl 190.801†	467.8	497.1	0.4809 mg/L	0.4809 mg/L	0.4809 mg/L	15:27:00
1	V 292.402†	96897.2	102310.5	0.4771 mg/L	0.4771 mg/L	0.4771 mg/L	15:26:50
1	Zn 213.857†	71504.2	74096.4	0.5439 mg/L	0.5439 mg/L	0.5439 mg/L	15:26:50
2	B 249.677†	787.5	825.7	0.4615 mg/L	0.4615 mg/L	0.4615 mg/L	15:26:45
2	Fe 234.349†	3413.0	3543.5	2.359 mg/L	2.359 mg/L	2.359 mg/L	15:26:45
2	K 766.490†	42103.4	42978.4	23.60 mg/L	23.60 mg/L	23.60 mg/L	15:26:35
2	Li 670.784†	16134.2	17018.5	0.4722 mg/L	0.4722 mg/L	0.4722 mg/L	15:26:35

2	Na 589.592†	124667.4	129200.0	23.62 mg/L	23.62 mg/L	15:26:35
2	Sr 407.771†	38256.3	39723.9	0.0467 mg/L	0.0467 mg/L	15:26:35
2	Y 371.029	2596636.2	2596636.2	0.961 mg/L		15:27:04
2	Ag 328.068†	42605.2	42453.1	0.2372 mg/L	0.2372 mg/L	15:27:04
2	Al 237.313†	19752.9	20977.5	2.337 mg/L	2.337 mg/L	15:27:14
2	As 188.979†	595.9	626.5	0.4597 mg/L	0.4597 mg/L	15:27:14
2	B 182.528†	399.6	425.2	0.4563 mg/L	0.4563 mg/L	15:27:14
2	Ba 233.527†	51510.8	53678.9	0.4708 mg/L	0.4708 mg/L	15:27:04
2	Be 313.107†	100826.4	106318.2	0.0471 mg/L	0.0471 mg/L	15:27:04
2	Ca 315.887†	408042.8	426324.0	4.684 mg/L	4.684 mg/L	15:27:04
2	Cd 228.802†	7352.5	7489.0	0.2348 mg/L	0.2348 mg/L	15:27:14
2	Co 228.616†	22316.5	23455.5	0.4685 mg/L	0.4685 mg/L	15:27:14
2	Cr 267.716†	52228.3	53761.9	0.4724 mg/L	0.4724 mg/L	15:27:04
2	Cu 324.752†	88184.7	86927.3	0.4723 mg/L	0.4723 mg/L	15:27:04
2	Mg 279.077†	55945.2	58191.0	4.715 mg/L	4.715 mg/L	15:27:04
2	Mn 257.610†	368695.4	367446.5	0.4739 mg/L	0.4739 mg/L	15:27:04
2	Mn 294.920†	172070.2	180320.6	0.4718 mg/L	0.4718 mg/L	15:27:04
2	Mo 202.031†	10517.6	10904.6	0.4628 mg/L	0.4628 mg/L	15:27:14
2	Ni 231.604†	20412.6	21075.3	0.4721 mg/L	0.4721 mg/L	15:27:04
2	P 214.914†	6985.2	7293.1	4.607 mg/L	4.607 mg/L	15:27:14
2	Pb 220.353†	6579.5	6661.9	0.4705 mg/L	0.4705 mg/L	15:27:14
2	Sb 206.836†	1000.6	993.0	0.4683 mg/L	0.4683 mg/L	15:27:14
2	Se 196.026†	1295.7	1336.9	0.9209 mg/L	0.9209 mg/L	15:27:14
2	Sn 189.927†	3098.2	3193.5	0.4742 mg/L	0.4742 mg/L	15:27:14
2	Ti 337.279†	383166.2	399191.4	0.4708 mg/L	0.4708 mg/L	15:27:04
2	Tl 190.801†	455.7	478.8	0.4632 mg/L	0.4632 mg/L	15:27:14
2	V 292.402†	98092.2	102384.3	0.4773 mg/L	0.4773 mg/L	15:27:04
2	Zn 213.857†	71658.6	73394.3	0.5387 mg/L	0.5387 mg/L	15:27:04

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2581748.6	0.956 mg/L		0.0078			0.82%
Ag 328.068†	42458.4	0.2372 mg/L		0.00004	0.2372 mg/L	0.00004	0.02%
QC value within limits for Ag 328.068		Recovery = 94.88%					
Al 237.313†	21074.1	2.347 mg/L		0.0151	2.347 mg/L	0.0151	0.64%
QC value within limits for Al 237.313		Recovery = 93.89%					
As 188.979†	631.7	0.4635 mg/L		0.00541	0.4635 mg/L	0.00541	1.17%
QC value within limits for As 188.979		Recovery = 92.70%					
B 249.677†	832.7	0.4654 mg/L		0.00554	0.4654 mg/L	0.00554	1.19%
QC value within limits for B 249.677		Recovery = 93.07%					
B 182.528†	429.4	0.4608 mg/L		0.00629	0.4608 mg/L	0.00629	1.37%
QC value within limits for B 182.528		Recovery = 92.15%					
Ba 233.527†	53720.3	0.4712 mg/L		0.00051	0.4712 mg/L	0.00051	0.11%
QC value within limits for Ba 233.527		Recovery = 94.23%					
Be 313.107†	106231.0	0.0470 mg/L		0.00005	0.0470 mg/L	0.00005	0.12%
QC value within limits for Be 313.107		Recovery = 94.08%					
Ca 315.887†	425930.7	4.679 mg/L		0.0061	4.679 mg/L	0.0061	0.13%
QC value within limits for Ca 315.887		Recovery = 93.59%					
Cd 228.802†	7529.8	0.2361 mg/L		0.00180	0.2361 mg/L	0.00180	0.76%
QC value within limits for Cd 228.802		Recovery = 94.44%					
Co 228.616†	23638.6	0.4722 mg/L		0.00518	0.4722 mg/L	0.00518	1.10%
QC value within limits for Co 228.616		Recovery = 94.44%					
Cr 267.716†	53693.0	0.4718 mg/L		0.00085	0.4718 mg/L	0.00085	0.18%
QC value within limits for Cr 267.716		Recovery = 94.35%					
Cu 324.752†	86966.4	0.4725 mg/L		0.00029	0.4725 mg/L	0.00029	0.06%
QC value within limits for Cu 324.752		Recovery = 94.50%					
Fe 234.349†	3568.7	2.376 mg/L		0.0238	2.376 mg/L	0.0238	1.00%
QC value within limits for Fe 234.349		Recovery = 95.03%					
K 766.490†	43492.8	23.88 mg/L		0.396	23.88 mg/L	0.396	1.66%
QC value within limits for K 766.490		Recovery = 95.51%					
Li 670.784†	17242.3	0.4784 mg/L		0.00870	0.4784 mg/L	0.00870	1.82%
QC value within limits for Li 670.784		Recovery = 95.68%					
Mg 279.077†	58169.0	4.713 mg/L		0.0025	4.713 mg/L	0.0025	0.05%
QC value within limits for Mg 279.077		Recovery = 94.27%					
Mn 257.610†	367233.2	0.4736 mg/L		0.00039	0.4736 mg/L	0.00039	0.08%
QC value within limits for Mn 257.610		Recovery = 94.72%					
Mn 294.920†	180324.5	0.4718 mg/L		0.00001	0.4718 mg/L	0.00001	0.00%
QC value within limits for Mn 294.920		Recovery = 94.36%					
Mo 202.031†	10992.2	0.4666 mg/L		0.00526	0.4666 mg/L	0.00526	1.13%
QC value within limits for Mo 202.031		Recovery = 93.31%					
Na 589.592†	130831.7	23.92 mg/L		0.420	23.92 mg/L	0.420	1.76%

QC value within limits for Na 589.592	Recovery = 95.67%					
Ni 231.604†	21086.7	0.4724 mg/L	0.00037	0.4724 mg/L	0.00037	0.08%
QC value within limits for Ni 231.604	Recovery = 94.48%					
P 214.914†	7346.5	4.640 mg/L	0.0472	4.640 mg/L	0.0472	1.02%
QC value within limits for P 214.914	Recovery = 92.80%					
Pb 220.353†	6735.3	0.4757 mg/L	0.00733	0.4757 mg/L	0.00733	1.54%
QC value within limits for Pb 220.353	Recovery = 95.14%					
Sb 206.836†	996.9	0.4702 mg/L	0.00262	0.4702 mg/L	0.00262	0.56%
QC value within limits for Sb 206.836	Recovery = 94.04%					
Se 196.026†	1351.9	0.9311 mg/L	0.01448	0.9311 mg/L	0.01448	1.55%
QC value within limits for Se 196.026	Recovery = 93.11%					
Sn 189.927†	3213.6	0.4772 mg/L	0.00420	0.4772 mg/L	0.00420	0.88%
QC value within limits for Sn 189.927	Recovery = 95.43%					
Sr 407.771†	40200.5	0.0472 mg/L	0.00079	0.0472 mg/L	0.00079	1.66%
QC value within limits for Sr 407.771	Recovery = 94.48%					
Ti 337.279†	398977.3	0.4706 mg/L	0.00035	0.4706 mg/L	0.00035	0.08%
QC value within limits for Ti 337.279	Recovery = 94.12%					
Tl 190.801†	487.9	0.4721 mg/L	0.01255	0.4721 mg/L	0.01255	2.66%
QC value within limits for Tl 190.801	Recovery = 94.42%					
V 292.402†	102347.4	0.4772 mg/L	0.00017	0.4772 mg/L	0.00017	0.04%
QC value within limits for V 292.402	Recovery = 95.44%					
Zn 213.857†	73745.4	0.5413 mg/L	0.00365	0.5413 mg/L	0.00365	0.67%
QC value within limits for Zn 213.857	Recovery = 108.26%					
All analyte(s) passed QC.						

Sequence No.: 36	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 7/5/2013 3:28:53 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-8.8	-2.6	-0.0002 mg/L	-0.0002 mg/L	15:30:42
1	Fe 234.349†	24.5	18.6	0.0230 mg/L	0.0230 mg/L	15:30:42
1	K 766.490†	931.4	150.2	0.2562 mg/L	0.2562 mg/L	15:30:32
1	Li 670.784†	-351.5	-129.7	0.0009 mg/L	0.0009 mg/L	15:30:32
1	Na 589.592†	58.9	-418.5	0.0371 mg/L	0.0371 mg/L	15:30:32
1	Sr 407.771†	67.1	-0.8	0.0004 mg/L	0.0004 mg/L	15:30:32
1	Y 371.029	2598652.0	2598652.0	0.962 mg/L		15:30:58
1	Ag 328.068†	1738.5	-58.1	0.0015 mg/L	0.0015 mg/L	15:31:01
1	Al 237.313†	-241.9	179.0	0.0332 mg/L	0.0332 mg/L	15:31:01
1	As 188.979†	-5.1	1.3	0.0053 mg/L	0.0053 mg/L	15:31:11
1	B 182.528†	-5.9	3.5	0.0036 mg/L	0.0036 mg/L	15:31:11
1	Ba 233.527†	-90.1	3.4	0.0032 mg/L	0.0032 mg/L	15:31:11
1	Be 313.107†	-1399.8	-16.9	0.0004 mg/L	0.0004 mg/L	15:31:01
1	Ca 315.887†	-1824.7	-21.0	0.0357 mg/L	0.0357 mg/L	15:31:01
1	Cd 228.802†	158.4	5.6	0.0012 mg/L	0.0012 mg/L	15:31:11
1	Co 228.616†	-231.9	0.8	0.0000 mg/L	0.0000 mg/L	15:31:11
1	Cr 267.716†	495.1	-51.6	0.0029 mg/L	0.0029 mg/L	15:31:01
1	Cu 324.752†	4408.9	-220.3	0.0032 mg/L	0.0032 mg/L	15:31:01
1	Mg 279.077†	-22.8	-27.1	0.0230 mg/L	0.0230 mg/L	15:31:01
1	Mn 257.610†	15614.6	157.2	0.0019 mg/L	0.0019 mg/L	15:31:01
1	Mn 294.920†	-1080.7	209.0	0.0021 mg/L	0.0021 mg/L	15:31:01
1	Mo 202.031†	34.9	0.3	0.0025 mg/L	0.0025 mg/L	15:31:11
1	Ni 231.604†	148.6	-3.6	0.0015 mg/L	0.0015 mg/L	15:31:01
1	P 214.914†	-31.9	-6.0	0.0431 mg/L	0.0431 mg/L	15:31:11
1	Pb 220.353†	202.3	28.2	0.0018 mg/L	0.0018 mg/L	15:31:11
1	Sb 206.836†	51.7	5.9	0.0070 mg/L	0.0070 mg/L	15:31:11
1	Se 196.026†	14.6	4.3	0.0080 mg/L	0.0080 mg/L	15:31:11
1	Sn 189.927†	36.4	8.6	-0.0001 mg/L	-0.0001 mg/L	15:31:11
1	Ti 337.279†	-437.0	165.5	0.0051 mg/L	0.0051 mg/L	15:31:01
1	Tl 190.801†	-1.0	3.7	0.0048 mg/L	0.0048 mg/L	15:31:11
1	V 292.402†	-312.7	23.2	0.0047 mg/L	0.0047 mg/L	15:31:01
1	Zn 213.857†	4938.5	3987.7	0.0320 mg/L	0.0320 mg/L	15:31:01
2	B 249.677†	1.2	7.7	0.0056 mg/L	0.0056 mg/L	15:30:55
2	Fe 234.349†	14.3	8.0	0.0159 mg/L	0.0159 mg/L	15:30:55
2	K 766.490†	906.1	118.1	0.2387 mg/L	0.2387 mg/L	15:30:45
2	Li 670.784†	-246.9	-19.5	0.0039 mg/L	0.0039 mg/L	15:30:45
2	Na 589.592†	-39.3	-520.3	0.0186 mg/L	0.0186 mg/L	15:30:45

2	Sr 407.771†	-0.5	-71.0	0.0003 mg/L	0.0003 mg/L	15:30:45
2	Y 371.029	2614925.5	2614925.5	0.968 mg/L		15:31:13
2	Ag 328.068†	1724.1	-84.3	0.0013 mg/L	0.0013 mg/L	15:31:15
2	Al 237.313†	-302.7	117.7	0.0264 mg/L	0.0264 mg/L	15:31:15
2	As 188.979†	-3.4	3.1	0.0066 mg/L	0.0066 mg/L	15:31:26
2	B 182.528†	-4.4	5.1	0.0053 mg/L	0.0053 mg/L	15:31:26
2	Ba 233.527†	-86.1	8.1	0.0032 mg/L	0.0032 mg/L	15:31:26
2	Be 313.107†	-1386.2	6.2	0.0004 mg/L	0.0004 mg/L	15:31:15
2	Ca 315.887†	-1952.1	-140.9	0.0344 mg/L	0.0344 mg/L	15:31:15
2	Cd 228.802†	153.6	-0.4	0.0010 mg/L	0.0010 mg/L	15:31:26
2	Co 228.616†	-223.4	11.0	0.0002 mg/L	0.0002 mg/L	15:31:26
2	Cr 267.716†	528.1	-20.7	0.0032 mg/L	0.0032 mg/L	15:31:15
2	Cu 324.752†	4392.6	-265.6	0.0030 mg/L	0.0030 mg/L	15:31:15
2	Mg 279.077†	22.2	19.5	0.0268 mg/L	0.0268 mg/L	15:31:15
2	Mn 257.610†	15574.9	15.3	0.0017 mg/L	0.0017 mg/L	15:31:15
2	Mn 294.920†	-1266.6	24.0	0.0016 mg/L	0.0016 mg/L	15:31:15
2	Mo 202.031†	59.1	25.1	0.0036 mg/L	0.0036 mg/L	15:31:26
2	Ni 231.604†	116.6	-37.6	0.0008 mg/L	0.0008 mg/L	15:31:15
2	P 214.914†	-31.4	-5.4	0.0435 mg/L	0.0435 mg/L	15:31:26
2	Pb 220.353†	176.5	0.2	-0.0001 mg/L	-0.0001 mg/L	15:31:26
2	Sb 206.836†	44.9	-1.4	0.0035 mg/L	0.0035 mg/L	15:31:26
2	Se 196.026†	28.0	18.0	0.0174 mg/L	0.0174 mg/L	15:31:26
2	Sn 189.927†	22.7	-5.9	-0.0023 mg/L	-0.0023 mg/L	15:31:26
2	Ti 337.279†	-343.4	265.1	0.0052 mg/L	0.0052 mg/L	15:31:15
2	Tl 190.801†	-12.0	-7.6	-0.0063 mg/L	-0.0063 mg/L	15:31:26
2	V 292.402†	-389.9	-54.4	0.0043 mg/L	0.0043 mg/L	15:31:15
2	Zn 213.857†	4769.0	3780.6	0.0305 mg/L	0.0305 mg/L	15:31:15

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2606788.7	0.965 mg/L	0.0043			0.44%
Ag 328.068†	-71.2	0.0014 mg/L	0.00010	0.0014 mg/L	0.00010	7.45%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	148.4	0.0298 mg/L	0.00480	0.0298 mg/L	0.00480	16.12%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	2.2	0.0060 mg/L	0.00091	0.0060 mg/L	0.00091	15.17%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.6	0.0027 mg/L	0.00408	0.0027 mg/L	0.00408	151.30%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	4.3	0.0045 mg/L	0.00122	0.0045 mg/L	0.00122	27.29%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	5.7	0.0032 mg/L	0.00003	0.0032 mg/L	0.00003	0.91%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-5.4	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.90%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-80.9	0.0351 mg/L	0.00093	0.0351 mg/L	0.00093	2.65%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	2.6	0.0011 mg/L	0.00013	0.0011 mg/L	0.00013	12.23%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	5.9	0.0001 mg/L	0.00015	0.0001 mg/L	0.00015	115.62%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-36.1	0.0031 mg/L	0.00019	0.0031 mg/L	0.00019	6.22%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-242.9	0.0031 mg/L	0.00017	0.0031 mg/L	0.00017	5.57%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	13.3	0.0195 mg/L	0.00502	0.0195 mg/L	0.00502	25.79%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K 766.490†	134.2	0.2474 mg/L	0.01239	0.2474 mg/L	0.01239	5.01%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-74.6	0.0024 mg/L	0.00214	0.0024 mg/L	0.00214	89.32%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-3.8	0.0249 mg/L	0.00265	0.0249 mg/L	0.00265	10.67%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	86.2	0.0018 mg/L	0.00013	0.0018 mg/L	0.00013	7.12%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	116.5	0.0018 mg/L	0.00034	0.0018 mg/L	0.00034	18.77%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	12.7	0.0030 mg/L	0.00075	0.0030 mg/L	0.00075	24.58%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-469.4	0.0278 mg/L	0.01310	0.0278 mg/L	0.01310	47.08%
QC value within limits for Na 589.592 Recovery = Not calculated						

Ni	231.604†	-20.6	0.0012 mg/L	0.00053	0.0012 mg/L	0.00053	45.79%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-5.7	0.0433 mg/L	0.00028	0.0433 mg/L	0.00028	0.64%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	14.2	0.0009 mg/L	0.00139	0.0009 mg/L	0.00139	163.21%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	2.2	0.0053 mg/L	0.00243	0.0053 mg/L	0.00243	46.17%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	11.2	0.0127 mg/L	0.00666	0.0127 mg/L	0.00666	52.49%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	1.3	-0.0012 mg/L	0.00152	-0.0012 mg/L	0.00152	126.86%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	-35.9	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	17.78%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	215.3	0.0051 mg/L	0.00008	0.0051 mg/L	0.00008	1.60%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	-2.0	-0.0007 mg/L	0.00782	-0.0007 mg/L	0.00782	>999.9%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	-15.6	0.0045 mg/L	0.00024	0.0045 mg/L	0.00024	5.31%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	3884.1	0.0313 mg/L	0.00107	0.0313 mg/L	0.00107	3.43%
	QC value greater than the upper limit for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 37
Sample ID: 1307072-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 7/5/2013 3:33:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307072-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-16.3	-10.1	-0.0043 mg/L	-0.0043 mg/L	-0.0043 mg/L	15:34:50
1	Fe 234.349†	319530.4	326807.6	217.8 mg/L	217.8 mg/L	217.8 mg/L	15:34:47
1	K 766.490†	19932.0	19568.5	10.84 mg/L	10.84 mg/L	10.84 mg/L	15:34:50
1	Li 670.784†	5935.2	6306.1	0.1778 mg/L	0.1778 mg/L	0.1778 mg/L	15:34:50
1	Na 589.592†	59242.7	60113.4	11.05 mg/L	11.05 mg/L	11.05 mg/L	15:34:47
1	Sr 407.771†	355187.6	363213.9	0.4239 mg/L	0.4239 mg/L	0.4239 mg/L	15:34:47
1	Y 371.029	2640834.8	2640834.8	0.978 mg/L	0.978 mg/L	0.978 mg/L	15:35:03
1	Ag 328.068†	491.1	-1362.9	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	15:35:03
1	Al 237.313†	1351478.7	1382717.6	153.0 mg/L	153.0 mg/L	153.0 mg/L	15:35:03
1	As 188.979†	83.7	92.3	0.0709 mg/L	0.0709 mg/L	0.0709 mg/L	15:35:13
1	B 182.528†	42.8	53.4	0.0572 mg/L	0.0572 mg/L	0.0572 mg/L	15:35:13
1	Ba 233.527†	64085.7	65643.6	0.5750 mg/L	0.5750 mg/L	0.5750 mg/L	15:35:03
1	Be 313.107†	17842.3	19687.0	0.0068 mg/L	0.0068 mg/L	0.0068 mg/L	15:35:03
1	Ca 315.887†	7886537.6	8068195.4	87.97 mg/L	87.97 mg/L	87.97 mg/L	15:34:59
1	Cd 228.802†	270.0	117.1	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	15:35:13
1	Co 228.616†	5347.9	5711.6	0.0945 mg/L	0.0945 mg/L	0.0945 mg/L	15:35:13
1	Cr 267.716†	26432.4	26468.8	0.2341 mg/L	0.2341 mg/L	0.2341 mg/L	15:35:03
1	Cu 324.752†	86676.8	83849.8	0.4665 mg/L	0.4665 mg/L	0.4665 mg/L	15:35:03
1	Mg 279.077†	827728.5	846594.0	68.25 mg/L	68.25 mg/L	68.25 mg/L	15:35:03
1	Mn 257.610†	3385610.9	3446717.1	4.387 mg/L	4.387 mg/L	4.387 mg/L	15:35:03
1	Mn 294.920†	1694306.2	1734262.0	4.524 mg/L	4.524 mg/L	4.524 mg/L	15:35:03
1	Mo 202.031†	422.9	396.6	-0.0159 mg/L	-0.0159 mg/L	-0.0159 mg/L	15:35:13
1	Ni 231.604†	9005.1	9052.3	0.2034 mg/L	0.2034 mg/L	0.2034 mg/L	15:35:13
1	P 214.914†	15393.0	15770.9	9.920 mg/L	9.920 mg/L	9.920 mg/L	15:35:13
1	Pb 220.353†	7740.0	7734.3	0.5137 mg/L	0.5137 mg/L	0.5137 mg/L	15:35:13
1	Sb 206.836†	120.3	75.2	-0.0247 mg/L	-0.0247 mg/L	-0.0247 mg/L	15:35:13
1	Se 196.026†	-34.5	-46.2	-0.0702 mg/L	-0.0702 mg/L	-0.0702 mg/L	15:35:13
1	Sn 189.927†	-503.1	-543.9	-0.0275 mg/L	-0.0275 mg/L	-0.0275 mg/L	15:35:13
1	Ti 337.279†	7725137.4	7901860.1	9.228 mg/L	9.228 mg/L	9.228 mg/L	15:34:59
1	Tl 190.801†	2.9	7.8	-0.1222 mg/L	-0.1222 mg/L	-0.1222 mg/L	15:35:13
1	V 292.402†	81626.8	83835.8	0.3679 mg/L	0.3679 mg/L	0.3679 mg/L	15:35:03
1	Zn 213.857†	120610.4	122214.5	0.8902 mg/L	0.8902 mg/L	0.8902 mg/L	15:35:03
2	B 249.677†	-16.1	-9.9	-0.0042 mg/L	-0.0042 mg/L	-0.0042 mg/L	15:34:54
2	Fe 234.349†	320617.9	326452.9	217.6 mg/L	217.6 mg/L	217.6 mg/L	15:34:52
2	K 766.490†	19434.3	18970.5	10.51 mg/L	10.51 mg/L	10.51 mg/L	15:34:54
2	Li 670.784†	5896.7	6239.7	0.1760 mg/L	0.1760 mg/L	0.1760 mg/L	15:34:54
2	Na 589.592†	59486.8	60090.9	11.05 mg/L	11.05 mg/L	11.05 mg/L	15:34:52
2	Sr 407.771†	356283.2	362704.2	0.4233 mg/L	0.4233 mg/L	0.4233 mg/L	15:34:52

2	Y 371.029	2652702.6	2652702.6	0.982	mg/L			15:35:19
2	Ag 328.068†	600.2	-1254.0	0.0003	mg/L	0.0003	mg/L	15:35:19
2	Al 237.313†	1355704.7	1380836.4	152.8	mg/L	152.8	mg/L	15:35:19
2	As 188.979†	84.2	92.3	0.0709	mg/L	0.0709	mg/L	15:35:30
2	B 182.528†	45.1	55.5	0.0595	mg/L	0.0595	mg/L	15:35:30
2	Ba 233.527†	64410.6	65681.2	0.5754	mg/L	0.5754	mg/L	15:35:19
2	Be 313.107†	17897.2	19661.3	0.0069	mg/L	0.0069	mg/L	15:35:19
2	Ca 315.887†	7845317.4	7990136.8	87.12	mg/L	87.12	mg/L	15:35:16
2	Cd 228.802†	271.5	117.4	0.0010	mg/L	0.0010	mg/L	15:35:30
2	Co 228.616†	5284.1	5622.1	0.0929	mg/L	0.0929	mg/L	15:35:30
2	Cr 267.716†	26519.6	26436.6	0.2338	mg/L	0.2338	mg/L	15:35:19
2	Cu 324.752†	86783.5	83561.8	0.4648	mg/L	0.4648	mg/L	15:35:19
2	Mg 279.077†	829231.4	844336.8	68.07	mg/L	68.07	mg/L	15:35:19
2	Mn 257.610†	3396979.2	3442800.6	4.382	mg/L	4.382	mg/L	15:35:19
2	Mn 294.920†	1700163.7	1732473.5	4.520	mg/L	4.520	mg/L	15:35:19
2	Mo 202.031†	472.9	445.6	-0.0138	mg/L	-0.0138	mg/L	15:35:30
2	Ni 231.604†	8954.9	8960.0	0.2014	mg/L	0.2014	mg/L	15:35:30
2	P 214.914†	15278.3	15583.7	9.802	mg/L	9.802	mg/L	15:35:30
2	Pb 220.353†	7627.4	7584.3	0.5032	mg/L	0.5032	mg/L	15:35:30
2	Sb 206.836†	127.8	82.3	-0.0213	mg/L	-0.0213	mg/L	15:35:30
2	Se 196.026†	-22.2	-33.5	-0.0615	mg/L	-0.0615	mg/L	15:35:30
2	Sn 189.927†	-482.1	-520.2	-0.0245	mg/L	-0.0245	mg/L	15:35:30
2	Ti 337.279†	7696501.4	7837353.5	9.153	mg/L	9.153	mg/L	15:35:16
2	Tl 190.801†	-3.5	1.2	-0.1285	mg/L	-0.1285	mg/L	15:35:30
2	V 292.402†	81936.4	83777.6	0.3678	mg/L	0.3678	mg/L	15:35:19
2	Zn 213.857†	120917.7	121975.5	0.8884	mg/L	0.8884	mg/L	15:35:19

Mean Data: 1307072-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2646768.7	0.980	mg/L	0.0031				0.32%
Ag 328.068†	-1308.4	0.0000	mg/L	0.00042	0.0000	mg/L	0.00042	867.47%
Al 237.313†	1381777.0	152.9	mg/L	0.15	152.9	mg/L	0.15	0.10%
As 188.979†	92.3	0.0709	mg/L	0.00001	0.0709	mg/L	0.00001	0.02%
B 249.677†	-10.0	-0.0043	mg/L	0.00010	-0.0043	mg/L	0.00010	2.40%
B 182.528†	54.4	0.0583	mg/L	0.00162	0.0583	mg/L	0.00162	2.78%
Ba 233.527†	65662.4	0.5752	mg/L	0.00023	0.5752	mg/L	0.00023	0.04%
Be 313.107†	19674.2	0.0068	mg/L	0.00000	0.0068	mg/L	0.00000	0.07%
Ca 315.887†	8029166.1	87.54	mg/L	0.602	87.54	mg/L	0.602	0.69%
Cd 228.802†	117.2	0.0010	mg/L	0.00001	0.0010	mg/L	0.00001	0.96%
Co 228.616†	5666.9	0.0937	mg/L	0.00115	0.0937	mg/L	0.00115	1.23%
Cr 267.716†	26452.7	0.2340	mg/L	0.00020	0.2340	mg/L	0.00020	0.08%
Cu 324.752†	83705.8	0.4656	mg/L	0.00116	0.4656	mg/L	0.00116	0.25%
Fe 234.349†	326630.3	217.7	mg/L	0.17	217.7	mg/L	0.17	0.08%
K 766.490†	19269.5	10.68	mg/L	0.230	10.68	mg/L	0.230	2.16%
Li 670.784†	6272.9	0.1769	mg/L	0.00129	0.1769	mg/L	0.00129	0.73%
Mg 279.077†	845465.4	68.16	mg/L	0.129	68.16	mg/L	0.129	0.19%
Mn 257.610†	3444758.8	4.384	mg/L	0.0035	4.384	mg/L	0.0035	0.08%
Mn 294.920†	1733367.8	4.522	mg/L	0.0033	4.522	mg/L	0.0033	0.07%
Mo 202.031†	421.1	-0.0148	mg/L	0.00151	-0.0148	mg/L	0.00151	10.16%
Na 589.592†	60102.2	11.05	mg/L	0.003	11.05	mg/L	0.003	0.03%
Ni 231.604†	9006.2	0.2024	mg/L	0.00145	0.2024	mg/L	0.00145	0.72%
P 214.914†	15677.3	9.861	mg/L	0.0829	9.861	mg/L	0.0829	0.84%
Pb 220.353†	7659.3	0.5084	mg/L	0.00745	0.5084	mg/L	0.00745	1.46%
Sb 206.836†	78.8	-0.0230	mg/L	0.00241	-0.0230	mg/L	0.00241	10.46%
Se 196.026†	-39.9	-0.0658	mg/L	0.00620	-0.0658	mg/L	0.00620	9.41%
Sn 189.927†	-532.1	-0.0260	mg/L	0.00211	-0.0260	mg/L	0.00211	8.11%
Sr 407.771†	362959.0	0.4236	mg/L	0.00042	0.4236	mg/L	0.00042	0.10%
Ti 337.279†	7869606.8	9.190	mg/L	0.0532	9.190	mg/L	0.0532	0.58%
Tl 190.801†	4.5	-0.1253	mg/L	0.00442	-0.1253	mg/L	0.00442	3.53%
V 292.402†	83806.7	0.3678	mg/L	0.00006	0.3678	mg/L	0.00006	0.02%
Zn 213.857†	122095.0	0.8893	mg/L	0.00122	0.8893	mg/L	0.00122	0.14%

Sequence No.: 38

Sample ID: CG30304-DUP2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 38

Date Collected: 7/5/2013 3:38:39 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30304-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	B 249.677†	-22.8	-16.7	-0.0080	mg/L	-0.0080	mg/L	15:40:25
1	Fe 234.349†	365465.9	371014.1	247.3	mg/L	247.3	mg/L	15:40:22
1	K 766.490†	21681.1	21192.8	11.72	mg/L	11.72	mg/L	15:40:25
1	Li 670.784†	6719.2	7057.0	0.1984	mg/L	0.1984	mg/L	15:40:25
1	Na 589.592†	66093.9	66618.8	12.23	mg/L	12.23	mg/L	15:40:22
1	Sr 407.771†	368890.7	374427.2	0.4369	mg/L	0.4369	mg/L	15:40:22
1	Y 371.029	2660595.0	2660595.0	0.985	mg/L			15:40:38
1	Ag 328.068†	482.6	-1375.2	0.0004	mg/L	0.0004	mg/L	15:40:38
1	Al 237.313†	1404047.4	1425819.0	157.8	mg/L	157.8	mg/L	15:40:38
1	As 188.979†	74.1	81.9	0.0633	mg/L	0.0633	mg/L	15:40:48
1	B 182.528†	49.5	59.8	0.0641	mg/L	0.0641	mg/L	15:40:48
1	Ba 233.527†	80142.6	81457.8	0.7128	mg/L	0.7128	mg/L	15:40:38
1	Be 313.107†	20370.8	22118.4	0.0078	mg/L	0.0078	mg/L	15:40:38
1	Ca 315.887†	8024742.4	8148592.5	88.84	mg/L	88.84	mg/L	15:40:34
1	Cd 228.802†	289.1	134.5	0.0010	mg/L	0.0010	mg/L	15:40:48
1	Co 228.616†	5880.2	6211.3	0.1038	mg/L	0.1038	mg/L	15:40:48
1	Cr 267.716†	23809.5	23605.2	0.2092	mg/L	0.2092	mg/L	15:40:38
1	Cu 324.752†	91534.1	88122.5	0.4898	mg/L	0.4898	mg/L	15:40:38
1	Mg 279.077†	870857.4	884090.8	71.28	mg/L	71.28	mg/L	15:40:38
1	Mn 257.610†	3900521.9	3943736.5	5.020	mg/L	5.020	mg/L	15:40:38
1	Mn 294.920†	1952448.4	1983457.5	5.174	mg/L	5.174	mg/L	15:40:38
1	Mo 202.031†	449.2	420.1	-0.0194	mg/L	-0.0194	mg/L	15:40:48
1	Ni 231.604†	8500.2	8471.3	0.1905	mg/L	0.1905	mg/L	15:40:48
1	P 214.914†	16451.2	16728.3	10.52	mg/L	10.52	mg/L	15:40:48
1	Pb 220.353†	7743.2	7678.8	0.5088	mg/L	0.5088	mg/L	15:40:48
1	Sb 206.836†	122.2	76.2	-0.0325	mg/L	-0.0325	mg/L	15:40:48
1	Se 196.026†	-27.3	-38.6	-0.0709	mg/L	-0.0709	mg/L	15:40:48
1	Sn 189.927†	-345.7	-380.2	-0.0028	mg/L	-0.0028	mg/L	15:40:48
1	Ti 337.279†	8051945.9	8174953.7	9.547	mg/L	9.547	mg/L	15:40:34
1	Tl 190.801†	10.4	15.4	-0.1327	mg/L	-0.1327	mg/L	15:40:48
1	V 292.402†	91674.2	93415.9	0.4107	mg/L	0.4107	mg/L	15:40:38
1	Zn 213.857†	115311.1	115918.4	0.8426	mg/L	0.8426	mg/L	15:40:38
2	B 249.677†	-26.3	-20.1	-0.0099	mg/L	-0.0099	mg/L	15:40:29
2	Fe 234.349†	367688.6	370643.4	247.0	mg/L	247.0	mg/L	15:40:27
2	K 766.490†	21369.5	20723.8	11.47	mg/L	11.47	mg/L	15:40:29
2	Li 670.784†	6555.3	6843.7	0.1926	mg/L	0.1926	mg/L	15:40:29
2	Na 589.592†	66433.7	66489.1	12.21	mg/L	12.21	mg/L	15:40:27
2	Sr 407.771†	370907.9	373824.9	0.4362	mg/L	0.4362	mg/L	15:40:27
2	Y 371.029	2679453.4	2679453.4	0.992	mg/L			15:40:54
2	Ag 328.068†	482.8	-1378.5	0.0004	mg/L	0.0004	mg/L	15:40:54
2	Al 237.313†	1413292.2	1425106.3	157.7	mg/L	157.7	mg/L	15:40:54
2	As 188.979†	85.5	92.9	0.0713	mg/L	0.0713	mg/L	15:41:05
2	B 182.528†	39.4	49.3	0.0528	mg/L	0.0528	mg/L	15:41:05
2	Ba 233.527†	80829.7	81577.8	0.7139	mg/L	0.7139	mg/L	15:40:54
2	Be 313.107†	20333.5	21935.3	0.0078	mg/L	0.0078	mg/L	15:40:54
2	Ca 315.887†	7835537.7	7900526.1	86.14	mg/L	86.14	mg/L	15:40:51
2	Cd 228.802†	297.3	140.7	0.0012	mg/L	0.0012	mg/L	15:41:05
2	Co 228.616†	5854.8	6143.7	0.1031	mg/L	0.1031	mg/L	15:41:05
2	Cr 267.716†	24004.0	23631.1	0.2094	mg/L	0.2094	mg/L	15:40:54
2	Cu 324.752†	92093.8	88032.7	0.4890	mg/L	0.4890	mg/L	15:40:54
2	Mg 279.077†	877672.3	884738.2	71.33	mg/L	71.33	mg/L	15:40:54
2	Mn 257.610†	3925598.6	3941145.5	5.016	mg/L	5.016	mg/L	15:40:54
2	Mn 294.920†	1964923.8	1982083.0	5.171	mg/L	5.171	mg/L	15:40:54
2	Mo 202.031†	449.0	416.7	-0.0195	mg/L	-0.0195	mg/L	15:41:05
2	Ni 231.604†	8458.1	8368.2	0.1882	mg/L	0.1882	mg/L	15:41:05
2	P 214.914†	16370.8	16529.8	10.39	mg/L	10.39	mg/L	15:41:05
2	Pb 220.353†	7733.7	7613.9	0.5043	mg/L	0.5043	mg/L	15:41:05
2	Sb 206.836†	116.1	69.2	-0.0357	mg/L	-0.0357	mg/L	15:41:05
2	Se 196.026†	-31.5	-42.6	-0.0736	mg/L	-0.0736	mg/L	15:41:05
2	Sn 189.927†	-325.9	-357.8	-0.0011	mg/L	-0.0011	mg/L	15:41:05
2	Ti 337.279†	7873853.9	7937895.1	9.270	mg/L	9.270	mg/L	15:40:51
2	Tl 190.801†	7.5	12.3	-0.1356	mg/L	-0.1356	mg/L	15:41:05
2	V 292.402†	92185.2	93276.0	0.4106	mg/L	0.4106	mg/L	15:40:54
2	Zn 213.857†	116175.4	115965.7	0.8429	mg/L	0.8429	mg/L	15:40:54

Mean Data: CG30304-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2670024.2	0.989 mg/L	0.0049			0.50%
Ag 328.068†	-1376.8	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.19%

Al 237.313†	1425462.6	157.8 mg/L	0.06	157.8 mg/L	0.06	0.04%
As 188.979†	87.4	0.0673 mg/L	0.00564	0.0673 mg/L	0.00564	8.39%
B 249.677†	-18.4	-0.0089 mg/L	0.00133	-0.0089 mg/L	0.00133	14.87%
B 182.528†	54.5	0.0584 mg/L	0.00797	0.0584 mg/L	0.00797	13.64%
Ba 233.527†	81517.8	0.7133 mg/L	0.00074	0.7133 mg/L	0.00074	0.10%
Be 313.107†	22026.9	0.0078 mg/L	0.00001	0.0078 mg/L	0.00001	0.13%
Ca 315.887†	8024559.3	87.49 mg/L	1.912	87.49 mg/L	1.912	2.18%
Cd 228.802†	137.6	0.0011 mg/L	0.00014	0.0011 mg/L	0.00014	12.69%
Co 228.616†	6177.5	0.1034 mg/L	0.00054	0.1034 mg/L	0.00054	0.52%
Cr 267.716†	23618.2	0.2093 mg/L	0.00016	0.2093 mg/L	0.00016	0.08%
Cu 324.752†	88077.6	0.4894 mg/L	0.00058	0.4894 mg/L	0.00058	0.12%
Fe 234.349†	370828.7	247.2 mg/L	0.17	247.2 mg/L	0.17	0.07%
K 766.490†	20958.3	11.60 mg/L	0.181	11.60 mg/L	0.181	1.56%
Li 670.784†	6950.3	0.1955 mg/L	0.00414	0.1955 mg/L	0.00414	2.12%
Mg 279.077†	884414.5	71.30 mg/L	0.037	71.30 mg/L	0.037	0.05%
Mn 257.610†	3942441.0	5.018 mg/L	0.0023	5.018 mg/L	0.0023	0.05%
Mn 294.920†	1982770.2	5.172 mg/L	0.0025	5.172 mg/L	0.0025	0.05%
Mo 202.031†	418.4	-0.0195 mg/L	0.00007	-0.0195 mg/L	0.00007	0.38%
Na 589.592†	66554.0	12.22 mg/L	0.017	12.22 mg/L	0.017	0.14%
Ni 231.604†	8419.8	0.1893 mg/L	0.00163	0.1893 mg/L	0.00163	0.86%
P 214.914†	16629.0	10.46 mg/L	0.088	10.46 mg/L	0.088	0.84%
Pb 220.353†	7646.3	0.5065 mg/L	0.00322	0.5065 mg/L	0.00322	0.64%
Sb 206.836†	72.7	-0.0341 mg/L	0.00229	-0.0341 mg/L	0.00229	6.71%
Se 196.026†	-40.6	-0.0723 mg/L	0.00191	-0.0723 mg/L	0.00191	2.65%
Sn 189.927†	-369.0	-0.0019 mg/L	0.00117	-0.0019 mg/L	0.00117	60.29%
Sr 407.771†	374126.0	0.4366 mg/L	0.00050	0.4366 mg/L	0.00050	0.11%
Ti 337.279†	8056424.4	9.408 mg/L	0.1957	9.408 mg/L	0.1957	2.08%
Tl 190.801†	13.8	-0.1341 mg/L	0.00205	-0.1341 mg/L	0.00205	1.53%
V 292.402†	93345.9	0.4107 mg/L	0.00006	0.4107 mg/L	0.00006	0.01%
Zn 213.857†	115942.1	0.8428 mg/L	0.00027	0.8428 mg/L	0.00027	0.03%

Sequence No.: 39
Sample ID: CG30304-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 7/5/2013 3:44:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30304-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	704.4	720.9	0.4031 mg/L		0.4031 mg/L	15:46:02
1	Fe 234.349†	311473.8	315889.0	210.5 mg/L		210.5 mg/L	15:45:59
1	K 766.490†	60359.2	60398.3	33.09 mg/L		33.09 mg/L	15:46:02
1	Li 670.784†	21267.7	21805.2	0.6038 mg/L		0.6038 mg/L	15:46:02
1	Na 589.592†	176176.7	178198.2	32.54 mg/L		32.54 mg/L	15:45:59
1	Sr 407.771†	405014.4	410693.8	0.4792 mg/L		0.4792 mg/L	15:45:59
1	Y 371.029	2663225.9	2663225.9	0.986 mg/L			15:46:15
1	Ag 328.068†	36909.7	35568.6	0.2043 mg/L		0.2043 mg/L	15:46:15
1	Al 237.313†	1274070.6	1292588.9	143.1 mg/L		143.1 mg/L	15:46:15
1	As 188.979†	600.5	615.7	0.4514 mg/L		0.4514 mg/L	15:46:25
1	B 182.528†	384.4	399.4	0.4286 mg/L		0.4286 mg/L	15:46:25
1	Ba 233.527†	113955.1	115670.0	1.011 mg/L		1.011 mg/L	15:46:15
1	Be 313.107†	109893.2	112891.4	0.0480 mg/L		0.0480 mg/L	15:46:15
1	Ca 315.887†	8266058.1	8385286.4	91.42 mg/L		91.42 mg/L	15:46:11
1	Cd 228.802†	6682.1	6618.0	0.2041 mg/L		0.2041 mg/L	15:46:25
1	Co 228.616†	24465.5	25054.6	0.4833 mg/L		0.4833 mg/L	15:46:25
1	Cr 267.716†	68256.2	68659.0	0.6022 mg/L		0.6022 mg/L	15:46:15
1	Cu 324.752†	158688.0	156138.0	0.8542 mg/L		0.8542 mg/L	15:46:15
1	Mg 279.077†	785491.9	796640.0	64.23 mg/L		64.23 mg/L	15:46:15
1	Mn 257.610†	3456522.7	3489522.2	4.444 mg/L		4.444 mg/L	15:46:15
1	Mn 294.920†	1729567.6	1755454.5	4.580 mg/L		4.580 mg/L	15:46:15
1	Mo 202.031†	9697.5	9799.2	0.3825 mg/L		0.3825 mg/L	15:46:25
1	Ni 231.604†	23749.5	23928.6	0.5357 mg/L		0.5357 mg/L	15:46:15
1	P 214.914†	22583.8	22931.5	14.40 mg/L		14.40 mg/L	15:46:15
1	Pb 220.353†	12716.4	12714.8	0.8681 mg/L		0.8681 mg/L	15:46:25
1	Sb 206.836†	614.0	574.9	0.2117 mg/L		0.2117 mg/L	15:46:25
1	Se 196.026†	1101.2	1105.9	0.7209 mg/L		0.7209 mg/L	15:46:25
1	Sn 189.927†	2340.6	2344.5	0.4022 mg/L		0.4022 mg/L	15:46:25
1	Ti 337.279†	7180985.1	7283553.0	8.506 mg/L		8.506 mg/L	15:46:11
1	Tl 190.801†	416.8	427.5	0.2886 mg/L		0.2886 mg/L	15:46:25
1	V 292.402†	160663.1	163292.3	0.7376 mg/L		0.7376 mg/L	15:46:15

1	Zn 213.857†	158217.8	159318.6	1.161 mg/L	1.161 mg/L	15:46:15
2	B 249.677†	729.1	744.0	0.4159 mg/L	0.4159 mg/L	15:46:06
2	Fe 234.349†	309317.7	312845.5	208.5 mg/L	208.5 mg/L	15:46:04
2	K 766.490†	60278.7	60149.7	32.96 mg/L	32.96 mg/L	15:46:06
2	Li 670.784†	21401.7	21881.8	0.6059 mg/L	0.6059 mg/L	15:46:06
2	Na 589.592†	175205.9	176728.3	32.27 mg/L	32.27 mg/L	15:46:04
2	Sr 407.771†	402488.1	407016.8	0.4749 mg/L	0.4749 mg/L	15:46:04
2	Y 371.029	2670519.2	2670519.2	0.989 mg/L		15:46:32
2	Ag 328.068†	37139.6	35698.9	0.2050 mg/L	0.2050 mg/L	15:46:32
2	Al 237.313†	1278365.4	1293403.8	143.2 mg/L	143.2 mg/L	15:46:32
2	As 188.979†	612.8	626.5	0.4592 mg/L	0.4592 mg/L	15:46:42
2	B 182.528†	395.8	409.9	0.4399 mg/L	0.4399 mg/L	15:46:42
2	Ba 233.527†	114229.1	115631.4	1.011 mg/L	1.011 mg/L	15:46:32
2	Be 313.107†	109943.6	112637.9	0.0479 mg/L	0.0479 mg/L	15:46:32
2	Ca 315.887†	8370316.4	8467840.6	92.32 mg/L	92.32 mg/L	15:46:28
2	Cd 228.802†	6680.5	6597.8	0.2035 mg/L	0.2035 mg/L	15:46:42
2	Co 228.616†	24528.8	25050.9	0.4830 mg/L	0.4830 mg/L	15:46:42
2	Cr 267.716†	68522.9	68739.7	0.6029 mg/L	0.6029 mg/L	15:46:32
2	Cu 324.752†	159128.1	156143.6	0.8543 mg/L	0.8543 mg/L	15:46:32
2	Mg 279.077†	789212.0	798227.0	64.36 mg/L	64.36 mg/L	15:46:32
2	Mn 257.610†	3467148.3	3490695.3	4.445 mg/L	4.445 mg/L	15:46:32
2	Mn 294.920†	1734389.2	1755540.5	4.580 mg/L	4.580 mg/L	15:46:32
2	Mo 202.031†	9753.5	9829.0	0.3841 mg/L	0.3841 mg/L	15:46:42
2	Ni 231.604†	23822.6	23936.8	0.5358 mg/L	0.5358 mg/L	15:46:32
2	P 214.914†	22623.4	22909.0	14.38 mg/L	14.38 mg/L	15:46:32
2	Pb 220.353†	12720.7	12683.9	0.8659 mg/L	0.8659 mg/L	15:46:42
2	Sb 206.836†	615.9	575.1	0.2124 mg/L	0.2124 mg/L	15:46:42
2	Se 196.026†	1102.6	1104.3	0.7202 mg/L	0.7202 mg/L	15:46:42
2	Sn 189.927†	2372.8	2370.6	0.4066 mg/L	0.4066 mg/L	15:46:42
2	Ti 337.279†	7262906.2	7346520.1	8.580 mg/L	8.580 mg/L	15:46:28
2	Tl 190.801†	419.4	429.0	0.2914 mg/L	0.2914 mg/L	15:46:42
2	V 292.402†	161372.1	163564.4	0.7387 mg/L	0.7387 mg/L	15:46:32
2	Zn 213.857†	158609.2	159276.2	1.160 mg/L	1.160 mg/L	15:46:32

Mean Data: CG30304-MS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2666872.5	0.987	mg/L	0.0019				0.19%
Ag 328.068†	35633.7	0.2046	mg/L	0.00047	0.2046	mg/L	0.00047	0.23%
Al 237.313†	1292996.4	143.1	mg/L	0.06	143.1	mg/L	0.06	0.04%
As 188.979†	621.1	0.4553	mg/L	0.00555	0.4553	mg/L	0.00555	1.22%
B 249.677†	732.4	0.4095	mg/L	0.00908	0.4095	mg/L	0.00908	2.22%
B 182.528†	404.7	0.4342	mg/L	0.00795	0.4342	mg/L	0.00795	1.83%
Ba 233.527†	115650.7	1.011	mg/L	0.0002	1.011	mg/L	0.0002	0.02%
Be 313.107†	112764.6	0.0480	mg/L	0.00009	0.0480	mg/L	0.00009	0.19%
Ca 315.887†	8426563.5	91.87	mg/L	0.636	91.87	mg/L	0.636	0.69%
Cd 228.802†	6607.9	0.2038	mg/L	0.00042	0.2038	mg/L	0.00042	0.21%
Co 228.616†	25052.7	0.4832	mg/L	0.00016	0.4832	mg/L	0.00016	0.03%
Cr 267.716†	68699.3	0.6025	mg/L	0.00050	0.6025	mg/L	0.00050	0.08%
Cu 324.752†	156140.8	0.8543	mg/L	0.00008	0.8543	mg/L	0.00008	0.01%
Fe 234.349†	314367.2	209.5	mg/L	1.44	209.5	mg/L	1.44	0.69%
K 766.490†	60274.0	33.02	mg/L	0.096	33.02	mg/L	0.096	0.29%
Li 670.784†	21843.5	0.6048	mg/L	0.00149	0.6048	mg/L	0.00149	0.25%
Mg 279.077†	797433.5	64.29	mg/L	0.090	64.29	mg/L	0.090	0.14%
Mn 257.610†	3490108.7	4.445	mg/L	0.0014	4.445	mg/L	0.0014	0.03%
Mn 294.920†	1755497.5	4.580	mg/L	0.0002	4.580	mg/L	0.0002	0.00%
Mo 202.031†	9814.1	0.3833	mg/L	0.00111	0.3833	mg/L	0.00111	0.29%
Na 589.592†	177463.2	32.40	mg/L	0.189	32.40	mg/L	0.189	0.58%
Ni 231.604†	23932.7	0.5358	mg/L	0.00013	0.5358	mg/L	0.00013	0.02%
P 214.914†	22920.3	14.39	mg/L	0.010	14.39	mg/L	0.010	0.07%
Pb 220.353†	12699.4	0.8670	mg/L	0.00155	0.8670	mg/L	0.00155	0.18%
Sb 206.836†	575.0	0.2121	mg/L	0.00050	0.2121	mg/L	0.00050	0.24%
Se 196.026†	1105.1	0.7205	mg/L	0.00051	0.7205	mg/L	0.00051	0.07%
Sn 189.927†	2357.6	0.4044	mg/L	0.00312	0.4044	mg/L	0.00312	0.77%
Sr 407.771†	408855.3	0.4771	mg/L	0.00303	0.4771	mg/L	0.00303	0.64%
Ti 337.279†	7315036.5	8.543	mg/L	0.0520	8.543	mg/L	0.0520	0.61%
Tl 190.801†	428.3	0.2900	mg/L	0.00194	0.2900	mg/L	0.00194	0.67%
V 292.402†	163428.3	0.7381	mg/L	0.00079	0.7381	mg/L	0.00079	0.11%
Zn 213.857†	159297.4	1.161	mg/L	0.0002	1.161	mg/L	0.0002	0.01%

Sample ID: CG30304-SD2 @5
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 7/5/2013 3:49:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30304-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-14.5	-8.8	-0.0036	mg/L	-0.0036	mg/L	15:51:40
1	Fe 234.349†	74790.9	78698.6	52.46	mg/L	52.46	mg/L	15:51:30
1	K 766.490†	5273.7	4731.9	2.753	mg/L	2.753	mg/L	15:51:30
1	Li 670.784†	1063.3	1354.5	0.0417	mg/L	0.0417	mg/L	15:51:30
1	Na 589.592†	14090.6	14348.4	2.724	mg/L	2.724	mg/L	15:51:30
1	Sr 407.771†	82561.3	86811.9	0.1016	mg/L	0.1016	mg/L	15:51:30
1	Y 371.029	2566696.2	2566696.2	0.950	mg/L			15:51:57
1	Ag 328.068†	1521.3	-264.2	0.0016	mg/L	0.0016	mg/L	15:52:00
1	Al 237.313†	307467.5	323990.6	35.87	mg/L	35.87	mg/L	15:51:57
1	As 188.979†	20.9	28.6	0.0251	mg/L	0.0251	mg/L	15:52:10
1	B 182.528†	6.1	16.0	0.0170	mg/L	0.0170	mg/L	15:52:10
1	Ba 233.527†	15387.5	16289.9	0.1451	mg/L	0.1451	mg/L	15:52:00
1	Be 313.107†	3283.8	4893.7	0.0020	mg/L	0.0020	mg/L	15:52:00
1	Ca 315.887†	1836996.7	1935019.5	21.12	mg/L	21.12	mg/L	15:51:57
1	Cd 228.802†	192.8	43.9	0.0015	mg/L	0.0015	mg/L	15:52:10
1	Co 228.616†	1092.3	1391.2	0.0231	mg/L	0.0231	mg/L	15:52:10
1	Cr 267.716†	6799.4	6589.0	0.0608	mg/L	0.0608	mg/L	15:52:00
1	Cu 324.752†	23883.2	20330.4	0.1164	mg/L	0.1164	mg/L	15:52:00
1	Mg 279.077†	200425.2	210911.9	17.02	mg/L	17.02	mg/L	15:52:00
1	Mn 257.610†	811070.7	837449.2	1.067	mg/L	1.067	mg/L	15:51:57
1	Mn 294.920†	410811.7	433645.7	1.132	mg/L	1.132	mg/L	15:52:00
1	Mo 202.031†	185.3	159.0	0.0008	mg/L	0.0008	mg/L	15:52:10
1	Ni 231.604†	2325.1	2288.8	0.0527	mg/L	0.0527	mg/L	15:52:10
1	P 214.914†	3623.0	3839.7	2.451	mg/L	2.451	mg/L	15:52:10
1	Pb 220.353†	1976.6	1897.9	0.1263	mg/L	0.1263	mg/L	15:52:10
1	Sb 206.836†	73.1	29.1	0.0024	mg/L	0.0024	mg/L	15:52:10
1	Se 196.026†	7.6	-2.9	-0.0075	mg/L	-0.0075	mg/L	15:52:10
1	Sn 189.927†	-233.9	-275.5	-0.0291	mg/L	-0.0291	mg/L	15:52:10
1	Ti 337.279†	1797838.5	1892556.1	2.214	mg/L	2.214	mg/L	15:51:57
1	Tl 190.801†	-3.5	1.1	-0.0293	mg/L	-0.0293	mg/L	15:52:10
1	V 292.402†	19334.3	20694.5	0.0944	mg/L	0.0944	mg/L	15:52:00
1	Zn 213.857†	30297.2	30737.6	0.2260	mg/L	0.2260	mg/L	15:52:00
2	B 249.677†	-3.7	2.6	0.0028	mg/L	0.0028	mg/L	15:51:53
2	Fe 234.349†	74339.5	78243.2	52.15	mg/L	52.15	mg/L	15:51:43
2	K 766.490†	5198.3	4653.9	2.711	mg/L	2.711	mg/L	15:51:43
2	Li 670.784†	982.3	1269.6	0.0393	mg/L	0.0393	mg/L	15:51:43
2	Na 589.592†	13997.1	14253.6	2.707	mg/L	2.707	mg/L	15:51:43
2	Sr 407.771†	82120.4	86369.7	0.1011	mg/L	0.1011	mg/L	15:51:43
2	Y 371.029	2566052.2	2566052.2	0.950	mg/L			15:52:13
2	Ag 328.068†	1495.3	-291.2	0.0015	mg/L	0.0015	mg/L	15:52:15
2	Al 237.313†	304406.4	320849.6	35.52	mg/L	35.52	mg/L	15:52:13
2	As 188.979†	15.9	23.3	0.0212	mg/L	0.0212	mg/L	15:52:25
2	B 182.528†	1.2	10.8	0.0115	mg/L	0.0115	mg/L	15:52:25
2	Ba 233.527†	15032.1	15919.9	0.1418	mg/L	0.1418	mg/L	15:52:15
2	Be 313.107†	3108.5	4710.1	0.0019	mg/L	0.0019	mg/L	15:52:15
2	Ca 315.887†	1817790.5	1915288.2	20.91	mg/L	20.91	mg/L	15:52:13
2	Cd 228.802†	178.5	28.9	0.0010	mg/L	0.0010	mg/L	15:52:25
2	Co 228.616†	1085.1	1384.0	0.0230	mg/L	0.0230	mg/L	15:52:25
2	Cr 267.716†	6784.0	6574.7	0.0607	mg/L	0.0607	mg/L	15:52:15
2	Cu 324.752†	23432.6	19862.4	0.1139	mg/L	0.1139	mg/L	15:52:15
2	Mg 279.077†	196945.9	207302.5	16.73	mg/L	16.73	mg/L	15:52:15
2	Mn 257.610†	803547.2	829744.0	1.057	mg/L	1.057	mg/L	15:52:13
2	Mn 294.920†	403053.8	425588.2	1.111	mg/L	1.111	mg/L	15:52:15
2	Mo 202.031†	219.1	194.7	0.0023	mg/L	0.0023	mg/L	15:52:25
2	Ni 231.604†	2304.6	2267.8	0.0522	mg/L	0.0522	mg/L	15:52:25
2	P 214.914†	3600.5	3816.9	2.436	mg/L	2.436	mg/L	15:52:25
2	Pb 220.353†	1932.9	1852.5	0.1232	mg/L	0.1232	mg/L	15:52:25
2	Sb 206.836†	72.1	28.1	0.0020	mg/L	0.0020	mg/L	15:52:25
2	Se 196.026†	7.8	-2.7	-0.0073	mg/L	-0.0073	mg/L	15:52:25
2	Sn 189.927†	-220.2	-261.0	-0.0271	mg/L	-0.0271	mg/L	15:52:25
2	Ti 337.279†	1779860.1	1874106.7	2.192	mg/L	2.192	mg/L	15:52:13
2	Tl 190.801†	-7.5	-3.1	-0.0332	mg/L	-0.0332	mg/L	15:52:25
2	V 292.402†	19100.1	20453.1	0.0934	mg/L	0.0934	mg/L	15:52:15
2	Zn 213.857†	29704.2	30121.4	0.2215	mg/L	0.2215	mg/L	15:52:15

Mean Data: CG30304-SD2 @5

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2566374.2	0.950	mg/L	0.0002				0.02%
Ag 328.068†	-277.7	0.0016	mg/L	0.00011	0.0016	mg/L	0.00011	7.13%
Al 237.313†	322420.1	35.69	mg/L	0.246	35.69	mg/L	0.246	0.69%
As 188.979†	26.0	0.0231	mg/L	0.00273	0.0231	mg/L	0.00273	11.81%
B 249.677†	-3.1	-0.0004	mg/L	0.00449	-0.0004	mg/L	0.00449	>999.9%
B 182.528†	13.4	0.0143	mg/L	0.00391	0.0143	mg/L	0.00391	27.39%
Ba 233.527†	16104.9	0.1434	mg/L	0.00228	0.1434	mg/L	0.00228	1.59%
Be 313.107†	4801.9	0.0020	mg/L	0.00005	0.0020	mg/L	0.00005	2.71%
Ca 315.887†	1925153.9	21.02	mg/L	0.152	21.02	mg/L	0.152	0.72%
Cd 228.802†	36.4	0.0013	mg/L	0.00033	0.0013	mg/L	0.00033	26.18%
Co 228.616†	1387.6	0.0231	mg/L	0.00007	0.0231	mg/L	0.00007	0.30%
Cr 267.716†	6581.9	0.0608	mg/L	0.00009	0.0608	mg/L	0.00009	0.14%
Cu 324.752†	20096.4	0.1151	mg/L	0.00180	0.1151	mg/L	0.00180	1.56%
Fe 234.349†	78470.9	52.30	mg/L	0.214	52.30	mg/L	0.214	0.41%
K 766.490†	4692.9	2.732	mg/L	0.0300	2.732	mg/L	0.0300	1.10%
Li 670.784†	1312.1	0.0405	mg/L	0.00165	0.0405	mg/L	0.00165	4.07%
Mg 279.077†	209107.2	16.88	mg/L	0.206	16.88	mg/L	0.206	1.22%
Mn 257.610†	833596.6	1.062	mg/L	0.0070	1.062	mg/L	0.0070	0.66%
Mn 294.920†	429616.9	1.122	mg/L	0.0149	1.122	mg/L	0.0149	1.32%
Mo 202.031†	176.8	0.0016	mg/L	0.00111	0.0016	mg/L	0.00111	71.68%
Na 589.592†	14301.0	2.715	mg/L	0.0122	2.715	mg/L	0.0122	0.45%
Ni 231.604†	2278.3	0.0524	mg/L	0.00033	0.0524	mg/L	0.00033	0.63%
P 214.914†	3828.3	2.443	mg/L	0.0101	2.443	mg/L	0.0101	0.41%
Pb 220.353†	1875.2	0.1247	mg/L	0.00221	0.1247	mg/L	0.00221	1.77%
Sb 206.836†	28.6	0.0022	mg/L	0.00027	0.0022	mg/L	0.00027	12.36%
Se 196.026†	-2.8	-0.0074	mg/L	0.00014	-0.0074	mg/L	0.00014	1.94%
Sn 189.927†	-268.3	-0.0281	mg/L	0.00142	-0.0281	mg/L	0.00142	5.04%
Sr 407.771†	86590.8	0.1013	mg/L	0.00036	0.1013	mg/L	0.00036	0.36%
Ti 337.279†	1883331.4	2.203	mg/L	0.0152	2.203	mg/L	0.0152	0.69%
Tl 190.801†	-1.0	-0.0313	mg/L	0.00272	-0.0313	mg/L	0.00272	8.70%
V 292.402†	20573.8	0.0939	mg/L	0.00073	0.0939	mg/L	0.00073	0.78%
Zn 213.857†	30429.5	0.2237	mg/L	0.00319	0.2237	mg/L	0.00319	1.43%

Sequence No.: 41

Sample ID: CG30304-PDS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 7/5/2013 3:54:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30304-PDS2

Repl#	Analyte	Net		Calib.	Sample		Analysis Time	
		Intensity	Corrected Intensity		Conc.	Units		
1	B 249.677†	868.0	904.5	0.5054	mg/L	0.5054	mg/L	15:55:46
1	Fe 234.349†	330181.0	341616.4	227.7	mg/L	227.7	mg/L	15:55:43
1	K 766.490†	63878.1	65273.9	35.75	mg/L	35.75	mg/L	15:55:46
1	Li 670.784†	23932.6	24997.6	0.6915	mg/L	0.6915	mg/L	15:55:46
1	Na 589.592†	192505.8	198697.3	36.27	mg/L	36.27	mg/L	15:55:43
1	Sr 407.771†	401605.6	415452.4	0.4848	mg/L	0.4848	mg/L	15:55:43
1	Y 371.029	2610568.1	2610568.1	0.967	mg/L			15:55:59
1	Ag 328.068†	40805.1	40354.1	0.2313	mg/L	0.2313	mg/L	15:55:59
1	Al 237.313†	1342594.2	1389551.3	153.8	mg/L	153.8	mg/L	15:55:59
1	As 188.979†	693.6	724.3	0.5302	mg/L	0.5302	mg/L	15:56:09
1	B 182.528†	447.0	472.0	0.5065	mg/L	0.5065	mg/L	15:56:09
1	Ba 233.527†	114030.2	118078.8	1.032	mg/L	1.032	mg/L	15:55:59
1	Be 313.107†	119536.6	125117.1	0.0532	mg/L	0.0532	mg/L	15:55:59
1	Ca 315.887†	8104356.3	8387082.7	91.44	mg/L	91.44	mg/L	15:55:55
1	Cd 228.802†	7368.6	7464.9	0.2302	mg/L	0.2302	mg/L	15:56:09
1	Co 228.616†	27136.8	28319.0	0.5464	mg/L	0.5464	mg/L	15:56:09
1	Cr 267.716†	77788.6	79918.1	0.7004	mg/L	0.7004	mg/L	15:55:59
1	Cu 324.752†	170476.9	171581.8	0.9385	mg/L	0.9385	mg/L	15:55:59
1	Mg 279.077†	860012.1	889811.7	71.74	mg/L	71.74	mg/L	15:55:59
1	Mn 257.610†	3640437.0	3750521.3	4.775	mg/L	4.775	mg/L	15:55:59
1	Mn 294.920†	1820275.6	1884688.3	4.917	mg/L	4.917	mg/L	15:55:59
1	Mo 202.031†	11092.6	11441.1	0.4493	mg/L	0.4493	mg/L	15:56:09
1	Ni 231.604†	28032.0	28845.3	0.6454	mg/L	0.6454	mg/L	15:55:59
1	P 214.914†	22017.1	22807.2	14.32	mg/L	14.32	mg/L	15:55:59

1	Pb 220.353†	13785.4	14081.0	0.9625 mg/L	0.9625 mg/L	15:56:09
1	Sb 206.836†	1082.0	1071.7	0.4389 mg/L	0.4389 mg/L	15:56:09
1	Se 196.026†	1242.4	1274.5	0.8330 mg/L	0.8330 mg/L	15:56:09
1	Sn 189.927†	2650.8	2713.3	0.4568 mg/L	0.4568 mg/L	15:56:09
1	Ti 337.279†	7910203.6	8184946.0	9.558 mg/L	9.558 mg/L	15:55:55
1	Tl 190.801†	454.1	474.6	0.3237 mg/L	0.3237 mg/L	15:56:09
1	V 292.402†	179516.8	186086.1	0.8404 mg/L	0.8404 mg/L	15:55:59
1	Zn 213.857†	175217.1	180143.8	1.312 mg/L	1.312 mg/L	15:55:59
2	B 249.677†	832.2	868.0	0.4850 mg/L	0.4850 mg/L	15:55:50
2	Fe 234.349†	331711.4	343389.5	228.8 mg/L	228.8 mg/L	15:55:48
2	K 766.490†	64717.4	66179.3	36.24 mg/L	36.24 mg/L	15:55:50
2	Li 670.784†	24235.0	25324.3	0.7005 mg/L	0.7005 mg/L	15:55:50
2	Na 589.592†	193898.1	200248.6	36.55 mg/L	36.55 mg/L	15:55:48
2	Sr 407.771†	403227.4	417360.9	0.4870 mg/L	0.4870 mg/L	15:55:48
2	Y 371.029	2609126.5	2609126.5	0.966 mg/L		15:56:16
2	Ag 328.068†	40884.6	40459.7	0.2319 mg/L	0.2319 mg/L	15:56:16
2	Al 237.313†	1341739.5	1389434.0	153.8 mg/L	153.8 mg/L	15:56:16
2	As 188.979†	689.3	720.2	0.5273 mg/L	0.5273 mg/L	15:56:26
2	B 182.528†	455.5	481.1	0.5163 mg/L	0.5163 mg/L	15:56:26
2	Ba 233.527†	114036.0	118150.1	1.032 mg/L	1.032 mg/L	15:56:16
2	Be 313.107†	119677.1	125330.9	0.0533 mg/L	0.0533 mg/L	15:56:16
2	Ca 315.887†	8185405.4	8475619.9	92.41 mg/L	92.41 mg/L	15:56:12
2	Cd 228.802†	7409.6	7511.6	0.2317 mg/L	0.2317 mg/L	15:56:26
2	Co 228.616†	27258.2	28460.2	0.5490 mg/L	0.5490 mg/L	15:56:26
2	Cr 267.716†	77892.7	80070.3	0.7017 mg/L	0.7017 mg/L	15:56:16
2	Cu 324.752†	170876.0	172092.4	0.9414 mg/L	0.9414 mg/L	15:56:16
2	Mg 279.077†	858795.5	889044.0	71.68 mg/L	71.68 mg/L	15:56:16
2	Mn 257.610†	3638748.4	3750854.3	4.776 mg/L	4.776 mg/L	15:56:16
2	Mn 294.920†	1819345.0	1884765.5	4.917 mg/L	4.917 mg/L	15:56:16
2	Mo 202.031†	11188.3	11546.5	0.4536 mg/L	0.4536 mg/L	15:56:26
2	Ni 231.604†	28111.7	28943.9	0.6476 mg/L	0.6476 mg/L	15:56:16
2	P 214.914†	21992.4	22794.2	14.31 mg/L	14.31 mg/L	15:56:16
2	Pb 220.353†	13887.3	14194.3	0.9705 mg/L	0.9705 mg/L	15:56:26
2	Sb 206.836†	1102.9	1094.0	0.4490 mg/L	0.4490 mg/L	15:56:26
2	Se 196.026†	1259.4	1292.8	0.8453 mg/L	0.8453 mg/L	15:56:26
2	Sn 189.927†	2696.7	2762.3	0.4646 mg/L	0.4646 mg/L	15:56:26
2	Ti 337.279†	7979713.6	8261426.6	9.648 mg/L	9.648 mg/L	15:56:12
2	Tl 190.801†	469.6	490.9	0.3388 mg/L	0.3388 mg/L	15:56:26
2	V 292.402†	179493.0	186164.1	0.8406 mg/L	0.8406 mg/L	15:56:16
2	Zn 213.857†	175390.1	180423.0	1.314 mg/L	1.314 mg/L	15:56:16

Mean Data: CG30304-PDS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2609847.3	0.966	mg/L	0.0004				0.04%
Ag 328.068†	40406.9	0.2316	mg/L	0.00043	0.2316	mg/L	0.00043	0.19%
Al 237.313†	1389492.6	153.8	mg/L	0.01	153.8	mg/L	0.01	0.01%
As 188.979†	722.2	0.5288	mg/L	0.00210	0.5288	mg/L	0.00210	0.40%
B 249.677†	886.3	0.4952	mg/L	0.01439	0.4952	mg/L	0.01439	2.90%
B 182.528†	476.6	0.5114	mg/L	0.00692	0.5114	mg/L	0.00692	1.35%
Ba 233.527†	118114.4	1.032	mg/L	0.0004	1.032	mg/L	0.0004	0.04%
Be 313.107†	125224.0	0.0532	mg/L	0.00005	0.0532	mg/L	0.00005	0.10%
Ca 315.887†	8431351.3	91.93	mg/L	0.682	91.93	mg/L	0.682	0.74%
Cd 228.802†	7488.2	0.2310	mg/L	0.00102	0.2310	mg/L	0.00102	0.44%
Co 228.616†	28389.6	0.5477	mg/L	0.00186	0.5477	mg/L	0.00186	0.34%
Cr 267.716†	79994.2	0.7010	mg/L	0.00094	0.7010	mg/L	0.00094	0.13%
Cu 324.752†	171837.1	0.9399	mg/L	0.00202	0.9399	mg/L	0.00202	0.21%
Fe 234.349†	342502.9	228.3	mg/L	0.83	228.3	mg/L	0.83	0.37%
K 766.490†	65726.6	35.99	mg/L	0.349	35.99	mg/L	0.349	0.97%
Li 670.784†	25161.0	0.6960	mg/L	0.00635	0.6960	mg/L	0.00635	0.91%
Mg 279.077†	889427.9	71.71	mg/L	0.044	71.71	mg/L	0.044	0.06%
Mn 257.610†	3750687.8	4.776	mg/L	0.0001	4.776	mg/L	0.0001	0.00%
Mn 294.920†	1884726.9	4.917	mg/L	0.0001	4.917	mg/L	0.0001	0.00%
Mo 202.031†	11493.8	0.4514	mg/L	0.00303	0.4514	mg/L	0.00303	0.67%
Na 589.592†	199472.9	36.41	mg/L	0.200	36.41	mg/L	0.200	0.55%
Ni 231.604†	28894.6	0.6465	mg/L	0.00156	0.6465	mg/L	0.00156	0.24%
P 214.914†	22800.7	14.31	mg/L	0.006	14.31	mg/L	0.006	0.04%
Pb 220.353†	14137.7	0.9665	mg/L	0.00566	0.9665	mg/L	0.00566	0.59%
Sb 206.836†	1082.8	0.4440	mg/L	0.00715	0.4440	mg/L	0.00715	1.61%
Se 196.026†	1283.7	0.8392	mg/L	0.00869	0.8392	mg/L	0.00869	1.04%
Sn 189.927†	2737.8	0.4607	mg/L	0.00555	0.4607	mg/L	0.00555	1.20%
Sr 407.771†	416406.7	0.4859	mg/L	0.00157	0.4859	mg/L	0.00157	0.32%

Ti 337.279†	8223186.3	9.603 mg/L	0.0631	9.603 mg/L	0.0631	0.66%
Tl 190.801†	482.8	0.3312 mg/L	0.01069	0.3312 mg/L	0.01069	3.23%
V 292.402†	186125.1	0.8405 mg/L	0.00017	0.8405 mg/L	0.00017	0.02%
Zn 213.857†	180283.4	1.313 mg/L	0.0014	1.313 mg/L	0.0014	0.11%

Sequence No.: 42	Autosampler Location: 42
Sample ID: 1307072-02	Date Collected: 7/5/2013 3:59:32 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1307072-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	B 249.677†	-30.8	-24.6	-0.0124	mg/L	-0.0124	mg/L	16:01:13
1	Fe 234.349†	242288.5	244178.2	162.8	mg/L	162.8	mg/L	16:01:11
1	K 766.490†	15635.3	14939.9	8.316	mg/L	8.316	mg/L	16:01:13
1	Li 670.784†	4438.8	4709.2	0.1339	mg/L	0.1339	mg/L	16:01:13
1	Na 589.592†	28002.7	27742.2	5.161	mg/L	5.161	mg/L	16:01:11
1	Sr 407.771†	94898.2	95570.4	0.1118	mg/L	0.1118	mg/L	16:01:11
1	Y 371.029	2680057.1	2680057.1	0.992	mg/L			16:01:23
1	Ag 328.068†	772.7	-1086.4	-0.0001	mg/L	-0.0001	mg/L	16:01:25
1	Al 237.313†	1154302.5	1163768.4	128.8	mg/L	128.8	mg/L	16:01:23
1	As 188.979†	76.4	83.6	0.0648	mg/L	0.0648	mg/L	16:01:35
1	B 182.528†	32.4	42.2	0.0452	mg/L	0.0452	mg/L	16:01:35
1	Ba 233.527†	51366.5	51865.6	0.4550	mg/L	0.4550	mg/L	16:01:25
1	Be 313.107†	18425.6	20007.8	0.0078	mg/L	0.0078	mg/L	16:01:25
1	Ca 315.887†	1370202.2	1382803.2	15.11	mg/L	15.11	mg/L	16:01:23
1	Cd 228.802†	242.0	84.9	0.0009	mg/L	0.0009	mg/L	16:01:35
1	Co 228.616†	3779.8	4051.2	0.0685	mg/L	0.0685	mg/L	16:01:35
1	Cr 267.716†	16065.0	15624.5	0.1396	mg/L	0.1396	mg/L	16:01:25
1	Cu 324.752†	40682.8	36198.3	0.2061	mg/L	0.2061	mg/L	16:01:25
1	Mg 279.077†	522373.1	526458.5	42.46	mg/L	42.46	mg/L	16:01:23
1	Mn 257.610†	5361206.1	5387098.9	6.896	mg/L	6.896	mg/L	16:01:23
1	Mn 294.920†	2677039.8	2699326.9	7.041	mg/L	7.041	mg/L	16:01:23
1	Mo 202.031†	305.2	271.6	-0.0115	mg/L	-0.0115	mg/L	16:01:25
1	Ni 231.604†	5966.4	5855.1	0.1322	mg/L	0.1322	mg/L	16:01:25
1	P 214.914†	12919.0	13047.2	8.216	mg/L	8.216	mg/L	16:01:25
1	Pb 220.353†	5663.6	5525.8	0.3631	mg/L	0.3631	mg/L	16:01:35
1	Sb 206.836†	96.2	49.1	-0.0204	mg/L	-0.0204	mg/L	16:01:35
1	Se 196.026†	-4.5	-15.4	-0.0381	mg/L	-0.0381	mg/L	16:01:35
1	Sn 189.927†	-144.6	-175.0	-0.0180	mg/L	-0.0180	mg/L	16:01:35
1	Ti 337.279†	4999249.7	5039001.7	5.886	mg/L	5.886	mg/L	16:01:23
1	Tl 190.801†	-19.1	-14.5	-0.1116	mg/L	-0.1116	mg/L	16:01:35
1	V 292.402†	56184.5	56972.5	0.2519	mg/L	0.2519	mg/L	16:01:25
1	Zn 213.857†	134799.1	134708.8	0.9854	mg/L	0.9854	mg/L	16:01:25
2	B 249.677†	-18.1	-11.6	-0.0052	mg/L	-0.0052	mg/L	16:01:18
2	Fe 234.349†	244531.1	245320.1	163.6	mg/L	163.6	mg/L	16:01:16
2	K 766.490†	15701.4	14934.7	8.314	mg/L	8.314	mg/L	16:01:18
2	Li 670.784†	4376.5	4626.3	0.1316	mg/L	0.1316	mg/L	16:01:18
2	Na 589.592†	28118.1	27729.9	5.159	mg/L	5.159	mg/L	16:01:16
2	Sr 407.771†	95680.3	95921.1	0.1122	mg/L	0.1122	mg/L	16:01:16
2	Y 371.029	2692273.7	2692273.7	0.997	mg/L			16:01:38
2	Ag 328.068†	861.2	-1001.1	0.0004	mg/L	0.0004	mg/L	16:01:40
2	Al 237.313†	1159654.3	1163858.7	128.8	mg/L	128.8	mg/L	16:01:38
2	As 188.979†	83.4	90.3	0.0697	mg/L	0.0697	mg/L	16:01:51
2	B 182.528†	36.0	45.6	0.0489	mg/L	0.0489	mg/L	16:01:51
2	Ba 233.527†	52319.1	52586.4	0.4613	mg/L	0.4613	mg/L	16:01:40
2	Be 313.107†	18777.1	20276.2	0.0079	mg/L	0.0079	mg/L	16:01:40
2	Ca 315.887†	1377071.0	1383428.1	15.11	mg/L	15.11	mg/L	16:01:38
2	Cd 228.802†	239.0	80.8	0.0007	mg/L	0.0007	mg/L	16:01:51
2	Co 228.616†	3748.0	4002.0	0.0675	mg/L	0.0675	mg/L	16:01:51
2	Cr 267.716†	16306.3	15793.2	0.1411	mg/L	0.1411	mg/L	16:01:40
2	Cu 324.752†	41317.5	36649.1	0.2086	mg/L	0.2086	mg/L	16:01:40
2	Mg 279.077†	525070.7	526776.1	42.49	mg/L	42.49	mg/L	16:01:38
2	Mn 257.610†	5378523.9	5379955.4	6.886	mg/L	6.886	mg/L	16:01:38
2	Mn 294.920†	2688503.5	2698585.3	7.039	mg/L	7.039	mg/L	16:01:38
2	Mo 202.031†	197.6	162.3	-0.0163	mg/L	-0.0163	mg/L	16:01:40
2	Ni 231.604†	6056.1	5917.8	0.1336	mg/L	0.1336	mg/L	16:01:40
2	P 214.914†	13238.8	13309.0	8.380	mg/L	8.380	mg/L	16:01:40
2	Pb 220.353†	5641.9	5478.2	0.3597	mg/L	0.3597	mg/L	16:01:51

2	Sb 206.836†	96.5	48.9	-0.0208 mg/L	-0.0208 mg/L	16:01:51
2	Se 196.026†	-6.9	-17.8	-0.0399 mg/L	-0.0399 mg/L	16:01:51
2	Sn 189.927†	-138.9	-168.6	-0.0170 mg/L	-0.0170 mg/L	16:01:51
2	Ti 337.279†	5020434.5	5037392.9	5.885 mg/L	5.885 mg/L	16:01:38
2	Tl 190.801†	-15.6	-10.8	-0.1086 mg/L	-0.1086 mg/L	16:01:51
2	V 292.402†	57030.2	57564.1	0.2546 mg/L	0.2546 mg/L	16:01:40
2	Zn 213.857†	136924.1	136224.3	0.9965 mg/L	0.9965 mg/L	16:01:40

Mean Data: 1307072-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2686165.4	0.994	mg/L	0.0032				0.32%
Ag 328.068†	-1043.7	0.0001	mg/L	0.00035	0.0001	mg/L	0.00035	277.64%
Al 237.313†	1163813.6	128.8	mg/L	0.01	128.8	mg/L	0.01	0.01%
As 188.979†	87.0	0.0672	mg/L	0.00343	0.0672	mg/L	0.00343	5.10%
B 249.677†	-18.1	-0.0088	mg/L	0.00508	-0.0088	mg/L	0.00508	57.88%
B 182.528†	43.9	0.0470	mg/L	0.00260	0.0470	mg/L	0.00260	5.54%
Ba 233.527†	52226.0	0.4581	mg/L	0.00444	0.4581	mg/L	0.00444	0.97%
Be 313.107†	20142.0	0.0078	mg/L	0.00008	0.0078	mg/L	0.00008	1.07%
Ca 315.887†	1383115.7	15.11	mg/L	0.005	15.11	mg/L	0.005	0.03%
Cd 228.802†	82.8	0.0008	mg/L	0.00010	0.0008	mg/L	0.00010	12.18%
Co 228.616†	4026.6	0.0680	mg/L	0.00070	0.0680	mg/L	0.00070	1.02%
Cr 267.716†	15708.8	0.1403	mg/L	0.00104	0.1403	mg/L	0.00104	0.74%
Cu 324.752†	36423.7	0.2074	mg/L	0.00171	0.2074	mg/L	0.00171	0.83%
Fe 234.349†	244749.2	163.2	mg/L	0.54	163.2	mg/L	0.54	0.33%
K 766.490†	14937.3	8.315	mg/L	0.0020	8.315	mg/L	0.0020	0.02%
Li 670.784†	4667.8	0.1327	mg/L	0.00161	0.1327	mg/L	0.00161	1.21%
Mg 279.077†	526617.3	42.47	mg/L	0.018	42.47	mg/L	0.018	0.04%
Mn 257.610†	5383527.1	6.891	mg/L	0.0066	6.891	mg/L	0.0066	0.10%
Mn 294.920†	2698956.1	7.040	mg/L	0.0014	7.040	mg/L	0.0014	0.02%
Mo 202.031†	217.0	-0.0139	mg/L	0.00337	-0.0139	mg/L	0.00337	24.33%
Na 589.592†	27736.0	5.160	mg/L	0.0016	5.160	mg/L	0.0016	0.03%
Ni 231.604†	5886.4	0.1329	mg/L	0.00098	0.1329	mg/L	0.00098	0.74%
P 214.914†	13178.1	8.298	mg/L	0.1159	8.298	mg/L	0.1159	1.40%
Pb 220.353†	5502.0	0.3614	mg/L	0.00239	0.3614	mg/L	0.00239	0.66%
Sb 206.836†	49.0	-0.0206	mg/L	0.00026	-0.0206	mg/L	0.00026	1.25%
Se 196.026†	-16.6	-0.0390	mg/L	0.00125	-0.0390	mg/L	0.00125	3.21%
Sn 189.927†	-171.8	-0.0175	mg/L	0.00067	-0.0175	mg/L	0.00067	3.83%
Sr 407.771†	95745.8	0.1120	mg/L	0.00029	0.1120	mg/L	0.00029	0.26%
Ti 337.279†	5038197.3	5.885	mg/L	0.0013	5.885	mg/L	0.0013	0.02%
Tl 190.801†	-12.6	-0.1101	mg/L	0.00218	-0.1101	mg/L	0.00218	1.98%
V 292.402†	57268.3	0.2532	mg/L	0.00186	0.2532	mg/L	0.00186	0.73%
Zn 213.857†	135466.5	0.9910	mg/L	0.00785	0.9910	mg/L	0.00785	0.79%

Sequence No.: 43

Sample ID: CG30305-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 7/5/2013 4:03:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30305-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-10.6	-4.5	-0.0012	mg/L	-0.0012	mg/L	16:05:17
1	Fe 234.349†	130.7	128.4	0.0957	mg/L	0.0957	mg/L	16:05:17
1	K 766.490†	849.6	60.8	0.2075	mg/L	0.2075	mg/L	16:05:06
1	Li 670.784†	-334.5	-110.4	0.0014	mg/L	0.0014	mg/L	16:05:06
1	Na 589.592†	131.8	-343.4	0.0508	mg/L	0.0508	mg/L	16:05:06
1	Sr 407.771†	420.2	364.0	0.0008	mg/L	0.0008	mg/L	16:05:06
1	Y 371.029	2611527.3	2611527.3	0.967	mg/L			16:05:32
1	Ag 328.068†	1812.2	9.2	0.0018	mg/L	0.0018	mg/L	16:05:35
1	Al 237.313†	-395.6	21.3	0.0157	mg/L	0.0157	mg/L	16:05:35
1	As 188.979†	-5.8	0.6	0.0048	mg/L	0.0048	mg/L	16:05:45
1	B 182.528†	-8.7	0.6	0.0005	mg/L	0.0005	mg/L	16:05:45
1	Ba 233.527†	333.9	442.4	0.0070	mg/L	0.0070	mg/L	16:05:45
1	Be 313.107†	-1357.9	33.5	0.0004	mg/L	0.0004	mg/L	16:05:35
1	Ca 315.887†	23664.1	26350.7	0.3231	mg/L	0.3231	mg/L	16:05:35
1	Cd 228.802†	162.8	9.4	0.0013	mg/L	0.0013	mg/L	16:05:45
1	Co 228.616†	-262.2	-29.4	-0.0006	mg/L	-0.0006	mg/L	16:05:45
1	Cr 267.716†	538.2	-9.6	0.0033	mg/L	0.0033	mg/L	16:05:35

1	Cu	324.752†	4628.7	-15.6	0.0043	mg/L	0.0043	mg/L	16:05:35
1	Mg	279.077†	199.2	202.6	0.0415	mg/L	0.0415	mg/L	16:05:35
1	Mn	257.610†	17027.4	1538.5	0.0036	mg/L	0.0036	mg/L	16:05:35
1	Mn	294.920†	-416.8	901.3	0.0039	mg/L	0.0039	mg/L	16:05:35
1	Mo	202.031†	42.6	8.1	0.0028	mg/L	0.0028	mg/L	16:05:45
1	Ni	231.604†	171.5	19.3	0.0021	mg/L	0.0021	mg/L	16:05:35
1	P	214.914†	47.7	76.4	0.0948	mg/L	0.0948	mg/L	16:05:45
1	Pb	220.353†	182.7	6.9	0.0003	mg/L	0.0003	mg/L	16:05:45
1	Sb	206.836†	55.7	9.8	0.0088	mg/L	0.0088	mg/L	16:05:45
1	Se	196.026†	12.6	2.1	0.0065	mg/L	0.0065	mg/L	16:05:45
1	Sn	189.927†	88.4	62.1	0.0080	mg/L	0.0080	mg/L	16:05:45
1	Ti	337.279†	633.3	1274.8	0.0064	mg/L	0.0064	mg/L	16:05:35
1	Tl	190.801†	-12.8	-8.5	-0.0071	mg/L	-0.0071	mg/L	16:05:45
1	V	292.402†	-230.7	109.6	0.0051	mg/L	0.0051	mg/L	16:05:35
1	Zn	213.857†	1550.4	458.1	0.0060	mg/L	0.0060	mg/L	16:05:45
2	B	249.677†	-17.7	-11.6	-0.0052	mg/L	-0.0052	mg/L	16:05:29
2	Fe	234.349†	120.8	116.9	0.0881	mg/L	0.0881	mg/L	16:05:29
2	K	766.490†	852.4	55.2	0.2044	mg/L	0.2044	mg/L	16:05:19
2	Li	670.784†	-293.6	-65.2	0.0027	mg/L	0.0027	mg/L	16:05:19
2	Na	589.592†	182.4	-292.9	0.0599	mg/L	0.0599	mg/L	16:05:19
2	Sr	407.771†	315.5	252.6	0.0007	mg/L	0.0007	mg/L	16:05:19
2	Y	371.029	2637051.0	2637051.0	0.976	mg/L			16:05:47
2	Ag	328.068†	1731.7	-91.4	0.0013	mg/L	0.0013	mg/L	16:05:49
2	Al	237.313†	-242.8	181.7	0.0335	mg/L	0.0335	mg/L	16:05:49
2	As	188.979†	-5.3	1.2	0.0053	mg/L	0.0053	mg/L	16:06:00
2	B	182.528†	-8.3	1.0	0.0010	mg/L	0.0010	mg/L	16:06:00
2	Ba	233.527†	349.1	454.6	0.0071	mg/L	0.0071	mg/L	16:06:00
2	Be	313.107†	-1418.5	-14.9	0.0004	mg/L	0.0004	mg/L	16:05:49
2	Ca	315.887†	23135.7	25572.6	0.3146	mg/L	0.3146	mg/L	16:05:49
2	Cd	228.802†	163.5	8.4	0.0013	mg/L	0.0013	mg/L	16:06:00
2	Co	228.616†	-247.9	-12.2	-0.0002	mg/L	-0.0002	mg/L	16:06:00
2	Cr	267.716†	623.0	71.9	0.0040	mg/L	0.0040	mg/L	16:05:49
2	Cu	324.752†	4632.7	-57.8	0.0041	mg/L	0.0041	mg/L	16:05:49
2	Mg	279.077†	220.8	222.7	0.0431	mg/L	0.0431	mg/L	16:05:49
2	Mn	257.610†	16837.6	1173.6	0.0032	mg/L	0.0032	mg/L	16:05:49
2	Mn	294.920†	-406.7	915.7	0.0039	mg/L	0.0039	mg/L	16:05:49
2	Mo	202.031†	87.0	53.2	0.0047	mg/L	0.0047	mg/L	16:06:00
2	Ni	231.604†	178.4	24.7	0.0022	mg/L	0.0022	mg/L	16:05:49
2	P	214.914†	36.2	64.1	0.0871	mg/L	0.0871	mg/L	16:06:00
2	Pb	220.353†	133.7	-45.2	-0.0033	mg/L	-0.0033	mg/L	16:06:00
2	Sb	206.836†	49.4	2.8	0.0055	mg/L	0.0055	mg/L	16:06:00
2	Se	196.026†	12.7	2.1	0.0065	mg/L	0.0065	mg/L	16:06:00
2	Sn	189.927†	98.8	71.9	0.0094	mg/L	0.0094	mg/L	16:06:00
2	Ti	337.279†	431.0	1061.3	0.0061	mg/L	0.0061	mg/L	16:05:49
2	Tl	190.801†	-10.7	-6.2	-0.0049	mg/L	-0.0049	mg/L	16:06:00
2	V	292.402†	-312.1	28.6	0.0047	mg/L	0.0047	mg/L	16:05:49
2	Zn	213.857†	1498.0	388.9	0.0055	mg/L	0.0055	mg/L	16:06:00

Mean Data: CG30305-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2624289.1	0.972	mg/L	0.0067				0.69%
Ag 328.068†	-41.1	0.0015	mg/L	0.00039	0.0015	mg/L	0.00039	25.45%
Al 237.313†	101.5	0.0246	mg/L	0.01256	0.0246	mg/L	0.01256	51.07%
As 188.979†	0.9	0.0050	mg/L	0.00032	0.0050	mg/L	0.00032	6.39%
B 249.677†	-8.0	-0.0032	mg/L	0.00279	-0.0032	mg/L	0.00279	87.10%
B 182.528†	0.8	0.0007	mg/L	0.00034	0.0007	mg/L	0.00034	45.70%
Ba 233.527†	448.5	0.0070	mg/L	0.00007	0.0070	mg/L	0.00007	1.06%
Be 313.107†	9.3	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	3.89%
Ca 315.887†	25961.7	0.3189	mg/L	0.00600	0.3189	mg/L	0.00600	1.88%
Cd 228.802†	8.9	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.59%
Co 228.616†	-20.8	-0.0004	mg/L	0.00024	-0.0004	mg/L	0.00024	59.65%
Cr 267.716†	31.2	0.0037	mg/L	0.00050	0.0037	mg/L	0.00050	13.75%
Cu 324.752†	-36.7	0.0042	mg/L	0.00016	0.0042	mg/L	0.00016	3.83%
Fe 234.349†	122.7	0.0919	mg/L	0.00540	0.0919	mg/L	0.00540	5.88%
K 766.490†	58.0	0.2060	mg/L	0.00216	0.2060	mg/L	0.00216	1.05%
Li 670.784†	-87.8	0.0020	mg/L	0.00088	0.0020	mg/L	0.00088	43.18%
Mg 279.077†	212.7	0.0423	mg/L	0.00114	0.0423	mg/L	0.00114	2.70%
Mn 257.610†	1356.1	0.0034	mg/L	0.00033	0.0034	mg/L	0.00033	9.68%
Mn 294.920†	908.5	0.0039	mg/L	0.00003	0.0039	mg/L	0.00003	0.69%
Mo 202.031†	30.7	0.0038	mg/L	0.00135	0.0038	mg/L	0.00135	35.77%
Na 589.592†	-318.1	0.0553	mg/L	0.00649	0.0553	mg/L	0.00649	11.73%

Ni 231.604†	22.0	0.0021 mg/L	0.00009	0.0021 mg/L	0.00009	4.11%
P 214.914†	70.3	0.0909 mg/L	0.00545	0.0909 mg/L	0.00545	5.99%
Pb 220.353†	-19.2	-0.0015 mg/L	0.00259	-0.0015 mg/L	0.00259	173.40%
Sb 206.836†	6.3	0.0071 mg/L	0.00230	0.0071 mg/L	0.00230	32.13%
Se 196.026†	2.1	0.0065 mg/L	0.00002	0.0065 mg/L	0.00002	0.36%
Sn 189.927†	67.0	0.0087 mg/L	0.00101	0.0087 mg/L	0.00101	11.64%
Sr 407.771†	308.3	0.0007 mg/L	0.00009	0.0007 mg/L	0.00009	12.63%
Ti 337.279†	1168.1	0.0063 mg/L	0.00018	0.0063 mg/L	0.00018	2.81%
Tl 190.801†	-7.3	-0.0060 mg/L	0.00157	-0.0060 mg/L	0.00157	25.99%
V 292.402†	69.1	0.0049 mg/L	0.00024	0.0049 mg/L	0.00024	4.88%
Zn 213.857†	423.5	0.0058 mg/L	0.00036	0.0058 mg/L	0.00036	6.23%

Sequence No.: 44
Sample ID: CG30305-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 7/5/2013 4:07:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30305-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	932.2	986.4	0.5513	mg/L	0.5513	mg/L	16:09:19
1	Fe 234.349†	98954.4	104008.1	69.28	mg/L	69.28	mg/L	16:09:19
1	K 766.490†	26400.0	26932.3	14.85	mg/L	14.85	mg/L	16:09:19
1	Li 670.784†	1354.5	1659.4	0.0501	mg/L	0.0501	mg/L	16:09:19
1	Na 589.592†	16200.8	16549.6	3.124	mg/L	3.124	mg/L	16:09:19
1	Sr 407.771†	491524.7	516590.5	0.6027	mg/L	0.6027	mg/L	16:09:17
1	Y 371.029	2569626.0	2569626.0	0.951	mg/L			16:09:28
1	Ag 328.068†	70706.4	72457.1	0.4052	mg/L	0.4052	mg/L	16:09:31
1	Al 237.313†	417595.6	439381.7	48.64	mg/L	48.64	mg/L	16:09:31
1	As 188.979†	1128.0	1192.3	0.8712	mg/L	0.8712	mg/L	16:09:41
1	B 182.528†	464.0	497.3	0.5337	mg/L	0.5337	mg/L	16:09:41
1	Ba 233.527†	234958.4	247071.1	2.156	mg/L	2.156	mg/L	16:09:31
1	Be 313.107†	1779718.0	1872169.9	0.8236	mg/L	0.8236	mg/L	16:09:28
1	Ca 315.887†	3929607.8	4132441.7	45.07	mg/L	45.07	mg/L	16:09:28
1	Cd 228.802†	25943.2	27110.8	0.8464	mg/L	0.8464	mg/L	16:09:31
1	Co 228.616†	29675.1	31434.5	0.6266	mg/L	0.6266	mg/L	16:09:41
1	Cr 267.716†	115790.3	121145.5	1.060	mg/L	1.060	mg/L	16:09:31
1	Cu 324.752†	178982.9	183333.1	0.9917	mg/L	0.9917	mg/L	16:09:31
1	Mg 279.077†	229668.6	241410.3	19.48	mg/L	19.48	mg/L	16:09:31
1	Mn 257.610†	1628336.8	1695536.7	2.167	mg/L	2.167	mg/L	16:09:28
1	Mn 294.920†	810795.5	853591.5	2.228	mg/L	2.228	mg/L	16:09:31
1	Mo 202.031†	16975.3	17807.5	0.7432	mg/L	0.7432	mg/L	16:09:41
1	Ni 231.604†	34507.4	36114.1	0.8078	mg/L	0.8078	mg/L	16:09:31
1	P 214.914†	4099.5	4336.2	2.748	mg/L	2.748	mg/L	16:09:41
1	Pb 220.353†	8194.9	8431.9	0.5866	mg/L	0.5866	mg/L	16:09:41
1	Sb 206.836†	940.4	940.7	0.4226	mg/L	0.4226	mg/L	16:09:41
1	Se 196.026†	1170.4	1219.3	0.8269	mg/L	0.8269	mg/L	16:09:41
1	Sn 189.927†	5201.5	5438.2	0.8314	mg/L	0.8314	mg/L	16:09:41
1	Ti 337.279†	1032233.3	1085641.0	1.272	mg/L	1.272	mg/L	16:09:28
1	Tl 190.801†	868.5	917.7	0.8494	mg/L	0.8494	mg/L	16:09:41
1	V 292.402†	150879.3	158943.5	0.7386	mg/L	0.7386	mg/L	16:09:31
1	Zn 213.857†	255270.9	267179.9	1.959	mg/L	1.959	mg/L	16:09:31
2	B 249.677†	920.9	965.8	0.5399	mg/L	0.5399	mg/L	16:09:23
2	Fe 234.349†	98024.2	102106.2	68.02	mg/L	68.02	mg/L	16:09:23
2	K 766.490†	26155.7	26428.8	14.58	mg/L	14.58	mg/L	16:09:23
2	Li 670.784†	1375.4	1668.3	0.0503	mg/L	0.0503	mg/L	16:09:23
2	Na 589.592†	16072.2	16262.9	3.072	mg/L	3.072	mg/L	16:09:23
2	Sr 407.771†	491688.8	512127.7	0.5975	mg/L	0.5975	mg/L	16:09:21
2	Y 371.029	2592880.4	2592880.4	0.960	mg/L			16:09:44
2	Ag 328.068†	71079.4	72179.2	0.4036	mg/L	0.4036	mg/L	16:09:47
2	Al 237.313†	418991.6	436899.2	48.37	mg/L	48.37	mg/L	16:09:47
2	As 188.979†	1134.4	1188.4	0.8683	mg/L	0.8683	mg/L	16:09:57
2	B 182.528†	455.8	484.4	0.5198	mg/L	0.5198	mg/L	16:09:57
2	Ba 233.527†	236150.8	246098.2	2.147	mg/L	2.147	mg/L	16:09:47
2	Be 313.107†	1795972.6	1872324.8	0.8237	mg/L	0.8237	mg/L	16:09:44
2	Ca 315.887†	3962662.9	4129830.4	45.05	mg/L	45.05	mg/L	16:09:44
2	Cd 228.802†	25932.6	26855.3	0.8385	mg/L	0.8385	mg/L	16:09:47
2	Co 228.616†	29822.5	31308.2	0.6241	mg/L	0.6241	mg/L	16:09:57
2	Cr 267.716†	116137.7	120415.8	1.054	mg/L	1.054	mg/L	16:09:47
2	Cu 324.752†	179480.7	182164.4	0.9854	mg/L	0.9854	mg/L	16:09:47

2	Mg 279.077†	230309.0	239912.3	19.36 mg/L	19.36 mg/L	16:09:47
2	Mn 257.610†	1642276.5	1694707.1	2.167 mg/L	2.167 mg/L	16:09:44
2	Mn 294.920†	813204.0	848456.9	2.214 mg/L	2.214 mg/L	16:09:47
2	Mo 202.031†	17081.5	17758.1	0.7413 mg/L	0.7413 mg/L	16:09:57
2	Ni 231.604†	34446.3	35725.1	0.7991 mg/L	0.7991 mg/L	16:09:47
2	P 214.914†	4085.5	4283.0	2.715 mg/L	2.715 mg/L	16:09:57
2	Pb 220.353†	8227.1	8388.2	0.5835 mg/L	0.5835 mg/L	16:09:57
2	Sb 206.836†	948.2	940.0	0.4227 mg/L	0.4227 mg/L	16:09:57
2	Se 196.026†	1171.1	1209.1	0.8201 mg/L	0.8201 mg/L	16:09:57
2	Sn 189.927†	5242.3	5431.7	0.8304 mg/L	0.8304 mg/L	16:09:57
2	Ti 337.279†	1039942.6	1083940.8	1.270 mg/L	1.270 mg/L	16:09:44
2	Tl 190.801†	890.6	932.5	0.8646 mg/L	0.8646 mg/L	16:09:57
2	V 292.402†	151251.8	157909.1	0.7339 mg/L	0.7339 mg/L	16:09:47
2	Zn 213.857†	256105.9	265643.3	1.947 mg/L	1.947 mg/L	16:09:47

Mean Data: CG30305-BS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2581253.2	0.956 mg/L	0.0061			0.64%
Ag 328.068†	72318.2	0.4044 mg/L	0.00111	0.4044 mg/L	0.00111	0.28%
Al 237.313†	438140.4	48.50 mg/L	0.194	48.50 mg/L	0.194	0.40%
As 188.979†	1190.4	0.8697 mg/L	0.00201	0.8697 mg/L	0.00201	0.23%
B 249.677†	976.1	0.5456 mg/L	0.00809	0.5456 mg/L	0.00809	1.48%
B 182.528†	490.8	0.5267 mg/L	0.00982	0.5267 mg/L	0.00982	1.86%
Ba 233.527†	246584.7	2.151 mg/L	0.0060	2.151 mg/L	0.0060	0.28%
Be 313.107†	1872247.4	0.8236 mg/L	0.00005	0.8236 mg/L	0.00005	0.01%
Ca 315.887†	4131136.0	45.06 mg/L	0.020	45.06 mg/L	0.020	0.04%
Cd 228.802†	26983.1	0.8425 mg/L	0.00563	0.8425 mg/L	0.00563	0.67%
Co 228.616†	31371.3	0.6254 mg/L	0.00178	0.6254 mg/L	0.00178	0.29%
Cr 267.716†	120780.7	1.057 mg/L	0.0045	1.057 mg/L	0.0045	0.43%
Cu 324.752†	182748.8	0.9885 mg/L	0.00445	0.9885 mg/L	0.00445	0.45%
Fe 234.349†	103057.2	68.65 mg/L	0.897	68.65 mg/L	0.897	1.31%
K 766.490†	26680.5	14.71 mg/L	0.194	14.71 mg/L	0.194	1.32%
Li 670.784†	1663.9	0.0502 mg/L	0.00017	0.0502 mg/L	0.00017	0.35%
Mg 279.077†	240661.3	19.42 mg/L	0.085	19.42 mg/L	0.085	0.44%
Mn 257.610†	1695121.9	2.167 mg/L	0.0006	2.167 mg/L	0.0006	0.03%
Mn 294.920†	851024.2	2.221 mg/L	0.0095	2.221 mg/L	0.0095	0.43%
Mo 202.031†	17782.8	0.7422 mg/L	0.00133	0.7422 mg/L	0.00133	0.18%
Na 589.592†	16406.2	3.098 mg/L	0.0369	3.098 mg/L	0.0369	1.19%
Ni 231.604†	35919.6	0.8035 mg/L	0.00613	0.8035 mg/L	0.00613	0.76%
P 214.914†	4309.6	2.731 mg/L	0.0235	2.731 mg/L	0.0235	0.86%
Pb 220.353†	8410.0	0.5850 mg/L	0.00214	0.5850 mg/L	0.00214	0.37%
Sb 206.836†	940.3	0.4226 mg/L	0.00005	0.4226 mg/L	0.00005	0.01%
Se 196.026†	1214.2	0.8235 mg/L	0.00479	0.8235 mg/L	0.00479	0.58%
Sn 189.927†	5434.9	0.8309 mg/L	0.00070	0.8309 mg/L	0.00070	0.08%
Sr 407.771†	514359.1	0.6001 mg/L	0.00368	0.6001 mg/L	0.00368	0.61%
Ti 337.279†	1084790.9	1.271 mg/L	0.0014	1.271 mg/L	0.0014	0.11%
Tl 190.801†	925.1	0.8570 mg/L	0.01074	0.8570 mg/L	0.01074	1.25%
V 292.402†	158426.3	0.7362 mg/L	0.00336	0.7362 mg/L	0.00336	0.46%
Zn 213.857†	266411.6	1.953 mg/L	0.0079	1.953 mg/L	0.0079	0.40%

Sequence No.: 45

Sample ID: CG30305-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 7/5/2013 4:11:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30305-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	871.6	907.1	0.5071 mg/L	0.5071 mg/L	16:13:17
1	Fe 234.349†	94674.1	97817.0	65.16 mg/L	65.16 mg/L	16:13:17
1	K 766.490†	25169.7	25189.2	13.90 mg/L	13.90 mg/L	16:13:17
1	Li 670.784†	1204.8	1480.5	0.0451 mg/L	0.0451 mg/L	16:13:17
1	Na 589.592†	15382.5	15414.5	2.918 mg/L	2.918 mg/L	16:13:17
1	Sr 407.771†	497123.8	513591.7	0.5992 mg/L	0.5992 mg/L	16:13:14
1	Y 371.029	2614069.8	2614069.8	0.968 mg/L		16:13:26
1	Ag 328.068†	67852.5	68244.7	0.3817 mg/L	0.3817 mg/L	16:13:29
1	Al 237.313†	403821.1	417686.0	46.24 mg/L	46.24 mg/L	16:13:29
1	As 188.979†	1105.4	1148.8	0.8395 mg/L	0.8395 mg/L	16:13:39

1	B	182.528†	437.8	461.9	0.4957	mg/L	0.4957	mg/L	16:13:39
1	Ba	233.527†	233658.9	241529.4	2.107	mg/L	2.107	mg/L	16:13:29
1	Be	313.107†	1730798.0	1789816.7	0.7874	mg/L	0.7874	mg/L	16:13:26
1	Ca	315.887†	3925885.0	4058368.2	44.27	mg/L	44.27	mg/L	16:13:26
1	Cd	228.802†	24905.7	25575.2	0.7986	mg/L	0.7986	mg/L	16:13:29
1	Co	228.616†	28125.1	29302.5	0.5841	mg/L	0.5841	mg/L	16:13:39
1	Cr	267.716†	112111.4	115274.9	1.009	mg/L	1.009	mg/L	16:13:29
1	Cu	324.752†	170287.5	171149.8	0.9261	mg/L	0.9261	mg/L	16:13:29
1	Mg	279.077†	226325.8	233851.9	18.87	mg/L	18.87	mg/L	16:13:29
1	Mn	257.610†	1622697.5	1660609.3	2.123	mg/L	2.123	mg/L	16:13:26
1	Mn	294.920†	803345.3	831403.5	2.170	mg/L	2.170	mg/L	16:13:29
1	Mo	202.031†	15586.6	16069.2	0.6703	mg/L	0.6703	mg/L	16:13:39
1	Ni	231.604†	32635.7	33563.4	0.7508	mg/L	0.7508	mg/L	16:13:29
1	P	214.914†	4063.3	4225.6	2.680	mg/L	2.680	mg/L	16:13:39
1	Pb	220.353†	7947.7	8030.0	0.5585	mg/L	0.5585	mg/L	16:13:39
1	Sb	206.836†	898.7	880.8	0.3955	mg/L	0.3955	mg/L	16:13:39
1	Se	196.026†	1138.3	1165.3	0.7906	mg/L	0.7906	mg/L	16:13:39
1	Sn	189.927†	5107.9	5248.6	0.8028	mg/L	0.8028	mg/L	16:13:39
1	Ti	337.279†	1000956.5	1034876.4	1.213	mg/L	1.213	mg/L	16:13:29
1	Tl	190.801†	863.2	896.7	0.8315	mg/L	0.8315	mg/L	16:13:39
1	V	292.402†	145731.2	150927.7	0.7011	mg/L	0.7011	mg/L	16:13:29
1	Zn	213.857†	246521.4	253577.3	1.859	mg/L	1.859	mg/L	16:13:29
2	B	249.677†	860.9	895.7	0.5008	mg/L	0.5008	mg/L	16:13:21
2	Fe	234.349†	95626.5	98763.0	65.79	mg/L	65.79	mg/L	16:13:21
2	K	766.490†	25359.2	25374.9	14.00	mg/L	14.00	mg/L	16:13:21
2	Li	670.784†	1269.6	1546.9	0.0470	mg/L	0.0470	mg/L	16:13:21
2	Na	589.592†	15557.7	15589.4	2.950	mg/L	2.950	mg/L	16:13:21
2	Sr	407.771†	491521.4	507607.2	0.5922	mg/L	0.5922	mg/L	16:13:19
2	Y	371.029	2615077.5	2615077.5	0.968	mg/L			16:13:42
2	Ag	328.068†	68127.7	68501.9	0.3832	mg/L	0.3832	mg/L	16:13:44
2	Al	237.313†	405459.4	419217.4	46.41	mg/L	46.41	mg/L	16:13:44
2	As	188.979†	1097.0	1139.7	0.8329	mg/L	0.8329	mg/L	16:13:55
2	B	182.528†	438.6	462.5	0.4964	mg/L	0.4964	mg/L	16:13:55
2	Ba	233.527†	234582.1	242389.9	2.115	mg/L	2.115	mg/L	16:13:44
2	Be	313.107†	1731411.1	1789760.9	0.7874	mg/L	0.7874	mg/L	16:13:42
2	Ca	315.887†	3916436.5	4047046.0	44.14	mg/L	44.14	mg/L	16:13:42
2	Cd	228.802†	25076.9	25742.1	0.8038	mg/L	0.8038	mg/L	16:13:44
2	Co	228.616†	27928.8	29088.6	0.5798	mg/L	0.5798	mg/L	16:13:55
2	Cr	267.716†	112323.4	115449.2	1.010	mg/L	1.010	mg/L	16:13:44
2	Cu	324.752†	171007.3	171825.4	0.9297	mg/L	0.9297	mg/L	16:13:44
2	Mg	279.077†	227476.4	234950.2	18.96	mg/L	18.96	mg/L	16:13:44
2	Mn	257.610†	1621015.1	1658225.6	2.120	mg/L	2.120	mg/L	16:13:42
2	Mn	294.920†	806798.5	834650.4	2.178	mg/L	2.178	mg/L	16:13:44
2	Mo	202.031†	15517.4	15991.6	0.6669	mg/L	0.6669	mg/L	16:13:55
2	Ni	231.604†	32730.4	33648.2	0.7527	mg/L	0.7527	mg/L	16:13:44
2	P	214.914†	4014.2	4173.2	2.647	mg/L	2.647	mg/L	16:13:55
2	Pb	220.353†	8001.0	8081.9	0.5621	mg/L	0.5621	mg/L	16:13:55
2	Sb	206.836†	889.8	871.2	0.3908	mg/L	0.3908	mg/L	16:13:55
2	Se	196.026†	1115.1	1140.8	0.7738	mg/L	0.7738	mg/L	16:13:55
2	Sn	189.927†	5058.4	5195.3	0.7949	mg/L	0.7949	mg/L	16:13:55
2	Ti	337.279†	1005274.0	1038937.4	1.218	mg/L	1.218	mg/L	16:13:44
2	Tl	190.801†	855.1	888.0	0.8227	mg/L	0.8227	mg/L	16:13:55
2	V	292.402†	146295.4	151452.5	0.7034	mg/L	0.7034	mg/L	16:13:44
2	Zn	213.857†	247643.4	254638.1	1.867	mg/L	1.867	mg/L	16:13:44

Mean Data: CG30305-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2614573.6	0.968	mg/L	0.0003				0.03%
Ag 328.068†	68373.3	0.3824	mg/L	0.00102	0.3824	mg/L	0.00102	0.27%
Al 237.313†	418451.7	46.33	mg/L	0.120	46.33	mg/L	0.120	0.26%
As 188.979†	1144.2	0.8362	mg/L	0.00467	0.8362	mg/L	0.00467	0.56%
B 249.677†	901.4	0.5039	mg/L	0.00447	0.5039	mg/L	0.00447	0.89%
B 182.528†	462.2	0.4960	mg/L	0.00044	0.4960	mg/L	0.00044	0.09%
Ba 233.527†	241959.6	2.111	mg/L	0.0053	2.111	mg/L	0.0053	0.25%
Be 313.107†	1789788.8	0.7874	mg/L	0.00002	0.7874	mg/L	0.00002	0.00%
Ca 315.887†	4052707.1	44.21	mg/L	0.087	44.21	mg/L	0.087	0.20%
Cd 228.802†	25658.7	0.8012	mg/L	0.00368	0.8012	mg/L	0.00368	0.46%
Co 228.616†	29195.5	0.5819	mg/L	0.00303	0.5819	mg/L	0.00303	0.52%
Cr 267.716†	115362.1	1.009	mg/L	0.0011	1.009	mg/L	0.0011	0.11%
Cu 324.752†	171487.6	0.9279	mg/L	0.00258	0.9279	mg/L	0.00258	0.28%
Fe 234.349†	98290.0	65.47	mg/L	0.446	65.47	mg/L	0.446	0.68%

K 766.490†	25282.0	13.95 mg/L	0.072	13.95 mg/L	0.072	0.51%
Li 670.784†	1513.7	0.0461 mg/L	0.00129	0.0461 mg/L	0.00129	2.80%
Mg 279.077†	234401.0	18.92 mg/L	0.063	18.92 mg/L	0.063	0.33%
Mn 257.610†	1659417.5	2.122 mg/L	0.0023	2.122 mg/L	0.0023	0.11%
Mn 294.920†	833027.0	2.174 mg/L	0.0060	2.174 mg/L	0.0060	0.28%
Mo 202.031†	16030.4	0.6686 mg/L	0.00241	0.6686 mg/L	0.00241	0.36%
Na 589.592†	15501.9	2.934 mg/L	0.0225	2.934 mg/L	0.0225	0.77%
Ni 231.604†	33605.8	0.7518 mg/L	0.00133	0.7518 mg/L	0.00133	0.18%
P 214.914†	4199.4	2.663 mg/L	0.0232	2.663 mg/L	0.0232	0.87%
Pb 220.353†	8056.0	0.5603 mg/L	0.00255	0.5603 mg/L	0.00255	0.46%
Sb 206.836†	876.0	0.3931 mg/L	0.00334	0.3931 mg/L	0.00334	0.85%
Se 196.026†	1153.0	0.7822 mg/L	0.01194	0.7822 mg/L	0.01194	1.53%
Sn 189.927†	5221.9	0.7989 mg/L	0.00563	0.7989 mg/L	0.00563	0.70%
Sr 407.771†	510599.5	0.5957 mg/L	0.00493	0.5957 mg/L	0.00493	0.83%
Ti 337.279†	1036906.9	1.215 mg/L	0.0034	1.215 mg/L	0.0034	0.28%
Tl 190.801†	892.3	0.8271 mg/L	0.00627	0.8271 mg/L	0.00627	0.76%
V 292.402†	151190.1	0.7023 mg/L	0.00165	0.7023 mg/L	0.00165	0.23%
Zn 213.857†	254107.7	1.863 mg/L	0.0055	1.863 mg/L	0.0055	0.29%

Sequence No.: 46

Autosampler Location: 3

Sample ID: CCV1

Date Collected: 7/5/2013 4:15:32 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	789.8	822.0	0.4594 mg/L	0.4594 mg/L	16:17:22
1	Fe 234.349†	3370.9	3473.6	2.313 mg/L	2.313 mg/L	16:17:22
1	K 766.490†	42589.5	43155.3	23.69 mg/L	23.69 mg/L	16:17:12
1	Li 670.784†	16170.8	16931.8	0.4698 mg/L	0.4698 mg/L	16:17:12
1	Na 589.592†	126143.3	129761.6	23.72 mg/L	23.72 mg/L	16:17:12
1	Sr 407.771†	38725.7	39913.3	0.0469 mg/L	0.0469 mg/L	16:17:12
1	Y 371.029	2616047.6	2616047.6	0.969 mg/L		16:17:40
1	Ag 328.068†	42166.9	41671.6	0.2328 mg/L	0.2328 mg/L	16:17:40
1	Al 237.313†	19787.6	20860.9	2.324 mg/L	2.324 mg/L	16:17:50
1	As 188.979†	604.9	631.2	0.4631 mg/L	0.4631 mg/L	16:17:50
1	B 182.528†	401.7	424.3	0.4553 mg/L	0.4553 mg/L	16:17:50
1	Ba 233.527†	50995.2	52748.9	0.4627 mg/L	0.4627 mg/L	16:17:40
1	Be 313.107†	99792.3	104472.3	0.0463 mg/L	0.0463 mg/L	16:17:40
1	Ca 315.887†	403918.1	418915.8	4.603 mg/L	4.603 mg/L	16:17:40
1	Cd 228.802†	7302.8	7381.0	0.2315 mg/L	0.2315 mg/L	16:17:50
1	Co 228.616†	22311.4	23278.0	0.4650 mg/L	0.4650 mg/L	16:17:50
1	Cr 267.716†	51611.4	52721.9	0.4633 mg/L	0.4633 mg/L	16:17:40
1	Cu 324.752†	87619.1	85662.7	0.4655 mg/L	0.4655 mg/L	16:17:40
1	Mg 279.077†	55127.7	56915.2	4.612 mg/L	4.612 mg/L	16:17:40
1	Mn 257.610†	364945.7	360729.2	0.4653 mg/L	0.4653 mg/L	16:17:40
1	Mn 294.920†	170192.7	177054.1	0.4632 mg/L	0.4632 mg/L	16:17:40
1	Mo 202.031†	10494.5	10799.5	0.4584 mg/L	0.4584 mg/L	16:17:50
1	Ni 231.604†	20248.5	20748.3	0.4648 mg/L	0.4648 mg/L	16:17:40
1	P 214.914†	6981.2	7235.0	4.570 mg/L	4.570 mg/L	16:17:50
1	Pb 220.353†	6583.8	6615.5	0.4672 mg/L	0.4672 mg/L	16:17:50
1	Sb 206.836†	997.6	982.2	0.4633 mg/L	0.4633 mg/L	16:17:50
1	Se 196.026†	1312.6	1344.4	0.9260 mg/L	0.9260 mg/L	16:17:50
1	Sn 189.927†	3112.0	3183.8	0.4727 mg/L	0.4727 mg/L	16:17:50
1	Ti 337.279†	379841.2	392801.0	0.4634 mg/L	0.4634 mg/L	16:17:40
1	Tl 190.801†	466.1	486.0	0.4702 mg/L	0.4702 mg/L	16:17:50
1	V 292.402†	97194.7	100700.5	0.4696 mg/L	0.4696 mg/L	16:17:40
1	Zn 213.857†	62461.0	63344.8	0.4649 mg/L	0.4649 mg/L	16:17:40
2	B 249.677†	793.8	838.0	0.4683 mg/L	0.4683 mg/L	16:17:35
2	Fe 234.349†	3386.5	3540.9	2.358 mg/L	2.358 mg/L	16:17:35
2	K 766.490†	42108.7	43295.1	23.77 mg/L	23.77 mg/L	16:17:24
2	Li 670.784†	16152.1	17156.5	0.4760 mg/L	0.4760 mg/L	16:17:24
2	Na 589.592†	124844.0	130306.5	23.82 mg/L	23.82 mg/L	16:17:24
2	Sr 407.771†	38095.9	39838.6	0.0468 mg/L	0.0468 mg/L	16:17:24
2	Y 371.029	2578314.2	2578314.2	0.955 mg/L		16:17:54
2	Ag 328.068†	41712.3	41832.6	0.2337 mg/L	0.2337 mg/L	16:17:54
2	Al 237.313†	19560.9	20922.4	2.331 mg/L	2.331 mg/L	16:18:04
2	As 188.979†	594.6	629.5	0.4619 mg/L	0.4619 mg/L	16:18:04
2	B 182.528†	403.7	432.4	0.4641 mg/L	0.4641 mg/L	16:18:04

2	Ba	233.527†	50196.6	52682.9	0.4621 mg/L	0.4621 mg/L	16:17:54
2	Be	313.107†	97993.5	104095.7	0.0461 mg/L	0.0461 mg/L	16:17:54
2	Ca	315.887†	397456.0	418249.4	4.596 mg/L	4.596 mg/L	16:17:54
2	Cd	228.802†	7238.0	7423.4	0.2328 mg/L	0.2328 mg/L	16:18:04
2	Co	228.616†	22031.2	23321.7	0.4659 mg/L	0.4659 mg/L	16:18:04
2	Cr	267.716†	50826.0	52678.9	0.4629 mg/L	0.4629 mg/L	16:17:54
2	Cu	324.752†	86344.3	85651.2	0.4654 mg/L	0.4654 mg/L	16:17:54
2	Mg	279.077†	54322.8	56905.0	4.612 mg/L	4.612 mg/L	16:17:54
2	Mn	257.610†	359159.3	360181.8	0.4645 mg/L	0.4645 mg/L	16:17:54
2	Mn	294.920†	167597.7	176907.2	0.4629 mg/L	0.4629 mg/L	16:17:54
2	Mo	202.031†	10444.5	10905.7	0.4629 mg/L	0.4629 mg/L	16:18:04
2	Ni	231.604†	19894.0	20682.8	0.4634 mg/L	0.4634 mg/L	16:17:54
2	P	214.914†	6851.5	7204.7	4.551 mg/L	4.551 mg/L	16:18:04
2	Pb	220.353†	6481.4	6607.8	0.4667 mg/L	0.4667 mg/L	16:18:04
2	Sb	206.836†	985.0	984.1	0.4642 mg/L	0.4642 mg/L	16:18:04
2	Se	196.026†	1297.3	1348.2	0.9286 mg/L	0.9286 mg/L	16:18:04
2	Sn	189.927†	3054.8	3170.9	0.4708 mg/L	0.4708 mg/L	16:18:04
2	Ti	337.279†	374289.9	392725.0	0.4633 mg/L	0.4633 mg/L	16:17:54
2	Tl	190.801†	456.7	483.3	0.4676 mg/L	0.4676 mg/L	16:18:04
2	V	292.402†	95503.4	100397.4	0.4683 mg/L	0.4683 mg/L	16:17:54
2	Zn	213.857†	61498.0	63279.8	0.4644 mg/L	0.4644 mg/L	16:17:54

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2597180.9	0.962 mg/L	0.0099			1.03%
Ag 328.068†	41752.1	0.2333 mg/L	0.00063	0.2333 mg/L	0.00063	0.27%
	QC value within limits for Ag 328.068	Recovery = 93.32%				
Al 237.313†	20891.6	2.327 mg/L	0.0048	2.327 mg/L	0.0048	0.21%
	QC value within limits for Al 237.313	Recovery = 93.09%				
As 188.979†	630.4	0.4625 mg/L	0.00087	0.4625 mg/L	0.00087	0.19%
	QC value within limits for As 188.979	Recovery = 92.50%				
B 249.677†	830.0	0.4638 mg/L	0.00633	0.4638 mg/L	0.00633	1.36%
	QC value within limits for B 249.677	Recovery = 92.77%				
B 182.528†	428.3	0.4597 mg/L	0.00620	0.4597 mg/L	0.00620	1.35%
	QC value within limits for B 182.528	Recovery = 91.93%				
Ba 233.527†	52715.9	0.4624 mg/L	0.00041	0.4624 mg/L	0.00041	0.09%
	QC value within limits for Ba 233.527	Recovery = 92.48%				
Be 313.107†	104284.0	0.0462 mg/L	0.00012	0.0462 mg/L	0.00012	0.25%
	QC value within limits for Be 313.107	Recovery = 92.37%				
Ca 315.887†	418582.6	4.599 mg/L	0.0052	4.599 mg/L	0.0052	0.11%
	QC value within limits for Ca 315.887	Recovery = 91.99%				
Cd 228.802†	7402.2	0.2321 mg/L	0.00094	0.2321 mg/L	0.00094	0.40%
	QC value within limits for Cd 228.802	Recovery = 92.85%				
Co 228.616†	23299.8	0.4654 mg/L	0.00062	0.4654 mg/L	0.00062	0.13%
	QC value within limits for Co 228.616	Recovery = 93.09%				
Cr 267.716†	52700.4	0.4631 mg/L	0.00026	0.4631 mg/L	0.00026	0.06%
	QC value within limits for Cr 267.716	Recovery = 92.62%				
Cu 324.752†	85657.0	0.4654 mg/L	0.00005	0.4654 mg/L	0.00005	0.01%
	QC value within limits for Cu 324.752	Recovery = 93.09%				
Fe 234.349†	3507.3	2.335 mg/L	0.0318	2.335 mg/L	0.0318	1.36%
	QC value within limits for Fe 234.349	Recovery = 93.40%				
K 766.490†	43225.2	23.73 mg/L	0.054	23.73 mg/L	0.054	0.23%
	QC value within limits for K 766.490	Recovery = 94.93%				
Li 670.784†	17044.1	0.4729 mg/L	0.00437	0.4729 mg/L	0.00437	0.92%
	QC value within limits for Li 670.784	Recovery = 94.59%				
Mg 279.077†	56910.1	4.612 mg/L	0.0006	4.612 mg/L	0.0006	0.01%
	QC value within limits for Mg 279.077	Recovery = 92.24%				
Mn 257.610†	360455.5	0.4649 mg/L	0.00051	0.4649 mg/L	0.00051	0.11%
	QC value within limits for Mn 257.610	Recovery = 92.98%				
Mn 294.920†	176980.7	0.4631 mg/L	0.00027	0.4631 mg/L	0.00027	0.06%
	QC value within limits for Mn 294.920	Recovery = 92.61%				
Mo 202.031†	10852.6	0.4607 mg/L	0.00319	0.4607 mg/L	0.00319	0.69%
	QC value within limits for Mo 202.031	Recovery = 92.14%				
Na 589.592†	130034.0	23.77 mg/L	0.070	23.77 mg/L	0.070	0.29%
	QC value within limits for Na 589.592	Recovery = 95.09%				
Ni 231.604†	20715.6	0.4641 mg/L	0.00103	0.4641 mg/L	0.00103	0.22%
	QC value within limits for Ni 231.604	Recovery = 92.82%				
P 214.914†	7219.9	4.561 mg/L	0.0135	4.561 mg/L	0.0135	0.29%
	QC value within limits for P 214.914	Recovery = 91.22%				
Pb 220.353†	6611.7	0.4670 mg/L	0.00038	0.4670 mg/L	0.00038	0.08%
	QC value within limits for Pb 220.353	Recovery = 93.39%				

Sb 206.836† 983.1 0.4638 mg/L 0.00066 0.4638 mg/L 0.00066 0.14%
 QC value within limits for Sb 206.836 Recovery = 92.76%
 Se 196.026† 1346.3 0.9273 mg/L 0.00184 0.9273 mg/L 0.00184 0.20%
 QC value within limits for Se 196.026 Recovery = 92.73%
 Sn 189.927† 3177.3 0.4717 mg/L 0.00135 0.4717 mg/L 0.00135 0.29%
 QC value within limits for Sn 189.927 Recovery = 94.35%
 Sr 407.771† 39875.9 0.0469 mg/L 0.00006 0.0469 mg/L 0.00006 0.13%
 QC value within limits for Sr 407.771 Recovery = 93.72%
 Ti 337.279† 392763.0 0.4633 mg/L 0.00006 0.4633 mg/L 0.00006 0.01%
 QC value within limits for Ti 337.279 Recovery = 92.67%
 Tl 190.801† 484.6 0.4689 mg/L 0.00189 0.4689 mg/L 0.00189 0.40%
 QC value within limits for Tl 190.801 Recovery = 93.78%
 V 292.402† 100549.0 0.4689 mg/L 0.00093 0.4689 mg/L 0.00093 0.20%
 QC value within limits for V 292.402 Recovery = 93.79%
 Zn 213.857† 63312.3 0.4646 mg/L 0.00033 0.4646 mg/L 0.00033 0.07%
 QC value within limits for Zn 213.857 Recovery = 92.92%
 All analyte(s) passed QC.

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 Sequence No.: 47 Autosampler Location: 1
 Sample ID: CCB1 Date Collected: 7/5/2013 4:19:42 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-0.1	6.4	0.0048 mg/L	0.0048 mg/L	16:21:34
1	Fe 234.349†	5.5	-1.1	0.0098 mg/L	0.0098 mg/L	16:21:34
1	K 766.490†	894.2	102.5	0.2302 mg/L	0.2302 mg/L	16:21:24
1	Li 670.784†	-350.8	-125.4	0.0010 mg/L	0.0010 mg/L	16:21:24
1	Na 589.592†	-33.4	-514.1	0.0197 mg/L	0.0197 mg/L	16:21:24
1	Sr 407.771†	11.6	-58.6	0.0003 mg/L	0.0003 mg/L	16:21:24
1	Y 371.029	2624240.6	2624240.6	0.972 mg/L		16:21:50
1	Ag 328.068†	1771.1	-42.2	0.0015 mg/L	0.0015 mg/L	16:21:53
1	Al 237.313†	-310.1	111.3	0.0257 mg/L	0.0257 mg/L	16:21:53
1	As 188.979†	1.1	7.7	0.0100 mg/L	0.0100 mg/L	16:22:03
1	B 182.528†	-4.8	4.6	0.0048 mg/L	0.0048 mg/L	16:22:03
1	Ba 233.527†	-59.9	35.4	0.0034 mg/L	0.0034 mg/L	16:22:03
1	Be 313.107†	-1361.2	36.9	0.0004 mg/L	0.0004 mg/L	16:21:53
1	Ca 315.887†	-1660.2	166.7	0.0378 mg/L	0.0378 mg/L	16:21:53
1	Cd 228.802†	147.1	-7.6	0.0008 mg/L	0.0008 mg/L	16:22:03
1	Co 228.616†	-244.0	-9.4	-0.0002 mg/L	-0.0002 mg/L	16:22:03
1	Cr 267.716†	495.3	-56.5	0.0029 mg/L	0.0029 mg/L	16:21:53
1	Cu 324.752†	4146.9	-534.7	0.0015 mg/L	0.0015 mg/L	16:21:53
1	Mg 279.077†	32.9	30.4	0.0276 mg/L	0.0276 mg/L	16:21:53
1	Mn 257.610†	15450.9	-169.4	0.0015 mg/L	0.0015 mg/L	16:21:53
1	Mn 294.920†	-1174.1	123.8	0.0018 mg/L	0.0018 mg/L	16:21:53
1	Mo 202.031†	52.7	18.3	0.0033 mg/L	0.0033 mg/L	16:22:03
1	Ni 231.604†	153.2	-0.4	0.0016 mg/L	0.0016 mg/L	16:21:53
1	P 214.914†	-20.8	5.7	0.0505 mg/L	0.0505 mg/L	16:22:03
1	Pb 220.353†	184.7	7.9	0.0004 mg/L	0.0004 mg/L	16:22:03
1	Sb 206.836†	39.5	-7.2	0.0009 mg/L	0.0009 mg/L	16:22:03
1	Se 196.026†	17.5	7.1	0.0099 mg/L	0.0099 mg/L	16:22:03
1	Sn 189.927†	36.3	8.0	-0.0002 mg/L	-0.0002 mg/L	16:22:03
1	Ti 337.279†	-474.8	131.1	0.0051 mg/L	0.0051 mg/L	16:21:53
1	Tl 190.801†	-7.1	-2.5	-0.0013 mg/L	-0.0013 mg/L	16:22:03
1	V 292.402†	-184.8	158.1	0.0053 mg/L	0.0053 mg/L	16:21:53
1	Zn 213.857†	1489.6	387.8	0.0055 mg/L	0.0055 mg/L	16:22:03
2	B 249.677†	4.5	11.3	0.0076 mg/L	0.0076 mg/L	16:21:47
2	Fe 234.349†	23.5	18.1	0.0227 mg/L	0.0227 mg/L	16:21:47
2	K 766.490†	952.7	193.9	0.2800 mg/L	0.2800 mg/L	16:21:37
2	Li 670.784†	-174.9	49.9	0.0058 mg/L	0.0058 mg/L	16:21:37
2	Na 589.592†	41.8	-435.3	0.0340 mg/L	0.0340 mg/L	16:21:37
2	Sr 407.771†	117.6	54.3	0.0004 mg/L	0.0004 mg/L	16:21:37
2	Y 371.029	2543356.7	2543356.7	0.942 mg/L		16:22:05
2	Ag 328.068†	1739.2	-18.1	0.0017 mg/L	0.0017 mg/L	16:22:07
2	Al 237.313†	-361.9	46.1	0.0185 mg/L	0.0185 mg/L	16:22:07
2	As 188.979†	0.1	6.7	0.0092 mg/L	0.0092 mg/L	16:22:18
2	B 182.528†	-4.9	4.3	0.0046 mg/L	0.0046 mg/L	16:22:18
2	Ba 233.527†	-90.9	0.4	0.0031 mg/L	0.0031 mg/L	16:22:18

2	Be 313.107†	-1425.7	-76.1	0.0003 mg/L	0.0003 mg/L	16:22:07
2	Ca 315.887†	-1661.7	110.8	0.0372 mg/L	0.0372 mg/L	16:22:07
2	Cd 228.802†	157.2	7.9	0.0013 mg/L	0.0013 mg/L	16:22:18
2	Co 228.616†	-240.2	-13.3	-0.0003 mg/L	-0.0003 mg/L	16:22:18
2	Cr 267.716†	581.2	51.0	0.0038 mg/L	0.0038 mg/L	16:22:07
2	Cu 324.752†	4246.9	-292.7	0.0028 mg/L	0.0028 mg/L	16:22:07
2	Mg 279.077†	62.2	62.6	0.0302 mg/L	0.0302 mg/L	16:22:07
2	Mn 257.610†	15518.7	408.3	0.0022 mg/L	0.0022 mg/L	16:22:07
2	Mn 294.920†	-1230.9	25.1	0.0016 mg/L	0.0016 mg/L	16:22:07
2	Mo 202.031†	35.9	2.2	0.0026 mg/L	0.0026 mg/L	16:22:18
2	Ni 231.604†	170.7	23.2	0.0021 mg/L	0.0021 mg/L	16:22:07
2	P 214.914†	-30.0	-4.8	0.0439 mg/L	0.0439 mg/L	16:22:18
2	Pb 220.353†	174.1	2.7	0.0000 mg/L	0.0000 mg/L	16:22:18
2	Sb 206.836†	46.2	1.2	0.0048 mg/L	0.0048 mg/L	16:22:18
2	Se 196.026†	27.6	18.4	0.0176 mg/L	0.0176 mg/L	16:22:18
2	Sn 189.927†	16.1	-12.2	-0.0032 mg/L	-0.0032 mg/L	16:22:18
2	Ti 337.279†	-387.1	208.7	0.0051 mg/L	0.0051 mg/L	16:22:07
2	Tl 190.801†	-6.4	-2.0	-0.0008 mg/L	-0.0008 mg/L	16:22:18
2	V 292.402†	-207.6	127.8	0.0051 mg/L	0.0051 mg/L	16:22:07
2	Zn 213.857†	1523.5	472.6	0.0061 mg/L	0.0061 mg/L	16:22:18

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2583798.7	0.957 mg/L		0.0212				2.21%
Ag 328.068†	-30.2	0.0016 mg/L		0.00009	0.0016 mg/L		0.00009	5.87%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	78.7	0.0221 mg/L		0.00510	0.0221 mg/L		0.00510	23.11%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	7.2	0.0096 mg/L		0.00053	0.0096 mg/L		0.00053	5.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	8.8	0.0062 mg/L		0.00194	0.0062 mg/L		0.00194	31.34%
QC value within limits for B 249.677 Recovery = Not calculated								
B 182.528†	4.5	0.0047 mg/L		0.00020	0.0047 mg/L		0.00020	4.25%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	17.9	0.0033 mg/L		0.00022	0.0033 mg/L		0.00022	6.55%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-19.6	0.0004 mg/L		0.00004	0.0004 mg/L		0.00004	9.43%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	138.8	0.0375 mg/L		0.00043	0.0375 mg/L		0.00043	1.15%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	0.1	0.0010 mg/L		0.00034	0.0010 mg/L		0.00034	33.90%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-11.4	-0.0002 mg/L		0.00006	-0.0002 mg/L		0.00006	25.59%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-2.7	0.0034 mg/L		0.00066	0.0034 mg/L		0.00066	19.68%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-413.7	0.0022 mg/L		0.00092	0.0022 mg/L		0.00092	42.17%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	8.5	0.0162 mg/L		0.00907	0.0162 mg/L		0.00907	55.82%
QC value within limits for Fe 234.349 Recovery = Not calculated								
K 766.490†	148.2	0.2551 mg/L		0.03522	0.2551 mg/L		0.03522	13.81%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	-37.8	0.0034 mg/L		0.00341	0.0034 mg/L		0.00341	99.92%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	46.5	0.0289 mg/L		0.00183	0.0289 mg/L		0.00183	6.33%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	119.4	0.0018 mg/L		0.00052	0.0018 mg/L		0.00052	28.42%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mn 294.920†	74.5	0.0017 mg/L		0.00018	0.0017 mg/L		0.00018	10.65%
QC value within limits for Mn 294.920 Recovery = Not calculated								
Mo 202.031†	10.3	0.0029 mg/L		0.00049	0.0029 mg/L		0.00049	16.63%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated								
Na 589.592†	-474.7	0.0269 mg/L		0.01013	0.0269 mg/L		0.01013	37.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	11.4	0.0019 mg/L		0.00037	0.0019 mg/L		0.00037	19.78%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	0.5	0.0472 mg/L		0.00466	0.0472 mg/L		0.00466	9.87%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated								
Pb 220.353†	5.3	0.0002 mg/L		0.00026	0.0002 mg/L		0.00026	113.43%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.0	0.0028 mg/L		0.00278	0.0028 mg/L		0.00278	98.38%

QC value within limits for Sb 206.836	Recovery = Not calculated
Se 196.026†	12.7 0.0138 mg/L 0.00548 0.0138 mg/L 0.00548 39.82%
QC value within limits for Se 196.026	Recovery = Not calculated
Sn 189.927†	-2.1 -0.0017 mg/L 0.00212 -0.0017 mg/L 0.00212 124.77%
QC value within limits for Sn 189.927	Recovery = Not calculated
Sr 407.771†	-2.2 0.0004 mg/L 0.00009 0.0004 mg/L 0.00009 25.50%
QC value within limits for Sr 407.771	Recovery = Not calculated
Ti 337.279†	169.9 0.0051 mg/L 0.00006 0.0051 mg/L 0.00006 1.26%
QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated
Tl 190.801†	-2.2 -0.0010 mg/L 0.00036 -0.0010 mg/L 0.00036 34.80%
QC value within limits for Tl 190.801	Recovery = Not calculated
V 292.402†	142.9 0.0052 mg/L 0.00010 0.0052 mg/L 0.00010 1.95%
QC value greater than the upper limit for V 292.402	Recovery = Not calculated
Zn 213.857†	430.2 0.0058 mg/L 0.00044 0.0058 mg/L 0.00044 7.48%
QC value within limits for Zn 213.857	Recovery = Not calculated
QC Failed. Continue with analysis.	

Sequence No.: 48 Autosampler Location: 46
Sample ID: 1307073-01 Date Collected: 7/5/2013 4:23:55 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: 1307073-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-0.4	6.1	0.0047 mg/L	0.0047 mg/L	16:25:41
1	Fe 234.349†	303210.4	321408.5	214.1 mg/L	214.1 mg/L	16:25:39
1	K 766.490†	29006.3	29930.0	16.49 mg/L	16.49 mg/L	16:25:41
1	Li 670.784†	7021.5	7678.7	0.2155 mg/L	0.2155 mg/L	16:25:41
1	Na 589.592†	67712.7	71298.5	13.09 mg/L	13.09 mg/L	16:25:39
1	Sr 407.771†	491317.4	520745.9	0.6075 mg/L	0.6075 mg/L	16:25:39
1	Y 371.029	2548048.9	2548048.9	0.943 mg/L		16:25:54
1	Ag 328.068†	843.3	-971.2	0.0018 mg/L	0.0018 mg/L	16:25:54
1	Al 237.313†	1104262.7	1170993.8	129.6 mg/L	129.6 mg/L	16:25:54
1	As 188.979†	142.2	157.4	0.1184 mg/L	0.1184 mg/L	16:26:05
1	B 182.528†	31.8	43.3	0.0463 mg/L	0.0463 mg/L	16:26:05
1	Ba 233.527†	64230.6	68184.1	0.5972 mg/L	0.5972 mg/L	16:25:54
1	Be 313.107†	14168.9	16457.6	0.0062 mg/L	0.0062 mg/L	16:25:54
1	Ca 315.887†	11562590.8	12258692.2	133.6 mg/L	133.6 mg/L	16:25:51
1	Cd 228.802†	291.3	149.8	0.0020 mg/L	0.0020 mg/L	16:26:05
1	Co 228.616†	4530.1	5043.9	0.0880 mg/L	0.0880 mg/L	16:26:05
1	Cr 267.716†	24990.8	25925.0	0.2294 mg/L	0.2294 mg/L	16:25:54
1	Cu 324.752†	146297.4	150278.3	0.8200 mg/L	0.8200 mg/L	16:25:54
1	Mg 279.077†	544235.0	576907.8	46.52 mg/L	46.52 mg/L	16:25:54
1	Mn 257.610†	2578744.4	2717501.4	3.449 mg/L	3.449 mg/L	16:25:54
1	Mn 294.920†	1291616.8	1370498.7	3.576 mg/L	3.576 mg/L	16:25:54
1	Mo 202.031†	506.1	500.5	-0.0129 mg/L	-0.0129 mg/L	16:26:05
1	Ni 231.604†	8003.9	8326.5	0.1873 mg/L	0.1873 mg/L	16:26:05
1	P 214.914†	9208.2	9788.1	6.169 mg/L	6.169 mg/L	16:26:05
1	Pb 220.353†	22670.7	23849.7	1.654 mg/L	1.654 mg/L	16:26:05
1	Sb 206.836†	112.5	71.4	-0.0254 mg/L	-0.0254 mg/L	16:26:05
1	Se 196.026†	-29.2	-41.8	-0.0665 mg/L	-0.0665 mg/L	16:26:05
1	Sn 189.927†	-266.2	-311.5	0.0351 mg/L	0.0351 mg/L	16:26:05
1	Ti 337.279†	4891882.3	5186214.1	6.058 mg/L	6.058 mg/L	16:25:54
1	Tl 190.801†	11.7	17.2	-0.1098 mg/L	-0.1098 mg/L	16:26:05
1	V 292.402†	71709.7	76363.5	0.3399 mg/L	0.3399 mg/L	16:25:54
1	Zn 213.857†	212159.5	223752.3	1.637 mg/L	1.637 mg/L	16:25:54
2	B 249.677†	-9.8	-3.9	-0.0008 mg/L	-0.0008 mg/L	16:25:45
2	Fe 234.349†	303155.8	321622.7	214.3 mg/L	214.3 mg/L	16:25:43
2	K 766.490†	28968.5	29915.9	16.48 mg/L	16.48 mg/L	16:25:45
2	Li 670.784†	6903.1	7559.4	0.2122 mg/L	0.2122 mg/L	16:25:45
2	Na 589.592†	67741.1	71389.3	13.10 mg/L	13.10 mg/L	16:25:43
2	Sr 407.771†	491116.7	520973.7	0.6078 mg/L	0.6078 mg/L	16:25:43
2	Y 371.029	2545893.9	2545893.9	0.943 mg/L		16:26:12
2	Ag 328.068†	871.0	-941.0	0.0020 mg/L	0.0020 mg/L	16:26:12
2	Al 237.313†	1103035.2	1170682.4	129.6 mg/L	129.6 mg/L	16:26:12
2	As 188.979†	142.7	158.0	0.1188 mg/L	0.1188 mg/L	16:26:22
2	B 182.528†	28.1	39.3	0.0421 mg/L	0.0421 mg/L	16:26:22
2	Ba 233.527†	64208.8	68218.6	0.5975 mg/L	0.5975 mg/L	16:26:12
2	Be 313.107†	14195.1	16498.1	0.0062 mg/L	0.0062 mg/L	16:26:12

2	Ca	315.887†	11646137.6	12357705.3	134.7 mg/L	134.7 mg/L	16:26:08
2	Cd	228.802†	288.5	147.1	0.0020 mg/L	0.0020 mg/L	16:26:22
2	Co	228.616†	4560.1	5079.8	0.0887 mg/L	0.0887 mg/L	16:26:22
2	Cr	267.716†	24995.8	25952.8	0.2296 mg/L	0.2296 mg/L	16:26:12
2	Cu	324.752†	146327.8	150441.9	0.8209 mg/L	0.8209 mg/L	16:26:12
2	Mg	279.077†	543188.5	576285.8	46.47 mg/L	46.47 mg/L	16:26:12
2	Mn	257.610†	2574258.1	2715055.7	3.446 mg/L	3.446 mg/L	16:26:12
2	Mn	294.920†	1288861.3	1368734.2	3.571 mg/L	3.571 mg/L	16:26:12
2	Mo	202.031†	485.3	479.0	-0.0139 mg/L	-0.0139 mg/L	16:26:22
2	Ni	231.604†	8023.5	8354.4	0.1879 mg/L	0.1879 mg/L	16:26:22
2	P	214.914†	9204.9	9792.9	6.172 mg/L	6.172 mg/L	16:26:22
2	Pb	220.353†	22684.7	23884.9	1.657 mg/L	1.657 mg/L	16:26:22
2	Sb	206.836†	115.1	74.3	-0.0241 mg/L	-0.0241 mg/L	16:26:22
2	Se	196.026†	-35.2	-48.3	-0.0710 mg/L	-0.0710 mg/L	16:26:22
2	Sn	189.927†	-282.1	-328.6	0.0333 mg/L	0.0333 mg/L	16:26:22
2	Ti	337.279†	4885981.1	5184342.7	6.056 mg/L	6.056 mg/L	16:26:12
2	Tl	190.801†	16.5	22.3	-0.1049 mg/L	-0.1049 mg/L	16:26:22
2	V	292.402†	71549.3	76257.7	0.3394 mg/L	0.3394 mg/L	16:26:12
2	Zn	213.857†	211920.0	223688.6	1.637 mg/L	1.637 mg/L	16:26:12

Mean Data: 1307073-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2546971.4	0.943	mg/L	0.0006			0.06%
Ag 328.068†	-956.1	0.0019	mg/L	0.00012	0.0019 mg/L	0.00012	6.33%
Al 237.313†	1170838.1	129.6	mg/L	0.02	129.6 mg/L	0.02	0.02%
As 188.979†	157.7	0.1186	mg/L	0.00034	0.1186 mg/L	0.00034	0.29%
B 249.677†	1.1	0.0019	mg/L	0.00392	0.0019 mg/L	0.00392	203.80%
B 182.528†	41.3	0.0442	mg/L	0.00298	0.0442 mg/L	0.00298	6.74%
Ba 233.527†	68201.3	0.5973	mg/L	0.00021	0.5973 mg/L	0.00021	0.04%
Be 313.107†	16477.9	0.0062	mg/L	0.00001	0.0062 mg/L	0.00001	0.21%
Ca 315.887†	12308198.7	134.2	mg/L	0.76	134.2 mg/L	0.76	0.57%
Cd 228.802†	148.4	0.0020	mg/L	0.00006	0.0020 mg/L	0.00006	3.08%
Co 228.616†	5061.8	0.0883	mg/L	0.00051	0.0883 mg/L	0.00051	0.58%
Cr 267.716†	25938.9	0.2295	mg/L	0.00017	0.2295 mg/L	0.00017	0.07%
Cu 324.752†	150360.1	0.8204	mg/L	0.00062	0.8204 mg/L	0.00062	0.08%
Fe 234.349†	321515.6	214.2	mg/L	0.10	214.2 mg/L	0.10	0.05%
K 766.490†	29922.9	16.48	mg/L	0.005	16.48 mg/L	0.005	0.03%
Li 670.784†	7619.0	0.2139	mg/L	0.00232	0.2139 mg/L	0.00232	1.08%
Mg 279.077†	576596.8	46.50	mg/L	0.035	46.50 mg/L	0.035	0.08%
Mn 257.610†	2716278.5	3.448	mg/L	0.0022	3.448 mg/L	0.0022	0.07%
Mn 294.920†	1369616.4	3.573	mg/L	0.0033	3.573 mg/L	0.0033	0.09%
Mo 202.031†	489.8	-0.0134	mg/L	0.00067	-0.0134 mg/L	0.00067	4.97%
Na 589.592†	71343.9	13.09	mg/L	0.012	13.09 mg/L	0.012	0.09%
Ni 231.604†	8340.4	0.1876	mg/L	0.00044	0.1876 mg/L	0.00044	0.23%
P 214.914†	9790.5	6.171	mg/L	0.0021	6.171 mg/L	0.0021	0.03%
Pb 220.353†	23867.3	1.655	mg/L	0.0018	1.655 mg/L	0.0018	0.11%
Sb 206.836†	72.8	-0.0248	mg/L	0.00091	-0.0248 mg/L	0.00091	3.69%
Se 196.026†	-45.1	-0.0687	mg/L	0.00315	-0.0687 mg/L	0.00315	4.58%
Sn 189.927†	-320.0	0.0342	mg/L	0.00132	0.0342 mg/L	0.00132	3.85%
Sr 407.771†	520859.8	0.6077	mg/L	0.00019	0.6077 mg/L	0.00019	0.03%
Ti 337.279†	5185278.4	6.057	mg/L	0.0015	6.057 mg/L	0.0015	0.03%
Tl 190.801†	19.7	-0.1073	mg/L	0.00349	-0.1073 mg/L	0.00349	3.25%
V 292.402†	76310.6	0.3396	mg/L	0.00035	0.3396 mg/L	0.00035	0.10%
Zn 213.857†	223720.5	1.637	mg/L	0.0003	1.637 mg/L	0.0003	0.02%

Sequence No.: 49

Sample ID: CG30305-DUP1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 47

Date Collected: 7/5/2013 4:29:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30305-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-21.1	-15.6	-0.0074 mg/L	-0.0074 mg/L	16:31:15
1	Fe 234.349†	327168.7	342169.4	228.0 mg/L	228.0 mg/L	16:31:13
1	K 766.490†	31486.3	32112.8	17.68 mg/L	17.68 mg/L	16:31:13
1	Li 670.784†	7428.0	8004.3	0.2245 mg/L	0.2245 mg/L	16:31:15
1	Na 589.592†	65777.3	68314.9	12.54 mg/L	12.54 mg/L	16:31:13

1	Sr 407.771†	415369.2	434351.9	0.5068	mg/L	0.5068	mg/L	16:31:13
1	Y 371.029	2582571.3	2582571.3	0.956	mg/L			16:31:28
1	Ag 328.068†	810.3	-1017.7	0.0019	mg/L	0.0019	mg/L	16:31:28
1	Al 237.313†	1178776.3	1233278.0	136.5	mg/L	136.5	mg/L	16:31:28
1	As 188.979†	147.9	161.3	0.1212	mg/L	0.1212	mg/L	16:31:38
1	B 182.528†	17.2	27.6	0.0295	mg/L	0.0295	mg/L	16:31:38
1	Ba 233.527†	75984.0	79566.5	0.6963	mg/L	0.6963	mg/L	16:31:28
1	Be 313.107†	16702.1	18906.2	0.0072	mg/L	0.0072	mg/L	16:31:28
1	Ca 315.887†	10611440.8	11100070.3	121.0	mg/L	121.0	mg/L	16:31:24
1	Cd 228.802†	289.3	143.5	0.0016	mg/L	0.0016	mg/L	16:31:38
1	Co 228.616†	4652.0	5107.2	0.0891	mg/L	0.0891	mg/L	16:31:38
1	Cr 267.716†	25752.5	26367.6	0.2332	mg/L	0.2332	mg/L	16:31:28
1	Cu 324.752†	89858.6	89177.6	0.4914	mg/L	0.4914	mg/L	16:31:28
1	Mg 279.077†	555910.1	581406.7	46.88	mg/L	46.88	mg/L	16:31:28
1	Mn 257.610†	2706899.5	2814994.2	3.572	mg/L	3.572	mg/L	16:31:28
1	Mn 294.920†	1357724.4	1421336.5	3.708	mg/L	3.708	mg/L	16:31:28
1	Mo 202.031†	529.6	518.0	-0.0124	mg/L	-0.0124	mg/L	16:31:38
1	Ni 231.604†	8026.8	8236.9	0.1853	mg/L	0.1853	mg/L	16:31:38
1	P 214.914†	9668.3	10138.8	6.392	mg/L	6.392	mg/L	16:31:38
1	Pb 220.353†	34943.2	36364.0	2.535	mg/L	2.535	mg/L	16:31:28
1	Sb 206.836†	109.5	66.7	-0.0316	mg/L	-0.0316	mg/L	16:31:38
1	Se 196.026†	-45.4	-58.4	-0.0806	mg/L	-0.0806	mg/L	16:31:38
1	Sn 189.927†	-350.5	-395.9	0.0148	mg/L	0.0148	mg/L	16:31:38
1	Ti 337.279†	5020090.5	5250985.2	6.134	mg/L	6.134	mg/L	16:31:28
1	Tl 190.801†	8.5	13.7	-0.1218	mg/L	-0.1218	mg/L	16:31:38
1	V 292.402†	76139.5	79980.4	0.3564	mg/L	0.3564	mg/L	16:31:28
1	Zn 213.857†	178190.0	185218.2	1.353	mg/L	1.353	mg/L	16:31:28
2	B 249.677†	-12.9	-7.0	-0.0026	mg/L	-0.0026	mg/L	16:31:19
2	Fe 234.349†	331106.9	344209.1	229.3	mg/L	229.3	mg/L	16:31:17
2	K 766.490†	31840.5	32283.2	17.77	mg/L	17.77	mg/L	16:31:17
2	Li 670.784†	7521.8	8055.2	0.2259	mg/L	0.2259	mg/L	16:31:19
2	Na 589.592†	66638.3	68796.9	12.63	mg/L	12.63	mg/L	16:31:17
2	Sr 407.771†	420302.8	436872.7	0.5097	mg/L	0.5097	mg/L	16:31:17
2	Y 371.029	2598170.2	2598170.2	0.962	mg/L			16:31:44
2	Ag 328.068†	667.7	-1171.0	0.0011	mg/L	0.0011	mg/L	16:31:44
2	Al 237.313†	1187478.1	1234922.5	136.7	mg/L	136.7	mg/L	16:31:44
2	As 188.979†	147.0	159.4	0.1198	mg/L	0.1198	mg/L	16:31:55
2	B 182.528†	26.6	37.2	0.0398	mg/L	0.0398	mg/L	16:31:55
2	Ba 233.527†	76487.5	79612.7	0.6967	mg/L	0.6967	mg/L	16:31:44
2	Be 313.107†	16742.0	18842.9	0.0072	mg/L	0.0072	mg/L	16:31:44
2	Ca 315.887†	10718714.9	11144959.8	121.5	mg/L	121.5	mg/L	16:31:41
2	Cd 228.802†	284.9	137.1	0.0014	mg/L	0.0014	mg/L	16:31:55
2	Co 228.616†	4598.2	5022.1	0.0873	mg/L	0.0873	mg/L	16:31:55
2	Cr 267.716†	25944.2	26405.1	0.2336	mg/L	0.2336	mg/L	16:31:44
2	Cu 324.752†	90425.9	89203.1	0.4916	mg/L	0.4916	mg/L	16:31:44
2	Mg 279.077†	562202.5	584457.4	47.13	mg/L	47.13	mg/L	16:31:44
2	Mn 257.610†	2727363.3	2819271.0	3.577	mg/L	3.577	mg/L	16:31:44
2	Mn 294.920†	1368146.6	1423645.8	3.714	mg/L	3.714	mg/L	16:31:44
2	Mo 202.031†	507.7	491.9	-0.0137	mg/L	-0.0137	mg/L	16:31:55
2	Ni 231.604†	7970.4	8127.9	0.1828	mg/L	0.1828	mg/L	16:31:55
2	P 214.914†	9641.9	10050.7	6.337	mg/L	6.337	mg/L	16:31:55
2	Pb 220.353†	35066.1	36272.3	2.528	mg/L	2.528	mg/L	16:31:44
2	Sb 206.836†	114.1	70.8	-0.0301	mg/L	-0.0301	mg/L	16:31:55
2	Se 196.026†	-51.2	-64.1	-0.0848	mg/L	-0.0848	mg/L	16:31:55
2	Sn 189.927†	-345.1	-388.0	0.0163	mg/L	0.0163	mg/L	16:31:55
2	Ti 337.279†	5053411.3	5254102.9	6.137	mg/L	6.137	mg/L	16:31:44
2	Tl 190.801†	6.0	11.0	-0.1252	mg/L	-0.1252	mg/L	16:31:55
2	V 292.402†	76820.4	80210.1	0.3574	mg/L	0.3574	mg/L	16:31:44
2	Zn 213.857†	179429.4	185387.9	1.355	mg/L	1.355	mg/L	16:31:44

Mean Data: CG30305-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2590370.7	0.959 mg/L	0.0041			0.43%
Ag 328.068†	-1094.3	0.0015 mg/L	0.00058	0.0015 mg/L	0.00058	38.24%
Al 237.313†	1234100.2	136.6 mg/L	0.13	136.6 mg/L	0.13	0.09%
As 188.979†	160.4	0.1205 mg/L	0.00098	0.1205 mg/L	0.00098	0.81%
B 249.677†	-11.3	-0.0050 mg/L	0.00341	-0.0050 mg/L	0.00341	68.44%
B 182.528†	32.4	0.0346 mg/L	0.00729	0.0346 mg/L	0.00729	21.05%
Ba 233.527†	79589.6	0.6965 mg/L	0.00028	0.6965 mg/L	0.00028	0.04%
Be 313.107†	18874.5	0.0072 mg/L	0.00002	0.0072 mg/L	0.00002	0.28%
Ca 315.887†	11122515.1	121.3 mg/L	0.35	121.3 mg/L	0.35	0.29%

Cd	228.802†	140.3	0.0015 mg/L	0.00016	0.0015 mg/L	0.00016	10.46%
Co	228.616†	5064.6	0.0882 mg/L	0.00121	0.0882 mg/L	0.00121	1.37%
Cr	267.716†	26386.4	0.2334 mg/L	0.00023	0.2334 mg/L	0.00023	0.10%
Cu	324.752†	89190.3	0.4915 mg/L	0.00010	0.4915 mg/L	0.00010	0.02%
Fe	234.349†	343189.3	228.7 mg/L	0.96	228.7 mg/L	0.96	0.42%
K	766.490†	32198.0	17.72 mg/L	0.066	17.72 mg/L	0.066	0.37%
Li	670.784†	8029.7	0.2252 mg/L	0.00099	0.2252 mg/L	0.00099	0.44%
Mg	279.077†	582932.0	47.01 mg/L	0.174	47.01 mg/L	0.174	0.37%
Mn	257.610†	2817132.6	3.574 mg/L	0.0037	3.574 mg/L	0.0037	0.10%
Mn	294.920†	1422491.1	3.711 mg/L	0.0043	3.711 mg/L	0.0043	0.11%
Mo	202.031†	504.9	-0.0131 mg/L	0.00093	-0.0131 mg/L	0.00093	7.10%
Na	589.592†	68555.9	12.59 mg/L	0.062	12.59 mg/L	0.062	0.49%
Ni	231.604†	8182.4	0.1841 mg/L	0.00172	0.1841 mg/L	0.00172	0.93%
P	214.914†	10094.8	6.365 mg/L	0.0390	6.365 mg/L	0.0390	0.61%
Pb	220.353†	36318.1	2.532 mg/L	0.0046	2.532 mg/L	0.0046	0.18%
Sb	206.836†	68.8	-0.0308 mg/L	0.00107	-0.0308 mg/L	0.00107	3.47%
Se	196.026†	-61.2	-0.0827 mg/L	0.00297	-0.0827 mg/L	0.00297	3.59%
Sn	189.927†	-392.0	0.0155 mg/L	0.00104	0.0155 mg/L	0.00104	6.68%
Sr	407.771†	435612.3	0.5083 mg/L	0.00208	0.5083 mg/L	0.00208	0.41%
Ti	337.279†	5252544.0	6.136 mg/L	0.0026	6.136 mg/L	0.0026	0.04%
Tl	190.801†	12.4	-0.1235 mg/L	0.00244	-0.1235 mg/L	0.00244	1.97%
V	292.402†	80095.2	0.3569 mg/L	0.00072	0.3569 mg/L	0.00072	0.20%
Zn	213.857†	185303.1	1.354 mg/L	0.0009	1.354 mg/L	0.0009	0.06%

Sequence No.: 50

Sample ID: CG30305-MS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 7/5/2013 4:35:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30305-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	705.2	749.8	0.4192 mg/L	0.4192 mg/L	16:36:48
1	Fe 234.349†	284190.7	299522.8	199.5 mg/L	199.5 mg/L	16:36:46
1	K 766.490†	65869.6	68607.0	37.56 mg/L	37.56 mg/L	16:36:48
1	Li 670.784†	21937.5	23357.1	0.6464 mg/L	0.6464 mg/L	16:36:48
1	Na 589.592†	181976.1	191318.3	34.92 mg/L	34.92 mg/L	16:36:46
1	Sr 407.771†	486947.9	513159.8	0.5987 mg/L	0.5987 mg/L	16:36:46
1	Y 371.029	2562715.7	2562715.7	0.949 mg/L		16:37:02
1	Ag 328.068†	35978.8	36055.5	0.2067 mg/L	0.2067 mg/L	16:37:02
1	Al 237.313†	1070973.2	1129208.3	125.0 mg/L	125.0 mg/L	16:37:02
1	As 188.979†	678.8	722.1	0.5289 mg/L	0.5289 mg/L	16:37:12
1	B 182.528†	367.7	397.1	0.4261 mg/L	0.4261 mg/L	16:37:12
1	Ba 233.527†	118748.2	125254.5	1.094 mg/L	1.094 mg/L	16:37:02
1	Be 313.107†	103959.3	111008.4	0.0478 mg/L	0.0478 mg/L	16:37:02
1	Ca 315.887†	11966766.2	12614535.2	137.5 mg/L	137.5 mg/L	16:36:58
1	Cd 228.802†	6553.8	6748.5	0.2084 mg/L	0.2084 mg/L	16:37:12
1	Co 228.616†	23589.4	25104.4	0.4895 mg/L	0.4895 mg/L	16:37:12
1	Cr 267.716†	71548.8	74844.4	0.6561 mg/L	0.6561 mg/L	16:37:02
1	Cu 324.752†	185013.5	190196.5	1.034 mg/L	1.034 mg/L	16:37:02
1	Mg 279.077†	546097.0	575568.5	46.41 mg/L	46.41 mg/L	16:37:02
1	Mn 257.610†	2822509.4	2958778.8	3.763 mg/L	3.763 mg/L	16:37:02
1	Mn 294.920†	1411081.3	1488575.2	3.884 mg/L	3.884 mg/L	16:37:02
1	Mo 202.031†	9526.7	10004.9	0.3919 mg/L	0.3919 mg/L	16:37:12
1	Ni 231.604†	24613.4	25783.8	0.5770 mg/L	0.5770 mg/L	16:37:02
1	P 214.914†	14541.6	15353.6	9.650 mg/L	9.650 mg/L	16:37:12
1	Pb 220.353†	28405.5	29756.6	2.073 mg/L	2.073 mg/L	16:37:12
1	Sb 206.836†	518.8	499.0	0.1790 mg/L	0.1790 mg/L	16:37:12
1	Se 196.026†	1081.2	1128.7	0.7387 mg/L	0.7387 mg/L	16:37:12
1	Sn 189.927†	2347.9	2445.3	0.4456 mg/L	0.4456 mg/L	16:37:12
1	Ti 337.279†	4913398.0	5179213.2	6.050 mg/L	6.050 mg/L	16:37:02
1	Tl 190.801†	412.4	439.5	0.3079 mg/L	0.3079 mg/L	16:37:12
1	V 292.402†	151379.5	159898.3	0.7270 mg/L	0.7270 mg/L	16:37:02
1	Zn 213.857†	257437.6	270187.1	1.976 mg/L	1.976 mg/L	16:37:02
2	B 249.677†	682.4	710.4	0.3972 mg/L	0.3972 mg/L	16:36:52
2	Fe 234.349†	283731.6	292667.1	195.0 mg/L	195.0 mg/L	16:36:50
2	K 766.490†	66293.5	67565.0	37.00 mg/L	37.00 mg/L	16:36:52
2	Li 670.784†	22053.3	22984.0	0.6362 mg/L	0.6362 mg/L	16:36:52
2	Na 589.592†	181444.9	186683.8	34.08 mg/L	34.08 mg/L	16:36:50
2	Sr 407.771†	486445.7	501706.2	0.5853 mg/L	0.5853 mg/L	16:36:50

2	Y 371.029	2618508.9	2618508.9	0.969 mg/L			16:37:19
2	Ag 328.068†	36600.8	35889.2	0.2057 mg/L	0.2057 mg/L		16:37:19
2	Al 237.313†	1095671.5	1130633.8	125.1 mg/L	125.1 mg/L		16:37:19
2	As 188.979†	687.1	715.4	0.5240 mg/L	0.5240 mg/L		16:37:30
2	B 182.528†	381.7	403.3	0.4328 mg/L	0.4328 mg/L		16:37:30
2	Ba 233.527†	121533.8	125461.1	1.096 mg/L	1.096 mg/L		16:37:19
2	Be 313.107†	106275.1	111062.6	0.0478 mg/L	0.0478 mg/L		16:37:19
2	Ca 315.887†	11886227.3	12262716.7	133.7 mg/L	133.7 mg/L		16:37:16
2	Cd 228.802†	6558.1	6605.7	0.2040 mg/L	0.2040 mg/L		16:37:30
2	Co 228.616†	23616.6	24602.7	0.4795 mg/L	0.4795 mg/L		16:37:30
2	Cr 267.716†	73211.4	74952.5	0.6570 mg/L	0.6570 mg/L		16:37:19
2	Cu 324.752†	189103.0	190260.0	1.035 mg/L	1.035 mg/L		16:37:19
2	Mg 279.077†	559501.3	577131.4	46.54 mg/L	46.54 mg/L		16:37:19
2	Mn 257.610†	2886952.1	2961866.6	3.768 mg/L	3.768 mg/L		16:37:19
2	Mn 294.920†	1443163.7	1489979.6	3.887 mg/L	3.887 mg/L		16:37:19
2	Mo 202.031†	9590.0	9856.3	0.3863 mg/L	0.3863 mg/L		16:37:30
2	Ni 231.604†	25213.2	25849.8	0.5785 mg/L	0.5785 mg/L		16:37:19
2	P 214.914†	14547.9	15033.4	9.449 mg/L	9.449 mg/L		16:37:30
2	Pb 220.353†	28371.4	29083.5	2.025 mg/L	2.025 mg/L		16:37:30
2	Sb 206.836†	513.2	481.5	0.1721 mg/L	0.1721 mg/L		16:37:30
2	Se 196.026†	1091.2	1114.6	0.7300 mg/L	0.7300 mg/L		16:37:30
2	Sn 189.927†	2352.0	2396.8	0.4360 mg/L	0.4360 mg/L		16:37:30
2	Ti 337.279†	5022497.4	5181409.4	6.053 mg/L	6.053 mg/L		16:37:19
2	Tl 190.801†	407.1	424.7	0.2962 mg/L	0.2962 mg/L		16:37:30
2	V 292.402†	154504.7	159722.4	0.7261 mg/L	0.7261 mg/L		16:37:19
2	Zn 213.857†	263616.6	270779.5	1.981 mg/L	1.981 mg/L		16:37:19

Mean Data: CG30305-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2590612.3	0.959	mg/L	0.0146				1.52%
Ag 328.068†	35972.4	0.2062	mg/L	0.00073	0.2062	mg/L	0.00073	0.36%
Al 237.313†	1129921.1	125.1	mg/L	0.11	125.1	mg/L	0.11	0.09%
As 188.979†	718.8	0.5264	mg/L	0.00344	0.5264	mg/L	0.00344	0.65%
B 249.677†	730.1	0.4082	mg/L	0.01551	0.4082	mg/L	0.01551	3.80%
B 182.528†	400.2	0.4295	mg/L	0.00469	0.4295	mg/L	0.00469	1.09%
Ba 233.527†	125357.8	1.095	mg/L	0.0013	1.095	mg/L	0.0013	0.12%
Be 313.107†	111035.5	0.0478	mg/L	0.00002	0.0478	mg/L	0.00002	0.03%
Ca 315.887†	12438626.0	135.6	mg/L	2.71	135.6	mg/L	2.71	2.00%
Cd 228.802†	6677.1	0.2062	mg/L	0.00310	0.2062	mg/L	0.00310	1.50%
Co 228.616†	24853.6	0.4845	mg/L	0.00710	0.4845	mg/L	0.00710	1.47%
Cr 267.716†	74898.4	0.6566	mg/L	0.00066	0.6566	mg/L	0.00066	0.10%
Cu 324.752†	190228.2	1.035	mg/L	0.0002	1.035	mg/L	0.0002	0.02%
Fe 234.349†	296094.9	197.2	mg/L	3.23	197.2	mg/L	3.23	1.64%
K 766.490†	68086.0	37.28	mg/L	0.402	37.28	mg/L	0.402	1.08%
Li 670.784†	23170.6	0.6413	mg/L	0.00725	0.6413	mg/L	0.00725	1.13%
Mg 279.077†	576350.0	46.48	mg/L	0.089	46.48	mg/L	0.089	0.19%
Mn 257.610†	2960322.7	3.766	mg/L	0.0035	3.766	mg/L	0.0035	0.09%
Mn 294.920†	1489277.4	3.885	mg/L	0.0026	3.885	mg/L	0.0026	0.07%
Mo 202.031†	9930.6	0.3891	mg/L	0.00398	0.3891	mg/L	0.00398	1.02%
Na 589.592†	189001.0	34.50	mg/L	0.596	34.50	mg/L	0.596	1.73%
Ni 231.604†	25816.8	0.5778	mg/L	0.00103	0.5778	mg/L	0.00103	0.18%
P 214.914†	15193.5	9.550	mg/L	0.1417	9.550	mg/L	0.1417	1.48%
Pb 220.353†	29420.0	2.049	mg/L	0.0336	2.049	mg/L	0.0336	1.64%
Sb 206.836†	490.3	0.1755	mg/L	0.00490	0.1755	mg/L	0.00490	2.79%
Se 196.026†	1121.7	0.7343	mg/L	0.00615	0.7343	mg/L	0.00615	0.84%
Sn 189.927†	2421.1	0.4408	mg/L	0.00675	0.4408	mg/L	0.00675	1.53%
Sr 407.771†	507433.0	0.5920	mg/L	0.00944	0.5920	mg/L	0.00944	1.60%
Ti 337.279†	5180311.3	6.051	mg/L	0.0018	6.051	mg/L	0.0018	0.03%
Tl 190.801†	432.1	0.3020	mg/L	0.00829	0.3020	mg/L	0.00829	2.74%
V 292.402†	159810.3	0.7265	mg/L	0.00063	0.7265	mg/L	0.00063	0.09%
Zn 213.857†	270483.3	1.979	mg/L	0.0032	1.979	mg/L	0.0032	0.16%

Sequence No.: 51
Sample ID: CG30305-SD1 @5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 7/5/2013 4:39:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	1.5	8.0	0.0058	mg/L	0.0058	mg/L	16:40:58
1	Fe 234.349†	77527.8	81197.2	54.10	mg/L	54.10	mg/L	16:40:48
1	K 766.490†	7857.1	7411.8	4.214	mg/L	4.214	mg/L	16:40:48
1	Li 670.784†	1429.6	1733.0	0.0521	mg/L	0.0521	mg/L	16:40:48
1	Na 589.592†	17090.8	17421.4	3.283	mg/L	3.283	mg/L	16:40:48
1	Sr 407.771†	122353.1	128084.1	0.1497	mg/L	0.1497	mg/L	16:40:48
1	Y 371.029	2578759.1	2578759.1	0.955	mg/L			16:41:15
1	Ag 328.068†	1467.0	-328.6	0.0013	mg/L	0.0013	mg/L	16:41:18
1	Al 237.313†	265166.2	278170.0	30.80	mg/L	30.80	mg/L	16:41:15
1	As 188.979†	31.2	39.4	0.0329	mg/L	0.0329	mg/L	16:41:28
1	B 182.528†	3.9	13.7	0.0146	mg/L	0.0146	mg/L	16:41:28
1	Ba 233.527†	15504.2	16336.4	0.1455	mg/L	0.1455	mg/L	16:41:18
1	Be 313.107†	2458.4	4013.0	0.0018	mg/L	0.0018	mg/L	16:41:18
1	Ca 315.887†	2862021.2	2999604.6	32.73	mg/L	32.73	mg/L	16:41:15
1	Cd 228.802†	193.2	43.4	0.0014	mg/L	0.0014	mg/L	16:41:28
1	Co 228.616†	908.8	1193.6	0.0208	mg/L	0.0208	mg/L	16:41:28
1	Cr 267.716†	6538.5	6282.3	0.0582	mg/L	0.0582	mg/L	16:41:18
1	Cu 324.752†	38019.5	35019.3	0.1945	mg/L	0.1945	mg/L	16:41:18
1	Mg 279.077†	133403.0	139725.0	11.29	mg/L	11.29	mg/L	16:41:18
1	Mn 257.610†	651995.8	666838.8	0.8474	mg/L	0.8474	mg/L	16:41:15
1	Mn 294.920†	315367.4	331653.4	0.8664	mg/L	0.8664	mg/L	16:41:18
1	Mo 202.031†	221.3	195.9	0.0016	mg/L	0.0016	mg/L	16:41:28
1	Ni 231.604†	2062.6	2002.4	0.0463	mg/L	0.0463	mg/L	16:41:28
1	P 214.914†	2176.8	2307.1	1.490	mg/L	1.490	mg/L	16:41:28
1	Pb 220.353†	5563.9	5645.6	0.3914	mg/L	0.3914	mg/L	16:41:28
1	Sb 206.836†	62.0	17.1	-0.0037	mg/L	-0.0037	mg/L	16:41:28
1	Se 196.026†	-4.9	-16.0	-0.0168	mg/L	-0.0168	mg/L	16:41:28
1	Sn 189.927†	-223.0	-262.9	-0.0201	mg/L	-0.0201	mg/L	16:41:28
1	Ti 337.279†	1194927.6	1252207.0	1.466	mg/L	1.466	mg/L	16:41:15
1	Tl 190.801†	4.7	9.8	-0.0216	mg/L	-0.0216	mg/L	16:41:28
1	V 292.402†	17135.6	18296.4	0.0849	mg/L	0.0849	mg/L	16:41:18
1	Zn 213.857†	52878.0	54239.9	0.3988	mg/L	0.3988	mg/L	16:41:18
2	B 249.677†	-7.0	-0.9	0.0008	mg/L	0.0008	mg/L	16:41:11
2	Fe 234.349†	76444.2	80964.3	53.95	mg/L	53.95	mg/L	16:41:01
2	K 766.490†	7778.6	7421.4	4.219	mg/L	4.219	mg/L	16:41:01
2	Li 670.784†	1309.6	1622.7	0.0491	mg/L	0.0491	mg/L	16:41:01
2	Na 589.592†	16960.1	17484.7	3.294	mg/L	3.294	mg/L	16:41:01
2	Sr 407.771†	120611.7	127683.5	0.1492	mg/L	0.1492	mg/L	16:41:01
2	Y 371.029	2550027.6	2550027.6	0.944	mg/L			16:41:31
2	Ag 328.068†	1454.8	-324.2	0.0013	mg/L	0.0013	mg/L	16:41:33
2	Al 237.313†	248580.6	263731.6	29.20	mg/L	29.20	mg/L	16:41:31
2	As 188.979†	24.5	32.6	0.0279	mg/L	0.0279	mg/L	16:41:43
2	B 182.528†	1.9	11.5	0.0123	mg/L	0.0123	mg/L	16:41:43
2	Ba 233.527†	14868.6	15846.1	0.1412	mg/L	0.1412	mg/L	16:41:33
2	Be 313.107†	2355.9	3933.4	0.0018	mg/L	0.0018	mg/L	16:41:33
2	Ca 315.887†	2686060.3	2846999.4	31.06	mg/L	31.06	mg/L	16:41:31
2	Cd 228.802†	182.0	33.8	0.0011	mg/L	0.0011	mg/L	16:41:43
2	Co 228.616†	830.9	1121.9	0.0195	mg/L	0.0195	mg/L	16:41:43
2	Cr 267.716†	6307.3	6114.5	0.0567	mg/L	0.0567	mg/L	16:41:33
2	Cu 324.752†	36559.7	33921.8	0.1885	mg/L	0.1885	mg/L	16:41:33
2	Mg 279.077†	127836.2	135403.0	10.94	mg/L	10.94	mg/L	16:41:33
2	Mn 257.610†	613669.6	633937.5	0.8051	mg/L	0.8051	mg/L	16:41:31
2	Mn 294.920†	301700.5	320899.0	0.8384	mg/L	0.8384	mg/L	16:41:33
2	Mo 202.031†	223.8	201.2	0.0019	mg/L	0.0019	mg/L	16:41:43
2	Ni 231.604†	1933.1	1889.5	0.0438	mg/L	0.0438	mg/L	16:41:43
2	P 214.914†	2040.4	2188.3	1.416	mg/L	1.416	mg/L	16:41:43
2	Pb 220.353†	5278.4	5408.9	0.3751	mg/L	0.3751	mg/L	16:41:43
2	Sb 206.836†	57.1	12.7	-0.0057	mg/L	-0.0057	mg/L	16:41:43
2	Se 196.026†	0.3	-10.6	-0.0130	mg/L	-0.0130	mg/L	16:41:43
2	Sn 189.927†	-226.0	-268.7	-0.0220	mg/L	-0.0220	mg/L	16:41:43
2	Ti 337.279†	1121825.4	1188877.7	1.393	mg/L	1.393	mg/L	16:41:31
2	Tl 190.801†	-2.5	2.1	-0.0289	mg/L	-0.0289	mg/L	16:41:43
2	V 292.402†	16207.2	17515.2	0.0815	mg/L	0.0815	mg/L	16:41:33
2	Zn 213.857†	50770.9	52632.1	0.3870	mg/L	0.3870	mg/L	16:41:33

Mean Data: CG30305-SD1 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2564393.3	0.949	mg/L	0.0075				0.79%
Ag 328.068†	-326.4	0.0013	mg/L	0.00001	0.0013	mg/L	0.00001	1.04%

Al 237.313†	270950.8	30.00 mg/L	1.130	30.00 mg/L	1.130	3.77%
As 188.979†	36.0	0.0304 mg/L	0.00349	0.0304 mg/L	0.00349	11.47%
B 249.677†	3.6	0.0033 mg/L	0.00351	0.0033 mg/L	0.00351	107.08%
B 182.528†	12.6	0.0134 mg/L	0.00163	0.0134 mg/L	0.00163	12.18%
Ba 233.527†	16091.3	0.1433 mg/L	0.00302	0.1433 mg/L	0.00302	2.11%
Be 313.107†	3973.2	0.0018 mg/L	0.00001	0.0018 mg/L	0.00001	0.68%
Ca 315.887†	2923302.0	31.90 mg/L	1.176	31.90 mg/L	1.176	3.69%
Cd 228.802†	38.6	0.0013 mg/L	0.00021	0.0013 mg/L	0.00021	16.28%
Co 228.616†	1157.8	0.0201 mg/L	0.00090	0.0201 mg/L	0.00090	4.49%
Cr 267.716†	6198.4	0.0574 mg/L	0.00103	0.0574 mg/L	0.00103	1.80%
Cu 324.752†	34470.6	0.1915 mg/L	0.00424	0.1915 mg/L	0.00424	2.21%
Fe 234.349†	81080.7	54.03 mg/L	0.108	54.03 mg/L	0.108	0.20%
K 766.490†	7416.6	4.216 mg/L	0.0037	4.216 mg/L	0.0037	0.09%
Li 670.784†	1677.9	0.0506 mg/L	0.00214	0.0506 mg/L	0.00214	4.24%
Mg 279.077†	137564.0	11.11 mg/L	0.246	11.11 mg/L	0.246	2.22%
Mn 257.610†	650388.2	0.8262 mg/L	0.02991	0.8262 mg/L	0.02991	3.62%
Mn 294.920†	326276.2	0.8524 mg/L	0.01983	0.8524 mg/L	0.01983	2.33%
Mo 202.031†	198.5	0.0018 mg/L	0.00020	0.0018 mg/L	0.00020	11.09%
Na 589.592†	17453.1	3.289 mg/L	0.0081	3.289 mg/L	0.0081	0.25%
Ni 231.604†	1945.9	0.0450 mg/L	0.00178	0.0450 mg/L	0.00178	3.95%
P 214.914†	2247.7	1.453 mg/L	0.0526	1.453 mg/L	0.0526	3.62%
Pb 220.353†	5527.3	0.3832 mg/L	0.01157	0.3832 mg/L	0.01157	3.02%
Sb 206.836†	14.9	-0.0047 mg/L	0.00142	-0.0047 mg/L	0.00142	30.43%
Se 196.026†	-13.3	-0.0149 mg/L	0.00267	-0.0149 mg/L	0.00267	17.94%
Sn 189.927†	-265.8	-0.0210 mg/L	0.00133	-0.0210 mg/L	0.00133	6.30%
Sr 407.771†	127883.8	0.1495 mg/L	0.00033	0.1495 mg/L	0.00033	0.22%
Ti 337.279†	1220542.3	1.430 mg/L	0.0523	1.430 mg/L	0.0523	3.66%
Tl 190.801†	5.9	-0.0253 mg/L	0.00518	-0.0253 mg/L	0.00518	20.52%
V 292.402†	17905.8	0.0832 mg/L	0.00240	0.0832 mg/L	0.00240	2.89%
Zn 213.857†	53436.0	0.3929 mg/L	0.00834	0.3929 mg/L	0.00834	2.12%

Sequence No.: 52
Sample ID: CG30305-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 7/5/2013 4:43:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30305-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	807.2	853.8	0.4771 mg/L	0.4771 mg/L	0.4771 mg/L	16:45:08
1	Fe 234.349†	294373.9	308992.3	205.8 mg/L	205.8 mg/L	205.8 mg/L	16:45:06
1	K 766.490†	71250.6	73972.7	40.49 mg/L	40.49 mg/L	40.49 mg/L	16:45:08
1	Li 670.784†	23899.5	25322.5	0.7005 mg/L	0.7005 mg/L	0.7005 mg/L	16:45:08
1	Na 589.592†	193144.3	202260.5	36.91 mg/L	36.91 mg/L	36.91 mg/L	16:45:06
1	Sr 407.771†	514906.9	540418.0	0.6305 mg/L	0.6305 mg/L	0.6305 mg/L	16:45:06
1	Y 371.029	2573193.7	2573193.7	0.953 mg/L	0.953 mg/L	0.953 mg/L	16:45:22
1	Ag 328.068†	39570.6	39671.4	0.2269 mg/L	0.2269 mg/L	0.2269 mg/L	16:45:22
1	Al 237.313†	1119880.6	1175949.1	130.2 mg/L	130.2 mg/L	130.2 mg/L	16:45:22
1	As 188.979†	719.2	761.6	0.5575 mg/L	0.5575 mg/L	0.5575 mg/L	16:45:32
1	B 182.528†	413.9	444.0	0.4765 mg/L	0.4765 mg/L	0.4765 mg/L	16:45:32
1	Ba 233.527†	113003.4	118714.6	1.037 mg/L	1.037 mg/L	1.037 mg/L	16:45:22
1	Be 313.107†	112722.0	119760.2	0.0516 mg/L	0.0516 mg/L	0.0516 mg/L	16:45:22
1	Ca 315.887†	11704583.3	12287968.0	134.0 mg/L	134.0 mg/L	134.0 mg/L	16:45:18
1	Cd 228.802†	7051.2	7242.4	0.2237 mg/L	0.2237 mg/L	0.2237 mg/L	16:45:32
1	Co 228.616†	25301.2	26800.1	0.5227 mg/L	0.5227 mg/L	0.5227 mg/L	16:45:32
1	Cr 267.716†	74449.8	77582.4	0.6800 mg/L	0.6800 mg/L	0.6800 mg/L	16:45:22
1	Cu 324.752†	228112.2	234642.4	1.274 mg/L	1.274 mg/L	1.274 mg/L	16:45:22
1	Mg 279.077†	590924.4	620279.4	50.02 mg/L	50.02 mg/L	50.02 mg/L	16:45:22
1	Mn 257.610†	2886976.6	3014335.4	3.833 mg/L	3.833 mg/L	3.833 mg/L	16:45:22
1	Mn 294.920†	1443986.3	1517059.0	3.958 mg/L	3.958 mg/L	3.958 mg/L	16:45:22
1	Mo 202.031†	10666.1	11160.1	0.4387 mg/L	0.4387 mg/L	0.4387 mg/L	16:45:32
1	Ni 231.604†	26524.9	27684.7	0.6195 mg/L	0.6195 mg/L	0.6195 mg/L	16:45:22
1	P 214.914†	15679.7	16485.8	10.36 mg/L	10.36 mg/L	10.36 mg/L	16:45:32
1	Pb 220.353†	27863.9	29066.1	2.023 mg/L	2.023 mg/L	2.023 mg/L	16:45:32
1	Sb 206.836†	1045.1	1049.2	0.4347 mg/L	0.4347 mg/L	0.4347 mg/L	16:45:32
1	Se 196.026†	1187.1	1235.2	0.8104 mg/L	0.8104 mg/L	0.8104 mg/L	16:45:32
1	Sn 189.927†	2713.2	2818.7	0.4986 mg/L	0.4986 mg/L	0.4986 mg/L	16:45:32
1	Ti 337.279†	5230037.0	5490496.4	6.413 mg/L	6.413 mg/L	6.413 mg/L	16:45:22
1	Tl 190.801†	441.5	468.2	0.3316 mg/L	0.3316 mg/L	0.3316 mg/L	16:45:32
1	V 292.402†	166926.8	175568.4	0.7982 mg/L	0.7982 mg/L	0.7982 mg/L	16:45:22

1	Zn 213.857†	267346.5	279483.5	2.044 mg/L	2.044 mg/L	16:45:22
2	B 249.677†	811.0	871.1	0.4867 mg/L	0.4867 mg/L	16:45:12
2	Fe 234.349†	292883.6	312236.6	208.0 mg/L	208.0 mg/L	16:45:10
2	K 766.490†	71146.7	75031.6	41.07 mg/L	41.07 mg/L	16:45:12
2	Li 670.784†	23910.8	25727.0	0.7116 mg/L	0.7116 mg/L	16:45:12
2	Na 589.592†	192133.1	204353.5	37.29 mg/L	37.29 mg/L	16:45:10
2	Sr 407.771†	511887.7	545653.2	0.6366 mg/L	0.6366 mg/L	16:45:10
2	Y 371.029	2533565.2	2533565.2	0.938 mg/L		16:45:39
2	Ag 328.068†	38931.4	39639.6	0.2268 mg/L	0.2268 mg/L	16:45:39
2	Al 237.313†	1102325.4	1175620.2	130.1 mg/L	130.1 mg/L	16:45:39
2	As 188.979†	715.4	769.3	0.5631 mg/L	0.5631 mg/L	16:45:50
2	B 182.528†	420.0	457.3	0.4907 mg/L	0.4907 mg/L	16:45:50
2	Ba 233.527†	111186.0	118632.5	1.037 mg/L	1.037 mg/L	16:45:39
2	Be 313.107†	111004.8	119780.3	0.0516 mg/L	0.0516 mg/L	16:45:39
2	Ca 315.887†	11693601.9	12468432.3	135.9 mg/L	135.9 mg/L	16:45:36
2	Cd 228.802†	7104.1	7414.6	0.2290 mg/L	0.2290 mg/L	16:45:50
2	Co 228.616†	25513.3	27441.5	0.5356 mg/L	0.5356 mg/L	16:45:50
2	Cr 267.716†	73297.1	77575.8	0.6800 mg/L	0.6800 mg/L	16:45:39
2	Cu 324.752†	224360.5	234388.0	1.273 mg/L	1.273 mg/L	16:45:39
2	Mg 279.077†	580371.6	618731.1	49.89 mg/L	49.89 mg/L	16:45:39
2	Mn 257.610†	2843364.2	3015240.0	3.834 mg/L	3.834 mg/L	16:45:39
2	Mn 294.920†	1421656.5	1516961.2	3.958 mg/L	3.958 mg/L	16:45:39
2	Mo 202.031†	10765.6	11441.3	0.4503 mg/L	0.4503 mg/L	16:45:50
2	Ni 231.604†	26014.6	27576.2	0.6171 mg/L	0.6171 mg/L	16:45:39
2	P 214.914†	15772.0	16841.6	10.58 mg/L	10.58 mg/L	16:45:50
2	Pb 220.353†	27971.4	29638.2	2.064 mg/L	2.064 mg/L	16:45:50
2	Sb 206.836†	1069.4	1092.3	0.4543 mg/L	0.4543 mg/L	16:45:50
2	Se 196.026†	1210.5	1279.6	0.8404 mg/L	0.8404 mg/L	16:45:50
2	Sn 189.927†	2730.8	2882.0	0.5092 mg/L	0.5092 mg/L	16:45:50
2	Ti 337.279†	5148353.7	5489283.1	6.412 mg/L	6.412 mg/L	16:45:39
2	Tl 190.801†	446.3	480.6	0.3424 mg/L	0.3424 mg/L	16:45:50
2	V 292.402†	164212.6	175415.4	0.7977 mg/L	0.7977 mg/L	16:45:39
2	Zn 213.857†	263214.5	279467.7	2.044 mg/L	2.044 mg/L	16:45:39

Mean Data: CG30305-PDS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2553379.4	0.945 mg/L	0.0104			1.10%
Ag 328.068†	39655.5	0.2269 mg/L	0.00009	0.2269 mg/L	0.00009	0.04%
Al 237.313†	1175784.7	130.1 mg/L	0.03	130.1 mg/L	0.03	0.02%
As 188.979†	765.4	0.5603 mg/L	0.00397	0.5603 mg/L	0.00397	0.71%
B 249.677†	862.4	0.4819 mg/L	0.00682	0.4819 mg/L	0.00682	1.41%
B 182.528†	450.6	0.4836 mg/L	0.01007	0.4836 mg/L	0.01007	2.08%
Ba 233.527†	118673.6	1.037 mg/L	0.0005	1.037 mg/L	0.0005	0.05%
Be 313.107†	119770.3	0.0516 mg/L	0.00001	0.0516 mg/L	0.00001	0.01%
Ca 315.887†	12378200.2	134.9 mg/L	1.39	134.9 mg/L	1.39	1.03%
Cd 228.802†	7328.5	0.2263 mg/L	0.00378	0.2263 mg/L	0.00378	1.67%
Co 228.616†	27120.8	0.5291 mg/L	0.00908	0.5291 mg/L	0.00908	1.72%
Cr 267.716†	77579.1	0.6800 mg/L	0.00003	0.6800 mg/L	0.00003	0.01%
Cu 324.752†	234515.2	1.273 mg/L	0.0010	1.273 mg/L	0.0010	0.08%
Fe 234.349†	310614.4	206.9 mg/L	1.53	206.9 mg/L	1.53	0.74%
K 766.490†	74502.2	40.78 mg/L	0.408	40.78 mg/L	0.408	1.00%
Li 670.784†	25524.7	0.7060 mg/L	0.00786	0.7060 mg/L	0.00786	1.11%
Mg 279.077†	619505.3	49.95 mg/L	0.088	49.95 mg/L	0.088	0.18%
Mn 257.610†	3014787.7	3.834 mg/L	0.0005	3.834 mg/L	0.0005	0.01%
Mn 294.920†	1517010.1	3.958 mg/L	0.0002	3.958 mg/L	0.0002	0.00%
Mo 202.031†	11300.7	0.4445 mg/L	0.00822	0.4445 mg/L	0.00822	1.85%
Na 589.592†	203307.0	37.10 mg/L	0.269	37.10 mg/L	0.269	0.73%
Ni 231.604†	27630.4	0.6183 mg/L	0.00170	0.6183 mg/L	0.00170	0.27%
P 214.914†	16663.7	10.47 mg/L	0.157	10.47 mg/L	0.157	1.50%
Pb 220.353†	29352.2	2.043 mg/L	0.0286	2.043 mg/L	0.0286	1.40%
Sb 206.836†	1070.7	0.4445 mg/L	0.01390	0.4445 mg/L	0.01390	3.13%
Se 196.026†	1257.4	0.8254 mg/L	0.02122	0.8254 mg/L	0.02122	2.57%
Sn 189.927†	2850.3	0.5039 mg/L	0.00748	0.5039 mg/L	0.00748	1.49%
Sr 407.771†	543035.6	0.6335 mg/L	0.00432	0.6335 mg/L	0.00432	0.68%
Ti 337.279†	5489889.7	6.413 mg/L	0.0010	6.413 mg/L	0.0010	0.02%
Tl 190.801†	474.4	0.3370 mg/L	0.00760	0.3370 mg/L	0.00760	2.25%
V 292.402†	175491.9	0.7980 mg/L	0.00037	0.7980 mg/L	0.00037	0.05%
Zn 213.857†	279475.6	2.044 mg/L	0.0001	2.044 mg/L	0.0001	0.01%

Sample ID: 1307073-02
Analyst:
Initial Sample Wt:
Dilution:

Date Collected: 7/5/2013 4:48:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307073-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-12.1	-5.7	-0.0019	mg/L	-0.0019	mg/L	16:50:45
1	Fe 234.349†	501080.7	503840.7	335.9	mg/L	335.9	mg/L	16:50:42
1	K 766.490†	76664.4	76269.8	41.74	mg/L	41.74	mg/L	16:50:45
1	Li 670.784†	12115.4	12417.9	0.3458	mg/L	0.3458	mg/L	16:50:45
1	Na 589.592†	42668.0	42423.9	7.832	mg/L	7.832	mg/L	16:50:45
1	Sr 407.771†	386719.4	388784.1	0.4537	mg/L	0.4537	mg/L	16:50:42
1	Y 371.029	2686203.5	2686203.5	0.995	mg/L			16:50:58
1	Ag 328.068†	456.7	-1405.9	0.0025	mg/L	0.0025	mg/L	16:50:58
1	Al 237.313†	1884174.4	1895008.3	209.7	mg/L	209.7	mg/L	16:50:58
1	As 188.979†	216.7	224.5	0.1667	mg/L	0.1667	mg/L	16:51:08
1	B 182.528†	42.6	52.4	0.0561	mg/L	0.0561	mg/L	16:51:08
1	Ba 233.527†	135640.7	136486.6	1.192	mg/L	1.192	mg/L	16:50:58
1	Be 313.107†	27098.3	28686.0	0.0101	mg/L	0.0101	mg/L	16:50:58
1	Ca 315.887†	7935769.4	7981462.7	87.02	mg/L	87.02	mg/L	16:50:54
1	Cd 228.802†	355.3	198.3	0.0015	mg/L	0.0015	mg/L	16:51:08
1	Co 228.616†	8157.9	8444.7	0.1432	mg/L	0.1432	mg/L	16:51:08
1	Cr 267.716†	48039.7	47738.7	0.4195	mg/L	0.4195	mg/L	16:50:58
1	Cu 324.752†	238129.8	234641.7	1.281	mg/L	1.281	mg/L	16:50:58
1	Mg 279.077†	982220.9	987640.8	79.62	mg/L	79.62	mg/L	16:50:58
1	Mn 257.610†	3471824.9	3474922.2	4.396	mg/L	4.396	mg/L	16:50:58
1	Mn 294.920†	1758621.8	1769664.4	4.617	mg/L	4.617	mg/L	16:50:58
1	Mo 202.031†	584.1	551.4	-0.0316	mg/L	-0.0316	mg/L	16:50:58
1	Ni 231.604†	16223.4	16155.0	0.3618	mg/L	0.3618	mg/L	16:51:08
1	P 214.914†	15138.9	15249.5	9.586	mg/L	9.586	mg/L	16:51:08
1	Pb 220.353†	25388.8	25346.8	1.743	mg/L	1.743	mg/L	16:51:08
1	Sb 206.836†	154.3	107.3	-0.0450	mg/L	-0.0450	mg/L	16:51:08
1	Se 196.026†	-42.5	-53.7	-0.0989	mg/L	-0.0989	mg/L	16:51:08
1	Sn 189.927†	733.4	708.1	0.1572	mg/L	0.1572	mg/L	16:51:08
1	Ti 337.279†	10234279.1	10291408.0	12.02	mg/L	12.02	mg/L	16:50:54
1	Tl 190.801†	7.2	12.0	-0.1905	mg/L	-0.1905	mg/L	16:51:08
1	V 292.402†	148789.0	149958.8	0.6633	mg/L	0.6633	mg/L	16:50:58
1	Zn 213.857†	230541.8	230669.3	1.681	mg/L	1.681	mg/L	16:50:58
2	B 249.677†	-5.0	1.4	0.0021	mg/L	0.0021	mg/L	16:50:49
2	Fe 234.349†	512567.3	520259.2	346.8	mg/L	346.8	mg/L	16:50:47
2	K 766.490†	78004.4	78358.1	42.88	mg/L	42.88	mg/L	16:50:49
2	Li 670.784†	12323.3	12744.0	0.3547	mg/L	0.3547	mg/L	16:50:49
2	Na 589.592†	43251.3	43421.2	8.014	mg/L	8.014	mg/L	16:50:49
2	Sr 407.771†	395073.9	400937.3	0.4678	mg/L	0.4678	mg/L	16:50:47
2	Y 371.029	2661066.5	2661066.5	0.985	mg/L			16:51:15
2	Ag 328.068†	388.1	-1471.3	0.0024	mg/L	0.0024	mg/L	16:51:15
2	Al 237.313†	1871800.4	1900345.1	210.3	mg/L	210.3	mg/L	16:51:15
2	As 188.979†	218.9	228.9	0.1698	mg/L	0.1698	mg/L	16:51:25
2	B 182.528†	62.2	72.7	0.0779	mg/L	0.0779	mg/L	16:51:25
2	Ba 233.527†	134575.3	136693.6	1.194	mg/L	1.194	mg/L	16:51:15
2	Be 313.107†	27068.7	28913.3	0.0102	mg/L	0.0102	mg/L	16:51:15
2	Ca 315.887†	7830804.3	7950298.1	86.68	mg/L	86.68	mg/L	16:51:11
2	Cd 228.802†	345.9	192.0	0.0011	mg/L	0.0011	mg/L	16:51:25
2	Co 228.616†	8185.7	8550.4	0.1453	mg/L	0.1453	mg/L	16:51:25
2	Cr 267.716†	47712.6	47863.0	0.4206	mg/L	0.4206	mg/L	16:51:15
2	Cu 324.752†	236832.9	235587.2	1.286	mg/L	1.286	mg/L	16:51:15
2	Mg 279.077†	974985.9	989626.7	79.78	mg/L	79.78	mg/L	16:51:15
2	Mn 257.610†	3452369.4	3488151.2	4.411	mg/L	4.411	mg/L	16:51:15
2	Mn 294.920†	1748686.2	1776283.6	4.634	mg/L	4.634	mg/L	16:51:15
2	Mo 202.031†	485.7	457.0	-0.0372	mg/L	-0.0372	mg/L	16:51:15
2	Ni 231.604†	16209.3	16294.7	0.3649	mg/L	0.3649	mg/L	16:51:25
2	P 214.914†	15108.9	15362.9	9.657	mg/L	9.657	mg/L	16:51:25
2	Pb 220.353†	25369.6	25568.6	1.759	mg/L	1.759	mg/L	16:51:25
2	Sb 206.836†	144.4	98.7	-0.0522	mg/L	-0.0522	mg/L	16:51:25
2	Se 196.026†	-52.9	-64.6	-0.1086	mg/L	-0.1086	mg/L	16:51:25
2	Sn 189.927†	723.7	705.3	0.1566	mg/L	0.1566	mg/L	16:51:25
2	Ti 337.279†	10137334.5	10290216.4	12.02	mg/L	12.02	mg/L	16:51:11
2	Tl 190.801†	15.0	20.0	-0.1893	mg/L	-0.1893	mg/L	16:51:25
2	V 292.402†	147721.5	150288.6	0.6648	mg/L	0.6648	mg/L	16:51:15
2	Zn 213.857†	229338.6	231637.9	1.687	mg/L	1.687	mg/L	16:51:15

 Mean Data: 1307073-02

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2673635.0	0.990	mg/L	0.0066				0.66%
Ag 328.068†	-1438.6	0.0025	mg/L	0.00006	0.0025	mg/L	0.00006	2.51%
Al 237.313†	1897676.7	210.0	mg/L	0.42	210.0	mg/L	0.42	0.20%
As 188.979†	226.7	0.1683	mg/L	0.00224	0.1683	mg/L	0.00224	1.33%
B 249.677†	-2.1	0.0001	mg/L	0.00279	0.0001	mg/L	0.00279	>999.9%
B 182.528†	62.5	0.0670	mg/L	0.01540	0.0670	mg/L	0.01540	22.97%
Ba 233.527†	136590.1	1.193	mg/L	0.0013	1.193	mg/L	0.0013	0.11%
Be 313.107†	28799.6	0.0102	mg/L	0.00007	0.0102	mg/L	0.00007	0.70%
Ca 315.887†	7965880.4	86.85	mg/L	0.240	86.85	mg/L	0.240	0.28%
Cd 228.802†	195.1	0.0013	mg/L	0.00027	0.0013	mg/L	0.00027	20.74%
Co 228.616†	8497.6	0.1443	mg/L	0.00150	0.1443	mg/L	0.00150	1.04%
Cr 267.716†	47800.9	0.4201	mg/L	0.00076	0.4201	mg/L	0.00076	0.18%
Cu 324.752†	235114.5	1.283	mg/L	0.0036	1.283	mg/L	0.0036	0.28%
Fe 234.349†	512050.0	341.3	mg/L	7.74	341.3	mg/L	7.74	2.27%
K 766.490†	77314.0	42.31	mg/L	0.805	42.31	mg/L	0.805	1.90%
Li 670.784†	12581.0	0.3503	mg/L	0.00634	0.3503	mg/L	0.00634	1.81%
Mg 279.077†	988633.7	79.70	mg/L	0.113	79.70	mg/L	0.113	0.14%
Mn 257.610†	3481536.7	4.404	mg/L	0.0103	4.404	mg/L	0.0103	0.23%
Mn 294.920†	1772974.0	4.625	mg/L	0.0122	4.625	mg/L	0.0122	0.26%
Mo 202.031†	504.2	-0.0344	mg/L	0.00402	-0.0344	mg/L	0.00402	11.68%
Na 589.592†	42922.6	7.923	mg/L	0.1283	7.923	mg/L	0.1283	1.62%
Ni 231.604†	16224.8	0.3633	mg/L	0.00220	0.3633	mg/L	0.00220	0.60%
P 214.914†	15306.2	9.621	mg/L	0.0502	9.621	mg/L	0.0502	0.52%
Pb 220.353†	25457.7	1.751	mg/L	0.0110	1.751	mg/L	0.0110	0.63%
Sb 206.836†	103.0	-0.0486	mg/L	0.00508	-0.0486	mg/L	0.00508	10.45%
Se 196.026†	-59.1	-0.1038	mg/L	0.00684	-0.1038	mg/L	0.00684	6.59%
Sn 189.927†	706.7	0.1569	mg/L	0.00045	0.1569	mg/L	0.00045	0.29%
Sr 407.771†	394860.7	0.4608	mg/L	0.01002	0.4608	mg/L	0.01002	2.17%
Ti 337.279†	10290812.2	12.02	mg/L	0.001	12.02	mg/L	0.001	0.01%
Tl 190.801†	16.0	-0.1899	mg/L	0.00083	-0.1899	mg/L	0.00083	0.44%
V 292.402†	150123.7	0.6640	mg/L	0.00102	0.6640	mg/L	0.00102	0.15%
Zn 213.857†	231153.6	1.684	mg/L	0.0047	1.684	mg/L	0.0047	0.28%

Sequence No.: 54

Sample ID: 1307073-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 7/5/2013 4:54:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: 1307073-03

Repl#	Analyte	Net		Calib. Units	Sample Conc.	Sample Units	Analysis Time	
		Intensity	Corrected Intensity					
1	B 249.677†	5.6	12.2	0.0081	mg/L	0.0081	mg/L	16:56:20
1	Fe 234.349†	436181.0	443848.6	295.8	mg/L	295.8	mg/L	16:56:17
1	K 766.490†	77971.4	78525.4	42.97	mg/L	42.97	mg/L	16:56:20
1	Li 670.784†	12860.8	13322.7	0.3706	mg/L	0.3706	mg/L	16:56:20
1	Na 589.592†	39376.8	39589.9	7.316	mg/L	7.316	mg/L	16:56:20
1	Sr 407.771†	390815.0	397620.5	0.4640	mg/L	0.4640	mg/L	16:56:17
1	Y 371.029	2654334.1	2654334.1	0.983	mg/L			16:56:33
1	Ag 328.068†	552.4	-1303.0	0.0021	mg/L	0.0021	mg/L	16:56:33
1	Al 237.313†	1886051.0	1919665.3	212.5	mg/L	212.5	mg/L	16:56:33
1	As 188.979†	218.5	228.9	0.1701	mg/L	0.1701	mg/L	16:56:43
1	B 182.528†	50.7	61.2	0.0655	mg/L	0.0655	mg/L	16:56:43
1	Ba 233.527†	160894.1	163821.9	1.430	mg/L	1.430	mg/L	16:56:33
1	Be 313.107†	26509.9	28414.3	0.0101	mg/L	0.0101	mg/L	16:56:33
1	Ca 315.887†	8727970.8	8883409.7	96.85	mg/L	96.85	mg/L	16:56:29
1	Cd 228.802†	365.2	212.6	0.0026	mg/L	0.0026	mg/L	16:56:43
1	Co 228.616†	7267.0	7636.6	0.1280	mg/L	0.1280	mg/L	16:56:43
1	Cr 267.716†	47552.7	47823.1	0.4203	mg/L	0.4203	mg/L	16:56:33
1	Cu 324.752†	221675.4	220772.8	1.206	mg/L	1.206	mg/L	16:56:33
1	Mg 279.077†	904830.1	920746.5	74.23	mg/L	74.23	mg/L	16:56:33
1	Mn 257.610†	3173643.5	3213409.2	4.069	mg/L	4.069	mg/L	16:56:33
1	Mn 294.920†	1601346.5	1630853.5	4.255	mg/L	4.255	mg/L	16:56:33
1	Mo 202.031†	514.5	487.6	-0.0279	mg/L	-0.0279	mg/L	16:56:43
1	Ni 231.604†	15185.1	15294.3	0.3426	mg/L	0.3426	mg/L	16:56:43
1	P 214.914†	12012.7	12251.2	7.709	mg/L	7.709	mg/L	16:56:43

1	Pb 220.353†	37220.0	37692.7	2.613 mg/L	2.613 mg/L	16:56:33
1	Sb 206.836†	149.8	104.6	-0.0349 mg/L	-0.0349 mg/L	16:56:43
1	Se 196.026†	-49.1	-60.8	-0.0959 mg/L	-0.0959 mg/L	16:56:43
1	Sn 189.927†	479.9	459.1	0.1264 mg/L	0.1264 mg/L	16:56:43
1	Ti 337.279†	9738386.4	9910347.2	11.57 mg/L	11.57 mg/L	16:56:29
1	Tl 190.801†	14.1	19.2	-0.1588 mg/L	-0.1588 mg/L	16:56:43
1	V 292.402†	124028.9	126559.4	0.5570 mg/L	0.5570 mg/L	16:56:33
1	Zn 213.857†	410523.1	416600.6	3.051 mg/L	3.051 mg/L	16:56:33
2	B 249.677†	-22.9	-16.4	-0.0078 mg/L	-0.0078 mg/L	16:56:24
2	Fe 234.349†	437571.3	438031.3	292.0 mg/L	292.0 mg/L	16:56:22
2	K 766.490†	78467.3	77733.2	42.54 mg/L	42.54 mg/L	16:56:24
2	Li 670.784†	12942.0	13191.5	0.3670 mg/L	0.3670 mg/L	16:56:24
2	Na 589.592†	39747.8	39310.5	7.266 mg/L	7.266 mg/L	16:56:24
2	Sr 407.771†	392405.2	392753.2	0.4583 mg/L	0.4583 mg/L	16:56:22
2	Y 371.029	2698157.5	2698157.5	0.999 mg/L		16:56:50
2	Ag 328.068†	617.1	-1247.4	0.0023 mg/L	0.0023 mg/L	16:56:50
2	Al 237.313†	1917752.8	1920228.8	212.5 mg/L	212.5 mg/L	16:56:50
2	As 188.979†	208.8	215.7	0.1604 mg/L	0.1604 mg/L	16:57:00
2	B 182.528†	42.9	52.5	0.0562 mg/L	0.0562 mg/L	16:57:00
2	Ba 233.527†	163945.0	164216.9	1.434 mg/L	1.434 mg/L	16:56:50
2	Be 313.107†	26927.3	28394.0	0.0102 mg/L	0.0102 mg/L	16:56:50
2	Ca 315.887†	8800915.0	8812178.2	96.08 mg/L	96.08 mg/L	16:56:46
2	Cd 228.802†	371.7	213.1	0.0027 mg/L	0.0027 mg/L	16:57:00
2	Co 228.616†	7273.8	7523.4	0.1260 mg/L	0.1260 mg/L	16:57:00
2	Cr 267.716†	48450.8	47936.3	0.4213 mg/L	0.4213 mg/L	16:56:50
2	Cu 324.752†	225122.6	220559.9	1.204 mg/L	1.204 mg/L	16:56:50
2	Mg 279.077†	920302.6	921280.8	74.27 mg/L	74.27 mg/L	16:56:50
2	Mn 257.610†	3225987.8	3213356.3	4.070 mg/L	4.070 mg/L	16:56:50
2	Mn 294.920†	1628265.0	1631334.1	4.256 mg/L	4.256 mg/L	16:56:50
2	Mo 202.031†	570.0	534.7	-0.0253 mg/L	-0.0253 mg/L	16:57:00
2	Ni 231.604†	15230.6	15088.8	0.3380 mg/L	0.3380 mg/L	16:57:00
2	P 214.914†	12059.5	12099.5	7.614 mg/L	7.614 mg/L	16:57:00
2	Pb 220.353†	37876.1	37734.3	2.616 mg/L	2.616 mg/L	16:56:50
2	Sb 206.836†	145.3	97.6	-0.0370 mg/L	-0.0370 mg/L	16:57:00
2	Se 196.026†	-51.2	-62.1	-0.0960 mg/L	-0.0960 mg/L	16:57:00
2	Sn 189.927†	463.9	435.0	0.1224 mg/L	0.1224 mg/L	16:57:00
2	Ti 337.279†	9797096.1	9808166.1	11.45 mg/L	11.45 mg/L	16:56:46
2	Tl 190.801†	4.9	9.7	-0.1656 mg/L	-0.1656 mg/L	16:57:00
2	V 292.402†	126243.7	126726.6	0.5580 mg/L	0.5580 mg/L	16:56:50
2	Zn 213.857†	417232.8	416532.4	3.051 mg/L	3.051 mg/L	16:56:50

Mean Data: 1307073-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2676245.8	0.991	mg/L	0.0115				1.16%
Ag 328.068†	-1275.2	0.0022	mg/L	0.00015	0.0022	mg/L	0.00015	6.87%
Al 237.313†	1919947.1	212.5	mg/L	0.04	212.5	mg/L	0.04	0.02%
As 188.979†	222.3	0.1653	mg/L	0.00683	0.1653	mg/L	0.00683	4.13%
B 249.677†	-2.1	0.0001	mg/L	0.01127	0.0001	mg/L	0.01127	>999.9%
B 182.528†	56.8	0.0609	mg/L	0.00660	0.0609	mg/L	0.00660	10.84%
Ba 233.527†	164019.4	1.432	mg/L	0.0024	1.432	mg/L	0.0024	0.17%
Be 313.107†	28404.2	0.0101	mg/L	0.00001	0.0101	mg/L	0.00001	0.14%
Ca 315.887†	8847793.9	96.46	mg/L	0.549	96.46	mg/L	0.549	0.57%
Cd 228.802†	212.8	0.0027	mg/L	0.00006	0.0027	mg/L	0.00006	2.16%
Co 228.616†	7580.0	0.1270	mg/L	0.00142	0.1270	mg/L	0.00142	1.12%
Cr 267.716†	47879.7	0.4208	mg/L	0.00070	0.4208	mg/L	0.00070	0.17%
Cu 324.752†	220666.3	1.205	mg/L	0.0009	1.205	mg/L	0.0009	0.08%
Fe 234.349†	440939.9	293.9	mg/L	2.74	293.9	mg/L	2.74	0.93%
K 766.490†	78129.3	42.75	mg/L	0.305	42.75	mg/L	0.305	0.71%
Li 670.784†	13257.1	0.3688	mg/L	0.00255	0.3688	mg/L	0.00255	0.69%
Mg 279.077†	921013.7	74.25	mg/L	0.030	74.25	mg/L	0.030	0.04%
Mn 257.610†	3213382.8	4.069	mg/L	0.0006	4.069	mg/L	0.0006	0.01%
Mn 294.920†	1631093.8	4.255	mg/L	0.0009	4.255	mg/L	0.0009	0.02%
Mo 202.031†	511.2	-0.0266	mg/L	0.00183	-0.0266	mg/L	0.00183	6.89%
Na 589.592†	39450.2	7.291	mg/L	0.0359	7.291	mg/L	0.0359	0.49%
Ni 231.604†	15191.6	0.3403	mg/L	0.00324	0.3403	mg/L	0.00324	0.95%
P 214.914†	12175.3	7.661	mg/L	0.0672	7.661	mg/L	0.0672	0.88%
Pb 220.353†	37713.5	2.614	mg/L	0.0021	2.614	mg/L	0.0021	0.08%
Sb 206.836†	101.1	-0.0359	mg/L	0.00152	-0.0359	mg/L	0.00152	4.24%
Se 196.026†	-61.5	-0.0959	mg/L	0.00007	-0.0959	mg/L	0.00007	0.07%
Sn 189.927†	447.0	0.1244	mg/L	0.00285	0.1244	mg/L	0.00285	2.29%
Sr 407.771†	395186.9	0.4611	mg/L	0.00401	0.4611	mg/L	0.00401	0.87%

1	Pb 220.353†	6582.3	6468.5	0.4174 mg/L	0.4174 mg/L	17:02:10
1	Sb 206.836†	137.4	91.0	-0.0377 mg/L	-0.0377 mg/L	17:02:10
1	Se 196.026†	-62.5	-74.0	-0.1028 mg/L	-0.1028 mg/L	17:02:10
1	Sn 189.927†	-366.8	-399.9	-0.0211 mg/L	-0.0211 mg/L	17:02:10
1	Ti 337.279†	8255708.6	8342004.8	9.742 mg/L	9.742 mg/L	17:01:57
1	Tl 190.801†	-1.4	3.3	-0.1681 mg/L	-0.1681 mg/L	17:02:10
1	V 292.402†	109221.1	110702.9	0.4895 mg/L	0.4895 mg/L	17:02:00
1	Zn 213.857†	120668.9	120775.8	0.8759 mg/L	0.8759 mg/L	17:02:00
2	B 249.677†	-24.1	-18.0	-0.0087 mg/L	-0.0087 mg/L	17:01:52
2	Fe 234.349†	416420.4	423656.3	282.4 mg/L	282.4 mg/L	17:01:49
2	K 766.490†	60709.9	60947.9	33.39 mg/L	33.39 mg/L	17:01:52
2	Li 670.784†	11742.2	12182.1	0.3393 mg/L	0.3393 mg/L	17:01:52
2	Na 589.592†	104420.9	105757.3	19.36 mg/L	19.36 mg/L	17:01:49
2	Sr 407.771†	299688.0	304829.8	0.3558 mg/L	0.3558 mg/L	17:01:49
2	Y 371.029	2654860.3	2654860.3	0.983 mg/L		17:02:17
2	Ag 328.068†	432.1	-1425.5	0.0010 mg/L	0.0010 mg/L	17:02:17
2	Al 237.313†	1663917.4	1693287.9	187.4 mg/L	187.4 mg/L	17:02:17
2	As 188.979†	139.6	148.6	0.1117 mg/L	0.1117 mg/L	17:02:27
2	B 182.528†	40.0	50.2	0.0538 mg/L	0.0538 mg/L	17:02:27
2	Ba 233.527†	86919.2	88528.0	0.7744 mg/L	0.7744 mg/L	17:02:17
2	Be 313.107†	21828.1	23645.7	0.0085 mg/L	0.0085 mg/L	17:02:17
2	Ca 315.887†	5732130.7	5833703.5	63.62 mg/L	63.62 mg/L	17:02:14
2	Cd 228.802†	269.1	114.7	-0.0002 mg/L	-0.0002 mg/L	17:02:27
2	Co 228.616†	7225.0	7592.4	0.1311 mg/L	0.1311 mg/L	17:02:27
2	Cr 267.716†	40706.1	40847.8	0.3595 mg/L	0.3595 mg/L	17:02:17
2	Cu 324.752†	101075.5	98030.6	0.5433 mg/L	0.5433 mg/L	17:02:17
2	Mg 279.077†	830285.2	844722.6	68.10 mg/L	68.10 mg/L	17:02:17
2	Mn 257.610†	3716375.4	3764940.6	4.782 mg/L	4.782 mg/L	17:02:17
2	Mn 294.920†	1867552.8	1901366.9	4.960 mg/L	4.960 mg/L	17:02:17
2	Mo 202.031†	438.6	410.3	-0.0254 mg/L	-0.0254 mg/L	17:02:27
2	Ni 231.604†	12249.6	12304.6	0.2759 mg/L	0.2759 mg/L	17:02:27
2	P 214.914†	11284.8	11508.2	7.250 mg/L	7.250 mg/L	17:02:27
2	Pb 220.353†	6522.0	6453.3	0.4164 mg/L	0.4164 mg/L	17:02:27
2	Sb 206.836†	124.7	79.1	-0.0425 mg/L	-0.0425 mg/L	17:02:27
2	Se 196.026†	-66.6	-78.7	-0.1054 mg/L	-0.1054 mg/L	17:02:27
2	Sn 189.927†	-371.7	-407.5	-0.0224 mg/L	-0.0224 mg/L	17:02:27
2	Ti 337.279†	8191305.6	8334394.2	9.733 mg/L	9.733 mg/L	17:02:14
2	Tl 190.801†	1.4	6.2	-0.1636 mg/L	-0.1636 mg/L	17:02:27
2	V 292.402†	108144.3	110373.5	0.4881 mg/L	0.4881 mg/L	17:02:17
2	Zn 213.857†	119696.7	120633.1	0.8750 mg/L	0.8750 mg/L	17:02:17

Mean Data: 1307073-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2664076.4	0.986	mg/L	0.0048				0.49%
Ag 328.068†	-1441.9	0.0010	mg/L	0.00008	0.0010	mg/L	0.00008	7.77%
Al 237.313†	1696039.2	187.7	mg/L	0.43	187.7	mg/L	0.43	0.23%
As 188.979†	149.0	0.1120	mg/L	0.00039	0.1120	mg/L	0.00039	0.35%
B 249.677†	-14.2	-0.0066	mg/L	0.00299	-0.0066	mg/L	0.00299	45.29%
B 182.528†	51.9	0.0556	mg/L	0.00250	0.0556	mg/L	0.00250	4.50%
Ba 233.527†	88702.8	0.7759	mg/L	0.00215	0.7759	mg/L	0.00215	0.28%
Be 313.107†	23645.8	0.0085	mg/L	0.00000	0.0085	mg/L	0.00000	0.02%
Ca 315.887†	5842559.0	63.71	mg/L	0.136	63.71	mg/L	0.136	0.21%
Cd 228.802†	113.0	-0.0003	mg/L	0.00011	-0.0003	mg/L	0.00011	37.04%
Co 228.616†	7577.3	0.1307	mg/L	0.00044	0.1307	mg/L	0.00044	0.34%
Cr 267.716†	40930.4	0.3602	mg/L	0.00102	0.3602	mg/L	0.00102	0.28%
Cu 324.752†	98115.1	0.5438	mg/L	0.00065	0.5438	mg/L	0.00065	0.12%
Fe 234.349†	425824.8	283.9	mg/L	2.04	283.9	mg/L	2.04	0.72%
K 766.490†	60970.8	33.40	mg/L	0.018	33.40	mg/L	0.018	0.05%
Li 670.784†	12161.1	0.3387	mg/L	0.00081	0.3387	mg/L	0.00081	0.24%
Mg 279.077†	846828.4	68.27	mg/L	0.240	68.27	mg/L	0.240	0.35%
Mn 257.610†	3770048.3	4.788	mg/L	0.0088	4.788	mg/L	0.0088	0.18%
Mn 294.920†	1903982.1	4.967	mg/L	0.0096	4.967	mg/L	0.0096	0.19%
Mo 202.031†	415.9	-0.0254	mg/L	0.00003	-0.0254	mg/L	0.00003	0.11%
Na 589.592†	106237.1	19.44	mg/L	0.123	19.44	mg/L	0.123	0.63%
Ni 231.604†	12282.7	0.2754	mg/L	0.00069	0.2754	mg/L	0.00069	0.25%
P 214.914†	11496.2	7.242	mg/L	0.0106	7.242	mg/L	0.0106	0.15%
Pb 220.353†	6460.9	0.4169	mg/L	0.00067	0.4169	mg/L	0.00067	0.16%
Sb 206.836†	85.0	-0.0401	mg/L	0.00337	-0.0401	mg/L	0.00337	8.40%
Se 196.026†	-76.3	-0.1041	mg/L	0.00184	-0.1041	mg/L	0.00184	1.77%
Sn 189.927†	-403.7	-0.0218	mg/L	0.00088	-0.0218	mg/L	0.00088	4.05%
Sr 407.771†	306233.0	0.3574	mg/L	0.00231	0.3574	mg/L	0.00231	0.65%

Ti 337.279†	8338199.5	9.737 mg/L	0.0063	9.737 mg/L	0.0063	0.06%
Tl 190.801†	4.8	-0.1659 mg/L	0.00319	-0.1659 mg/L	0.00319	1.92%
V 292.402†	110538.2	0.4888 mg/L	0.00106	0.4888 mg/L	0.00106	0.22%
Zn 213.857†	120704.5	0.8755 mg/L	0.00065	0.8755 mg/L	0.00065	0.07%

Sequence No.: 56
Sample ID: 1307073-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 7/5/2013 5:05:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307073-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-13.1	-6.7	-0.0024	mg/L	-0.0024	mg/L	17:07:24
1	Fe 234.349†	432788.9	436862.5	291.2	mg/L	291.2	mg/L	17:07:21
1	K 766.490†	68192.6	68017.7	37.24	mg/L	37.24	mg/L	17:07:24
1	Li 670.784†	11263.8	11605.6	0.3234	mg/L	0.3234	mg/L	17:07:24
1	Na 589.592†	103510.4	104006.6	19.04	mg/L	19.04	mg/L	17:07:21
1	Sr 407.771†	256336.5	258682.7	0.3020	mg/L	0.3020	mg/L	17:07:21
1	Y 371.029	2675808.3	2675808.3	0.991	mg/L			17:07:37
1	Ag 328.068†	378.2	-1483.4	0.0010	mg/L	0.0010	mg/L	17:07:37
1	Al 237.313†	1645796.6	1661743.5	183.9	mg/L	183.9	mg/L	17:07:37
1	As 188.979†	149.7	157.8	0.1183	mg/L	0.1183	mg/L	17:07:47
1	B 182.528†	46.0	56.0	0.0600	mg/L	0.0600	mg/L	17:07:47
1	Ba 233.527†	94120.5	95104.9	0.8317	mg/L	0.8317	mg/L	17:07:37
1	Be 313.107†	23555.5	25215.6	0.0089	mg/L	0.0089	mg/L	17:07:37
1	Ca 315.887†	5701045.1	5756669.6	62.78	mg/L	62.78	mg/L	17:07:33
1	Cd 228.802†	274.1	117.6	-0.0003	mg/L	-0.0003	mg/L	17:07:47
1	Co 228.616†	6994.2	7302.0	0.1230	mg/L	0.1230	mg/L	17:07:47
1	Cr 267.716†	41726.0	41553.1	0.3656	mg/L	0.3656	mg/L	17:07:37
1	Cu 324.752†	64480.1	60285.2	0.3416	mg/L	0.3416	mg/L	17:07:37
1	Mg 279.077†	810194.9	817829.9	65.94	mg/L	65.94	mg/L	17:07:37
1	Mn 257.610†	3861566.0	3881899.9	4.930	mg/L	4.930	mg/L	17:07:37
1	Mn 294.920†	1940601.4	1960229.5	5.114	mg/L	5.114	mg/L	17:07:37
1	Mo 202.031†	510.3	479.1	-0.0227	mg/L	-0.0227	mg/L	17:07:47
1	Ni 231.604†	11879.6	11833.6	0.2654	mg/L	0.2654	mg/L	17:07:47
1	P 214.914†	12224.7	12367.0	7.790	mg/L	7.790	mg/L	17:07:47
1	Pb 220.353†	6189.7	6065.9	0.3899	mg/L	0.3899	mg/L	17:07:47
1	Sb 206.836†	131.6	85.0	-0.0422	mg/L	-0.0422	mg/L	17:07:47
1	Se 196.026†	-55.7	-67.1	-0.0992	mg/L	-0.0992	mg/L	17:07:47
1	Sn 189.927†	-397.0	-430.1	-0.0263	mg/L	-0.0263	mg/L	17:07:47
1	Ti 337.279†	9142450.7	9229264.7	10.78	mg/L	10.78	mg/L	17:07:33
1	Tl 190.801†	-5.8	-1.0	-0.1763	mg/L	-0.1763	mg/L	17:07:47
1	V 292.402†	123565.6	125078.8	0.5529	mg/L	0.5529	mg/L	17:07:37
1	Zn 213.857†	107068.0	106932.0	0.7741	mg/L	0.7741	mg/L	17:07:37
2	B 249.677†	-32.7	-25.9	-0.0131	mg/L	-0.0131	mg/L	17:07:28
2	Fe 234.349†	443948.5	439731.9	293.1	mg/L	293.1	mg/L	17:07:26
2	K 766.490†	68428.5	66961.7	36.67	mg/L	36.67	mg/L	17:07:28
2	Li 670.784†	11281.3	11410.0	0.3181	mg/L	0.3181	mg/L	17:07:28
2	Na 589.592†	105857.3	104373.7	19.10	mg/L	19.10	mg/L	17:07:26
2	Sr 407.771†	262492.4	259932.7	0.3034	mg/L	0.3034	mg/L	17:07:26
2	Y 371.029	2726894.0	2726894.0	1.01	mg/L			17:07:53
2	Ag 328.068†	383.7	-1485.1	0.0010	mg/L	0.0010	mg/L	17:07:53
2	Al 237.313†	1675824.5	1660363.5	183.8	mg/L	183.8	mg/L	17:07:53
2	As 188.979†	158.7	163.9	0.1227	mg/L	0.1227	mg/L	17:08:04
2	B 182.528†	42.8	51.9	0.0556	mg/L	0.0556	mg/L	17:08:04
2	Ba 233.527†	96160.6	95345.7	0.8338	mg/L	0.8338	mg/L	17:07:53
2	Be 313.107†	24082.8	25292.4	0.0090	mg/L	0.0090	mg/L	17:07:53
2	Ca 315.887†	5704170.7	5651955.0	61.64	mg/L	61.64	mg/L	17:07:50
2	Cd 228.802†	289.8	128.0	0.0000	mg/L	0.0000	mg/L	17:08:04
2	Co 228.616†	6967.0	7142.8	0.1202	mg/L	0.1202	mg/L	17:08:04
2	Cr 267.716†	42585.3	41615.2	0.3662	mg/L	0.3662	mg/L	17:07:53
2	Cu 324.752†	65317.5	59895.3	0.3392	mg/L	0.3392	mg/L	17:07:53
2	Mg 279.077†	828405.7	820546.7	66.16	mg/L	66.16	mg/L	17:07:53
2	Mn 257.610†	3934690.6	3881306.4	4.929	mg/L	4.929	mg/L	17:07:53
2	Mn 294.920†	1978163.4	1960737.3	5.115	mg/L	5.115	mg/L	17:07:53
2	Mo 202.031†	501.0	460.3	-0.0237	mg/L	-0.0237	mg/L	17:08:04
2	Ni 231.604†	11889.9	11619.1	0.2607	mg/L	0.2607	mg/L	17:08:04
2	P 214.914†	12300.7	12211.1	7.692	mg/L	7.692	mg/L	17:08:04
2	Pb 220.353†	6157.3	5916.8	0.3794	mg/L	0.3794	mg/L	17:08:04

2	Sb 206.836†	126.4	77.4	-0.0464 mg/L	-0.0464 mg/L	17:08:04
2	Se 196.026†	-61.8	-72.2	-0.1031 mg/L	-0.1031 mg/L	17:08:04
2	Sn 189.927†	-429.3	-454.5	-0.0306 mg/L	-0.0306 mg/L	17:08:04
2	Ti 337.279†	9148870.2	9062733.6	10.58 mg/L	10.58 mg/L	17:07:50
2	Tl 190.801†	2.9	7.7	-0.1690 mg/L	-0.1690 mg/L	17:08:04
2	V 292.402†	125922.1	125076.3	0.5533 mg/L	0.5533 mg/L	17:07:53
2	Zn 213.857†	109023.8	106844.5	0.7734 mg/L	0.7734 mg/L	17:07:53

Mean Data: 1307073-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2701351.1	1.00	mg/L	0.013			1.34%
Ag 328.068†	-1484.3	0.0010	mg/L	0.00003	0.0010	0.00003	2.79%
Al 237.313†	1661053.5	183.8	mg/L	0.11	183.8	0.11	0.06%
As 188.979†	160.8	0.1205	mg/L	0.00313	0.1205	0.00313	2.60%
B 249.677†	-16.3	-0.0078	mg/L	0.00755	-0.0078	0.00755	97.11%
B 182.528†	54.0	0.0578	mg/L	0.00310	0.0578	0.00310	5.36%
Ba 233.527†	95225.3	0.8328	mg/L	0.00148	0.8328	0.00148	0.18%
Be 313.107†	25254.0	0.0090	mg/L	0.00006	0.0090	0.00006	0.64%
Ca 315.887†	5704312.3	62.21	mg/L	0.807	62.21	0.807	1.30%
Cd 228.802†	122.8	-0.0001	mg/L	0.00021	-0.0001	0.00021	160.98%
Co 228.616†	7222.4	0.1216	mg/L	0.00196	0.1216	0.00196	1.61%
Cr 267.716†	41584.2	0.3659	mg/L	0.00038	0.3659	0.00038	0.10%
Cu 324.752†	60090.2	0.3404	mg/L	0.00165	0.3404	0.00165	0.48%
Fe 234.349†	438297.2	292.2	mg/L	1.35	292.2	1.35	0.46%
K 766.490†	67489.7	36.96	mg/L	0.407	36.96	0.407	1.10%
Li 670.784†	11507.8	0.3208	mg/L	0.00380	0.3208	0.00380	1.19%
Mg 279.077†	819188.3	66.05	mg/L	0.155	66.05	0.155	0.23%
Mn 257.610†	3881603.2	4.930	mg/L	0.0008	4.930	0.0008	0.02%
Mn 294.920†	1960483.4	5.114	mg/L	0.0009	5.114	0.0009	0.02%
Mo 202.031†	469.7	-0.0232	mg/L	0.00076	-0.0232	0.00076	3.27%
Na 589.592†	104190.2	19.07	mg/L	0.047	19.07	0.047	0.25%
Ni 231.604†	11726.3	0.2630	mg/L	0.00338	0.2630	0.00338	1.29%
P 214.914†	12289.1	7.741	mg/L	0.0690	7.741	0.0690	0.89%
Pb 220.353†	5991.4	0.3847	mg/L	0.00741	0.3847	0.00741	1.93%
Sb 206.836†	81.2	-0.0443	mg/L	0.00292	-0.0443	0.00292	6.59%
Se 196.026†	-69.6	-0.1011	mg/L	0.00273	-0.1011	0.00273	2.70%
Sn 189.927†	-442.3	-0.0284	mg/L	0.00305	-0.0284	0.00305	10.74%
Sr 407.771†	259307.7	0.3027	mg/L	0.00103	0.3027	0.00103	0.34%
Ti 337.279†	9145999.1	10.68	mg/L	0.137	10.68	0.137	1.29%
Tl 190.801†	3.3	-0.1727	mg/L	0.00517	-0.1727	0.00517	2.99%
V 292.402†	125077.5	0.5531	mg/L	0.00026	0.5531	0.00026	0.05%
Zn 213.857†	106888.3	0.7738	mg/L	0.00049	0.7738	0.00049	0.06%

Sequence No.: 57

Autosampler Location: 55

Sample ID: 1307073-06

Date Collected: 7/5/2013 5:11:14 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1307073-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-32.2	-25.9	-0.0131 mg/L	-0.0131 mg/L	17:12:54
1	Fe 234.349†	416473.2	419946.4	279.9 mg/L	279.9 mg/L	17:12:51
1	K 766.490†	65477.6	65206.9	35.71 mg/L	35.71 mg/L	17:12:54
1	Li 670.784†	11294.0	11624.0	0.3240 mg/L	0.3240 mg/L	17:12:54
1	Na 589.592†	108251.4	108676.2	19.89 mg/L	19.89 mg/L	17:12:51
1	Sr 407.771†	279469.7	281734.3	0.3289 mg/L	0.3289 mg/L	17:12:51
1	Y 371.029	2678653.0	2678653.0	0.992 mg/L		17:13:07
1	Ag 328.068†	374.2	-1487.9	0.0006 mg/L	0.0006 mg/L	17:13:07
1	Al 237.313†	1686462.2	1700984.5	188.3 mg/L	188.3 mg/L	17:13:07
1	As 188.979†	170.0	178.1	0.1332 mg/L	0.1332 mg/L	17:13:17
1	B 182.528†	40.8	50.7	0.0543 mg/L	0.0543 mg/L	17:13:17
1	Ba 233.527†	90389.2	91241.5	0.7981 mg/L	0.7981 mg/L	17:13:07
1	Be 313.107†	24268.6	25909.4	0.0092 mg/L	0.0092 mg/L	17:13:07
1	Ca 315.887†	6691251.8	6749038.7	73.59 mg/L	73.59 mg/L	17:13:03
1	Cd 228.802†	262.9	106.0	-0.0004 mg/L	-0.0004 mg/L	17:13:17
1	Co 228.616†	6636.4	6933.6	0.1158 mg/L	0.1158 mg/L	17:13:17
1	Cr 267.716†	39516.3	39280.2	0.3458 mg/L	0.3458 mg/L	17:13:07

1	Cu	324.752†	70794.1	66582.7	0.3753	mg/L	0.3753	mg/L	17:13:07
1	Mg	279.077†	791986.6	798600.9	64.39	mg/L	64.39	mg/L	17:13:07
1	Mn	257.610†	3347504.6	3359403.4	4.260	mg/L	4.260	mg/L	17:13:07
1	Mn	294.920†	1687826.8	1703262.3	4.443	mg/L	4.443	mg/L	17:13:07
1	Mo	202.031†	489.4	457.6	-0.0221	mg/L	-0.0221	mg/L	17:13:17
1	Ni	231.604†	11667.8	11607.2	0.2604	mg/L	0.2604	mg/L	17:13:17
1	P	214.914†	11307.5	11429.1	7.202	mg/L	7.202	mg/L	17:13:17
1	Pb	220.353†	7606.8	7488.3	0.4893	mg/L	0.4893	mg/L	17:13:17
1	Sb	206.836†	150.5	103.9	-0.0300	mg/L	-0.0300	mg/L	17:13:17
1	Se	196.026†	-49.8	-61.1	-0.0929	mg/L	-0.0929	mg/L	17:13:17
1	Sn	189.927†	-87.1	-117.2	0.0267	mg/L	0.0267	mg/L	17:13:17
1	Ti	337.279†	9092840.8	9169439.3	10.71	mg/L	10.71	mg/L	17:13:03
1	Tl	190.801†	7.5	12.4	-0.1559	mg/L	-0.1559	mg/L	17:13:17
1	V	292.402†	110524.2	111796.0	0.4926	mg/L	0.4926	mg/L	17:13:07
1	Zn	213.857†	106044.5	105785.2	0.7662	mg/L	0.7662	mg/L	17:13:07
2	B	249.677†	-24.8	-18.4	-0.0089	mg/L	-0.0089	mg/L	17:12:58
2	Fe	234.349†	412518.0	414100.4	276.0	mg/L	276.0	mg/L	17:12:56
2	K	766.490†	66206.3	65643.5	35.95	mg/L	35.95	mg/L	17:12:58
2	Li	670.784†	11412.9	11692.5	0.3258	mg/L	0.3258	mg/L	17:12:58
2	Na	589.592†	107428.4	107362.5	19.65	mg/L	19.65	mg/L	17:12:56
2	Sr	407.771†	277187.6	278184.9	0.3247	mg/L	0.3247	mg/L	17:12:56
2	Y	371.029	2690670.1	2690670.1	0.996	mg/L			17:13:23
2	Ag	328.068†	311.5	-1552.4	0.0002	mg/L	0.0002	mg/L	17:13:23
2	Al	237.313†	1694303.9	1701261.4	188.3	mg/L	188.3	mg/L	17:13:23
2	As	188.979†	157.5	164.8	0.1235	mg/L	0.1235	mg/L	17:13:34
2	B	182.528†	37.8	47.5	0.0509	mg/L	0.0509	mg/L	17:13:34
2	Ba	233.527†	90531.4	90977.2	0.7958	mg/L	0.7958	mg/L	17:13:23
2	Be	313.107†	24509.6	26042.0	0.0093	mg/L	0.0093	mg/L	17:13:23
2	Ca	315.887†	6700562.6	6728251.1	73.37	mg/L	73.37	mg/L	17:13:20
2	Cd	228.802†	258.4	100.3	-0.0006	mg/L	-0.0006	mg/L	17:13:34
2	Co	228.616†	6668.1	6935.6	0.1159	mg/L	0.1159	mg/L	17:13:34
2	Cr	267.716†	39624.9	39211.4	0.3452	mg/L	0.3452	mg/L	17:13:23
2	Cu	324.752†	71021.9	66492.6	0.3748	mg/L	0.3748	mg/L	17:13:23
2	Mg	279.077†	795120.5	798180.1	64.35	mg/L	64.35	mg/L	17:13:23
2	Mn	257.610†	3363984.9	3360871.6	4.263	mg/L	4.263	mg/L	17:13:23
2	Mn	294.920†	1694644.1	1702504.8	4.441	mg/L	4.441	mg/L	17:13:23
2	Mo	202.031†	495.9	461.8	-0.0213	mg/L	-0.0213	mg/L	17:13:34
2	Ni	231.604†	11710.4	11597.4	0.2602	mg/L	0.2602	mg/L	17:13:34
2	P	214.914†	11356.4	11427.2	7.201	mg/L	7.201	mg/L	17:13:34
2	Pb	220.353†	7659.8	7507.1	0.4906	mg/L	0.4906	mg/L	17:13:34
2	Sb	206.836†	132.7	85.4	-0.0376	mg/L	-0.0376	mg/L	17:13:34
2	Se	196.026†	-59.1	-70.2	-0.0983	mg/L	-0.0983	mg/L	17:13:34
2	Sn	189.927†	-74.4	-104.0	0.0286	mg/L	0.0286	mg/L	17:13:34
2	Ti	337.279†	9117479.7	9153223.2	10.69	mg/L	10.69	mg/L	17:13:20
2	Tl	190.801†	13.1	17.9	-0.1482	mg/L	-0.1482	mg/L	17:13:34
2	V	292.402†	111013.4	111789.3	0.4926	mg/L	0.4926	mg/L	17:13:23
2	Zn	213.857†	106359.4	105623.7	0.7652	mg/L	0.7652	mg/L	17:13:23

Mean Data: 1307073-06

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2684661.6	0.994 mg/L	0.0031			0.32%
Ag 328.068†	-1520.2	0.0004 mg/L	0.00032	0.0004 mg/L	0.00032	78.72%
Al 237.313†	1701123.0	188.3 mg/L	0.02	188.3 mg/L	0.02	0.01%
As 188.979†	171.4	0.1283 mg/L	0.00686	0.1283 mg/L	0.00686	5.35%
B 249.677†	-22.2	-0.0110 mg/L	0.00298	-0.0110 mg/L	0.00298	27.04%
B 182.528†	49.1	0.0526 mg/L	0.00238	0.0526 mg/L	0.00238	4.53%
Ba 233.527†	91109.4	0.7969 mg/L	0.00163	0.7969 mg/L	0.00163	0.20%
Be 313.107†	25975.7	0.0093 mg/L	0.00004	0.0093 mg/L	0.00004	0.48%
Ca 315.887†	6738644.9	73.48 mg/L	0.160	73.48 mg/L	0.160	0.22%
Cd 228.802†	103.2	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	15.90%
Co 228.616†	6934.6	0.1158 mg/L	0.00006	0.1158 mg/L	0.00006	0.05%
Cr 267.716†	39245.8	0.3455 mg/L	0.00042	0.3455 mg/L	0.00042	0.12%
Cu 324.752†	66537.7	0.3751 mg/L	0.00036	0.3751 mg/L	0.00036	0.10%
Fe 234.349†	417023.4	278.0 mg/L	2.76	278.0 mg/L	2.76	0.99%
K 766.490†	65425.2	35.83 mg/L	0.168	35.83 mg/L	0.168	0.47%
Li 670.784†	11658.2	0.3249 mg/L	0.00133	0.3249 mg/L	0.00133	0.41%
Mg 279.077†	798390.5	64.37 mg/L	0.024	64.37 mg/L	0.024	0.04%
Mn 257.610†	3360137.5	4.262 mg/L	0.0020	4.262 mg/L	0.0020	0.05%
Mn 294.920†	1702883.6	4.442 mg/L	0.0014	4.442 mg/L	0.0014	0.03%
Mo 202.031†	459.7	-0.0217 mg/L	0.00054	-0.0217 mg/L	0.00054	2.50%
Na 589.592†	108019.3	19.77 mg/L	0.169	19.77 mg/L	0.169	0.86%

Ni 231.604†	11602.3	0.2603 mg/L	0.00015	0.2603 mg/L	0.00015	0.06%
P 214.914†	11428.2	7.202 mg/L	0.0008	7.202 mg/L	0.0008	0.01%
Pb 220.353†	7497.7	0.4899 mg/L	0.00094	0.4899 mg/L	0.00094	0.19%
Sb 206.836†	94.6	-0.0338 mg/L	0.00534	-0.0338 mg/L	0.00534	15.79%
Se 196.026†	-65.7	-0.0956 mg/L	0.00384	-0.0956 mg/L	0.00384	4.02%
Sn 189.927†	-110.6	0.0277 mg/L	0.00128	0.0277 mg/L	0.00128	4.65%
Sr 407.771†	279959.6	0.3268 mg/L	0.00293	0.3268 mg/L	0.00293	0.90%
Ti 337.279†	9161331.2	10.70 mg/L	0.013	10.70 mg/L	0.013	0.13%
Tl 190.801†	15.2	-0.1521 mg/L	0.00544	-0.1521 mg/L	0.00544	3.57%
V 292.402†	111792.7	0.4926 mg/L	0.00001	0.4926 mg/L	0.00001	0.00%
Zn 213.857†	105704.4	0.7657 mg/L	0.00071	0.7657 mg/L	0.00071	0.09%

Sequence No.: 58
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 5:16:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	818.7	881.1	0.4923 mg/L	0.4923 mg/L	17:18:32
1	Fe 234.349†	3491.5	3723.1	2.478 mg/L	2.478 mg/L	17:18:32
1	K 766.490†	44399.0	46613.2	25.58 mg/L	25.58 mg/L	17:18:22
1	Li 670.784†	17031.4	18430.0	0.5110 mg/L	0.5110 mg/L	17:18:22
1	Na 589.592†	131363.5	139854.6	25.56 mg/L	25.56 mg/L	17:18:22
1	Sr 407.771†	40335.0	43018.9	0.0505 mg/L	0.0505 mg/L	17:18:22
1	Y 371.029	2528372.9	2528372.9	0.936 mg/L		17:18:49
1	Ag 328.068†	44460.2	45631.2	0.2548 mg/L	0.2548 mg/L	17:18:51
1	Al 237.313†	20391.4	22214.4	2.474 mg/L	2.474 mg/L	17:18:51
1	As 188.979†	628.1	677.7	0.4969 mg/L	0.4969 mg/L	17:19:01
1	B 182.528†	419.9	458.2	0.4917 mg/L	0.4917 mg/L	17:19:01
1	Ba 233.527†	53101.5	56824.8	0.4982 mg/L	0.4982 mg/L	17:18:51
1	Be 313.107†	103097.6	111576.1	0.0494 mg/L	0.0494 mg/L	17:18:49
1	Ca 315.887†	414205.3	444366.9	4.880 mg/L	4.880 mg/L	17:18:49
1	Cd 228.802†	7584.7	7943.6	0.2490 mg/L	0.2490 mg/L	17:19:01
1	Co 228.616†	22863.4	24666.6	0.4927 mg/L	0.4927 mg/L	17:18:51
1	Cr 267.716†	53891.1	57005.1	0.5007 mg/L	0.5007 mg/L	17:18:51
1	Cu 324.752†	90846.6	92247.6	0.5009 mg/L	0.5009 mg/L	17:18:51
1	Mg 279.077†	57793.3	61736.6	5.001 mg/L	5.001 mg/L	17:18:51
1	Mn 257.610†	379775.5	389637.9	0.5024 mg/L	0.5024 mg/L	17:18:51
1	Mn 294.920†	177895.9	191376.7	0.5006 mg/L	0.5006 mg/L	17:18:51
1	Mo 202.031†	10859.2	11564.9	0.4907 mg/L	0.4907 mg/L	17:19:01
1	Ni 231.604†	20886.5	22154.8	0.4962 mg/L	0.4962 mg/L	17:18:51
1	P 214.914†	7175.4	7692.5	4.856 mg/L	4.856 mg/L	17:19:01
1	Pb 220.353†	6743.1	7021.5	0.4959 mg/L	0.4959 mg/L	17:19:01
1	Sb 206.836†	1019.1	1040.9	0.4907 mg/L	0.4907 mg/L	17:19:01
1	Se 196.026†	1348.0	1429.2	0.9841 mg/L	0.9841 mg/L	17:19:01
1	Sn 189.927†	3180.6	3368.5	0.5002 mg/L	0.5002 mg/L	17:19:01
1	Ti 337.279†	398457.2	426287.7	0.5025 mg/L	0.5025 mg/L	17:18:51
1	Tl 190.801†	469.0	505.9	0.4893 mg/L	0.4893 mg/L	17:19:01
1	V 292.402†	102321.4	109657.2	0.5108 mg/L	0.5108 mg/L	17:18:51
1	Zn 213.857†	64443.1	67698.5	0.4966 mg/L	0.4966 mg/L	17:18:51
2	B 249.677†	817.4	886.5	0.4953 mg/L	0.4953 mg/L	17:18:45
2	Fe 234.349†	3473.8	3732.9	2.485 mg/L	2.485 mg/L	17:18:45
2	K 766.490†	44118.0	46678.0	25.61 mg/L	25.61 mg/L	17:18:35
2	Li 670.784†	16879.3	18407.3	0.5104 mg/L	0.5104 mg/L	17:18:35
2	Na 589.592†	130481.1	139991.5	25.58 mg/L	25.58 mg/L	17:18:35
2	Sr 407.771†	39776.1	42751.0	0.0502 mg/L	0.0502 mg/L	17:18:35
2	Y 371.029	2508940.9	2508940.9	0.929 mg/L		17:19:04
2	Ag 328.068†	44256.3	45779.6	0.2556 mg/L	0.2556 mg/L	17:19:06
2	Al 237.313†	20231.1	22210.5	2.473 mg/L	2.473 mg/L	17:19:06
2	As 188.979†	615.9	669.7	0.4911 mg/L	0.4911 mg/L	17:19:16
2	B 182.528†	419.5	461.2	0.4949 mg/L	0.4949 mg/L	17:19:16
2	Ba 233.527†	52620.9	56746.8	0.4975 mg/L	0.4975 mg/L	17:19:06
2	Be 313.107†	102225.5	111490.3	0.0493 mg/L	0.0493 mg/L	17:19:04
2	Ca 315.887†	410835.1	444165.8	4.878 mg/L	4.878 mg/L	17:19:04
2	Cd 228.802†	7559.4	7979.1	0.2501 mg/L	0.2501 mg/L	17:19:16
2	Co 228.616†	22640.7	24615.9	0.4917 mg/L	0.4917 mg/L	17:19:06
2	Cr 267.716†	53454.6	56981.0	0.5005 mg/L	0.5005 mg/L	17:19:06
2	Cu 324.752†	90183.5	92285.4	0.5011 mg/L	0.5011 mg/L	17:19:06

2	Mg	279.077†	56924.7	61279.7	4.964 mg/L	4.964 mg/L	17:19:06
2	Mn	257.610†	376088.4	388810.8	0.5014 mg/L	0.5014 mg/L	17:19:06
2	Mn	294.920†	176407.0	191245.7	0.5003 mg/L	0.5003 mg/L	17:19:06
2	Mo	202.031†	10856.6	11651.9	0.4944 mg/L	0.4944 mg/L	17:19:16
2	Ni	231.604†	20823.9	22260.2	0.4986 mg/L	0.4986 mg/L	17:19:06
2	P	214.914†	7142.6	7716.5	4.871 mg/L	4.871 mg/L	17:19:16
2	Pb	220.353†	6705.4	7036.7	0.4970 mg/L	0.4970 mg/L	17:19:16
2	Sb	206.836†	1018.7	1048.9	0.4945 mg/L	0.4945 mg/L	17:19:16
2	Se	196.026†	1352.5	1445.2	0.9951 mg/L	0.9951 mg/L	17:19:16
2	Sn	189.927†	3142.3	3353.6	0.4980 mg/L	0.4980 mg/L	17:19:16
2	Ti	337.279†	394278.2	425085.5	0.5011 mg/L	0.5011 mg/L	17:19:06
2	Tl	190.801†	459.7	499.7	0.4833 mg/L	0.4833 mg/L	17:19:16
2	V	292.402†	101211.4	109308.9	0.5093 mg/L	0.5093 mg/L	17:19:06
2	Zn	213.857†	63782.9	67521.0	0.4953 mg/L	0.4953 mg/L	17:19:06

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2518656.9	0.932 mg/L		0.0051			0.55%
Ag 328.068†	45705.4	0.2552 mg/L		0.00058	0.2552 mg/L	0.00058	0.23%
Al 237.313†	22212.4	2.473 mg/L		0.0003	2.473 mg/L	0.0003	0.01%
As 188.979†	673.7	0.4940 mg/L		0.00411	0.4940 mg/L	0.00411	0.83%
B 249.677†	883.8	0.4938 mg/L		0.00211	0.4938 mg/L	0.00211	0.43%
B 182.528†	459.7	0.4933 mg/L		0.00228	0.4933 mg/L	0.00228	0.46%
Ba 233.527†	56785.8	0.4979 mg/L		0.00048	0.4979 mg/L	0.00048	0.10%
Be 313.107†	111533.2	0.0494 mg/L		0.00003	0.0494 mg/L	0.00003	0.05%
Ca 315.887†	444266.4	4.879 mg/L		0.0016	4.879 mg/L	0.0016	0.03%
Cd 228.802†	7961.4	0.2496 mg/L		0.00078	0.2496 mg/L	0.00078	0.31%
Co 228.616†	24641.2	0.4922 mg/L		0.00071	0.4922 mg/L	0.00071	0.14%
Cr 267.716†	56993.1	0.5006 mg/L		0.00015	0.5006 mg/L	0.00015	0.03%
Cu 324.752†	92266.5	0.5010 mg/L		0.00014	0.5010 mg/L	0.00014	0.03%
Fe 234.349†	3728.0	2.481 mg/L		0.0046	2.481 mg/L	0.0046	0.19%
K 766.490†	46645.6	25.60 mg/L		0.025	25.60 mg/L	0.025	0.10%
Li 670.784†	18418.6	0.5107 mg/L		0.00044	0.5107 mg/L	0.00044	0.09%
Mg 279.077†	61508.1	4.983 mg/L		0.0260	4.983 mg/L	0.0260	0.52%
Mn 257.610†	389224.3	0.5019 mg/L		0.00075	0.5019 mg/L	0.00075	0.15%
Mn 294.920†	191311.2	0.5004 mg/L		0.00024	0.5004 mg/L	0.00024	0.05%
Mo 202.031†	11608.4	0.4926 mg/L		0.00261	0.4926 mg/L	0.00261	0.53%
Na 589.592†	139923.0	25.57 mg/L		0.018	25.57 mg/L	0.018	0.07%
Ni 231.604†	22207.5	0.4974 mg/L		0.00167	0.4974 mg/L	0.00167	0.33%
P 214.914†	7704.5	4.864 mg/L		0.0106	4.864 mg/L	0.0106	0.22%
Pb 220.353†	7029.1	0.4965 mg/L		0.00077	0.4965 mg/L	0.00077	0.15%
Sb 206.836†	1044.9	0.4926 mg/L		0.00267	0.4926 mg/L	0.00267	0.54%
Se 196.026†	1437.2	0.9896 mg/L		0.00777	0.9896 mg/L	0.00777	0.79%
Sn 189.927†	3361.1	0.4991 mg/L		0.00156	0.4991 mg/L	0.00156	0.31%
Sr 407.771†	42884.9	0.0504 mg/L		0.00022	0.0504 mg/L	0.00022	0.44%

QC value within limits for Sr 407.771 Recovery = 100.74%
 Ti 337.279† 425686.6 0.5018 mg/L 0.00099 0.5018 mg/L 0.00099 0.20%
 QC value within limits for Ti 337.279 Recovery = 100.35%
 Tl 190.801† 502.8 0.4863 mg/L 0.00426 0.4863 mg/L 0.00426 0.88%
 QC value within limits for Tl 190.801 Recovery = 97.25%
 V 292.402† 109483.0 0.5101 mg/L 0.00108 0.5101 mg/L 0.00108 0.21%
 QC value within limits for V 292.402 Recovery = 102.02%
 Zn 213.857† 67609.8 0.4960 mg/L 0.00094 0.4960 mg/L 0.00094 0.19%
 QC value within limits for Zn 213.857 Recovery = 99.19%
 All analyte(s) passed QC.

Sequence No.: 59 Autosampler Location: 1
 Sample ID: CCB1 Date Collected: 7/5/2013 5:20:55 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-10.8	-5.0	-0.0015 mg/L	-0.0015 mg/L	17:22:46
1	Fe 234.349†	24.2	19.0	0.0232 mg/L	0.0232 mg/L	17:22:46
1	K 766.490†	974.9	219.8	0.2941 mg/L	0.2941 mg/L	17:22:36
1	Li 670.784†	-367.3	-155.4	0.0002 mg/L	0.0002 mg/L	17:22:36
1	Na 589.592†	73.4	-401.6	0.0402 mg/L	0.0402 mg/L	17:22:36
1	Sr 407.771†	103.0	39.1	0.0004 mg/L	0.0004 mg/L	17:22:36
1	Y 371.029	2537561.8	2537561.8	0.939 mg/L		17:23:02
1	Ag 328.068†	1691.7	-64.5	0.0014 mg/L	0.0014 mg/L	17:23:05
1	Al 237.313†	-489.2	-90.3	0.0034 mg/L	0.0034 mg/L	17:23:05
1	As 188.979†	0.3	7.0	0.0094 mg/L	0.0094 mg/L	17:23:15
1	B 182.528†	-10.4	-1.5	-0.0017 mg/L	-0.0017 mg/L	17:23:15
1	Ba 233.527†	-87.5	3.9	0.0032 mg/L	0.0032 mg/L	17:23:15
1	Be 313.107†	-1362.4	-12.2	0.0004 mg/L	0.0004 mg/L	17:23:05
1	Ca 315.887†	-1795.1	-35.2	0.0355 mg/L	0.0355 mg/L	17:23:05
1	Cd 228.802†	158.2	9.4	0.0013 mg/L	0.0013 mg/L	17:23:15
1	Co 228.616†	-224.5	2.8	0.0001 mg/L	0.0001 mg/L	17:23:15
1	Cr 267.716†	480.4	-54.9	0.0029 mg/L	0.0029 mg/L	17:23:05
1	Cu 324.752†	4140.0	-396.1	0.0023 mg/L	0.0023 mg/L	17:23:05
1	Mg 279.077†	5.6	2.5	0.0254 mg/L	0.0254 mg/L	17:23:05
1	Mn 257.610†	15315.9	230.1	0.0020 mg/L	0.0020 mg/L	17:23:05
1	Mn 294.920†	-1277.3	-27.3	0.0014 mg/L	0.0014 mg/L	17:23:05
1	Mo 202.031†	51.7	19.1	0.0033 mg/L	0.0033 mg/L	17:23:15
1	Ni 231.604†	155.9	7.9	0.0018 mg/L	0.0018 mg/L	17:23:05
1	P 214.914†	-17.3	8.7	0.0524 mg/L	0.0524 mg/L	17:23:15
1	Pb 220.353†	165.7	-5.8	-0.0005 mg/L	-0.0005 mg/L	17:23:15
1	Sb 206.836†	55.0	10.7	0.0092 mg/L	0.0092 mg/L	17:23:15
1	Se 196.026†	18.0	8.3	0.0107 mg/L	0.0107 mg/L	17:23:15
1	Sn 189.927†	20.6	-7.4	-0.0025 mg/L	-0.0025 mg/L	17:23:15
1	Ti 337.279†	-251.8	351.8	0.0053 mg/L	0.0053 mg/L	17:23:05
1	Tl 190.801†	-3.8	0.7	0.0019 mg/L	0.0019 mg/L	17:23:15
1	V 292.402†	-458.7	-139.9	0.0039 mg/L	0.0039 mg/L	17:23:05
1	Zn 213.857†	1251.4	186.5	0.0040 mg/L	0.0040 mg/L	17:23:15
2	B 249.677†	-10.0	-4.1	-0.0010 mg/L	-0.0010 mg/L	17:22:59
2	Fe 234.349†	21.9	16.3	0.0215 mg/L	0.0215 mg/L	17:22:59
2	K 766.490†	965.5	202.1	0.2844 mg/L	0.2844 mg/L	17:22:49
2	Li 670.784†	-296.3	-77.4	0.0023 mg/L	0.0023 mg/L	17:22:49
2	Na 589.592†	63.6	-412.5	0.0382 mg/L	0.0382 mg/L	17:22:49
2	Sr 407.771†	-10.8	-81.9	0.0003 mg/L	0.0003 mg/L	17:22:49
2	Y 371.029	2556994.8	2556994.8	0.947 mg/L		17:23:17
2	Ag 328.068†	1710.1	-58.7	0.0014 mg/L	0.0014 mg/L	17:23:19
2	Al 237.313†	-463.5	-59.2	0.0068 mg/L	0.0068 mg/L	17:23:19
2	As 188.979†	2.2	8.9	0.0109 mg/L	0.0109 mg/L	17:23:30
2	B 182.528†	-7.1	2.0	0.0021 mg/L	0.0021 mg/L	17:23:30
2	Ba 233.527†	-89.7	2.3	0.0032 mg/L	0.0032 mg/L	17:23:30
2	Be 313.107†	-1313.8	50.2	0.0004 mg/L	0.0004 mg/L	17:23:19
2	Ca 315.887†	-1733.4	44.5	0.0364 mg/L	0.0364 mg/L	17:23:19
2	Cd 228.802†	148.7	-2.0	0.0009 mg/L	0.0009 mg/L	17:23:30
2	Co 228.616†	-222.8	6.5	0.0001 mg/L	0.0001 mg/L	17:23:30
2	Cr 267.716†	527.0	-9.6	0.0033 mg/L	0.0033 mg/L	17:23:19
2	Cu 324.752†	4098.3	-473.7	0.0019 mg/L	0.0019 mg/L	17:23:19
2	Mg 279.077†	99.4	101.6	0.0334 mg/L	0.0334 mg/L	17:23:19

2	Mn 257.610†	15265.8	53.2	0.0018 mg/L	0.0018 mg/L	17:23:19
2	Mn 294.920†	-1213.3	50.7	0.0016 mg/L	0.0016 mg/L	17:23:19
2	Mo 202.031†	72.9	41.1	0.0043 mg/L	0.0043 mg/L	17:23:30
2	Ni 231.604†	123.2	-27.9	0.0010 mg/L	0.0010 mg/L	17:23:19
2	P 214.914†	-25.0	0.7	0.0474 mg/L	0.0474 mg/L	17:23:30
2	Pb 220.353†	166.2	-6.5	-0.0006 mg/L	-0.0006 mg/L	17:23:30
2	Sb 206.836†	38.8	-6.9	0.0010 mg/L	0.0010 mg/L	17:23:30
2	Se 196.026†	17.6	7.7	0.0103 mg/L	0.0103 mg/L	17:23:30
2	Sn 189.927†	26.6	-1.2	-0.0016 mg/L	-0.0016 mg/L	17:23:30
2	Ti 337.279†	-573.1	14.5	0.0049 mg/L	0.0049 mg/L	17:23:19
2	Tl 190.801†	-3.1	1.5	0.0026 mg/L	0.0026 mg/L	17:23:30
2	V 292.402†	-258.9	74.8	0.0049 mg/L	0.0049 mg/L	17:23:19
2	Zn 213.857†	1233.0	157.0	0.0038 mg/L	0.0038 mg/L	17:23:30

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2547278.3	0.943 mg/L		0.0051			0.54%
Ag 328.068†	-61.6	0.0014 mg/L		0.00002	0.0014 mg/L	0.00002	1.60%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 237.313†	-74.7	0.0051 mg/L		0.00244	0.0051 mg/L	0.00244	47.95%
QC value within limits for Al 237.313 Recovery = Not calculated							
As 188.979†	7.9	0.0101 mg/L		0.00101	0.0101 mg/L	0.00101	9.91%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	-4.5	-0.0012 mg/L		0.00037	-0.0012 mg/L	0.00037	29.59%
QC value within limits for B 249.677 Recovery = Not calculated							
B 182.528†	0.3	0.0002 mg/L		0.00269	0.0002 mg/L	0.00269	>999.9%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	3.1	0.0032 mg/L		0.00001	0.0032 mg/L	0.00001	0.31%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated							
Be 313.107†	19.0	0.0004 mg/L		0.00002	0.0004 mg/L	0.00002	5.01%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	4.7	0.0360 mg/L		0.00062	0.0360 mg/L	0.00062	1.71%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated							
Cd 228.802†	3.7	0.0011 mg/L		0.00025	0.0011 mg/L	0.00025	22.41%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	4.6	0.0001 mg/L		0.00005	0.0001 mg/L	0.00005	52.58%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-32.2	0.0031 mg/L		0.00028	0.0031 mg/L	0.00028	9.01%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-434.9	0.0021 mg/L		0.00030	0.0021 mg/L	0.00030	14.31%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 234.349†	17.7	0.0224 mg/L		0.00124	0.0224 mg/L	0.00124	5.54%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated							
K 766.490†	210.9	0.2893 mg/L		0.00683	0.2893 mg/L	0.00683	2.36%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated							
Li 670.784†	-116.4	0.0013 mg/L		0.00152	0.0013 mg/L	0.00152	121.26%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	52.0	0.0294 mg/L		0.00565	0.0294 mg/L	0.00565	19.21%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	141.6	0.0019 mg/L		0.00016	0.0019 mg/L	0.00016	8.59%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mn 294.920†	11.7	0.0015 mg/L		0.00014	0.0015 mg/L	0.00014	9.30%
QC value within limits for Mn 294.920 Recovery = Not calculated							
Mo 202.031†	30.1	0.0038 mg/L		0.00066	0.0038 mg/L	0.00066	17.50%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-407.1	0.0392 mg/L		0.00141	0.0392 mg/L	0.00141	3.59%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-10.0	0.0014 mg/L		0.00056	0.0014 mg/L	0.00056	40.10%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	4.7	0.0499 mg/L		0.00354	0.0499 mg/L	0.00354	7.10%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated							
Pb 220.353†	-6.1	-0.0006 mg/L		0.00004	-0.0006 mg/L	0.00004	6.16%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.9	0.0051 mg/L		0.00582	0.0051 mg/L	0.00582	113.55%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	8.0	0.0105 mg/L		0.00029	0.0105 mg/L	0.00029	2.80%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-4.3	-0.0020 mg/L		0.00065	-0.0020 mg/L	0.00065	31.86%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	-21.4	0.0003 mg/L		0.00010	0.0003 mg/L	0.00010	29.13%
QC value within limits for Sr 407.771 Recovery = Not calculated							

Ti 337.279†	183.1	0.0051 mg/L	0.00028	0.0051 mg/L	0.00028	5.45%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	1.1	0.0023 mg/L	0.00055	0.0023 mg/L	0.00055	24.19%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-32.6	0.0044 mg/L	0.00070	0.0044 mg/L	0.00070	15.82%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	171.8	0.0039 mg/L	0.00015	0.0039 mg/L	0.00015	3.79%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 60                               Autosampler Location: 56
Sample ID: 1307073-07                         Date Collected: 7/5/2013 5:25:07 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                            Initial Sample Vol:
Dilution:                                    Sample Prep Vol:
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Replicate Data: 1307073-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-9.6	-3.3	-0.0005 mg/L	-0.0005 mg/L	-0.0005 mg/L	17:26:49
1	Fe 234.349†	394530.7	404718.3	269.8 mg/L	269.8 mg/L	269.8 mg/L	17:26:46
1	K 766.490†	68462.6	69413.8	38.00 mg/L	38.00 mg/L	38.00 mg/L	17:26:49
1	Li 670.784†	11448.8	11980.3	0.3337 mg/L	0.3337 mg/L	0.3337 mg/L	17:26:49
1	Na 589.592†	107968.7	110278.8	20.18 mg/L	20.18 mg/L	20.18 mg/L	17:26:46
1	Sr 407.771†	207438.5	212728.0	0.2484 mg/L	0.2484 mg/L	0.2484 mg/L	17:26:46
1	Y 371.029	2633000.6	2633000.6	0.975 mg/L	0.975 mg/L	0.975 mg/L	17:26:59
1	Ag 328.068†	488.5	-1364.0	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	17:27:01
1	Al 237.313†	1596206.6	1637881.9	181.3 mg/L	181.3 mg/L	181.3 mg/L	17:26:59
1	As 188.979†	157.3	168.0	0.1258 mg/L	0.1258 mg/L	0.1258 mg/L	17:27:11
1	B 182.528†	43.9	54.6	0.0585 mg/L	0.0585 mg/L	0.0585 mg/L	17:27:11
1	Ba 233.527†	87121.5	89469.7	0.7826 mg/L	0.7826 mg/L	0.7826 mg/L	17:27:01
1	Be 313.107†	22915.6	24945.8	0.0088 mg/L	0.0088 mg/L	0.0088 mg/L	17:27:01
1	Ca 315.887†	3758186.1	3857170.6	42.08 mg/L	42.08 mg/L	42.08 mg/L	17:26:59
1	Cd 228.802†	262.7	110.4	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	17:27:11
1	Co 228.616†	6654.4	7068.2	0.1180 mg/L	0.1180 mg/L	0.1180 mg/L	17:27:11
1	Cr 267.716†	41611.4	42120.3	0.3706 mg/L	0.3706 mg/L	0.3706 mg/L	17:27:01
1	Cu 324.752†	50460.1	46961.1	0.2701 mg/L	0.2701 mg/L	0.2701 mg/L	17:27:01
1	Mg 279.077†	777225.2	797304.7	64.28 mg/L	64.28 mg/L	64.28 mg/L	17:26:59
1	Mn 257.610†	2881035.1	2939406.5	3.722 mg/L	3.722 mg/L	3.722 mg/L	17:26:59
1	Mn 294.920†	1449981.8	1488780.6	3.884 mg/L	3.884 mg/L	3.884 mg/L	17:26:59
1	Mo 202.031†	429.9	405.1	-0.0222 mg/L	-0.0222 mg/L	-0.0222 mg/L	17:27:11
1	Ni 231.604†	11195.3	11326.5	0.2541 mg/L	0.2541 mg/L	0.2541 mg/L	17:27:11
1	P 214.914†	11291.6	11610.4	7.317 mg/L	7.317 mg/L	7.317 mg/L	17:27:11
1	Pb 220.353†	5393.3	5350.5	0.3401 mg/L	0.3401 mg/L	0.3401 mg/L	17:27:11
1	Sb 206.836†	130.4	85.9	-0.0357 mg/L	-0.0357 mg/L	-0.0357 mg/L	17:27:11
1	Se 196.026†	-57.5	-69.9	-0.0968 mg/L	-0.0968 mg/L	-0.0968 mg/L	17:27:11
1	Sn 189.927†	-284.9	-321.5	-0.0230 mg/L	-0.0230 mg/L	-0.0230 mg/L	17:27:11
1	Ti 337.279†	9114545.2	9350678.6	10.92 mg/L	10.92 mg/L	10.92 mg/L	17:26:59
1	Tl 190.801†	-0.2	4.6	-0.1581 mg/L	-0.1581 mg/L	-0.1581 mg/L	17:27:11
1	V 292.402†	110440.9	113642.9	0.5007 mg/L	0.5007 mg/L	0.5007 mg/L	17:27:01
1	Zn 213.857†	91209.9	92421.2	0.6685 mg/L	0.6685 mg/L	0.6685 mg/L	17:27:01
2	B 249.677†	-10.1	-4.0	-0.0009 mg/L	-0.0009 mg/L	-0.0009 mg/L	17:26:53
2	Fe 234.349†	399270.9	413035.5	275.4 mg/L	275.4 mg/L	275.4 mg/L	17:26:51
2	K 766.490†	67246.6	68748.2	37.64 mg/L	37.64 mg/L	37.64 mg/L	17:26:53
2	Li 670.784†	11169.5	11790.4	0.3285 mg/L	0.3285 mg/L	0.3285 mg/L	17:26:53
2	Na 589.592†	109191.5	112478.0	20.58 mg/L	20.58 mg/L	20.58 mg/L	17:26:51
2	Sr 407.771†	209949.1	217119.9	0.2535 mg/L	0.2535 mg/L	0.2535 mg/L	17:26:51
2	Y 371.029	2610979.7	2610979.7	0.967 mg/L	0.967 mg/L	0.967 mg/L	17:27:15
2	Ag 328.068†	403.0	-1448.3	0.0007 mg/L	0.0007 mg/L	0.0007 mg/L	17:27:17
2	Al 237.313†	1584755.6	1639846.2	181.5 mg/L	181.5 mg/L	181.5 mg/L	17:27:15
2	As 188.979†	145.0	156.6	0.1175 mg/L	0.1175 mg/L	0.1175 mg/L	17:27:27
2	B 182.528†	42.6	53.6	0.0575 mg/L	0.0575 mg/L	0.0575 mg/L	17:27:27
2	Ba 233.527†	87682.4	90803.7	0.7942 mg/L	0.7942 mg/L	0.7942 mg/L	17:27:17
2	Be 313.107†	23118.6	25354.0	0.0089 mg/L	0.0089 mg/L	0.0089 mg/L	17:27:17
2	Ca 315.887†	3719703.6	3849876.3	42.00 mg/L	42.00 mg/L	42.00 mg/L	17:27:15
2	Cd 228.802†	265.2	115.3	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	17:27:27
2	Co 228.616†	6620.6	7090.7	0.1184 mg/L	0.1184 mg/L	0.1184 mg/L	17:27:27
2	Cr 267.716†	41783.2	42658.1	0.3752 mg/L	0.3752 mg/L	0.3752 mg/L	17:27:17
2	Cu 324.752†	50797.6	47746.8	0.2743 mg/L	0.2743 mg/L	0.2743 mg/L	17:27:17
2	Mg 279.077†	768982.3	795502.0	64.14 mg/L	64.14 mg/L	64.14 mg/L	17:27:15
2	Mn 257.610†	2859365.5	2941916.0	3.724 mg/L	3.724 mg/L	3.724 mg/L	17:27:15

2	Mn 294.920†	1438994.3	1489959.2	3.887 mg/L	3.887 mg/L	17:27:15
2	Mo 202.031†	378.2	355.3	-0.0252 mg/L	-0.0252 mg/L	17:27:27
2	Ni 231.604†	11134.2	11360.2	0.2549 mg/L	0.2549 mg/L	17:27:27
2	P 214.914†	11207.9	11621.6	7.324 mg/L	7.324 mg/L	17:27:27
2	Pb 220.353†	5400.4	5404.5	0.3438 mg/L	0.3438 mg/L	17:27:27
2	Sb 206.836†	117.8	74.1	-0.0429 mg/L	-0.0429 mg/L	17:27:27
2	Se 196.026†	-56.7	-69.6	-0.0977 mg/L	-0.0977 mg/L	17:27:27
2	Sn 189.927†	-280.7	-319.7	-0.0228 mg/L	-0.0228 mg/L	17:27:27
2	Ti 337.279†	9048389.3	9361099.0	10.93 mg/L	10.93 mg/L	17:27:15
2	Tl 190.801†	6.4	11.4	-0.1549 mg/L	-0.1549 mg/L	17:27:27
2	V 292.402†	110932.6	115107.1	0.5073 mg/L	0.5073 mg/L	17:27:17
2	Zn 213.857†	91881.9	93905.6	0.6792 mg/L	0.6792 mg/L	17:27:17

Mean Data: 1307073-07

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2621990.1	0.971 mg/L		0.0058			0.59%
Ag 328.068†	-1406.2	0.0009 mg/L		0.00023	0.0009 mg/L	0.00023	25.48%
Al 237.313†	1638864.1	181.4 mg/L		0.15	181.4 mg/L	0.15	0.08%
As 188.979†	162.3	0.1217 mg/L		0.00589	0.1217 mg/L	0.00589	4.84%
B 249.677†	-3.6	-0.0007 mg/L		0.00026	-0.0007 mg/L	0.00026	35.29%
B 182.528†	54.1	0.0580 mg/L		0.00069	0.0580 mg/L	0.00069	1.18%
Ba 233.527†	90136.7	0.7884 mg/L		0.00822	0.7884 mg/L	0.00822	1.04%
Be 313.107†	25149.9	0.0089 mg/L		0.00013	0.0089 mg/L	0.00013	1.41%
Ca 315.887†	3853523.4	42.04 mg/L		0.056	42.04 mg/L	0.056	0.13%
Cd 228.802†	112.9	-0.0001 mg/L		0.00004	-0.0001 mg/L	0.00004	39.93%
Co 228.616†	7079.4	0.1182 mg/L		0.00030	0.1182 mg/L	0.00030	0.25%
Cr 267.716†	42389.2	0.3729 mg/L		0.00331	0.3729 mg/L	0.00331	0.89%
Cu 324.752†	47353.9	0.2722 mg/L		0.00300	0.2722 mg/L	0.00300	1.10%
Fe 234.349†	408876.9	272.6 mg/L		3.92	272.6 mg/L	3.92	1.44%
K 766.490†	69081.0	37.82 mg/L		0.257	37.82 mg/L	0.257	0.68%
Li 670.784†	11885.3	0.3311 mg/L		0.00369	0.3311 mg/L	0.00369	1.11%
Mg 279.077†	796403.4	64.21 mg/L		0.103	64.21 mg/L	0.103	0.16%
Mn 257.610†	2940661.2	3.723 mg/L		0.0014	3.723 mg/L	0.0014	0.04%
Mn 294.920†	1489369.9	3.886 mg/L		0.0022	3.886 mg/L	0.0022	0.06%
Mo 202.031†	380.2	-0.0237 mg/L		0.00210	-0.0237 mg/L	0.00210	8.87%
Na 589.592†	111378.4	20.38 mg/L		0.283	20.38 mg/L	0.283	1.39%
Ni 231.604†	11343.4	0.2545 mg/L		0.00053	0.2545 mg/L	0.00053	0.21%
P 214.914†	11616.0	7.320 mg/L		0.0050	7.320 mg/L	0.0050	0.07%
Pb 220.353†	5377.5	0.3419 mg/L		0.00266	0.3419 mg/L	0.00266	0.78%
Sb 206.836†	80.0	-0.0393 mg/L		0.00508	-0.0393 mg/L	0.00508	12.92%
Se 196.026†	-69.7	-0.0973 mg/L		0.00064	-0.0973 mg/L	0.00064	0.66%
Sn 189.927†	-320.6	-0.0229 mg/L		0.00016	-0.0229 mg/L	0.00016	0.71%
Sr 407.771†	214924.0	0.2510 mg/L		0.00362	0.2510 mg/L	0.00362	1.44%
Ti 337.279†	9355888.8	10.93 mg/L		0.009	10.93 mg/L	0.009	0.08%
Tl 190.801†	8.0	-0.1565 mg/L		0.00230	-0.1565 mg/L	0.00230	1.47%
V 292.402†	114375.0	0.5040 mg/L		0.00468	0.5040 mg/L	0.00468	0.93%
Zn 213.857†	93163.4	0.6738 mg/L		0.00754	0.6738 mg/L	0.00754	1.12%

Sequence No.: 61

Sample ID: 1307073-08

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 7/5/2013 5:30:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307073-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-40.4	-34.9	-0.0181 mg/L	-0.0181 mg/L	17:32:14
1	Fe 234.349†	421619.7	431616.7	287.8 mg/L	287.8 mg/L	17:32:12
1	K 766.490†	61218.2	61852.9	33.88 mg/L	33.88 mg/L	17:32:14
1	Li 670.784†	11772.4	12287.4	0.3422 mg/L	0.3422 mg/L	17:32:14
1	Na 589.592†	115472.8	117732.9	21.53 mg/L	21.53 mg/L	17:32:12
1	Sr 407.771†	203747.9	208511.6	0.2435 mg/L	0.2435 mg/L	17:32:12
1	Y 371.029	2638433.1	2638433.1	0.977 mg/L		17:32:24
1	Ag 328.068†	399.9	-1455.8	0.0010 mg/L	0.0010 mg/L	17:32:27
1	Al 237.313†	1680406.2	1720707.8	190.4 mg/L	190.4 mg/L	17:32:24
1	As 188.979†	131.2	141.0	0.1061 mg/L	0.1061 mg/L	17:32:37
1	B 182.528†	40.5	51.0	0.0547 mg/L	0.0547 mg/L	17:32:37
1	Ba 233.527†	93161.5	95468.9	0.8349 mg/L	0.8349 mg/L	17:32:27

1	Be 313.107†	24750.0	26775.2	0.0096 mg/L	0.0096 mg/L	17:32:27
1	Ca 315.887†	3958182.5	4053974.4	44.22 mg/L	44.22 mg/L	17:32:24
1	Cd 228.802†	267.9	115.2	-0.0003 mg/L	-0.0003 mg/L	17:32:37
1	Co 228.616†	7419.3	7837.2	0.1337 mg/L	0.1337 mg/L	17:32:37
1	Cr 267.716†	41737.3	42161.4	0.3709 mg/L	0.3709 mg/L	17:32:27
1	Cu 324.752†	54031.4	50510.5	0.2890 mg/L	0.2890 mg/L	17:32:27
1	Mg 279.077†	882558.4	903495.6	72.84 mg/L	72.84 mg/L	17:32:24
1	Mn 257.610†	3730414.7	3802854.2	4.829 mg/L	4.829 mg/L	17:32:24
1	Mn 294.920†	1872985.5	1918758.4	5.005 mg/L	5.005 mg/L	17:32:24
1	Mo 202.031†	422.5	396.6	-0.0254 mg/L	-0.0254 mg/L	17:32:37
1	Ni 231.604†	12339.7	12474.4	0.2797 mg/L	0.2797 mg/L	17:32:37
1	P 214.914†	11565.6	11867.1	7.478 mg/L	7.478 mg/L	17:32:37
1	Pb 220.353†	6512.8	6485.2	0.4182 mg/L	0.4182 mg/L	17:32:37
1	Sb 206.836†	128.1	83.3	-0.0421 mg/L	-0.0421 mg/L	17:32:37
1	Se 196.026†	-54.9	-67.1	-0.0985 mg/L	-0.0985 mg/L	17:32:37
1	Sn 189.927†	-353.5	-391.2	-0.0320 mg/L	-0.0320 mg/L	17:32:37
1	Ti 337.279†	9025092.4	9239851.8	10.79 mg/L	10.79 mg/L	17:32:24
1	Tl 190.801†	-5.6	-1.0	-0.1745 mg/L	-0.1745 mg/L	17:32:37
1	V 292.402†	119089.8	122263.8	0.5401 mg/L	0.5401 mg/L	17:32:27
1	Zn 213.857†	107674.6	109084.0	0.7901 mg/L	0.7901 mg/L	17:32:27
2	B 249.677†	-34.9	-29.1	-0.0149 mg/L	-0.0149 mg/L	17:32:19
2	Fe 234.349†	420694.3	429281.6	286.2 mg/L	286.2 mg/L	17:32:17
2	K 766.490†	62136.8	62588.3	34.28 mg/L	34.28 mg/L	17:32:19
2	Li 670.784†	12068.3	12550.5	0.3494 mg/L	0.3494 mg/L	17:32:19
2	Na 589.592†	115310.4	117186.2	21.43 mg/L	21.43 mg/L	17:32:17
2	Sr 407.771†	203176.1	207256.0	0.2420 mg/L	0.2420 mg/L	17:32:17
2	Y 371.029	2646962.9	2646962.9	0.980 mg/L	0.980 mg/L	17:32:41
2	Ag 328.068†	410.4	-1446.4	0.0010 mg/L	0.0010 mg/L	17:32:43
2	Al 237.313†	1685819.6	1720688.3	190.4 mg/L	190.4 mg/L	17:32:41
2	As 188.979†	138.2	147.6	0.1109 mg/L	0.1109 mg/L	17:32:53
2	B 182.528†	42.6	53.1	0.0568 mg/L	0.0568 mg/L	17:32:53
2	Ba 233.527†	94458.2	96484.8	0.8437 mg/L	0.8437 mg/L	17:32:43
2	Be 313.107†	25106.5	27057.4	0.0097 mg/L	0.0097 mg/L	17:32:43
2	Ca 315.887†	3980314.1	4063500.3	44.32 mg/L	44.32 mg/L	17:32:41
2	Cd 228.802†	266.6	113.0	-0.0003 mg/L	-0.0003 mg/L	17:32:53
2	Co 228.616†	7346.0	7737.8	0.1317 mg/L	0.1317 mg/L	17:32:53
2	Cr 267.716†	42435.2	42735.9	0.3759 mg/L	0.3759 mg/L	17:32:43
2	Cu 324.752†	54559.8	50871.4	0.2909 mg/L	0.2909 mg/L	17:32:43
2	Mg 279.077†	886825.9	904938.6	72.96 mg/L	72.96 mg/L	17:32:41
2	Mn 257.610†	3741421.1	3801779.0	4.828 mg/L	4.828 mg/L	17:32:41
2	Mn 294.920†	1879734.1	1919465.9	5.007 mg/L	5.007 mg/L	17:32:41
2	Mo 202.031†	439.9	413.0	-0.0244 mg/L	-0.0244 mg/L	17:32:53
2	Ni 231.604†	12252.5	12344.7	0.2768 mg/L	0.2768 mg/L	17:32:53
2	P 214.914†	11523.0	11785.5	7.426 mg/L	7.426 mg/L	17:32:53
2	Pb 220.353†	6520.2	6471.2	0.4172 mg/L	0.4172 mg/L	17:32:53
2	Sb 206.836†	125.1	79.8	-0.0433 mg/L	-0.0433 mg/L	17:32:53
2	Se 196.026†	-49.5	-61.5	-0.0943 mg/L	-0.0943 mg/L	17:32:53
2	Sn 189.927†	-342.7	-379.0	-0.0301 mg/L	-0.0301 mg/L	17:32:53
2	Ti 337.279†	9050952.4	9236466.7	10.79 mg/L	10.79 mg/L	17:32:41
2	Tl 190.801†	-11.2	-6.6	-0.1791 mg/L	-0.1791 mg/L	17:32:53
2	V 292.402†	120616.2	123428.4	0.5454 mg/L	0.5454 mg/L	17:32:43
2	Zn 213.857†	109122.3	110206.0	0.7984 mg/L	0.7984 mg/L	17:32:43

Mean Data: 1307073-08

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2642698.0	0.978	mg/L	0.0022				0.23%
Ag 328.068†	-1451.1	0.0010	mg/L	0.00001	0.0010	mg/L	0.00001	0.98%
Al 237.313†	1720698.0	190.4	mg/L	0.00	190.4	mg/L	0.00	0.00%
As 188.979†	144.3	0.1085	mg/L	0.00340	0.1085	mg/L	0.00340	3.14%
B 249.677†	-32.0	-0.0165	mg/L	0.00227	-0.0165	mg/L	0.00227	13.73%
B 182.528†	52.0	0.0558	mg/L	0.00153	0.0558	mg/L	0.00153	2.75%
Ba 233.527†	95976.9	0.8393	mg/L	0.00626	0.8393	mg/L	0.00626	0.75%
Be 313.107†	26916.3	0.0097	mg/L	0.00009	0.0097	mg/L	0.00009	0.92%
Ca 315.887†	4058737.3	44.27	mg/L	0.073	44.27	mg/L	0.073	0.17%
Cd 228.802†	114.1	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	9.99%
Co 228.616†	7787.5	0.1327	mg/L	0.00140	0.1327	mg/L	0.00140	1.05%
Cr 267.716†	42448.6	0.3734	mg/L	0.00354	0.3734	mg/L	0.00354	0.95%
Cu 324.752†	50691.0	0.2900	mg/L	0.00137	0.2900	mg/L	0.00137	0.47%
Fe 234.349†	430449.2	287.0	mg/L	1.10	287.0	mg/L	1.10	0.38%
K 766.490†	62220.6	34.08	mg/L	0.283	34.08	mg/L	0.283	0.83%
Li 670.784†	12418.9	0.3458	mg/L	0.00511	0.3458	mg/L	0.00511	1.48%

Mg 279.077†	904217.1	72.90 mg/L	0.082	72.90 mg/L	0.082	0.11%
Mn 257.610†	3802316.6	4.829 mg/L	0.0007	4.829 mg/L	0.0007	0.02%
Mn 294.920†	1919112.1	5.006 mg/L	0.0013	5.006 mg/L	0.0013	0.03%
Mo 202.031†	404.8	-0.0249 mg/L	0.00065	-0.0249 mg/L	0.00065	2.61%
Na 589.592†	117459.6	21.48 mg/L	0.070	21.48 mg/L	0.070	0.33%
Ni 231.604†	12409.6	0.2783 mg/L	0.00204	0.2783 mg/L	0.00204	0.73%
P 214.914†	11826.3	7.452 mg/L	0.0361	7.452 mg/L	0.0361	0.49%
Pb 220.353†	6478.2	0.4177 mg/L	0.00070	0.4177 mg/L	0.00070	0.17%
Sb 206.836†	81.5	-0.0427 mg/L	0.00087	-0.0427 mg/L	0.00087	2.03%
Se 196.026†	-64.3	-0.0964 mg/L	0.00297	-0.0964 mg/L	0.00297	3.08%
Sn 189.927†	-385.1	-0.0310 mg/L	0.00132	-0.0310 mg/L	0.00132	4.25%
Sr 407.771†	207883.8	0.2428 mg/L	0.00104	0.2428 mg/L	0.00104	0.43%
Ti 337.279†	9238159.2	10.79 mg/L	0.003	10.79 mg/L	0.003	0.03%
Tl 190.801†	-3.8	-0.1768 mg/L	0.00326	-0.1768 mg/L	0.00326	1.84%
V 292.402†	122846.1	0.5427 mg/L	0.00377	0.5427 mg/L	0.00377	0.69%
Zn 213.857†	109645.0	0.7943 mg/L	0.00590	0.7943 mg/L	0.00590	0.74%

Sequence No.: 62
Sample ID: 1307073-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 7/5/2013 5:35:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307073-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-32.0	-25.7	-0.0130 mg/L	-0.0130 mg/L	17:37:41
1	Fe 234.349†	458842.8	460750.2	307.2 mg/L	307.2 mg/L	17:37:38
1	K 766.490†	66860.9	66322.0	36.32 mg/L	36.32 mg/L	17:37:41
1	Li 670.784†	13928.7	14222.4	0.3954 mg/L	0.3954 mg/L	17:37:41
1	Na 589.592†	77119.9	76961.9	14.12 mg/L	14.12 mg/L	17:37:38
1	Sr 407.771†	223840.9	224704.1	0.2624 mg/L	0.2624 mg/L	17:37:38
1	Y 371.029	2689814.6	2689814.6	0.996 mg/L		17:37:51
1	Ag 328.068†	354.3	-1509.4	0.0012 mg/L	0.0012 mg/L	17:37:53
1	Al 237.313†	2251052.3	2260873.3	250.2 mg/L	250.2 mg/L	17:37:51
1	As 188.979†	145.4	152.6	0.1145 mg/L	0.1145 mg/L	17:38:03
1	B 182.528†	40.8	50.5	0.0541 mg/L	0.0541 mg/L	17:38:03
1	Ba 233.527†	101148.5	101667.5	0.8889 mg/L	0.8889 mg/L	17:37:53
1	Be 313.107†	32004.9	33576.4	0.0123 mg/L	0.0123 mg/L	17:37:53
1	Ca 315.887†	4403805.6	4424052.1	48.25 mg/L	48.25 mg/L	17:37:51
1	Cd 228.802†	279.1	121.2	-0.0004 mg/L	-0.0004 mg/L	17:38:03
1	Co 228.616†	7868.7	8143.3	0.1373 mg/L	0.1373 mg/L	17:38:03
1	Cr 267.716†	53459.2	53115.9	0.4664 mg/L	0.4664 mg/L	17:37:53
1	Cu 324.752†	55762.3	51192.0	0.2940 mg/L	0.2940 mg/L	17:37:53
1	Mg 279.077†	945106.7	949045.9	76.51 mg/L	76.51 mg/L	17:37:51
1	Mn 257.610†	4362992.5	4365120.7	5.548 mg/L	5.548 mg/L	17:37:51
1	Mn 294.920†	2196344.9	2206839.5	5.757 mg/L	5.757 mg/L	17:37:51
1	Mo 202.031†	448.2	414.2	-0.0275 mg/L	-0.0275 mg/L	17:37:53
1	Ni 231.604†	13992.7	13893.1	0.3113 mg/L	0.3113 mg/L	17:38:03
1	P 214.914†	15733.6	15826.3	9.957 mg/L	9.957 mg/L	17:38:03
1	Pb 220.353†	7238.3	7086.4	0.4484 mg/L	0.4484 mg/L	17:38:03
1	Sb 206.836†	149.2	102.0	-0.0397 mg/L	-0.0397 mg/L	17:38:03
1	Se 196.026†	-46.1	-57.2	-0.0956 mg/L	-0.0956 mg/L	17:38:03
1	Sn 189.927†	-354.6	-385.4	-0.0286 mg/L	-0.0286 mg/L	17:38:03
1	Ti 337.279†	10188774.5	10231897.9	11.95 mg/L	11.95 mg/L	17:37:51
1	Tl 190.801†	-2.1	2.7	-0.1826 mg/L	-0.1826 mg/L	17:38:03
1	V 292.402†	126663.3	127540.0	0.5621 mg/L	0.5621 mg/L	17:37:53
1	Zn 213.857†	129184.4	128577.9	0.9324 mg/L	0.9324 mg/L	17:37:53
2	B 249.677†	-40.9	-35.3	-0.0183 mg/L	-0.0183 mg/L	17:37:45
2	Fe 234.349†	467283.6	477483.5	318.3 mg/L	318.3 mg/L	17:37:43
2	K 766.490†	66500.4	67135.1	36.76 mg/L	36.76 mg/L	17:37:45
2	Li 670.784†	13764.4	14300.7	0.3975 mg/L	0.3975 mg/L	17:37:45
2	Na 589.592†	78525.4	79760.9	14.63 mg/L	14.63 mg/L	17:37:43
2	Sr 407.771†	227664.6	232566.8	0.2715 mg/L	0.2715 mg/L	17:37:43
2	Y 371.029	2643299.1	2643299.1	0.979 mg/L		17:38:07
2	Ag 328.068†	298.2	-1560.5	0.0012 mg/L	0.0012 mg/L	17:38:09
2	Al 237.313†	2214267.0	2263062.6	250.5 mg/L	250.5 mg/L	17:38:07
2	As 188.979†	143.0	152.7	0.1146 mg/L	0.1146 mg/L	17:38:19
2	B 182.528†	36.5	46.9	0.0502 mg/L	0.0502 mg/L	17:38:19
2	Ba 233.527†	102296.6	104628.0	0.9147 mg/L	0.9147 mg/L	17:38:09
2	Be 313.107†	32294.7	34438.1	0.0127 mg/L	0.0127 mg/L	17:38:09

2	Ca	315.887†	4316702.9	4412866.3	48.13	mg/L	48.13	mg/L	17:38:07
2	Cd	228.802†	274.1	121.0	-0.0006	mg/L	-0.0006	mg/L	17:38:19
2	Co	228.616†	7950.0	8365.5	0.1417	mg/L	0.1417	mg/L	17:38:19
2	Cr	267.716†	54071.4	54686.3	0.4801	mg/L	0.4801	mg/L	17:38:09
2	Cu	324.752†	56400.4	52829.4	0.3029	mg/L	0.3029	mg/L	17:38:09
2	Mg	279.077†	926357.7	946588.3	76.31	mg/L	76.31	mg/L	17:38:07
2	Mn	257.610†	4291133.7	4368790.5	5.550	mg/L	5.550	mg/L	17:38:07
2	Mn	294.920†	2158610.0	2207091.9	5.757	mg/L	5.757	mg/L	17:38:07
2	Mo	202.031†	427.1	400.5	-0.0298	mg/L	-0.0298	mg/L	17:38:09
2	Ni	231.604†	14023.8	14172.0	0.3176	mg/L	0.3176	mg/L	17:38:19
2	P	214.914†	15791.6	16163.6	10.17	mg/L	10.17	mg/L	17:38:19
2	Pb	220.353†	7309.4	7286.9	0.4624	mg/L	0.4624	mg/L	17:38:19
2	Sb	206.836†	147.6	103.0	-0.0426	mg/L	-0.0426	mg/L	17:38:19
2	Se	196.026†	-66.3	-78.7	-0.1126	mg/L	-0.1126	mg/L	17:38:19
2	Sn	189.927†	-365.8	-403.1	-0.0313	mg/L	-0.0313	mg/L	17:38:19
2	Ti	337.279†	10026497.4	10246121.6	11.96	mg/L	11.96	mg/L	17:38:07
2	Tl	190.801†	-5.0	-0.3	-0.1923	mg/L	-0.1923	mg/L	17:38:19
2	V	292.402†	128416.9	131570.1	0.5804	mg/L	0.5804	mg/L	17:38:09
2	Zn	213.857†	130561.8	132268.2	0.9590	mg/L	0.9590	mg/L	17:38:09

Mean Data: 1307073-09

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2666556.9	0.987	mg/L	0.0122				1.23%
Ag 328.068†	-1534.9	0.0012	mg/L	0.00000	0.0012	mg/L	0.00000	0.02%
Al 237.313†	2261968.0	250.3	mg/L	0.17	250.3	mg/L	0.17	0.07%
As 188.979†	152.7	0.1145	mg/L	0.00002	0.1145	mg/L	0.00002	0.01%
B 249.677†	-30.5	-0.0157	mg/L	0.00378	-0.0157	mg/L	0.00378	24.17%
B 182.528†	48.7	0.0522	mg/L	0.00277	0.0522	mg/L	0.00277	5.30%
Ba 233.527†	103147.8	0.9018	mg/L	0.01824	0.9018	mg/L	0.01824	2.02%
Be 313.107†	34007.2	0.0125	mg/L	0.00027	0.0125	mg/L	0.00027	2.13%
Ca 315.887†	4418459.2	48.19	mg/L	0.086	48.19	mg/L	0.086	0.18%
Cd 228.802†	121.1	-0.0005	mg/L	0.00014	-0.0005	mg/L	0.00014	25.98%
Co 228.616†	8254.4	0.1395	mg/L	0.00312	0.1395	mg/L	0.00312	2.23%
Cr 267.716†	53901.1	0.4732	mg/L	0.00968	0.4732	mg/L	0.00968	2.05%
Cu 324.752†	52010.7	0.2985	mg/L	0.00624	0.2985	mg/L	0.00624	2.09%
Fe 234.349†	469116.8	312.8	mg/L	7.89	312.8	mg/L	7.89	2.52%
K 766.490†	66728.6	36.54	mg/L	0.313	36.54	mg/L	0.313	0.86%
Li 670.784†	14261.5	0.3964	mg/L	0.00152	0.3964	mg/L	0.00152	0.38%
Mg 279.077†	947817.1	76.41	mg/L	0.140	76.41	mg/L	0.140	0.18%
Mn 257.610†	4366955.6	5.549	mg/L	0.0016	5.549	mg/L	0.0016	0.03%
Mn 294.920†	2206965.7	5.757	mg/L	0.0005	5.757	mg/L	0.0005	0.01%
Mo 202.031†	407.3	-0.0287	mg/L	0.00163	-0.0287	mg/L	0.00163	5.68%
Na 589.592†	78361.4	14.37	mg/L	0.360	14.37	mg/L	0.360	2.51%
Ni 231.604†	14032.5	0.3145	mg/L	0.00440	0.3145	mg/L	0.00440	1.40%
P 214.914†	15995.0	10.06	mg/L	0.149	10.06	mg/L	0.149	1.48%
Pb 220.353†	7186.7	0.4554	mg/L	0.00996	0.4554	mg/L	0.00996	2.19%
Sb 206.836†	102.5	-0.0411	mg/L	0.00200	-0.0411	mg/L	0.00200	4.86%
Se 196.026†	-68.0	-0.1041	mg/L	0.01197	-0.1041	mg/L	0.01197	11.50%
Sn 189.927†	-394.2	-0.0300	mg/L	0.00191	-0.0300	mg/L	0.00191	6.38%
Sr 407.771†	228635.5	0.2669	mg/L	0.00648	0.2669	mg/L	0.00648	2.43%
Ti 337.279†	10239009.7	11.96	mg/L	0.012	11.96	mg/L	0.012	0.10%
Tl 190.801†	1.2	-0.1875	mg/L	0.00685	-0.1875	mg/L	0.00685	3.65%
V 292.402†	129555.0	0.5712	mg/L	0.01296	0.5712	mg/L	0.01296	2.27%
Zn 213.857†	130423.0	0.9457	mg/L	0.01881	0.9457	mg/L	0.01881	1.99%

Sequence No.: 63

Sample ID: 1307073-10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 59

Date Collected: 7/5/2013 5:41:27 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307073-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-25.9	-19.4	-0.0095	mg/L	-0.0095	mg/L	17:43:13
1	Fe 234.349†	465653.9	465308.1	310.2	mg/L	310.2	mg/L	17:43:11
1	K 766.490†	67856.2	66989.0	36.68	mg/L	36.68	mg/L	17:43:13
1	Li 670.784†	13954.0	14179.5	0.3942	mg/L	0.3942	mg/L	17:43:13
1	Na 589.592†	81749.8	81210.5	14.89	mg/L	14.89	mg/L	17:43:11

1	Sr 407.771†	237401.5	237158.0	0.2769	mg/L	0.2769	mg/L	17:43:11
1	Y 371.029	2703003.4	2703003.4	1.00	mg/L			17:43:23
1	Ag 328.068†	339.7	-1525.7	0.0012	mg/L	0.0012	mg/L	17:43:26
1	Al 237.313†	2352094.8	2350812.8	260.2	mg/L	260.2	mg/L	17:43:23
1	As 188.979†	152.9	159.4	0.1194	mg/L	0.1194	mg/L	17:43:36
1	B 182.528†	43.3	52.8	0.0566	mg/L	0.0566	mg/L	17:43:36
1	Ba 233.527†	111061.6	111077.8	0.9709	mg/L	0.9709	mg/L	17:43:26
1	Be 313.107†	33407.8	34821.5	0.0128	mg/L	0.0128	mg/L	17:43:26
1	Ca 315.887†	4473316.5	4471935.3	48.78	mg/L	48.78	mg/L	17:43:23
1	Cd 228.802†	285.5	126.2	-0.0003	mg/L	-0.0003	mg/L	17:43:36
1	Co 228.616†	8111.1	8347.0	0.1413	mg/L	0.1413	mg/L	17:43:36
1	Cr 267.716†	48787.7	48185.9	0.4234	mg/L	0.4234	mg/L	17:43:26
1	Cu 324.752†	65669.5	60818.8	0.3459	mg/L	0.3459	mg/L	17:43:26
1	Mg 279.077†	927464.3	926785.6	74.72	mg/L	74.72	mg/L	17:43:23
1	Mn 257.610†	4727102.8	4707588.8	5.988	mg/L	5.988	mg/L	17:43:23
1	Mn 294.920†	2378264.7	2377865.6	6.203	mg/L	6.203	mg/L	17:43:23
1	Mo 202.031†	458.5	422.3	-0.0279	mg/L	-0.0279	mg/L	17:43:26
1	Ni 231.604†	13365.5	13197.7	0.2958	mg/L	0.2958	mg/L	17:43:36
1	P 214.914†	19505.7	19518.6	12.27	mg/L	12.27	mg/L	17:43:36
1	Pb 220.353†	8663.6	8475.2	0.5442	mg/L	0.5442	mg/L	17:43:36
1	Sb 206.836†	145.2	97.2	-0.0424	mg/L	-0.0424	mg/L	17:43:36
1	Se 196.026†	-64.2	-75.0	-0.1085	mg/L	-0.1085	mg/L	17:43:36
1	Sn 189.927†	-307.3	-336.4	-0.0211	mg/L	-0.0211	mg/L	17:43:36
1	Ti 337.279†	10296238.0	10289361.7	12.01	mg/L	12.01	mg/L	17:43:23
1	Tl 190.801†	-5.7	-0.9	-0.1881	mg/L	-0.1881	mg/L	17:43:36
1	V 292.402†	134369.3	134619.8	0.5940	mg/L	0.5940	mg/L	17:43:26
1	Zn 213.857†	124526.2	123290.2	0.8934	mg/L	0.8934	mg/L	17:43:26
2	B 249.677†	-10.0	-3.7	-0.0008	mg/L	-0.0008	mg/L	17:43:18
2	Fe 234.349†	457637.9	466426.1	311.0	mg/L	311.0	mg/L	17:43:15
2	K 766.490†	68830.9	69335.8	37.96	mg/L	37.96	mg/L	17:43:18
2	Li 670.784†	14285.9	14796.0	0.4111	mg/L	0.4111	mg/L	17:43:18
2	Na 589.592†	80590.4	81659.5	14.97	mg/L	14.97	mg/L	17:43:15
2	Sr 407.771†	233781.5	238203.8	0.2781	mg/L	0.2781	mg/L	17:43:15
2	Y 371.029	2650105.1	2650105.1	0.981	mg/L			17:43:39
2	Ag 328.068†	381.2	-1476.6	0.0015	mg/L	0.0015	mg/L	17:43:42
2	Al 237.313†	2302294.8	2346971.3	259.7	mg/L	259.7	mg/L	17:43:39
2	As 188.979†	153.4	163.0	0.1220	mg/L	0.1220	mg/L	17:43:52
2	B 182.528†	34.0	44.3	0.0474	mg/L	0.0474	mg/L	17:43:52
2	Ba 233.527†	110573.1	112795.2	0.9858	mg/L	0.9858	mg/L	17:43:42
2	Be 313.107†	33093.7	35167.7	0.0130	mg/L	0.0130	mg/L	17:43:42
2	Ca 315.887†	4363036.2	4448761.7	48.52	mg/L	48.52	mg/L	17:43:39
2	Cd 228.802†	289.0	135.5	-0.0001	mg/L	-0.0001	mg/L	17:43:52
2	Co 228.616†	8071.3	8468.2	0.1437	mg/L	0.1437	mg/L	17:43:52
2	Cr 267.716†	48468.5	48833.8	0.4291	mg/L	0.4291	mg/L	17:43:42
2	Cu 324.752†	65452.7	61907.7	0.3518	mg/L	0.3518	mg/L	17:43:42
2	Mg 279.077†	903764.5	921129.8	74.26	mg/L	74.26	mg/L	17:43:39
2	Mn 257.610†	4630080.7	4702990.2	5.982	mg/L	5.982	mg/L	17:43:39
2	Mn 294.920†	2327462.1	2373524.2	6.191	mg/L	6.191	mg/L	17:43:39
2	Mo 202.031†	496.2	469.8	-0.0261	mg/L	-0.0261	mg/L	17:43:42
2	Ni 231.604†	13256.0	13352.7	0.2993	mg/L	0.2993	mg/L	17:43:52
2	P 214.914†	19346.8	19745.7	12.41	mg/L	12.41	mg/L	17:43:52
2	Pb 220.353†	8511.1	8492.6	0.5455	mg/L	0.5455	mg/L	17:43:52
2	Sb 206.836†	143.2	98.1	-0.0423	mg/L	-0.0423	mg/L	17:43:52
2	Se 196.026†	-55.7	-67.7	-0.1036	mg/L	-0.1036	mg/L	17:43:52
2	Sn 189.927†	-302.3	-337.4	-0.0214	mg/L	-0.0214	mg/L	17:43:52
2	Ti 337.279†	10088184.4	10282681.5	12.01	mg/L	12.01	mg/L	17:43:39
2	Tl 190.801†	-9.6	-5.0	-0.1925	mg/L	-0.1925	mg/L	17:43:52
2	V 292.402†	133950.8	136873.3	0.6043	mg/L	0.6043	mg/L	17:43:42
2	Zn 213.857†	124010.1	125247.9	0.9078	mg/L	0.9078	mg/L	17:43:42

Mean Data: 1307073-10

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2676554.3	0.991 mg/L	0.0138			1.40%
Ag 328.068†	-1501.2	0.0014 mg/L	0.00021	0.0014 mg/L	0.00021	15.32%
Al 237.313†	2348892.0	260.0 mg/L	0.30	260.0 mg/L	0.30	0.12%
As 188.979†	161.2	0.1207 mg/L	0.00183	0.1207 mg/L	0.00183	1.51%
B 249.677†	-11.6	-0.0051 mg/L	0.00618	-0.0051 mg/L	0.00618	120.40%
B 182.528†	48.5	0.0520 mg/L	0.00649	0.0520 mg/L	0.00649	12.49%
Ba 233.527†	111936.5	0.9784 mg/L	0.01058	0.9784 mg/L	0.01058	1.08%
Be 313.107†	34994.6	0.0129 mg/L	0.00011	0.0129 mg/L	0.00011	0.85%
Ca 315.887†	4460348.5	48.65 mg/L	0.179	48.65 mg/L	0.179	0.37%

Cd	228.802†	130.8	-0.0002 mg/L	0.00020	-0.0002 mg/L	0.00020	103.48%
Co	228.616†	8407.6	0.1425 mg/L	0.00173	0.1425 mg/L	0.00173	1.21%
Cr	267.716†	48509.9	0.4263 mg/L	0.00399	0.4263 mg/L	0.00399	0.94%
Cu	324.752†	61363.3	0.3488 mg/L	0.00413	0.3488 mg/L	0.00413	1.19%
Fe	234.349†	465867.1	310.6 mg/L	0.53	310.6 mg/L	0.53	0.17%
K	766.490†	68162.4	37.32 mg/L	0.904	37.32 mg/L	0.904	2.42%
Li	670.784†	14487.8	0.4027 mg/L	0.01198	0.4027 mg/L	0.01198	2.98%
Mg	279.077†	923957.7	74.49 mg/L	0.322	74.49 mg/L	0.322	0.43%
Mn	257.610†	4705289.5	5.985 mg/L	0.0043	5.985 mg/L	0.0043	0.07%
Mn	294.920†	2375694.9	6.197 mg/L	0.0080	6.197 mg/L	0.0080	0.13%
Mo	202.031†	446.0	-0.0270 mg/L	0.00133	-0.0270 mg/L	0.00133	4.91%
Na	589.592†	81435.0	14.93 mg/L	0.058	14.93 mg/L	0.058	0.39%
Ni	231.604†	13275.2	0.2976 mg/L	0.00244	0.2976 mg/L	0.00244	0.82%
P	214.914†	19632.1	12.34 mg/L	0.101	12.34 mg/L	0.101	0.81%
Pb	220.353†	8483.9	0.5448 mg/L	0.00093	0.5448 mg/L	0.00093	0.17%
Sb	206.836†	97.7	-0.0424 mg/L	0.00011	-0.0424 mg/L	0.00011	0.25%
Se	196.026†	-71.4	-0.1060 mg/L	0.00344	-0.1060 mg/L	0.00344	3.25%
Sn	189.927†	-336.9	-0.0212 mg/L	0.00021	-0.0212 mg/L	0.00021	1.01%
Sr	407.771†	237680.9	0.2775 mg/L	0.00086	0.2775 mg/L	0.00086	0.31%
Ti	337.279†	10286021.6	12.01 mg/L	0.006	12.01 mg/L	0.006	0.05%
Tl	190.801†	-2.9	-0.1903 mg/L	0.00314	-0.1903 mg/L	0.00314	1.65%
V	292.402†	135746.6	0.5991 mg/L	0.00729	0.5991 mg/L	0.00729	1.22%
Zn	213.857†	124269.0	0.9006 mg/L	0.01014	0.9006 mg/L	0.01014	1.13%

Sequence No.: 64

Sample ID: 1307073-11

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 60

Date Collected: 7/5/2013 5:46:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307073-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	26.6	34.0	0.0202 mg/L	0.0202 mg/L	17:48:40
1	Fe 234.349†	458735.1	473214.5	315.3 mg/L	315.3 mg/L	17:48:38
1	K 766.490†	80037.1	81746.7	44.73 mg/L	44.73 mg/L	17:48:40
1	Li 670.784†	17716.4	18511.5	0.5133 mg/L	0.5133 mg/L	17:48:40
1	Na 589.592†	58638.0	60009.9	11.03 mg/L	11.03 mg/L	17:48:40
1	Sr 407.771†	527725.6	544319.8	0.6350 mg/L	0.6350 mg/L	17:48:38
1	Y 371.029	2618352.1	2618352.1	0.969 mg/L		17:48:54
1	Ag 328.068†	244.0	-1613.5	0.0008 mg/L	0.0008 mg/L	17:48:56
1	Al 237.313†	2158424.4	2227014.4	246.5 mg/L	246.5 mg/L	17:48:54
1	As 188.979†	178.4	190.7	0.1422 mg/L	0.1422 mg/L	17:49:06
1	B 182.528†	45.0	56.0	0.0600 mg/L	0.0600 mg/L	17:49:06
1	Ba 233.527†	125567.5	129629.7	1.133 mg/L	1.133 mg/L	17:48:56
1	Be 313.107†	27156.8	29452.3	0.0105 mg/L	0.0105 mg/L	17:48:56
1	Ca 315.887†	13060692.7	13475004.3	146.9 mg/L	146.9 mg/L	17:48:50
1	Cd 228.802†	275.8	125.5	-0.0004 mg/L	-0.0004 mg/L	17:49:06
1	Co 228.616†	6988.8	7451.2	0.1232 mg/L	0.1232 mg/L	17:49:06
1	Cr 267.716†	45441.2	46309.9	0.4071 mg/L	0.4071 mg/L	17:48:56
1	Cu 324.752†	64253.3	61479.5	0.3495 mg/L	0.3495 mg/L	17:48:56
1	Mg 279.077†	1021847.6	1054112.4	84.98 mg/L	84.98 mg/L	17:48:54
1	Mn 257.610†	3825742.2	3930480.6	4.987 mg/L	4.987 mg/L	17:48:54
1	Mn 294.920†	1925511.4	1987648.3	5.185 mg/L	5.185 mg/L	17:48:54
1	Mo 202.031†	448.8	427.0	-0.0286 mg/L	-0.0286 mg/L	17:48:56
1	Ni 231.604†	12600.7	12840.5	0.2879 mg/L	0.2879 mg/L	17:49:06
1	P 214.914†	12323.3	12739.5	8.023 mg/L	8.023 mg/L	17:49:06
1	Pb 220.353†	10138.9	10276.9	0.6739 mg/L	0.6739 mg/L	17:49:06
1	Sb 206.836†	155.9	113.0	-0.0364 mg/L	-0.0364 mg/L	17:49:06
1	Se 196.026†	-65.1	-78.0	-0.1115 mg/L	-0.1115 mg/L	17:49:06
1	Sn 189.927†	-626.7	-675.8	-0.0106 mg/L	-0.0106 mg/L	17:49:06
1	Ti 337.279†	10010042.8	10326764.0	12.06 mg/L	12.06 mg/L	17:48:54
1	Tl 190.801†	1.6	6.4	-0.1819 mg/L	-0.1819 mg/L	17:49:06
1	V 292.402†	122328.0	126539.2	0.5571 mg/L	0.5571 mg/L	17:48:56
1	Zn 213.857†	108776.7	111066.3	0.8033 mg/L	0.8033 mg/L	17:48:56
2	B 249.677†	-12.7	-6.6	-0.0024 mg/L	-0.0024 mg/L	17:48:44
2	Fe 234.349†	452468.9	468002.4	311.9 mg/L	311.9 mg/L	17:48:42
2	K 766.490†	80276.4	82215.7	44.98 mg/L	44.98 mg/L	17:48:44
2	Li 670.784†	17725.5	18569.9	0.5149 mg/L	0.5149 mg/L	17:48:44
2	Na 589.592†	58725.1	60262.3	11.08 mg/L	11.08 mg/L	17:48:44
2	Sr 407.771†	521818.2	539669.7	0.6296 mg/L	0.6296 mg/L	17:48:42

2	Y 371.029	2611347.6	2611347.6	0.967	mg/L			17:49:13
2	Ag 328.068†	265.9	-1590.1	0.0009	mg/L	0.0009	mg/L	17:49:16
2	Al 237.313†	2153949.3	2228358.1	246.6	mg/L	246.6	mg/L	17:49:13
2	As 188.979†	183.3	196.3	0.1463	mg/L	0.1463	mg/L	17:49:26
2	B 182.528†	51.6	63.0	0.0675	mg/L	0.0675	mg/L	17:49:26
2	Ba 233.527†	125477.0	129883.6	1.135	mg/L	1.135	mg/L	17:49:16
2	Be 313.107†	27087.5	29455.8	0.0105	mg/L	0.0105	mg/L	17:49:16
2	Ca 315.887†	13060699.0	13511150.1	147.3	mg/L	147.3	mg/L	17:49:10
2	Cd 228.802†	282.1	132.8	-0.0002	mg/L	-0.0002	mg/L	17:49:26
2	Co 228.616†	6977.9	7459.3	0.1234	mg/L	0.1234	mg/L	17:49:26
2	Cr 267.716†	45180.6	46166.1	0.4058	mg/L	0.4058	mg/L	17:49:16
2	Cu 324.752†	64207.9	61610.3	0.3502	mg/L	0.3502	mg/L	17:49:16
2	Mg 279.077†	1019311.1	1054316.3	84.99	mg/L	84.99	mg/L	17:49:13
2	Mn 257.610†	3817073.6	3932100.2	4.990	mg/L	4.990	mg/L	17:49:13
2	Mn 294.920†	1920640.9	1987938.5	5.186	mg/L	5.186	mg/L	17:49:13
2	Mo 202.031†	592.9	577.3	-0.0216	mg/L	-0.0216	mg/L	17:49:16
2	Ni 231.604†	12585.7	12859.9	0.2883	mg/L	0.2883	mg/L	17:49:26
2	P 214.914†	12323.9	12774.3	8.045	mg/L	8.045	mg/L	17:49:26
2	Pb 220.353†	10158.8	10325.6	0.6774	mg/L	0.6774	mg/L	17:49:26
2	Sb 206.836†	153.1	110.5	-0.0365	mg/L	-0.0365	mg/L	17:49:26
2	Se 196.026†	-79.0	-92.6	-0.1209	mg/L	-0.1209	mg/L	17:49:26
2	Sn 189.927†	-603.4	-653.5	-0.0071	mg/L	-0.0071	mg/L	17:49:26
2	Ti 337.279†	9986274.8	10329877.7	12.06	mg/L	12.06	mg/L	17:49:13
2	Tl 190.801†	5.7	10.7	-0.1756	mg/L	-0.1756	mg/L	17:49:26
2	V 292.402†	122046.1	126586.1	0.5574	mg/L	0.5574	mg/L	17:49:16
2	Zn 213.857†	108916.5	111511.9	0.8067	mg/L	0.8067	mg/L	17:49:16

Mean Data: 1307073-11

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2614849.8	0.968	mg/L	0.0018				0.19%
Ag 328.068†	-1601.8	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	3.47%
Al 237.313†	2227686.3	246.5	mg/L	0.11	246.5	mg/L	0.11	0.04%
As 188.979†	193.5	0.1443	mg/L	0.00287	0.1443	mg/L	0.00287	1.99%
B 249.677†	13.7	0.0089	mg/L	0.01596	0.0089	mg/L	0.01596	178.93%
B 182.528†	59.5	0.0637	mg/L	0.00530	0.0637	mg/L	0.00530	8.31%
Ba 233.527†	129756.7	1.134	mg/L	0.0016	1.134	mg/L	0.0016	0.14%
Be 313.107†	29454.1	0.0105	mg/L	0.00000	0.0105	mg/L	0.00000	0.00%
Ca 315.887†	13493077.2	147.1	mg/L	0.28	147.1	mg/L	0.28	0.19%
Cd 228.802†	129.1	-0.0003	mg/L	0.00020	-0.0003	mg/L	0.00020	68.34%
Co 228.616†	7455.3	0.1233	mg/L	0.00011	0.1233	mg/L	0.00011	0.09%
Cr 267.716†	46238.0	0.4065	mg/L	0.00088	0.4065	mg/L	0.00088	0.22%
Cu 324.752†	61544.9	0.3499	mg/L	0.00050	0.3499	mg/L	0.00050	0.14%
Fe 234.349†	470608.4	313.6	mg/L	2.46	313.6	mg/L	2.46	0.78%
K 766.490†	81981.2	44.85	mg/L	0.181	44.85	mg/L	0.181	0.40%
Li 670.784†	18540.7	0.5141	mg/L	0.00114	0.5141	mg/L	0.00114	0.22%
Mg 279.077†	1054214.4	84.99	mg/L	0.012	84.99	mg/L	0.012	0.01%
Mn 257.610†	3931290.4	4.989	mg/L	0.0020	4.989	mg/L	0.0020	0.04%
Mn 294.920†	1987793.4	5.185	mg/L	0.0005	5.185	mg/L	0.0005	0.01%
Mo 202.031†	502.2	-0.0251	mg/L	0.00488	-0.0251	mg/L	0.00488	19.45%
Na 589.592†	60136.1	11.05	mg/L	0.032	11.05	mg/L	0.032	0.29%
Ni 231.604†	12850.2	0.2881	mg/L	0.00031	0.2881	mg/L	0.00031	0.11%
P 214.914†	12756.9	8.034	mg/L	0.0153	8.034	mg/L	0.0153	0.19%
Pb 220.353†	10301.3	0.6757	mg/L	0.00241	0.6757	mg/L	0.00241	0.36%
Sb 206.836†	111.7	-0.0365	mg/L	0.00007	-0.0365	mg/L	0.00007	0.20%
Se 196.026†	-85.3	-0.1162	mg/L	0.00659	-0.1162	mg/L	0.00659	5.67%
Sn 189.927†	-664.6	-0.0088	mg/L	0.00251	-0.0088	mg/L	0.00251	28.39%
Sr 407.771†	541994.7	0.6323	mg/L	0.00383	0.6323	mg/L	0.00383	0.61%
Ti 337.279†	10328320.9	12.06	mg/L	0.003	12.06	mg/L	0.003	0.02%
Tl 190.801†	8.6	-0.1788	mg/L	0.00444	-0.1788	mg/L	0.00444	2.48%
V 292.402†	126562.6	0.5573	mg/L	0.00020	0.5573	mg/L	0.00020	0.04%
Zn 213.857†	111289.1	0.8050	mg/L	0.00243	0.8050	mg/L	0.00243	0.30%

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Sequence No.: 65
Sample ID: 1307073-12
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 7/5/2013 5:52:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307073-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-47.0	-40.9	-0.0215	mg/L	-0.0215	mg/L	17:54:15
1	Fe 234.349†	533125.2	536990.1	358.0	mg/L	358.0	mg/L	17:54:13
1	K 766.490†	110286.9	110270.0	60.27	mg/L	60.27	mg/L	17:54:13
1	Li 670.784†	18984.7	19358.2	0.5365	mg/L	0.5365	mg/L	17:54:15
1	Na 589.592†	68861.2	68881.6	12.65	mg/L	12.65	mg/L	17:54:13
1	Sr 407.771†	242676.4	244368.2	0.2853	mg/L	0.2853	mg/L	17:54:13
1	Y 371.029	2681561.4	2681561.4	0.993	mg/L			17:54:28
1	Ag 328.068†	33.6	-1831.3	0.0007	mg/L	0.0007	mg/L	17:54:28
1	Al 237.313†	2488373.0	2506874.5	277.4	mg/L	277.4	mg/L	17:54:28
1	As 188.979†	199.0	207.1	0.1540	mg/L	0.1540	mg/L	17:54:38
1	B 182.528†	45.0	54.9	0.0588	mg/L	0.0588	mg/L	17:54:38
1	Ba 233.527†	132353.3	133411.5	1.165	mg/L	1.165	mg/L	17:54:28
1	Be 313.107†	34355.1	36042.6	0.0126	mg/L	0.0126	mg/L	17:54:28
1	Ca 315.887†	4196223.8	4228573.2	46.12	mg/L	46.12	mg/L	17:54:24
1	Cd 228.802†	302.5	145.6	-0.0005	mg/L	-0.0005	mg/L	17:54:38
1	Co 228.616†	9185.7	9494.2	0.1575	mg/L	0.1575	mg/L	17:54:38
1	Cr 267.716†	57005.8	56853.5	0.4990	mg/L	0.4990	mg/L	17:54:28
1	Cu 324.752†	66406.7	62086.1	0.3564	mg/L	0.3564	mg/L	17:54:28
1	Mg 279.077†	1144568.3	1152876.9	92.94	mg/L	92.94	mg/L	17:54:28
1	Mn 257.610†	4588707.2	4605958.9	5.847	mg/L	5.847	mg/L	17:54:28
1	Mn 294.920†	2310704.6	2328817.7	6.075	mg/L	6.075	mg/L	17:54:28
1	Mo 202.031†	384.0	350.8	-0.0382	mg/L	-0.0382	mg/L	17:54:28
1	Ni 231.604†	14814.0	14763.5	0.3307	mg/L	0.3307	mg/L	17:54:38
1	P 214.914†	13670.6	13797.0	8.686	mg/L	8.686	mg/L	17:54:38
1	Pb 220.353†	10147.4	10039.0	0.6509	mg/L	0.6509	mg/L	17:54:38
1	Sb 206.836†	150.8	104.0	-0.0536	mg/L	-0.0536	mg/L	17:54:38
1	Se 196.026†	-71.3	-82.7	-0.1233	mg/L	-0.1233	mg/L	17:54:38
1	Sn 189.927†	-273.4	-304.7	-0.0180	mg/L	-0.0180	mg/L	17:54:38
1	Ti 337.279†	12862111.4	12956138.7	15.13	mg/L	15.13	mg/L	17:54:24
1	Tl 190.801†	-9.0	-4.2	-0.2205	mg/L	-0.2205	mg/L	17:54:38
1	V 292.402†	151174.0	152620.2	0.6697	mg/L	0.6697	mg/L	17:54:28
1	Zn 213.857†	141636.0	141519.2	1.025	mg/L	1.025	mg/L	17:54:28
2	B 249.677†	-49.8	-44.1	-0.0232	mg/L	-0.0232	mg/L	17:54:19
2	Fe 234.349†	530704.2	539260.2	359.5	mg/L	359.5	mg/L	17:54:17
2	K 766.490†	109913.9	110869.5	60.60	mg/L	60.60	mg/L	17:54:17
2	Li 670.784†	19305.6	19852.7	0.5501	mg/L	0.5501	mg/L	17:54:19
2	Na 589.592†	68917.5	69549.8	12.77	mg/L	12.77	mg/L	17:54:17
2	Sr 407.771†	241697.0	245526.2	0.2866	mg/L	0.2866	mg/L	17:54:17
2	Y 371.029	2658146.8	2658146.8	0.984	mg/L			17:54:45
2	Ag 328.068†	41.3	-1823.2	0.0008	mg/L	0.0008	mg/L	17:54:45
2	Al 237.313†	2468394.0	2508651.5	277.6	mg/L	277.6	mg/L	17:54:45
2	As 188.979†	188.9	198.6	0.1478	mg/L	0.1478	mg/L	17:54:55
2	B 182.528†	47.4	57.7	0.0618	mg/L	0.0618	mg/L	17:54:55
2	Ba 233.527†	131331.1	133547.1	1.167	mg/L	1.167	mg/L	17:54:45
2	Be 313.107†	34142.0	36130.9	0.0127	mg/L	0.0127	mg/L	17:54:45
2	Ca 315.887†	4174551.0	4243782.2	46.29	mg/L	46.29	mg/L	17:54:41
2	Cd 228.802†	292.0	137.6	-0.0008	mg/L	-0.0008	mg/L	17:54:55
2	Co 228.616†	9103.5	9492.1	0.1573	mg/L	0.1573	mg/L	17:54:55
2	Cr 267.716†	56602.5	56949.6	0.4998	mg/L	0.4998	mg/L	17:54:45
2	Cu 324.752†	65933.8	62194.8	0.3571	mg/L	0.3571	mg/L	17:54:45
2	Mg 279.077†	1134628.4	1152932.0	92.94	mg/L	92.94	mg/L	17:54:45
2	Mn 257.610†	4552322.1	4609700.4	5.851	mg/L	5.851	mg/L	17:54:45
2	Mn 294.920†	2292507.0	2330828.4	6.080	mg/L	6.080	mg/L	17:54:45
2	Mo 202.031†	474.4	446.2	-0.0344	mg/L	-0.0344	mg/L	17:54:45
2	Ni 231.604†	14713.6	14792.9	0.3314	mg/L	0.3314	mg/L	17:54:55
2	P 214.914†	13541.6	13787.2	8.680	mg/L	8.680	mg/L	17:54:55
2	Pb 220.353†	9974.7	9953.5	0.6448	mg/L	0.6448	mg/L	17:54:55
2	Sb 206.836†	146.9	101.4	-0.0552	mg/L	-0.0552	mg/L	17:54:55
2	Se 196.026†	-74.6	-86.7	-0.1263	mg/L	-0.1263	mg/L	17:54:55
2	Sn 189.927†	-279.7	-313.5	-0.0192	mg/L	-0.0192	mg/L	17:54:55
2	Ti 337.279†	12810856.0	13018176.5	15.20	mg/L	15.20	mg/L	17:54:41
2	Tl 190.801†	-7.6	-2.9	-0.2201	mg/L	-0.2201	mg/L	17:54:55
2	V 292.402†	149797.1	152562.4	0.6694	mg/L	0.6694	mg/L	17:54:45
2	Zn 213.857†	140612.0	141735.3	1.027	mg/L	1.027	mg/L	17:54:45

Mean Data: 1307073-12

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2669854.1	0.988	mg/L	0.0061				0.62%
Ag 328.068†	-1827.3	0.0008	mg/L	0.00006	0.0008	mg/L	0.00006	7.64%

Al 237.313†	2507763.0	277.5 mg/L	0.14	277.5 mg/L	0.14	0.05%
As 188.979†	202.8	0.1509 mg/L	0.00435	0.1509 mg/L	0.00435	2.89%
B 249.677†	-42.5	-0.0223 mg/L	0.00126	-0.0223 mg/L	0.00126	5.63%
B 182.528†	56.3	0.0603 mg/L	0.00213	0.0603 mg/L	0.00213	3.53%
Ba 233.527†	133479.3	1.166 mg/L	0.0008	1.166 mg/L	0.0008	0.07%
Be 313.107†	36086.7	0.0127 mg/L	0.00002	0.0127 mg/L	0.00002	0.12%
Ca 315.887†	4236177.7	46.21 mg/L	0.117	46.21 mg/L	0.117	0.25%
Cd 228.802†	141.6	-0.0007 mg/L	0.00019	-0.0007 mg/L	0.00019	29.03%
Co 228.616†	9493.2	0.1574 mg/L	0.00014	0.1574 mg/L	0.00014	0.09%
Cr 267.716†	56901.6	0.4994 mg/L	0.00059	0.4994 mg/L	0.00059	0.12%
Cu 324.752†	62140.4	0.3568 mg/L	0.00047	0.3568 mg/L	0.00047	0.13%
Fe 234.349†	538125.1	358.8 mg/L	1.07	358.8 mg/L	1.07	0.30%
K 766.490†	110569.7	60.43 mg/L	0.231	60.43 mg/L	0.231	0.38%
Li 670.784†	19605.5	0.5433 mg/L	0.00961	0.5433 mg/L	0.00961	1.77%
Mg 279.077†	1152904.4	92.94 mg/L	0.003	92.94 mg/L	0.003	0.00%
Mn 257.610†	4607829.6	5.849 mg/L	0.0032	5.849 mg/L	0.0032	0.05%
Mn 294.920†	2329823.1	6.077 mg/L	0.0037	6.077 mg/L	0.0037	0.06%
Mo 202.031†	398.5	-0.0363 mg/L	0.00270	-0.0363 mg/L	0.00270	7.45%
Na 589.592†	69215.7	12.71 mg/L	0.086	12.71 mg/L	0.086	0.68%
Ni 231.604†	14778.2	0.3311 mg/L	0.00047	0.3311 mg/L	0.00047	0.14%
P 214.914†	13792.1	8.683 mg/L	0.0044	8.683 mg/L	0.0044	0.05%
Pb 220.353†	9996.2	0.6479 mg/L	0.00428	0.6479 mg/L	0.00428	0.66%
Sb 206.836†	102.7	-0.0544 mg/L	0.00115	-0.0544 mg/L	0.00115	2.12%
Se 196.026†	-84.7	-0.1248 mg/L	0.00212	-0.1248 mg/L	0.00212	1.70%
Sn 189.927†	-309.1	-0.0186 mg/L	0.00084	-0.0186 mg/L	0.00084	4.53%
Sr 407.771†	244947.2	0.2860 mg/L	0.00095	0.2860 mg/L	0.00095	0.33%
Ti 337.279†	12987157.6	15.16 mg/L	0.051	15.16 mg/L	0.051	0.34%
Tl 190.801†	-3.6	-0.2203 mg/L	0.00027	-0.2203 mg/L	0.00027	0.12%
V 292.402†	152591.3	0.6696 mg/L	0.00025	0.6696 mg/L	0.00025	0.04%
Zn 213.857†	141627.3	1.026 mg/L	0.0011	1.026 mg/L	0.0011	0.10%

Sequence No.: 66
Sample ID: CG30305-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 7/5/2013 5:58:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30305-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-28.9	-23.1	-0.0116 mg/L		-0.0116 mg/L	17:59:44
1	Fe 234.349†	470565.5	482723.2	321.8 mg/L		321.8 mg/L	17:59:42
1	K 766.490†	108466.6	110452.7	60.37 mg/L		60.37 mg/L	17:59:42
1	Li 670.784†	19936.5	20687.5	0.5731 mg/L		0.5731 mg/L	17:59:44
1	Na 589.592†	59006.3	60052.0	11.04 mg/L		11.04 mg/L	17:59:44
1	Sr 407.771†	226915.2	232710.6	0.2717 mg/L		0.2717 mg/L	17:59:42
1	Y 371.029	2632971.2	2632971.2	0.975 mg/L			17:59:57
1	Ag 328.068†	204.1	-1655.8	0.0008 mg/L		0.0008 mg/L	17:59:57
1	Al 237.313†	2293202.5	2352914.0	260.4 mg/L		260.4 mg/L	17:59:57
1	As 188.979†	169.4	180.4	0.1346 mg/L		0.1346 mg/L	18:00:07
1	B 182.528†	49.8	60.6	0.0650 mg/L		0.0650 mg/L	18:00:07
1	Ba 233.527†	109657.7	112589.4	0.9840 mg/L		0.9840 mg/L	17:59:57
1	Be 313.107†	32954.7	35244.6	0.0124 mg/L		0.0124 mg/L	17:59:57
1	Ca 315.887†	4170749.8	4280442.5	46.69 mg/L		46.69 mg/L	17:59:53
1	Cd 228.802†	269.8	117.7	-0.0008 mg/L		-0.0008 mg/L	18:00:07
1	Co 228.616†	7522.2	7958.5	0.1272 mg/L		0.1272 mg/L	18:00:07
1	Cr 267.716†	64642.4	65747.3	0.5765 mg/L		0.5765 mg/L	17:59:57
1	Cu 324.752†	57849.3	54541.9	0.3156 mg/L		0.3156 mg/L	17:59:57
1	Mg 279.077†	1146619.3	1176256.8	94.82 mg/L		94.82 mg/L	17:59:57
1	Mn 257.610†	3894412.7	3979013.8	5.048 mg/L		5.048 mg/L	17:59:57
1	Mn 294.920†	1961807.4	2013854.0	5.253 mg/L		5.253 mg/L	17:59:57
1	Mo 202.031†	354.8	328.0	-0.0335 mg/L		-0.0335 mg/L	17:59:57
1	Ni 231.604†	14618.6	14838.5	0.3324 mg/L		0.3324 mg/L	18:00:07
1	P 214.914†	11420.1	11742.3	7.400 mg/L		7.400 mg/L	18:00:07
1	Pb 220.353†	14801.6	15002.1	1.004 mg/L		1.004 mg/L	18:00:07
1	Sb 206.836†	157.3	113.6	-0.0395 mg/L		-0.0395 mg/L	18:00:07
1	Se 196.026†	-65.4	-78.0	-0.1128 mg/L		-0.1128 mg/L	18:00:07
1	Sn 189.927†	-301.5	-338.6	-0.0227 mg/L		-0.0227 mg/L	18:00:07
1	Ti 337.279†	12460631.7	12783368.5	14.93 mg/L		14.93 mg/L	17:59:53
1	Tl 190.801†	-3.5	1.2	-0.1932 mg/L		-0.1932 mg/L	18:00:07
1	V 292.402†	135269.0	139114.1	0.6090 mg/L		0.6090 mg/L	17:59:57

1	Zn 213.857†	137900.0	140319.5	1.018 mg/L	1.018 mg/L	17:59:57
2	B 249.677†	-50.4	-45.0	-0.0238 mg/L	-0.0238 mg/L	17:59:48
2	Fe 234.349†	475916.0	485884.2	323.9 mg/L	323.9 mg/L	17:59:46
2	K 766.490†	109582.7	111061.7	60.70 mg/L	60.70 mg/L	17:59:46
2	Li 670.784†	20361.6	21024.0	0.5823 mg/L	0.5823 mg/L	17:59:48
2	Na 589.592†	59676.8	60447.9	11.11 mg/L	11.11 mg/L	17:59:48
2	Sr 407.771†	229150.5	233882.8	0.2731 mg/L	0.2731 mg/L	17:59:46
2	Y 371.029	2645585.5	2645585.5	0.979 mg/L	0.979 mg/L	18:00:14
2	Ag 328.068†	276.5	-1582.9	0.0012 mg/L	0.0012 mg/L	18:00:14
2	Al 237.313†	2303433.5	2352142.6	260.3 mg/L	260.3 mg/L	18:00:14
2	As 188.979†	159.9	169.9	0.1270 mg/L	0.1270 mg/L	18:00:24
2	B 182.528†	47.5	58.1	0.0623 mg/L	0.0623 mg/L	18:00:24
2	Ba 233.527†	110140.0	112545.5	0.9837 mg/L	0.9837 mg/L	18:00:14
2	Be 313.107†	33276.5	35412.0	0.0124 mg/L	0.0124 mg/L	18:00:14
2	Ca 315.887†	4193951.3	4283729.8	46.73 mg/L	46.73 mg/L	18:00:10
2	Cd 228.802†	262.9	109.4	-0.0011 mg/L	-0.0011 mg/L	18:00:24
2	Co 228.616†	7496.3	7895.2	0.1259 mg/L	0.1259 mg/L	18:00:24
2	Cr 267.716†	64876.9	65670.4	0.5758 mg/L	0.5758 mg/L	18:00:14
2	Cu 324.752†	58210.6	54627.8	0.3161 mg/L	0.3161 mg/L	18:00:14
2	Mg 279.077†	1150391.5	1174499.7	94.68 mg/L	94.68 mg/L	18:00:14
2	Mn 257.610†	3911063.4	3976964.6	5.045 mg/L	5.045 mg/L	18:00:14
2	Mn 294.920†	1970235.7	2012863.0	5.251 mg/L	5.251 mg/L	18:00:14
2	Mo 202.031†	301.5	271.9	-0.0362 mg/L	-0.0362 mg/L	18:00:14
2	Ni 231.604†	14613.2	14761.5	0.3307 mg/L	0.3307 mg/L	18:00:24
2	P 214.914†	11453.4	11720.5	7.386 mg/L	7.386 mg/L	18:00:24
2	Pb 220.353†	14799.9	14928.0	0.9989 mg/L	0.9989 mg/L	18:00:24
2	Sb 206.836†	135.4	90.4	-0.0509 mg/L	-0.0509 mg/L	18:00:24
2	Se 196.026†	-57.9	-70.0	-0.1078 mg/L	-0.1078 mg/L	18:00:24
2	Sn 189.927†	-305.9	-341.7	-0.0231 mg/L	-0.0231 mg/L	18:00:24
2	Ti 337.279†	12538893.5	12802321.6	14.95 mg/L	14.95 mg/L	18:00:10
2	Tl 190.801†	-2.0	2.7	-0.1929 mg/L	-0.1929 mg/L	18:00:24
2	V 292.402†	136028.5	139227.9	0.6095 mg/L	0.6095 mg/L	18:00:14
2	Zn 213.857†	138445.3	140201.6	1.017 mg/L	1.017 mg/L	18:00:14

Mean Data: CG30305-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2639278.3	0.977	mg/L	0.0033				0.34%
Ag 328.068†	-1619.3	0.0010	mg/L	0.00032	0.0010	mg/L	0.00032	32.06%
Al 237.313†	2352528.3	260.4	mg/L	0.06	260.4	mg/L	0.06	0.02%
As 188.979†	175.1	0.1308	mg/L	0.00543	0.1308	mg/L	0.00543	4.15%
B 249.677†	-34.1	-0.0177	mg/L	0.00861	-0.0177	mg/L	0.00861	48.74%
B 182.528†	59.4	0.0636	mg/L	0.00193	0.0636	mg/L	0.00193	3.04%
Ba 233.527†	112567.5	0.9839	mg/L	0.00027	0.9839	mg/L	0.00027	0.03%
Be 313.107†	35328.3	0.0124	mg/L	0.00005	0.0124	mg/L	0.00005	0.39%
Ca 315.887†	4282086.1	46.71	mg/L	0.025	46.71	mg/L	0.025	0.05%
Cd 228.802†	113.5	-0.0009	mg/L	0.00021	-0.0009	mg/L	0.00021	22.38%
Co 228.616†	7926.8	0.1266	mg/L	0.00093	0.1266	mg/L	0.00093	0.73%
Cr 267.716†	65708.9	0.5762	mg/L	0.00047	0.5762	mg/L	0.00047	0.08%
Cu 324.752†	54584.8	0.3159	mg/L	0.00035	0.3159	mg/L	0.00035	0.11%
Fe 234.349†	484303.7	322.9	mg/L	1.49	322.9	mg/L	1.49	0.46%
K 766.490†	110757.2	60.54	mg/L	0.235	60.54	mg/L	0.235	0.39%
Li 670.784†	20855.7	0.5777	mg/L	0.00654	0.5777	mg/L	0.00654	1.13%
Mg 279.077†	1175378.2	94.75	mg/L	0.100	94.75	mg/L	0.100	0.11%
Mn 257.610†	3977989.2	5.047	mg/L	0.0022	5.047	mg/L	0.0022	0.04%
Mn 294.920†	2013358.5	5.252	mg/L	0.0018	5.252	mg/L	0.0018	0.03%
Mo 202.031†	299.9	-0.0349	mg/L	0.00191	-0.0349	mg/L	0.00191	5.49%
Na 589.592†	60249.9	11.08	mg/L	0.051	11.08	mg/L	0.051	0.46%
Ni 231.604†	14800.0	0.3316	mg/L	0.00122	0.3316	mg/L	0.00122	0.37%
P 214.914†	11731.4	7.393	mg/L	0.0097	7.393	mg/L	0.0097	0.13%
Pb 220.353†	14965.1	1.002	mg/L	0.0037	1.002	mg/L	0.0037	0.37%
Sb 206.836†	102.0	-0.0452	mg/L	0.00809	-0.0452	mg/L	0.00809	17.91%
Se 196.026†	-74.0	-0.1103	mg/L	0.00356	-0.1103	mg/L	0.00356	3.23%
Sn 189.927†	-340.1	-0.0229	mg/L	0.00030	-0.0229	mg/L	0.00030	1.33%
Sr 407.771†	233296.7	0.2724	mg/L	0.00097	0.2724	mg/L	0.00097	0.35%
Ti 337.279†	12792845.1	14.94	mg/L	0.016	14.94	mg/L	0.016	0.10%
Tl 190.801†	1.9	-0.1931	mg/L	0.00017	-0.1931	mg/L	0.00017	0.09%
V 292.402†	139171.0	0.6093	mg/L	0.00031	0.6093	mg/L	0.00031	0.05%
Zn 213.857†	140260.5	1.018	mg/L	0.0007	1.018	mg/L	0.0007	0.07%

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CG30305-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	597.7	627.7	0.3512	mg/L	0.3512	mg/L	18:05:15
1	Fe 234.349†	491782.0	511185.6	340.8	mg/L	340.8	mg/L	18:05:13
1	K 766.490†	120819.5	124770.3	68.17	mg/L	68.17	mg/L	18:05:13
1	Li 670.784†	30246.2	31675.6	0.8751	mg/L	0.8751	mg/L	18:05:15
1	Na 589.592†	169739.5	175959.3	32.13	mg/L	32.13	mg/L	18:05:13
1	Sr 407.771†	253028.9	262945.3	0.3070	mg/L	0.3070	mg/L	18:05:13
1	Y 371.029	2598474.9	2598474.9	0.962	mg/L			18:05:25
1	Ag 328.068†	35502.8	35038.9	0.2047	mg/L	0.2047	mg/L	18:05:27
1	Al 237.313†	2247244.2	2336372.3	258.6	mg/L	258.6	mg/L	18:05:25
1	As 188.979†	723.8	759.0	0.5552	mg/L	0.5552	mg/L	18:05:37
1	B 182.528†	366.3	390.3	0.4188	mg/L	0.4188	mg/L	18:05:37
1	Ba 233.527†	162933.2	169461.1	1.480	mg/L	1.480	mg/L	18:05:27
1	Be 313.107†	119676.8	125838.4	0.0527	mg/L	0.0527	mg/L	18:05:27
1	Ca 315.887†	4342250.8	4515512.9	49.25	mg/L	49.25	mg/L	18:05:25
1	Cd 228.802†	6382.7	6475.6	0.1974	mg/L	0.1974	mg/L	18:05:37
1	Co 228.616†	26982.1	28288.8	0.5381	mg/L	0.5381	mg/L	18:05:37
1	Cr 267.716†	95534.6	98739.1	0.8644	mg/L	0.8644	mg/L	18:05:27
1	Cu 324.752†	136976.6	137580.1	0.7599	mg/L	0.7599	mg/L	18:05:27
1	Mg 279.077†	1038481.5	1079466.4	87.02	mg/L	87.02	mg/L	18:05:25
1	Mn 257.610†	4682413.0	4851153.1	6.166	mg/L	6.166	mg/L	18:05:25
1	Mn 294.920†	2359304.3	2453757.2	6.401	mg/L	6.401	mg/L	18:05:25
1	Mo 202.031†	8940.0	9256.9	0.3405	mg/L	0.3405	mg/L	18:05:27
1	Ni 231.604†	30306.7	31344.9	0.7009	mg/L	0.7009	mg/L	18:05:27
1	P 214.914†	18224.3	18970.7	11.92	mg/L	11.92	mg/L	18:05:37
1	Pb 220.353†	16069.1	16521.2	1.113	mg/L	1.113	mg/L	18:05:37
1	Sb 206.836†	348.1	314.0	0.0501	mg/L	0.0501	mg/L	18:05:37
1	Se 196.026†	991.6	1019.8	0.6358	mg/L	0.6358	mg/L	18:05:37
1	Sn 189.927†	2332.3	2395.0	0.3835	mg/L	0.3835	mg/L	18:05:37
1	Ti 337.279†	10795796.4	11222521.3	13.10	mg/L	13.10	mg/L	18:05:25
1	Tl 190.801†	384.2	404.1	0.1852	mg/L	0.1852	mg/L	18:05:37
1	V 292.402†	224101.1	233294.6	1.047	mg/L	1.047	mg/L	18:05:27
1	Zn 213.857†	177912.2	183788.9	1.334	mg/L	1.334	mg/L	18:05:27
2	B 249.677†	618.7	640.4	0.3582	mg/L	0.3582	mg/L	18:05:19
2	Fe 234.349†	492537.8	504641.4	336.4	mg/L	336.4	mg/L	18:05:17
2	K 766.490†	121156.8	123317.9	67.38	mg/L	67.38	mg/L	18:05:17
2	Li 670.784†	30692.6	31682.9	0.8753	mg/L	0.8753	mg/L	18:05:19
2	Na 589.592†	170083.1	173785.3	31.73	mg/L	31.73	mg/L	18:05:17
2	Sr 407.771†	253335.3	259493.7	0.3029	mg/L	0.3029	mg/L	18:05:17
2	Y 371.029	2636216.7	2636216.7	0.976	mg/L			18:05:41
2	Ag 328.068†	35118.6	34116.9	0.1995	mg/L	0.1995	mg/L	18:05:43
2	Al 237.313†	2241598.6	2297145.0	254.2	mg/L	254.2	mg/L	18:05:41
2	As 188.979†	718.6	742.9	0.5435	mg/L	0.5435	mg/L	18:05:54
2	B 182.528†	361.2	379.6	0.4074	mg/L	0.4074	mg/L	18:05:54
2	Ba 233.527†	161446.4	165513.1	1.445	mg/L	1.445	mg/L	18:05:43
2	Be 313.107†	118599.1	122953.2	0.0514	mg/L	0.0514	mg/L	18:05:43
2	Ca 315.887†	4329780.6	4438116.0	48.41	mg/L	48.41	mg/L	18:05:41
2	Cd 228.802†	6403.0	6401.4	0.1952	mg/L	0.1952	mg/L	18:05:54
2	Co 228.616†	27023.2	27929.4	0.5314	mg/L	0.5314	mg/L	18:05:54
2	Cr 267.716†	94843.9	96609.7	0.8458	mg/L	0.8458	mg/L	18:05:43
2	Cu 324.752†	136072.3	134615.1	0.7437	mg/L	0.7437	mg/L	18:05:43
2	Mg 279.077†	1034357.9	1059787.1	85.44	mg/L	85.44	mg/L	18:05:41
2	Mn 257.610†	4670025.8	4768779.0	6.061	mg/L	6.061	mg/L	18:05:41
2	Mn 294.920†	2353231.0	2412424.1	6.293	mg/L	6.293	mg/L	18:05:41
2	Mo 202.031†	8809.7	8990.4	0.3299	mg/L	0.3299	mg/L	18:05:43
2	Ni 231.604†	30011.0	30590.9	0.6841	mg/L	0.6841	mg/L	18:05:43
2	P 214.914†	18254.7	18730.6	11.77	mg/L	11.77	mg/L	18:05:54
2	Pb 220.353†	16113.2	16327.2	1.100	mg/L	1.100	mg/L	18:05:54
2	Sb 206.836†	344.4	305.0	0.0472	mg/L	0.0472	mg/L	18:05:54
2	Se 196.026†	990.1	1003.5	0.6255	mg/L	0.6255	mg/L	18:05:54
2	Sn 189.927†	2327.7	2355.6	0.3772	mg/L	0.3772	mg/L	18:05:54
2	Ti 337.279†	10762951.6	11028208.8	12.88	mg/L	12.88	mg/L	18:05:41
2	Tl 190.801†	374.4	388.4	0.1727	mg/L	0.1727	mg/L	18:05:54
2	V 292.402†	221979.1	227785.4	1.022	mg/L	1.022	mg/L	18:05:43
2	Zn 213.857†	176170.6	179356.9	1.302	mg/L	1.302	mg/L	18:05:43

 Mean Data: CG30305-MS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2617345.8	0.969	mg/L	0.0099				1.02%
Ag 328.068†	34577.9	0.2021	mg/L	0.00369	0.2021	mg/L	0.00369	1.83%
Al 237.313†	2316758.6	256.4	mg/L	3.07	256.4	mg/L	3.07	1.20%
As 188.979†	751.0	0.5493	mg/L	0.00826	0.5493	mg/L	0.00826	1.50%
B 249.677†	634.1	0.3547	mg/L	0.00496	0.3547	mg/L	0.00496	1.40%
B 182.528†	384.9	0.4131	mg/L	0.00808	0.4131	mg/L	0.00808	1.96%
Ba 233.527†	167487.1	1.462	mg/L	0.0243	1.462	mg/L	0.0243	1.66%
Be 313.107†	124395.8	0.0521	mg/L	0.00086	0.0521	mg/L	0.00086	1.65%
Ca 315.887†	4476814.5	48.83	mg/L	0.597	48.83	mg/L	0.597	1.22%
Cd 228.802†	6438.5	0.1963	mg/L	0.00159	0.1963	mg/L	0.00159	0.81%
Co 228.616†	28109.1	0.5348	mg/L	0.00475	0.5348	mg/L	0.00475	0.89%
Cr 267.716†	97674.4	0.8551	mg/L	0.01313	0.8551	mg/L	0.01313	1.54%
Cu 324.752†	136097.6	0.7518	mg/L	0.01146	0.7518	mg/L	0.01146	1.53%
Fe 234.349†	507913.5	338.6	mg/L	3.08	338.6	mg/L	3.08	0.91%
K 766.490†	124044.1	67.78	mg/L	0.560	67.78	mg/L	0.560	0.83%
Li 670.784†	31679.3	0.8752	mg/L	0.00014	0.8752	mg/L	0.00014	0.02%
Mg 279.077†	1069626.7	86.23	mg/L	1.121	86.23	mg/L	1.121	1.30%
Mn 257.610†	4809966.0	6.113	mg/L	0.0742	6.113	mg/L	0.0742	1.21%
Mn 294.920†	2433090.7	6.347	mg/L	0.0762	6.347	mg/L	0.0762	1.20%
Mo 202.031†	9123.7	0.3352	mg/L	0.00748	0.3352	mg/L	0.00748	2.23%
Na 589.592†	174872.3	31.93	mg/L	0.280	31.93	mg/L	0.280	0.88%
Ni 231.604†	30967.9	0.6925	mg/L	0.01190	0.6925	mg/L	0.01190	1.72%
P 214.914†	18850.7	11.84	mg/L	0.106	11.84	mg/L	0.106	0.90%
Pb 220.353†	16424.2	1.106	mg/L	0.0091	1.106	mg/L	0.0091	0.82%
Sb 206.836†	309.5	0.0486	mg/L	0.00207	0.0486	mg/L	0.00207	4.27%
Se 196.026†	1011.7	0.6307	mg/L	0.00729	0.6307	mg/L	0.00729	1.16%
Sn 189.927†	2375.3	0.3804	mg/L	0.00450	0.3804	mg/L	0.00450	1.18%
Sr 407.771†	261219.5	0.3049	mg/L	0.00285	0.3049	mg/L	0.00285	0.93%
Ti 337.279†	11125365.0	12.99	mg/L	0.160	12.99	mg/L	0.160	1.23%
Tl 190.801†	396.3	0.1790	mg/L	0.00886	0.1790	mg/L	0.00886	4.95%
V 292.402†	230540.0	1.035	mg/L	0.0175	1.035	mg/L	0.0175	1.70%
Zn 213.857†	181572.9	1.318	mg/L	0.0228	1.318	mg/L	0.0228	1.73%

Sequence No.: 68

Sample ID: CG30305-SD2 @5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 64

Date Collected: 7/5/2013 6:09:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

 Replicate Data: CG30305-SD2 @5

Repl#	Analyte	Net		Calib.	Sample	Analysis
		Intensity	Corrected Intensity			
1	B 249.677†	-22.8	-17.4	-0.0084	mg/L	18:10:45
1	Fe 234.349†	155733.1	163838.7	109.2	mg/L	18:10:43
1	K 766.490†	32136.6	32992.8	18.16	mg/L	18:10:43
1	Li 670.784†	5147.4	5651.1	0.1598	mg/L	18:10:45
1	Na 589.592†	19907.6	20464.9	3.837	mg/L	18:10:45
1	Sr 407.771†	68618.2	72122.1	0.0845	mg/L	18:10:43
1	Y 371.029	2567301.6	2567301.6	0.950	mg/L	18:10:55
1	Ag 328.068†	1272.2	-526.7	0.0016	mg/L	18:10:57
1	Al 237.313†	709979.9	747394.1	82.73	mg/L	18:10:55
1	As 188.979†	54.9	64.4	0.0509	mg/L	18:11:07
1	B 182.528†	18.0	28.5	0.0305	mg/L	18:11:07
1	Ba 233.527†	38803.4	40921.7	0.3597	mg/L	18:10:57
1	Be 313.107†	9275.4	11196.6	0.0042	mg/L	18:10:57
1	Ca 315.887†	1228735.9	1294617.9	14.15	mg/L	18:10:55
1	Cd 228.802†	196.3	47.5	0.0006	mg/L	18:11:07
1	Co 228.616†	2592.6	2969.5	0.0494	mg/L	18:11:07
1	Cr 267.716†	17319.2	17655.1	0.1573	mg/L	18:10:57
1	Cu 324.752†	22044.2	18389.7	0.1089	mg/L	18:10:57
1	Mg 279.077†	331247.4	348499.0	28.11	mg/L	18:10:55
1	Mn 257.610†	1367134.0	1422277.2	1.807	mg/L	18:10:55
1	Mn 294.920†	676677.5	713258.7	1.862	mg/L	18:10:55
1	Mo 202.031†	188.1	162.0	-0.0076	mg/L	18:11:07
1	Ni 231.604†	4596.9	4678.4	0.1059	mg/L	18:10:57
1	P 214.914†	4031.1	4268.1	2.719	mg/L	18:11:07

1	Pb 220.353†	3162.7	3145.4	0.2047 mg/L	0.2047 mg/L	18:11:07
1	Sb 206.836†	85.2	41.8	-0.0087 mg/L	-0.0087 mg/L	18:11:07
1	Se 196.026†	-1.4	-12.4	-0.0253 mg/L	-0.0253 mg/L	18:11:07
1	Sn 189.927†	-146.9	-183.8	-0.0199 mg/L	-0.0199 mg/L	18:11:07
1	Ti 337.279†	3788171.0	3986121.4	4.657 mg/L	4.657 mg/L	18:10:55
1	Tl 190.801†	-4.8	-0.2	-0.0654 mg/L	-0.0654 mg/L	18:11:07
1	V 292.402†	44383.0	47043.2	0.2096 mg/L	0.2096 mg/L	18:10:57
1	Zn 213.857†	43005.4	44100.2	0.3214 mg/L	0.3214 mg/L	18:10:57
2	B 249.677†	-4.0	2.3	0.0026 mg/L	0.0026 mg/L	18:10:50
2	Fe 234.349†	155074.1	163384.8	108.9 mg/L	108.9 mg/L	18:10:48
2	K 766.490†	31907.2	32800.8	18.05 mg/L	18.05 mg/L	18:10:48
2	Li 670.784†	5110.7	5620.4	0.1589 mg/L	0.1589 mg/L	18:10:50
2	Na 589.592†	19741.6	20320.7	3.810 mg/L	3.810 mg/L	18:10:50
2	Sr 407.771†	68435.5	72035.5	0.0844 mg/L	0.0844 mg/L	18:10:48
2	Y 371.029	2563538.2	2563538.2	0.949 mg/L		18:11:10
2	Ag 328.068†	1174.0	-628.2	0.0011 mg/L	0.0011 mg/L	18:11:12
2	Al 237.313†	703230.8	741379.6	82.06 mg/L	82.06 mg/L	18:11:10
2	As 188.979†	57.6	67.3	0.0530 mg/L	0.0530 mg/L	18:11:22
2	B 182.528†	11.2	21.4	0.0228 mg/L	0.0228 mg/L	18:11:22
2	Ba 233.527†	38044.2	40181.8	0.3532 mg/L	0.3532 mg/L	18:11:12
2	Be 313.107†	8991.0	10911.2	0.0041 mg/L	0.0041 mg/L	18:11:12
2	Ca 315.887†	1216428.4	1283548.0	14.03 mg/L	14.03 mg/L	18:11:10
2	Cd 228.802†	197.0	48.5	0.0007 mg/L	0.0007 mg/L	18:11:22
2	Co 228.616†	2593.1	2974.0	0.0496 mg/L	0.0496 mg/L	18:11:22
2	Cr 267.716†	17007.4	17353.3	0.1547 mg/L	0.1547 mg/L	18:11:12
2	Cu 324.752†	21699.9	18060.9	0.1071 mg/L	0.1071 mg/L	18:11:12
2	Mg 279.077†	327505.4	345068.0	27.83 mg/L	27.83 mg/L	18:11:10
2	Mn 257.610†	1354543.2	1411122.6	1.793 mg/L	1.793 mg/L	18:11:10
2	Mn 294.920†	670381.5	707670.2	1.847 mg/L	1.847 mg/L	18:11:10
2	Mo 202.031†	198.3	173.0	-0.0070 mg/L	-0.0070 mg/L	18:11:22
2	Ni 231.604†	4499.1	4582.3	0.1038 mg/L	0.1038 mg/L	18:11:12
2	P 214.914†	3972.7	4212.8	2.685 mg/L	2.685 mg/L	18:11:22
2	Pb 220.353†	3064.3	3046.6	0.1979 mg/L	0.1979 mg/L	18:11:22
2	Sb 206.836†	76.5	32.7	-0.0128 mg/L	-0.0128 mg/L	18:11:22
2	Se 196.026†	-5.9	-17.1	-0.0285 mg/L	-0.0285 mg/L	18:11:22
2	Sn 189.927†	-129.4	-165.7	-0.0173 mg/L	-0.0173 mg/L	18:11:22
2	Ti 337.279†	3751625.1	3953466.1	4.619 mg/L	4.619 mg/L	18:11:10
2	Tl 190.801†	-7.6	-3.2	-0.0681 mg/L	-0.0681 mg/L	18:11:22
2	V 292.402†	43555.8	46240.2	0.2061 mg/L	0.2061 mg/L	18:11:12
2	Zn 213.857†	42181.2	43298.2	0.3155 mg/L	0.3155 mg/L	18:11:12

Mean Data: CG30305--SD2 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2565419.9	0.950	mg/L	0.0010				0.10%
Ag 328.068†	-577.4	0.0013	mg/L	0.00040	0.0013	mg/L	0.00040	29.97%
Al 237.313†	744386.8	82.39	mg/L	0.471	82.39	mg/L	0.471	0.57%
As 188.979†	65.9	0.0520	mg/L	0.00146	0.0520	mg/L	0.00146	2.82%
B 249.677†	-7.6	-0.0029	mg/L	0.00777	-0.0029	mg/L	0.00777	264.48%
B 182.528†	24.9	0.0267	mg/L	0.00543	0.0267	mg/L	0.00543	20.37%
Ba 233.527†	40551.8	0.3564	mg/L	0.00456	0.3564	mg/L	0.00456	1.28%
Be 313.107†	11053.9	0.0041	mg/L	0.00008	0.0041	mg/L	0.00008	1.99%
Ca 315.887†	1289082.9	14.09	mg/L	0.085	14.09	mg/L	0.085	0.61%
Cd 228.802†	48.0	0.0007	mg/L	0.00003	0.0007	mg/L	0.00003	4.20%
Co 228.616†	2971.7	0.0495	mg/L	0.00012	0.0495	mg/L	0.00012	0.25%
Cr 267.716†	17504.2	0.1560	mg/L	0.00186	0.1560	mg/L	0.00186	1.19%
Cu 324.752†	18225.3	0.1080	mg/L	0.00128	0.1080	mg/L	0.00128	1.19%
Fe 234.349†	163611.8	109.1	mg/L	0.21	109.1	mg/L	0.21	0.20%
K 766.490†	32896.8	18.10	mg/L	0.074	18.10	mg/L	0.074	0.41%
Li 670.784†	5635.8	0.1594	mg/L	0.00060	0.1594	mg/L	0.00060	0.37%
Mg 279.077†	346783.5	27.97	mg/L	0.196	27.97	mg/L	0.196	0.70%
Mn 257.610†	1416699.9	1.800	mg/L	0.0101	1.800	mg/L	0.0101	0.56%
Mn 294.920†	710464.5	1.854	mg/L	0.0103	1.854	mg/L	0.0103	0.56%
Mo 202.031†	167.5	-0.0073	mg/L	0.00037	-0.0073	mg/L	0.00037	5.09%
Na 589.592†	20392.8	3.824	mg/L	0.0185	3.824	mg/L	0.0185	0.49%
Ni 231.604†	4630.3	0.1049	mg/L	0.00151	0.1049	mg/L	0.00151	1.44%
P 214.914†	4240.5	2.702	mg/L	0.0245	2.702	mg/L	0.0245	0.91%
Pb 220.353†	3096.0	0.2013	mg/L	0.00483	0.2013	mg/L	0.00483	2.40%
Sb 206.836†	37.3	-0.0108	mg/L	0.00293	-0.0108	mg/L	0.00293	27.21%
Se 196.026†	-14.8	-0.0269	mg/L	0.00224	-0.0269	mg/L	0.00224	8.31%
Sn 189.927†	-174.8	-0.0186	mg/L	0.00185	-0.0186	mg/L	0.00185	9.96%
Sr 407.771†	72078.8	0.0844	mg/L	0.00007	0.0844	mg/L	0.00007	0.08%

Ti 337.279†	3969793.7	4.638 mg/L	0.0270	4.638 mg/L	0.0270	0.58%
Tl 190.801†	-1.7	-0.0668 mg/L	0.00189	-0.0668 mg/L	0.00189	2.83%
V 292.402†	46641.7	0.2079 mg/L	0.00253	0.2079 mg/L	0.00253	1.22%
Zn 213.857†	43699.2	0.3185 mg/L	0.00415	0.3185 mg/L	0.00415	1.30%

Sequence No.: 69
Sample ID: CG30305-PDS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 7/5/2013 6:13:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30305-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	B 249.677†	738.3	753.7	0.4213	mg/L	0.4213	mg/L	18:14:46
1	Fe 234.349†	536199.8	542613.9	361.8	mg/L	361.8	mg/L	18:14:44
1	K 766.490†	152581.5	153590.8	83.88	mg/L	83.88	mg/L	18:14:44
1	Li 670.784†	35832.4	36497.1	1.008	mg/L	1.008	mg/L	18:14:46
1	Na 589.592†	194556.8	196406.9	35.85	mg/L	35.85	mg/L	18:14:44
1	Sr 407.771†	280222.4	283507.4	0.3309	mg/L	0.3309	mg/L	18:14:44
1	Y 371.029	2669073.9	2669073.9	0.988	mg/L			18:14:59
1	Ag 328.068†	38804.3	37403.8	0.2183	mg/L	0.2183	mg/L	18:14:59
1	Al 237.313†	2484101.4	2514278.5	278.3	mg/L	278.3	mg/L	18:14:59
1	As 188.979†	769.9	785.7	0.5745	mg/L	0.5745	mg/L	18:15:09
1	B 182.528†	432.7	447.4	0.4801	mg/L	0.4801	mg/L	18:15:09
1	Ba 233.527†	180796.7	183058.8	1.598	mg/L	1.598	mg/L	18:14:59
1	Be 313.107†	132143.6	135164.0	0.0563	mg/L	0.0563	mg/L	18:14:59
1	Ca 315.887†	4468763.2	4524151.3	49.35	mg/L	49.35	mg/L	18:14:55
1	Cd 228.802†	7047.5	6972.9	0.2126	mg/L	0.2126	mg/L	18:15:09
1	Co 228.616†	29592.1	30188.2	0.5716	mg/L	0.5716	mg/L	18:15:09
1	Cr 267.716†	105670.0	106369.2	0.9309	mg/L	0.9309	mg/L	18:14:59
1	Cu 324.752†	148965.3	145946.3	0.8074	mg/L	0.8074	mg/L	18:14:59
1	Mg 279.077†	1181711.5	1195858.8	96.40	mg/L	96.40	mg/L	18:14:59
1	Mn 257.610†	4867006.7	4909215.6	6.236	mg/L	6.236	mg/L	18:14:59
1	Mn 294.920†	2446717.2	2477348.5	6.462	mg/L	6.462	mg/L	18:14:59
1	Mo 202.031†	10377.0	10465.3	0.3885	mg/L	0.3885	mg/L	18:14:59
1	Ni 231.604†	32997.0	33234.1	0.7431	mg/L	0.7431	mg/L	18:14:59
1	P 214.914†	20000.1	20266.7	12.73	mg/L	12.73	mg/L	18:15:09
1	Pb 220.353†	15771.4	15778.1	1.057	mg/L	1.057	mg/L	18:15:09
1	Sb 206.836†	1066.9	1031.8	0.3796	mg/L	0.3796	mg/L	18:15:09
1	Se 196.026†	1136.7	1139.4	0.7136	mg/L	0.7136	mg/L	18:15:09
1	Sn 189.927†	2642.9	2645.2	0.4206	mg/L	0.4206	mg/L	18:15:09
1	Ti 337.279†	12897918.1	13052987.9	15.24	mg/L	15.24	mg/L	18:14:55
1	Tl 190.801†	433.0	443.0	0.2101	mg/L	0.2101	mg/L	18:15:09
1	V 292.402†	244298.0	247571.7	1.109	mg/L	1.109	mg/L	18:14:59
1	Zn 213.857†	197588.0	198808.7	1.443	mg/L	1.443	mg/L	18:14:59
2	B 249.677†	752.4	778.0	0.4349	mg/L	0.4349	mg/L	18:14:50
2	Fe 234.349†	538419.2	552056.5	368.1	mg/L	368.1	mg/L	18:14:48
2	K 766.490†	153486.5	156558.2	85.50	mg/L	85.50	mg/L	18:14:48
2	Li 670.784†	35908.8	37054.4	1.023	mg/L	1.023	mg/L	18:14:50
2	Na 589.592†	195440.4	199913.4	36.49	mg/L	36.49	mg/L	18:14:48
2	Sr 407.771†	281411.4	288472.1	0.3367	mg/L	0.3367	mg/L	18:14:48
2	Y 371.029	2634279.9	2634279.9	0.975	mg/L			18:15:16
2	Ag 328.068†	38274.2	37378.9	0.2183	mg/L	0.2183	mg/L	18:15:16
2	Al 237.313†	2443878.2	2506239.2	277.4	mg/L	277.4	mg/L	18:15:16
2	As 188.979†	752.5	778.3	0.5691	mg/L	0.5691	mg/L	18:15:26
2	B 182.528†	427.4	447.8	0.4806	mg/L	0.4806	mg/L	18:15:26
2	Ba 233.527†	177720.3	182320.9	1.592	mg/L	1.592	mg/L	18:15:16
2	Be 313.107†	129889.7	134619.3	0.0559	mg/L	0.0559	mg/L	18:15:16
2	Ca 315.887†	4537896.4	4654767.3	50.77	mg/L	50.77	mg/L	18:15:12
2	Cd 228.802†	7065.2	7085.2	0.2160	mg/L	0.2160	mg/L	18:15:26
2	Co 228.616†	29777.5	30773.9	0.5824	mg/L	0.5824	mg/L	18:15:26
2	Cr 267.716†	103837.6	105902.7	0.9269	mg/L	0.9269	mg/L	18:15:16
2	Cu 324.752†	146925.6	145845.9	0.8074	mg/L	0.8074	mg/L	18:15:16
2	Mg 279.077†	1159741.1	1189126.8	95.86	mg/L	95.86	mg/L	18:15:16
2	Mn 257.610†	4788484.8	4893757.9	6.215	mg/L	6.215	mg/L	18:15:16
2	Mn 294.920†	2407050.4	2469380.1	6.441	mg/L	6.441	mg/L	18:15:16
2	Mo 202.031†	10242.3	10465.9	0.3876	mg/L	0.3876	mg/L	18:15:16
2	Ni 231.604†	32594.3	33262.2	0.7438	mg/L	0.7438	mg/L	18:15:16
2	P 214.914†	20076.5	20612.3	12.95	mg/L	12.95	mg/L	18:15:26
2	Pb 220.353†	15952.9	16175.0	1.085	mg/L	1.085	mg/L	18:15:26

2	Sb 206.836†	1063.7	1042.8	0.3830 mg/L	0.3830 mg/L	18:15:26
2	Se 196.026†	1147.0	1165.2	0.7300 mg/L	0.7300 mg/L	18:15:26
2	Sn 189.927†	2648.5	2686.3	0.4276 mg/L	0.4276 mg/L	18:15:26
2	Ti 337.279†	13085344.0	13417561.2	15.67 mg/L	15.67 mg/L	18:15:12
2	Tl 190.801†	424.9	440.4	0.2039 mg/L	0.2039 mg/L	18:15:26
2	V 292.402†	240543.4	246987.3	1.105 mg/L	1.105 mg/L	18:15:16
2	Zn 213.857†	194315.1	198093.8	1.438 mg/L	1.438 mg/L	18:15:16

Mean Data: CG30305-PDS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2651676.9	0.982	mg/L	0.0091			0.93%
Ag 328.068†	37391.4	0.2183	mg/L	0.00001	0.2183	0.00001	0.01%
Al 237.313†	2510258.8	277.8	mg/L	0.63	277.8	0.63	0.23%
As 188.979†	782.0	0.5718	mg/L	0.00385	0.5718	0.00385	0.67%
B 249.677†	765.8	0.4281	mg/L	0.00957	0.4281	0.00957	2.23%
B 182.528†	447.6	0.4804	mg/L	0.00029	0.4804	0.00029	0.06%
Ba 233.527†	182689.9	1.595	mg/L	0.0045	1.595	0.0045	0.29%
Be 313.107†	134891.6	0.0561	mg/L	0.00024	0.0561	0.00024	0.43%
Ca 315.887†	4589459.3	50.06	mg/L	1.007	50.06	1.007	2.01%
Cd 228.802†	7029.0	0.2143	mg/L	0.00240	0.2143	0.00240	1.12%
Co 228.616†	30481.1	0.5770	mg/L	0.00764	0.5770	0.00764	1.32%
Cr 267.716†	106136.0	0.9289	mg/L	0.00288	0.9289	0.00288	0.31%
Cu 324.752†	145896.1	0.8074	mg/L	0.00002	0.8074	0.00002	0.00%
Fe 234.349†	547335.2	364.9	mg/L	4.45	364.9	4.45	1.22%
K 766.490†	155074.5	84.69	mg/L	1.144	84.69	1.144	1.35%
Li 670.784†	36775.8	1.015	mg/L	0.0108	1.015	0.0108	1.07%
Mg 279.077†	1192492.8	96.13	mg/L	0.384	96.13	0.384	0.40%
Mn 257.610†	4901486.7	6.225	mg/L	0.0151	6.225	0.0151	0.24%
Mn 294.920†	2473364.3	6.452	mg/L	0.0147	6.452	0.0147	0.23%
Mo 202.031†	10465.6	0.3880	mg/L	0.00065	0.3880	0.00065	0.17%
Na 589.592†	198160.1	36.17	mg/L	0.451	36.17	0.451	1.25%
Ni 231.604†	33248.1	0.7435	mg/L	0.00044	0.7435	0.00044	0.06%
P 214.914†	20439.5	12.84	mg/L	0.153	12.84	0.153	1.19%
Pb 220.353†	15976.6	1.071	mg/L	0.0199	1.071	0.0199	1.86%
Sb 206.836†	1037.3	0.3813	mg/L	0.00239	0.3813	0.00239	0.63%
Se 196.026†	1152.3	0.7218	mg/L	0.01161	0.7218	0.01161	1.61%
Sn 189.927†	2665.8	0.4241	mg/L	0.00493	0.4241	0.00493	1.16%
Sr 407.771†	285989.7	0.3338	mg/L	0.00409	0.3338	0.00409	1.23%
Ti 337.279†	13235274.6	15.45	mg/L	0.301	15.45	0.301	1.95%
Tl 190.801†	441.7	0.2070	mg/L	0.00440	0.2070	0.00440	2.12%
V 292.402†	247279.5	1.107	mg/L	0.0025	1.107	0.0025	0.23%
Zn 213.857†	198451.3	1.440	mg/L	0.0039	1.440	0.0039	0.27%

Sequence No.: 70
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 6:18:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	796.2	864.3	0.4830 mg/L	0.4830 mg/L	18:20:27
1	Fe 234.349†	3364.3	3617.7	2.408 mg/L	2.408 mg/L	18:20:27
1	K 766.490†	42984.4	45491.8	24.97 mg/L	24.97 mg/L	18:20:16
1	Li 670.784†	16427.2	17933.6	0.4974 mg/L	0.4974 mg/L	18:20:16
1	Na 589.592†	126951.5	136292.6	24.91 mg/L	24.91 mg/L	18:20:16
1	Sr 407.771†	38265.9	41155.5	0.0484 mg/L	0.0484 mg/L	18:20:16
1	Y 371.029	2507089.6	2507089.6	0.928 mg/L		18:20:43
1	Ag 328.068†	44582.7	46166.4	0.2578 mg/L	0.2578 mg/L	18:20:45
1	Al 237.313†	20352.3	22357.2	2.489 mg/L	2.489 mg/L	18:20:45
1	As 188.979†	623.3	678.1	0.4972 mg/L	0.4972 mg/L	18:20:55
1	B 182.528†	418.5	460.5	0.4941 mg/L	0.4941 mg/L	18:20:55
1	Ba 233.527†	52869.2	57056.1	0.5002 mg/L	0.5002 mg/L	18:20:45
1	Be 313.107†	104117.8	113610.3	0.0503 mg/L	0.0503 mg/L	18:20:45
1	Ca 315.887†	410922.7	444586.9	4.883 mg/L	4.883 mg/L	18:20:43
1	Cd 228.802†	7613.1	8043.1	0.2521 mg/L	0.2521 mg/L	18:20:55
1	Co 228.616†	22878.2	24889.8	0.4972 mg/L	0.4972 mg/L	18:20:45
1	Cr 267.716†	53814.9	57411.7	0.5042 mg/L	0.5042 mg/L	18:20:45

1	Cu	324.752†	90741.3	92958.0	0.5048 mg/L	0.5048 mg/L	18:20:45
1	Mg	279.077†	57256.3	61682.2	4.997 mg/L	4.997 mg/L	18:20:45
1	Mn	257.610†	379180.4	392440.8	0.5060 mg/L	0.5060 mg/L	18:20:45
1	Mn	294.920†	177702.5	192781.7	0.5043 mg/L	0.5043 mg/L	18:20:45
1	Mo	202.031†	10898.0	11705.1	0.4967 mg/L	0.4967 mg/L	18:20:55
1	Ni	231.604†	20863.1	22319.0	0.4999 mg/L	0.4999 mg/L	18:20:45
1	P	214.914†	7198.8	7782.8	4.913 mg/L	4.913 mg/L	18:20:55
1	Pb	220.353†	6764.5	7105.7	0.5019 mg/L	0.5019 mg/L	18:20:55
1	Sb	206.836†	1034.1	1066.3	0.5026 mg/L	0.5026 mg/L	18:20:55
1	Se	196.026†	1358.9	1453.1	1.000 mg/L	1.000 mg/L	18:20:55
1	Sn	189.927†	3177.1	3393.5	0.5039 mg/L	0.5039 mg/L	18:20:55
1	Ti	337.279†	397414.7	428778.1	0.5054 mg/L	0.5054 mg/L	18:20:45
1	Tl	190.801†	478.0	519.7	0.5028 mg/L	0.5028 mg/L	18:20:55
1	V	292.402†	102002.5	110241.6	0.5136 mg/L	0.5136 mg/L	18:20:45
1	Zn	213.857†	64243.4	68067.8	0.4993 mg/L	0.4993 mg/L	18:20:45
2	B	249.677†	800.9	866.5	0.4842 mg/L	0.4842 mg/L	18:20:39
2	Fe	234.349†	3374.8	3617.2	2.407 mg/L	2.407 mg/L	18:20:39
2	K	766.490†	43263.9	45640.7	25.05 mg/L	25.05 mg/L	18:20:29
2	Li	670.784†	16563.9	18022.7	0.4998 mg/L	0.4998 mg/L	18:20:29
2	Na	589.592†	127674.0	136622.0	24.97 mg/L	24.97 mg/L	18:20:29
2	Sr	407.771†	38615.1	41395.9	0.0486 mg/L	0.0486 mg/L	18:20:29
2	Y	371.029	2515301.2	2515301.2	0.931 mg/L		18:20:58
2	Ag	328.068†	44216.1	45616.0	0.2547 mg/L	0.2547 mg/L	18:21:00
2	Al	237.313†	20254.1	22180.2	2.470 mg/L	2.470 mg/L	18:21:00
2	As	188.979†	612.8	664.7	0.4875 mg/L	0.4875 mg/L	18:21:10
2	B	182.528†	418.3	458.8	0.4923 mg/L	0.4923 mg/L	18:21:10
2	Ba	233.527†	52643.3	56627.6	0.4965 mg/L	0.4965 mg/L	18:21:00
2	Be	313.107†	103535.2	112618.4	0.0498 mg/L	0.0498 mg/L	18:21:00
2	Ca	315.887†	412161.4	444471.7	4.882 mg/L	4.882 mg/L	18:20:58
2	Cd	228.802†	7528.6	7925.4	0.2485 mg/L	0.2485 mg/L	18:21:10
2	Co	228.616†	22709.9	24628.7	0.4920 mg/L	0.4920 mg/L	18:21:00
2	Cr	267.716†	53381.9	56757.5	0.4985 mg/L	0.4985 mg/L	18:21:00
2	Cu	324.752†	90240.8	92101.5	0.5001 mg/L	0.5001 mg/L	18:21:00
2	Mg	279.077†	57002.0	61207.7	4.958 mg/L	4.958 mg/L	18:21:00
2	Mn	257.610†	376815.7	388567.9	0.5011 mg/L	0.5011 mg/L	18:21:00
2	Mn	294.920†	176538.0	190906.1	0.4994 mg/L	0.4994 mg/L	18:21:00
2	Mo	202.031†	10809.2	11571.4	0.4910 mg/L	0.4910 mg/L	18:21:10
2	Ni	231.604†	20715.3	22086.9	0.4947 mg/L	0.4947 mg/L	18:21:00
2	P	214.914†	7107.2	7659.1	4.835 mg/L	4.835 mg/L	18:21:10
2	Pb	220.353†	6686.3	6997.9	0.4943 mg/L	0.4943 mg/L	18:21:10
2	Sb	206.836†	1025.3	1053.1	0.4965 mg/L	0.4965 mg/L	18:21:10
2	Se	196.026†	1364.1	1453.9	1.001 mg/L	1.001 mg/L	18:21:10
2	Sn	189.927†	3151.7	3355.1	0.4982 mg/L	0.4982 mg/L	18:21:10
2	Ti	337.279†	394653.3	424415.0	0.5003 mg/L	0.5003 mg/L	18:21:00
2	Tl	190.801†	461.9	500.8	0.4844 mg/L	0.4844 mg/L	18:21:10
2	V	292.402†	101336.1	109167.3	0.5086 mg/L	0.5086 mg/L	18:21:00
2	Zn	213.857†	63809.1	67375.4	0.4943 mg/L	0.4943 mg/L	18:21:00

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2511195.4	0.930 mg/L	0.0021			0.23%
Ag 328.068†	45891.2	0.2562 mg/L	0.00216	0.2562 mg/L	0.00216	0.84%
QC value within limits for Ag 328.068 Recovery = 102.50%						
Al 237.313†	22268.7	2.480 mg/L	0.0139	2.480 mg/L	0.0139	0.56%
QC value within limits for Al 237.313 Recovery = 99.19%						
As 188.979†	671.4	0.4923 mg/L	0.00690	0.4923 mg/L	0.00690	1.40%
QC value within limits for As 188.979 Recovery = 98.47%						
B 249.677†	865.4	0.4836 mg/L	0.00086	0.4836 mg/L	0.00086	0.18%
QC value within limits for B 249.677 Recovery = 96.72%						
B 182.528†	459.6	0.4932 mg/L	0.00130	0.4932 mg/L	0.00130	0.26%
QC value within limits for B 182.528 Recovery = 98.65%						
Ba 233.527†	56841.9	0.4984 mg/L	0.00264	0.4984 mg/L	0.00264	0.53%
QC value within limits for Ba 233.527 Recovery = 99.67%						
Be 313.107†	113114.4	0.0501 mg/L	0.00031	0.0501 mg/L	0.00031	0.62%
QC value within limits for Be 313.107 Recovery = 100.12%						
Ca 315.887†	444529.3	4.882 mg/L	0.0009	4.882 mg/L	0.0009	0.02%
QC value within limits for Ca 315.887 Recovery = 97.64%						
Cd 228.802†	7984.2	0.2503 mg/L	0.00260	0.2503 mg/L	0.00260	1.04%
QC value within limits for Cd 228.802 Recovery = 100.12%						
Co 228.616†	24759.2	0.4946 mg/L	0.00369	0.4946 mg/L	0.00369	0.75%
QC value within limits for Co 228.616 Recovery = 98.91%						

Cr	267.716†	57084.6	0.5014 mg/L	0.00404	0.5014 mg/L	0.00404	0.80%
	QC value within limits for Cr	267.716	Recovery =	100.27%			
Cu	324.752†	92529.8	0.5024 mg/L	0.00326	0.5024 mg/L	0.00326	0.65%
	QC value within limits for Cu	324.752	Recovery =	100.49%			
Fe	234.349†	3617.5	2.408 mg/L	0.0002	2.408 mg/L	0.0002	0.01%
	QC value within limits for Fe	234.349	Recovery =	96.30%			
K	766.490†	45566.3	25.01 mg/L	0.057	25.01 mg/L	0.057	0.23%
	QC value within limits for K	766.490	Recovery =	100.03%			
Li	670.784†	17978.1	0.4986 mg/L	0.00173	0.4986 mg/L	0.00173	0.35%
	QC value within limits for Li	670.784	Recovery =	99.72%			
Mg	279.077†	61444.9	4.977 mg/L	0.0270	4.977 mg/L	0.0270	0.54%
	QC value within limits for Mg	279.077	Recovery =	99.55%			
Mn	257.610†	390504.4	0.5035 mg/L	0.00352	0.5035 mg/L	0.00352	0.70%
	QC value within limits for Mn	257.610	Recovery =	100.71%			
Mn	294.920†	191843.9	0.5018 mg/L	0.00346	0.5018 mg/L	0.00346	0.69%
	QC value within limits for Mn	294.920	Recovery =	100.36%			
Mo	202.031†	11638.3	0.4938 mg/L	0.00400	0.4938 mg/L	0.00400	0.81%
	QC value within limits for Mo	202.031	Recovery =	98.77%			
Na	589.592†	136457.3	24.94 mg/L	0.042	24.94 mg/L	0.042	0.17%
	QC value within limits for Na	589.592	Recovery =	99.76%			
Ni	231.604†	22202.9	0.4973 mg/L	0.00366	0.4973 mg/L	0.00366	0.74%
	QC value within limits for Ni	231.604	Recovery =	99.46%			
P	214.914†	7721.0	4.874 mg/L	0.0547	4.874 mg/L	0.0547	1.12%
	QC value within limits for P	214.914	Recovery =	97.48%			
Pb	220.353†	7051.8	0.4981 mg/L	0.00538	0.4981 mg/L	0.00538	1.08%
	QC value within limits for Pb	220.353	Recovery =	99.61%			
Sb	206.836†	1059.7	0.4996 mg/L	0.00434	0.4996 mg/L	0.00434	0.87%
	QC value within limits for Sb	206.836	Recovery =	99.91%			
Se	196.026†	1453.5	1.001 mg/L	0.0004	1.001 mg/L	0.0004	0.04%
	QC value within limits for Se	196.026	Recovery =	100.08%			
Sn	189.927†	3374.3	0.5011 mg/L	0.00402	0.5011 mg/L	0.00402	0.80%
	QC value within limits for Sn	189.927	Recovery =	100.21%			
Sr	407.771†	41275.7	0.0485 mg/L	0.00020	0.0485 mg/L	0.00020	0.41%
	QC value within limits for Sr	407.771	Recovery =	96.99%			
Ti	337.279†	426596.6	0.5028 mg/L	0.00360	0.5028 mg/L	0.00360	0.72%
	QC value within limits for Ti	337.279	Recovery =	100.56%			
Tl	190.801†	510.3	0.4936 mg/L	0.01299	0.4936 mg/L	0.01299	2.63%
	QC value within limits for Tl	190.801	Recovery =	98.73%			
V	292.402†	109704.4	0.5111 mg/L	0.00352	0.5111 mg/L	0.00352	0.69%
	QC value within limits for V	292.402	Recovery =	102.22%			
Zn	213.857†	67721.6	0.4968 mg/L	0.00357	0.4968 mg/L	0.00357	0.72%
	QC value within limits for Zn	213.857	Recovery =	99.36%			

All analyte(s) passed QC.

Sequence No.: 71
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 6:22:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	3.7	10.4	0.0071 mg/L	0.0071 mg/L	18:24:40
1	Fe 234.349†	37.3	33.0	0.0326 mg/L	0.0326 mg/L	18:24:40
1	K 766.490†	1075.0	328.7	0.3535 mg/L	0.3535 mg/L	18:24:30
1	Li 670.784†	-379.9	-169.6	-0.0002 mg/L	-0.0002 mg/L	18:24:30
1	Na 589.592†	114.3	-357.8	0.0481 mg/L	0.0481 mg/L	18:24:30
1	Sr 407.771†	22.6	-46.4	0.0003 mg/L	0.0003 mg/L	18:24:30
1	Y 371.029	2532385.9	2532385.9	0.938 mg/L		18:24:56
1	Ag 328.068†	1650.1	-105.2	0.0012 mg/L	0.0012 mg/L	18:24:59
1	Al 237.313†	-330.4	78.0	0.0220 mg/L	0.0220 mg/L	18:24:59
1	As 188.979†	-1.5	5.0	0.0080 mg/L	0.0080 mg/L	18:25:09
1	B 182.528†	-9.4	-0.5	-0.0007 mg/L	-0.0007 mg/L	18:25:09
1	Ba 233.527†	-74.8	17.3	0.0033 mg/L	0.0033 mg/L	18:25:09
1	Be 313.107†	-1273.3	79.9	0.0004 mg/L	0.0004 mg/L	18:24:59
1	Ca 315.887†	-1852.4	-100.2	0.0348 mg/L	0.0348 mg/L	18:24:59
1	Cd 228.802†	152.9	4.1	0.0011 mg/L	0.0011 mg/L	18:25:09
1	Co 228.616†	-257.6	-33.0	-0.0007 mg/L	-0.0007 mg/L	18:25:09
1	Cr 267.716†	515.9	-15.9	0.0033 mg/L	0.0033 mg/L	18:24:59
1	Cu 324.752†	4160.0	-365.9	0.0024 mg/L	0.0024 mg/L	18:24:59

1	Mg	279.077†	64.5	65.4	0.0305	mg/L	0.0305	mg/L	18:24:59
1	Mn	257.610†	15245.7	188.5	0.0019	mg/L	0.0019	mg/L	18:24:59
1	Mn	294.920†	-1381.5	-141.2	0.0011	mg/L	0.0011	mg/L	18:24:59
1	Mo	202.031†	62.4	30.6	0.0038	mg/L	0.0038	mg/L	18:25:09
1	Ni	231.604†	161.8	14.5	0.0020	mg/L	0.0020	mg/L	18:24:59
1	P	214.914†	-27.9	-2.7	0.0453	mg/L	0.0453	mg/L	18:25:09
1	Pb	220.353†	127.5	-46.1	-0.0034	mg/L	-0.0034	mg/L	18:25:09
1	Sb	206.836†	49.8	5.3	0.0067	mg/L	0.0067	mg/L	18:25:09
1	Se	196.026†	19.5	9.9	0.0118	mg/L	0.0118	mg/L	18:25:09
1	Sn	189.927†	17.1	-11.1	-0.0030	mg/L	-0.0030	mg/L	18:25:09
1	Ti	337.279†	-248.8	354.4	0.0053	mg/L	0.0053	mg/L	18:24:59
1	Tl	190.801†	-2.8	1.8	0.0029	mg/L	0.0029	mg/L	18:25:09
1	V	292.402†	-223.5	109.9	0.0051	mg/L	0.0051	mg/L	18:24:59
1	Zn	213.857†	1176.8	109.7	0.0035	mg/L	0.0035	mg/L	18:25:09
2	B	249.677†	-4.1	2.1	0.0024	mg/L	0.0024	mg/L	18:24:53
2	Fe	234.349†	23.6	18.5	0.0229	mg/L	0.0229	mg/L	18:24:53
2	K	766.490†	885.5	132.0	0.2463	mg/L	0.2463	mg/L	18:24:43
2	Li	670.784†	-280.5	-65.3	0.0027	mg/L	0.0027	mg/L	18:24:43
2	Na	589.592†	148.3	-320.7	0.0549	mg/L	0.0549	mg/L	18:24:43
2	Sr	407.771†	70.2	4.8	0.0004	mg/L	0.0004	mg/L	18:24:43
2	Y	371.029	2518053.7	2518053.7	0.932	mg/L			18:25:11
2	Ag	328.068†	1654.9	-90.0	0.0013	mg/L	0.0013	mg/L	18:25:13
2	Al	237.313†	-459.1	-62.0	0.0065	mg/L	0.0065	mg/L	18:25:13
2	As	188.979†	0.3	7.0	0.0094	mg/L	0.0094	mg/L	18:25:24
2	B	182.528†	-5.4	3.8	0.0039	mg/L	0.0039	mg/L	18:25:24
2	Ba	233.527†	-82.8	8.2	0.0032	mg/L	0.0032	mg/L	18:25:24
2	Be	313.107†	-1254.0	92.9	0.0004	mg/L	0.0004	mg/L	18:25:13
2	Ca	315.887†	-1878.3	-139.2	0.0344	mg/L	0.0344	mg/L	18:25:13
2	Cd	228.802†	157.5	9.9	0.0013	mg/L	0.0013	mg/L	18:25:24
2	Co	228.616†	-227.1	-1.8	0.0000	mg/L	0.0000	mg/L	18:25:24
2	Cr	267.716†	527.2	-0.8	0.0034	mg/L	0.0034	mg/L	18:25:13
2	Cu	324.752†	4184.6	-314.2	0.0027	mg/L	0.0027	mg/L	18:25:13
2	Mg	279.077†	39.8	39.3	0.0284	mg/L	0.0284	mg/L	18:25:13
2	Mn	257.610†	15294.9	333.8	0.0021	mg/L	0.0021	mg/L	18:25:13
2	Mn	294.920†	-1177.1	69.7	0.0017	mg/L	0.0017	mg/L	18:25:13
2	Mo	202.031†	51.2	19.0	0.0033	mg/L	0.0033	mg/L	18:25:24
2	Ni	231.604†	159.0	12.5	0.0019	mg/L	0.0019	mg/L	18:25:13
2	P	214.914†	-16.7	9.2	0.0527	mg/L	0.0527	mg/L	18:25:24
2	Pb	220.353†	172.2	2.5	0.0000	mg/L	0.0000	mg/L	18:25:24
2	Sb	206.836†	52.5	8.5	0.0082	mg/L	0.0082	mg/L	18:25:24
2	Se	196.026†	13.6	3.7	0.0076	mg/L	0.0076	mg/L	18:25:24
2	Sn	189.927†	31.5	4.5	-0.0007	mg/L	-0.0007	mg/L	18:25:24
2	Ti	337.279†	-283.4	315.8	0.0053	mg/L	0.0053	mg/L	18:25:13
2	Tl	190.801†	-2.6	2.0	0.0031	mg/L	0.0031	mg/L	18:25:24
2	V	292.402†	-322.9	2.0	0.0046	mg/L	0.0046	mg/L	18:25:13
2	Zn	213.857†	1168.1	107.6	0.0035	mg/L	0.0035	mg/L	18:25:24

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2525219.8	0.935	mg/L	0.0038			0.40%
Ag 328.068†	-97.6	0.0012	mg/L	0.00006	0.0012	0.00006	4.81%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 237.313†	8.0	0.0142	mg/L	0.01096	0.0142	0.01096	76.96%
QC value within limits for Al 237.313 Recovery = Not calculated							
As 188.979†	6.0	0.0087	mg/L	0.00101	0.0087	0.00101	11.61%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	6.2	0.0047	mg/L	0.00328	0.0047	0.00328	69.28%
QC value within limits for B 249.677 Recovery = Not calculated							
B 182.528†	1.6	0.0016	mg/L	0.00325	0.0016	0.00325	197.58%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	12.8	0.0032	mg/L	0.00006	0.0032	0.00006	1.72%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated							
Be 313.107†	86.4	0.0004	mg/L	0.00000	0.0004	0.00000	0.97%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	-119.7	0.0346	mg/L	0.00030	0.0346	0.00030	0.87%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated							
Cd 228.802†	7.0	0.0012	mg/L	0.00013	0.0012	0.00013	10.50%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated							
Co 228.616†	-17.4	-0.0003	mg/L	0.00044	-0.0003	0.00044	129.32%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-8.3	0.0033	mg/L	0.00009	0.0033	0.00009	2.81%

	QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu	324.752†	-340.0	0.0026 mg/L	0.00020	0.0026 mg/L	0.00020 7.63%
	QC value within limits for Cu 324.752	Recovery = Not calculated				
Fe	234.349†	25.8	0.0278 mg/L	0.00685	0.0278 mg/L	0.00685 24.66%
	QC value greater than the upper limit for Fe 234.349	Recovery = Not calculated				
K	766.490†	230.4	0.2999 mg/L	0.07579	0.2999 mg/L	0.07579 25.28%
	QC value greater than the upper limit for K 766.490	Recovery = Not calculated				
Li	670.784†	-117.4	0.0012 mg/L	0.00203	0.0012 mg/L	0.00203 165.91%
	QC value within limits for Li 670.784	Recovery = Not calculated				
Mg	279.077†	52.3	0.0294 mg/L	0.00149	0.0294 mg/L	0.00149 5.06%
	QC value greater than the upper limit for Mg 279.077	Recovery = Not calculated				
Mn	257.610†	261.1	0.0020 mg/L	0.00013	0.0020 mg/L	0.00013 6.61%
	QC value within limits for Mn 257.610	Recovery = Not calculated				
Mn	294.920†	-35.7	0.0014 mg/L	0.00039	0.0014 mg/L	0.00039 27.36%
	QC value within limits for Mn 294.920	Recovery = Not calculated				
Mo	202.031†	24.8	0.0036 mg/L	0.00035	0.0036 mg/L	0.00035 9.86%
	QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated				
Na	589.592†	-339.2	0.0515 mg/L	0.00478	0.0515 mg/L	0.00478 9.27%
	QC value within limits for Na 589.592	Recovery = Not calculated				
Ni	231.604†	13.5	0.0019 mg/L	0.00003	0.0019 mg/L	0.00003 1.66%
	QC value within limits for Ni 231.604	Recovery = Not calculated				
P	214.914†	3.3	0.0490 mg/L	0.00525	0.0490 mg/L	0.00525 10.72%
	QC value greater than the upper limit for P 214.914	Recovery = Not calculated				
Pb	220.353†	-21.8	-0.0017 mg/L	0.00243	-0.0017 mg/L	0.00243 144.55%
	QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb	206.836†	6.9	0.0074 mg/L	0.00108	0.0074 mg/L	0.00108 14.46%
	QC value within limits for Sb 206.836	Recovery = Not calculated				
Se	196.026†	6.8	0.0097 mg/L	0.00300	0.0097 mg/L	0.00300 30.87%
	QC value within limits for Se 196.026	Recovery = Not calculated				
Sn	189.927†	-3.3	-0.0019 mg/L	0.00163	-0.0019 mg/L	0.00163 86.74%
	QC value within limits for Sn 189.927	Recovery = Not calculated				
Sr	407.771†	-20.8	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004 12.29%
	QC value within limits for Sr 407.771	Recovery = Not calculated				
Ti	337.279†	335.1	0.0053 mg/L	0.00003	0.0053 mg/L	0.00003 0.60%
	QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated				
Tl	190.801†	1.9	0.0030 mg/L	0.00013	0.0030 mg/L	0.00013 4.28%
	QC value within limits for Tl 190.801	Recovery = Not calculated				
V	292.402†	55.9	0.0048 mg/L	0.00035	0.0048 mg/L	0.00035 7.27%
	QC value greater than the upper limit for V 292.402	Recovery = Not calculated				
Zn	213.857†	108.7	0.0035 mg/L	0.00001	0.0035 mg/L	0.00001 0.31%
	QC value within limits for Zn 213.857	Recovery = Not calculated				
QC Failed. Continue with analysis.						

Sequence No.: 72
Sample ID: 1307030-18 @3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 7/5/2013 6:27:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307030-18 @3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-19.4	-13.0	-0.0060 mg/L	-0.0060 mg/L	18:28:43
1	Fe 234.349†	291147.1	293382.4	195.6 mg/L	195.6 mg/L	18:28:41
1	K 766.490†	72267.3	72006.0	39.42 mg/L	39.42 mg/L	18:28:41
1	Li 670.784†	8703.2	9005.8	0.2520 mg/L	0.2520 mg/L	18:28:43
1	Na 589.592†	3699.9	3248.7	0.7043 mg/L	0.7043 mg/L	18:28:43
1	Sr 407.771†	60660.4	61057.0	0.0716 mg/L	0.0716 mg/L	18:28:41
1	Y 371.029	2680394.2	2680394.2	0.992 mg/L		18:28:53
1	Ag 328.068†	965.8	-891.9	0.0018 mg/L	0.0018 mg/L	18:28:56
1	Al 237.313†	1383242.1	1394324.7	154.3 mg/L	154.3 mg/L	18:28:53
1	As 188.979†	29.0	35.8	0.0298 mg/L	0.0298 mg/L	18:29:06
1	B 182.528†	28.0	37.7	0.0404 mg/L	0.0404 mg/L	18:29:06
1	Ba 233.527†	104029.4	104927.6	0.9173 mg/L	0.9173 mg/L	18:28:56
1	Be 313.107†	22984.1	24599.1	0.0083 mg/L	0.0083 mg/L	18:28:56
1	Ca 315.887†	1146446.8	1157150.9	12.65 mg/L	12.65 mg/L	18:28:53
1	Cd 228.802†	229.1	71.8	-0.0001 mg/L	-0.0001 mg/L	18:29:06
1	Co 228.616†	5664.5	5949.9	0.0934 mg/L	0.0934 mg/L	18:29:06
1	Cr 267.716†	27748.1	27395.5	0.2422 mg/L	0.2422 mg/L	18:28:56
1	Cu 324.752†	44838.8	40381.2	0.2359 mg/L	0.2359 mg/L	18:28:56
1	Mg 279.077†	633692.0	638568.5	51.49 mg/L	51.49 mg/L	18:28:53

1	Mn 257.610†	2627477.1	2631638.4	3.343 mg/L	3.343 mg/L	18:28:53
1	Mn 294.920†	1310940.2	1322367.8	3.450 mg/L	3.450 mg/L	18:28:53
1	Mo 202.031†	283.3	249.5	-0.0175 mg/L	-0.0175 mg/L	18:28:56
1	Ni 231.604†	7251.9	7149.7	0.1610 mg/L	0.1610 mg/L	18:28:56
1	P 214.914†	6450.4	6527.1	4.134 mg/L	4.134 mg/L	18:29:06
1	Pb 220.353†	1934.4	1767.2	0.0930 mg/L	0.0930 mg/L	18:29:06
1	Sb 206.836†	105.6	58.6	-0.0263 mg/L	-0.0263 mg/L	18:29:06
1	Se 196.026†	-13.8	-24.8	-0.0511 mg/L	-0.0511 mg/L	18:29:06
1	Sn 189.927†	-149.0	-179.4	-0.0202 mg/L	-0.0202 mg/L	18:29:06
1	Ti 337.279†	10175273.1	10254251.2	11.97 mg/L	11.97 mg/L	18:28:53
1	Tl 190.801†	-4.6	0.2	-0.1180 mg/L	-0.1180 mg/L	18:29:06
1	V 292.402†	90206.5	91249.4	0.3959 mg/L	0.3959 mg/L	18:28:56
1	Zn 213.857†	135766.5	135666.6	0.9907 mg/L	0.9907 mg/L	18:28:56
2	B 249.677†	-22.7	-16.9	-0.0081 mg/L	-0.0081 mg/L	18:28:48
2	Fe 234.349†	292666.4	301605.8	201.1 mg/L	201.1 mg/L	18:28:46
2	K 766.490†	72885.6	74295.7	40.66 mg/L	40.66 mg/L	18:28:46
2	Li 670.784†	8871.8	9378.6	0.2622 mg/L	0.2622 mg/L	18:28:48
2	Na 589.592†	3881.9	3520.9	0.7538 mg/L	0.7538 mg/L	18:28:48
2	Sr 407.771†	60818.9	62607.4	0.0734 mg/L	0.0734 mg/L	18:28:46
2	Y 371.029	2620919.4	2620919.4	0.970 mg/L	0.970 mg/L	18:29:09
2	Ag 328.068†	986.4	-848.6	0.0022 mg/L	0.0022 mg/L	18:29:12
2	Al 237.313†	1380318.5	1422942.4	157.5 mg/L	157.5 mg/L	18:29:09
2	As 188.979†	35.8	43.6	0.0354 mg/L	0.0354 mg/L	18:29:22
2	B 182.528†	27.0	37.4	0.0401 mg/L	0.0401 mg/L	18:29:22
2	Ba 233.527†	103280.2	106534.3	0.9313 mg/L	0.9313 mg/L	18:29:12
2	Be 313.107†	22919.6	25058.2	0.0085 mg/L	0.0085 mg/L	18:29:12
2	Ca 315.887†	1138229.9	1174898.8	12.84 mg/L	12.84 mg/L	18:29:09
2	Cd 228.802†	223.3	71.1	-0.0002 mg/L	-0.0002 mg/L	18:29:22
2	Co 228.616†	5669.3	6084.4	0.0956 mg/L	0.0956 mg/L	18:29:22
2	Cr 267.716†	27784.4	28067.5	0.2481 mg/L	0.2481 mg/L	18:29:12
2	Cu 324.752†	44426.4	40981.5	0.2394 mg/L	0.2394 mg/L	18:29:12
2	Mg 279.077†	629017.6	648242.0	52.27 mg/L	52.27 mg/L	18:29:09
2	Mn 257.610†	2620639.0	2684674.0	3.410 mg/L	3.410 mg/L	18:29:09
2	Mn 294.920†	1307476.6	1348775.8	3.519 mg/L	3.519 mg/L	18:29:09
2	Mo 202.031†	161.5	130.5	-0.0234 mg/L	-0.0234 mg/L	18:29:12
2	Ni 231.604†	7256.7	7320.5	0.1648 mg/L	0.1648 mg/L	18:29:12
2	P 214.914†	6498.8	6724.6	4.257 mg/L	4.257 mg/L	18:29:22
2	Pb 220.353†	1953.5	1831.1	0.0968 mg/L	0.0968 mg/L	18:29:22
2	Sb 206.836†	107.2	62.7	-0.0260 mg/L	-0.0260 mg/L	18:29:22
2	Se 196.026†	-20.8	-32.3	-0.0573 mg/L	-0.0573 mg/L	18:29:22
2	Sn 189.927†	-145.5	-179.2	-0.0200 mg/L	-0.0200 mg/L	18:29:22
2	Ti 337.279†	10147796.6	10458613.7	12.21 mg/L	12.21 mg/L	18:29:09
2	Tl 190.801†	7.5	12.5	-0.1092 mg/L	-0.1092 mg/L	18:29:22
2	V 292.402†	89666.1	92755.3	0.4022 mg/L	0.4022 mg/L	18:29:12
2	Zn 213.857†	134880.4	137858.0	1.007 mg/L	1.007 mg/L	18:29:12

Mean Data: 1307030-18 @3

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2650656.8	0.981 mg/L		0.0156			1.59%
Ag 328.068†	-870.2	0.0020 mg/L		0.00027	0.0020 mg/L	0.00027	13.38%
Al 237.313†	1408633.5	155.9 mg/L		2.24	155.9 mg/L	2.24	1.44%
As 188.979†	39.7	0.0326 mg/L		0.00396	0.0326 mg/L	0.00396	12.17%
B 249.677†	-15.0	-0.0070 mg/L		0.00153	-0.0070 mg/L	0.00153	21.70%
B 182.528†	37.6	0.0402 mg/L		0.00022	0.0402 mg/L	0.00022	0.55%
Ba 233.527†	105730.9	0.9243 mg/L		0.00990	0.9243 mg/L	0.00990	1.07%
Be 313.107†	24828.6	0.0084 mg/L		0.00010	0.0084 mg/L	0.00010	1.22%
Ca 315.887†	1166024.9	12.75 mg/L		0.137	12.75 mg/L	0.137	1.07%
Cd 228.802†	71.5	-0.0001 mg/L		0.00008	-0.0001 mg/L	0.00008	61.16%
Co 228.616†	6017.2	0.0945 mg/L		0.00154	0.0945 mg/L	0.00154	1.63%
Cr 267.716†	27731.5	0.2451 mg/L		0.00414	0.2451 mg/L	0.00414	1.69%
Cu 324.752†	40681.3	0.2377 mg/L		0.00249	0.2377 mg/L	0.00249	1.05%
Fe 234.349†	297494.1	198.4 mg/L		3.88	198.4 mg/L	3.88	1.95%
K 766.490†	73150.8	40.04 mg/L		0.882	40.04 mg/L	0.882	2.20%
Li 670.784†	9192.2	0.2571 mg/L		0.00725	0.2571 mg/L	0.00725	2.82%
Mg 279.077†	643405.2	51.88 mg/L		0.551	51.88 mg/L	0.551	1.06%
Mn 257.610†	2658156.2	3.377 mg/L		0.0474	3.377 mg/L	0.0474	1.40%
Mn 294.920†	1335571.8	3.485 mg/L		0.0487	3.485 mg/L	0.0487	1.40%
Mo 202.031†	190.0	-0.0204 mg/L		0.00417	-0.0204 mg/L	0.00417	20.42%
Na 589.592†	3384.8	0.7291 mg/L		0.03501	0.7291 mg/L	0.03501	4.80%
Ni 231.604†	7235.1	0.1629 mg/L		0.00269	0.1629 mg/L	0.00269	1.65%
P 214.914†	6625.9	4.195 mg/L		0.0874	4.195 mg/L	0.0874	2.08%

Pb 220.353† 1799.1 0.0949 mg/L 0.00272 0.0949 mg/L 0.00272 2.86%
 Sb 206.836† 60.6 -0.0261 mg/L 0.00017 -0.0261 mg/L 0.00017 0.64%
 Se 196.026† -28.6 -0.0542 mg/L 0.00441 -0.0542 mg/L 0.00441 8.13%
 Sn 189.927† -179.3 -0.0201 mg/L 0.00011 -0.0201 mg/L 0.00011 0.53%
 Sr 407.771† 61832.2 0.0725 mg/L 0.00128 0.0725 mg/L 0.00128 1.76%
 Ti 337.279† 10356432.5 12.09 mg/L 0.169 12.09 mg/L 0.169 1.39%
 Tl 190.801† 6.4 -0.1136 mg/L 0.00616 -0.1136 mg/L 0.00616 5.42%
 V 292.402† 92002.4 0.3991 mg/L 0.00446 0.3991 mg/L 0.00446 1.12%
 Zn 213.857† 136762.3 0.9987 mg/L 0.01121 0.9987 mg/L 0.01121 1.12%

User canceled analysis.

=====
 Analysis Begun

Start Time: 7/5/2013 6:31:31 PM Plasma On Time: 7/5/2013 7:36:06 AM
 Logged In Analyst: ICP3 Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1032302 Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\070513NA.sif

Batch ID:
 Results Data Set: 070513NA
 Results Library: C:\pe\ICP3\Results\Results.mdb

=====
 Sequence No.: 1 Autosampler Location: 3
 Sample ID: CCV1 Date Collected: 7/5/2013 6:31:31 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:
 User canceled analysis.

=====
 Analysis Begun

Start Time: 7/5/2013 6:31:55 PM Plasma On Time: 7/5/2013 7:36:06 AM
 Logged In Analyst: ICP3 Technique: ICP Continuous
 Spectrometer Model: Optima 4300 DV, S/N 077N1032302 Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\070513NA.sif

Batch ID:
 Results Data Set: 070513NA
 Results Library: C:\pe\ICP3\Results\Results.mdb

=====
 Sequence No.: 73 Autosampler Location: 67
 Sample ID: 1307031-04 @10 Date Collected: 7/5/2013 6:31:55 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

 Replicate Data: 1307031-04 @10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	17.0	24.0	0.0146 mg/L	0.0146 mg/L	18:33:47
1	Fe 234.349†	56191.3	58023.3	38.70 mg/L	38.70 mg/L	18:33:37
1	K 766.490†	3502.2	2799.0	1.700 mg/L	1.700 mg/L	18:33:37
1	Li 670.784†	536.8	790.0	0.0262 mg/L	0.0262 mg/L	18:33:37
1	Na 589.592†	1185.5	744.6	0.2487 mg/L	0.2487 mg/L	18:33:37
1	Sr 407.771†	20186.2	20776.2	0.0246 mg/L	0.0246 mg/L	18:33:37
1	Y 371.029	2615447.1	2615447.1	0.968 mg/L		18:34:04
1	Ag 328.068†	3484.8	1733.7	0.0124 mg/L	0.0124 mg/L	18:34:06
1	Al 237.313†	145396.0	150584.4	16.68 mg/L	16.68 mg/L	18:34:06
1	As 188.979†	20.3	27.6	0.0244 mg/L	0.0244 mg/L	18:34:16
1	B 182.528†	-8.1	1.2	0.0012 mg/L	0.0012 mg/L	18:34:16
1	Ba 233.527†	11214.1	11678.1	0.1049 mg/L	0.1049 mg/L	18:34:06
1	Be 313.107†	783.7	2247.3	0.0013 mg/L	0.0013 mg/L	18:34:06
1	Ca 315.887†	131693.6	137878.7	1.539 mg/L	1.539 mg/L	18:34:06
1	Cd 228.802†	319.5	170.9	0.0057 mg/L	0.0057 mg/L	18:34:16
1	Co 228.616†	146.1	392.6	0.0068 mg/L	0.0068 mg/L	18:34:16
1	Cr 267.716†	6525.5	6172.8	0.0572 mg/L	0.0572 mg/L	18:34:06
1	Cu 324.752†	506271.4	518035.8	2.792 mg/L	2.792 mg/L	18:34:04
1	Mg 279.077†	48230.4	49805.2	4.039 mg/L	4.039 mg/L	18:34:06

1	Mn 257.610†	293967.5	287514.8	0.3628 mg/L	0.3628 mg/L	18:34:06
1	Mn 294.920†	141368.3	147326.8	0.3857 mg/L	0.3857 mg/L	18:34:06
1	Mo 202.031†	157.0	126.2	-0.0136 mg/L	-0.0136 mg/L	18:34:16
1	Ni 231.604†	4639.9	4633.7	0.1049 mg/L	0.1049 mg/L	18:34:16
1	P 214.914†	18674.9	19313.1	12.11 mg/L	12.11 mg/L	18:34:06
1	Pb 220.353†	486411.2	502146.5	35.39 mg/L	35.39 mg/L	18:34:04
1	Sb 206.836†	498.9	467.4	0.2113 mg/L	0.2113 mg/L	18:34:16
1	Se 196.026†	13.8	3.3	-0.0004 mg/L	-0.0004 mg/L	18:34:16
1	Sn 189.927†	96034.0	99147.3	14.68 mg/L	14.68 mg/L	18:34:06
1	Ti 337.279†	429889.8	444577.4	0.5238 mg/L	0.5238 mg/L	18:34:06
1	Tl 190.801†	-1.3	3.4	-0.0189 mg/L	-0.0189 mg/L	18:34:16
1	V 292.402†	8329.7	8950.5	0.0442 mg/L	0.0442 mg/L	18:34:06
1	Zn 213.857†	85017.2	86653.9	0.6342 mg/L	0.6342 mg/L	18:34:06
2	B 249.677†	13.8	20.8	0.0129 mg/L	0.0129 mg/L	18:34:00
2	Fe 234.349†	54137.0	56304.6	37.55 mg/L	37.55 mg/L	18:33:50
2	K 766.490†	3281.9	2595.9	1.589 mg/L	1.589 mg/L	18:33:50
2	Li 670.784†	362.9	613.1	0.0213 mg/L	0.0213 mg/L	18:33:50
2	Na 589.592†	1033.7	595.5	0.2216 mg/L	0.2216 mg/L	18:33:50
2	Sr 407.771†	19343.0	20049.4	0.0237 mg/L	0.0237 mg/L	18:33:50
2	Y 371.029	2596738.7	2596738.7	0.961 mg/L		18:34:19
2	Ag 328.068†	3390.4	1661.5	0.0119 mg/L	0.0119 mg/L	18:34:21
2	Al 237.313†	138811.8	144817.5	16.04 mg/L	16.04 mg/L	18:34:21
2	As 188.979†	25.6	33.3	0.0285 mg/L	0.0285 mg/L	18:34:31
2	B 182.528†	-6.7	2.6	0.0027 mg/L	0.0027 mg/L	18:34:31
2	Ba 233.527†	10741.0	11269.4	0.1013 mg/L	0.1013 mg/L	18:34:21
2	Be 313.107†	622.1	2085.1	0.0012 mg/L	0.0012 mg/L	18:34:21
2	Ca 315.887†	125999.3	132935.6	1.485 mg/L	1.485 mg/L	18:34:21
2	Cd 228.802†	316.7	170.4	0.0057 mg/L	0.0057 mg/L	18:34:31
2	Co 228.616†	149.1	396.9	0.0069 mg/L	0.0069 mg/L	18:34:31
2	Cr 267.716†	6273.1	5958.9	0.0553 mg/L	0.0553 mg/L	18:34:21
2	Cu 324.752†	481847.8	496398.1	2.675 mg/L	2.675 mg/L	18:34:19
2	Mg 279.077†	46200.4	48052.6	3.898 mg/L	3.898 mg/L	18:34:21
2	Mn 257.610†	281871.2	277119.9	0.3497 mg/L	0.3497 mg/L	18:34:21
2	Mn 294.920†	135182.9	141944.8	0.3717 mg/L	0.3717 mg/L	18:34:21
2	Mo 202.031†	151.6	121.8	-0.0130 mg/L	-0.0130 mg/L	18:34:31
2	Ni 231.604†	4415.4	4434.7	0.1005 mg/L	0.1005 mg/L	18:34:31
2	P 214.914†	17890.2	18635.9	11.69 mg/L	11.69 mg/L	18:34:21
2	Pb 220.353†	464374.2	482843.4	34.03 mg/L	34.03 mg/L	18:34:19
2	Sb 206.836†	482.4	454.0	0.2053 mg/L	0.2053 mg/L	18:34:31
2	Se 196.026†	1.9	-8.9	-0.0086 mg/L	-0.0086 mg/L	18:34:31
2	Sn 189.927†	92042.1	95709.6	14.17 mg/L	14.17 mg/L	18:34:21
2	Ti 337.279†	411137.3	428270.2	0.5048 mg/L	0.5048 mg/L	18:34:21
2	Tl 190.801†	-12.7	-8.4	-0.0297 mg/L	-0.0297 mg/L	18:34:31
2	V 292.402†	8194.5	8871.9	0.0438 mg/L	0.0438 mg/L	18:34:21
2	Zn 213.857†	81538.8	83668.4	0.6125 mg/L	0.6125 mg/L	18:34:21

Mean Data: 1307031-04 @10

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2606092.9	0.965 mg/L		0.0049			0.51%
Ag 328.068†	1697.6	0.0121 mg/L		0.00030	0.0121 mg/L	0.00030	2.50%
Al 237.313†	147700.9	16.36 mg/L		0.451	16.36 mg/L	0.451	2.76%
As 188.979†	30.4	0.0265 mg/L		0.00295	0.0265 mg/L	0.00295	11.14%
B 249.677†	22.4	0.0138 mg/L		0.00127	0.0138 mg/L	0.00127	9.20%
B 182.528†	1.9	0.0019 mg/L		0.00111	0.0019 mg/L	0.00111	57.24%
Ba 233.527†	11473.7	0.1031 mg/L		0.00252	0.1031 mg/L	0.00252	2.44%
Be 313.107†	2166.2	0.0012 mg/L		0.00005	0.0012 mg/L	0.00005	3.89%
Ca 315.887†	135407.2	1.512 mg/L		0.0381	1.512 mg/L	0.0381	2.52%
Cd 228.802†	170.6	0.0057 mg/L		0.00000	0.0057 mg/L	0.00000	0.03%
Co 228.616†	394.8	0.0068 mg/L		0.00009	0.0068 mg/L	0.00009	1.31%
Cr 267.716†	6065.8	0.0563 mg/L		0.00132	0.0563 mg/L	0.00132	2.34%
Cu 324.752†	507217.0	2.733 mg/L		0.0823	2.733 mg/L	0.0823	3.01%
Fe 234.349†	57163.9	38.13 mg/L		0.810	38.13 mg/L	0.810	2.13%
K 766.490†	2697.4	1.644 mg/L		0.0782	1.644 mg/L	0.0782	4.76%
Li 670.784†	701.5	0.0237 mg/L		0.00344	0.0237 mg/L	0.00344	14.49%
Mg 279.077†	48928.9	3.969 mg/L		0.0999	3.969 mg/L	0.0999	2.52%
Mn 257.610†	282317.4	0.3563 mg/L		0.00927	0.3563 mg/L	0.00927	2.60%
Mn 294.920†	144635.8	0.3787 mg/L		0.00992	0.3787 mg/L	0.00992	2.62%
Mo 202.031†	124.0	-0.0133 mg/L		0.00045	-0.0133 mg/L	0.00045	3.38%
Na 589.592†	670.0	0.2351 mg/L		0.01919	0.2351 mg/L	0.01919	8.16%
Ni 231.604†	4534.2	0.1027 mg/L		0.00314	0.1027 mg/L	0.00314	3.06%
P 214.914†	18974.5	11.90 mg/L		0.299	11.90 mg/L	0.299	2.51%

Pb 220.353†	492494.9	34.71 mg/L	0.962	34.71 mg/L	0.962	2.77%
Sb 206.836†	460.7	0.2083 mg/L	0.00420	0.2083 mg/L	0.00420	2.02%
Se 196.026†	-2.8	-0.0045 mg/L	0.00578	-0.0045 mg/L	0.00578	128.61%
Sn 189.927†	97428.5	14.42 mg/L	0.360	14.42 mg/L	0.360	2.50%
Sr 407.771†	20412.8	0.0242 mg/L	0.00060	0.0242 mg/L	0.00060	2.48%
Ti 337.279†	436423.8	0.5143 mg/L	0.01346	0.5143 mg/L	0.01346	2.62%
Tl 190.801†	-2.5	-0.0243 mg/L	0.00763	-0.0243 mg/L	0.00763	31.40%
V 292.402†	8911.2	0.0440 mg/L	0.00022	0.0440 mg/L	0.00022	0.51%
Zn 213.857†	85161.1	0.6234 mg/L	0.01537	0.6234 mg/L	0.01537	2.47%

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Sequence No.: 74                               Autosampler Location: 68
Sample ID: CG30242-DUP2 @10                   Date Collected: 7/5/2013 6:37:41 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: CG30242-DUP2 @10							
Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	9.1	16.0	0.0102 mg/L		0.0102 mg/L	18:39:34
1	Fe 234.349†	103967.7	108798.6	72.56 mg/L		72.56 mg/L	18:39:24
1	K 766.490†	3487.6	2832.0	1.718 mg/L		1.718 mg/L	18:39:24
1	Li 670.784†	495.9	754.6	0.0252 mg/L		0.0252 mg/L	18:39:24
1	Na 589.592†	1631.1	1227.2	0.3365 mg/L		0.3365 mg/L	18:39:24
1	Sr 407.771†	29578.2	30883.9	0.0364 mg/L		0.0364 mg/L	18:39:24
1	Y 371.029	2580941.9	2580941.9	0.956 mg/L			18:39:51
1	Ag 328.068†	2276.3	517.1	0.0065 mg/L		0.0065 mg/L	18:39:53
1	Al 237.313†	164152.3	172220.8	19.07 mg/L		19.07 mg/L	18:39:51
1	As 188.979†	25.7	33.5	0.0287 mg/L		0.0287 mg/L	18:40:04
1	B 182.528†	8.7	18.7	0.0199 mg/L		0.0199 mg/L	18:40:04
1	Ba 233.527†	13962.7	14709.5	0.1313 mg/L		0.1313 mg/L	18:39:53
1	Be 313.107†	806.4	2281.9	0.0012 mg/L		0.0012 mg/L	18:39:53
1	Ca 315.887†	187971.3	198593.3	2.201 mg/L		2.201 mg/L	18:39:53
1	Cd 228.802†	371.2	229.4	0.0069 mg/L		0.0069 mg/L	18:40:04
1	Co 228.616†	358.8	617.3	0.0109 mg/L		0.0109 mg/L	18:40:04
1	Cr 267.716†	7355.3	7131.4	0.0656 mg/L		0.0656 mg/L	18:39:53
1	Cu 324.752†	598802.3	621862.2	3.350 mg/L		3.350 mg/L	18:39:51
1	Mg 279.077†	53929.3	56435.2	4.574 mg/L		4.574 mg/L	18:39:53
1	Mn 257.610†	448228.0	453012.0	0.5681 mg/L		0.5681 mg/L	18:39:53
1	Mn 294.920†	222458.8	234142.4	0.6121 mg/L		0.6121 mg/L	18:39:53
1	Mo 202.031†	259.8	235.9	-0.0172 mg/L		-0.0172 mg/L	18:40:04
1	Ni 231.604†	9333.1	9609.3	0.2158 mg/L		0.2158 mg/L	18:39:53
1	P 214.914†	23206.4	24313.2	15.24 mg/L		15.24 mg/L	18:39:53
1	Pb 220.353†	26632.5	27689.7	1.946 mg/L		1.946 mg/L	18:39:53
1	Sb 206.836†	68.8	24.2	-0.0057 mg/L		-0.0057 mg/L	18:40:04
1	Se 196.026†	2.7	-8.1	-0.0150 mg/L		-0.0150 mg/L	18:40:04
1	Sn 189.927†	563.1	560.0	0.0828 mg/L		0.0828 mg/L	18:40:04
1	Ti 337.279†	543059.6	568948.5	0.6690 mg/L		0.6690 mg/L	18:39:51
1	Tl 190.801†	-10.2	-5.8	-0.0482 mg/L		-0.0482 mg/L	18:40:04
1	V 292.402†	10287.1	11114.1	0.0537 mg/L		0.0537 mg/L	18:39:53
1	Zn 213.857†	98261.0	101687.8	0.7418 mg/L		0.7418 mg/L	18:39:53
2	B 249.677†	13.9	21.2	0.0131 mg/L		0.0131 mg/L	18:39:47
2	Fe 234.349†	98786.3	104152.2	69.46 mg/L		69.46 mg/L	18:39:37
2	K 766.490†	3420.2	2788.4	1.694 mg/L		1.694 mg/L	18:39:37
2	Li 670.784†	509.4	772.7	0.0257 mg/L		0.0257 mg/L	18:39:37
2	Na 589.592†	1426.7	1024.6	0.2996 mg/L		0.2996 mg/L	18:39:37
2	Sr 407.771†	28051.6	29506.6	0.0348 mg/L		0.0348 mg/L	18:39:37
2	Y 371.029	2561712.1	2561712.1	0.948 mg/L			18:40:06
2	Ag 328.068†	2323.6	584.8	0.0068 mg/L		0.0068 mg/L	18:40:08
2	Al 237.313†	156890.0	165853.1	18.37 mg/L		18.37 mg/L	18:40:06
2	As 188.979†	21.9	29.8	0.0260 mg/L		0.0260 mg/L	18:40:19
2	B 182.528†	14.4	24.7	0.0264 mg/L		0.0264 mg/L	18:40:19
2	Ba 233.527†	13429.7	14257.1	0.1273 mg/L		0.1273 mg/L	18:40:08
2	Be 313.107†	703.6	2179.9	0.0012 mg/L		0.0012 mg/L	18:40:08
2	Ca 315.887†	180989.0	192708.0	2.136 mg/L		2.136 mg/L	18:40:08
2	Cd 228.802†	369.5	230.5	0.0070 mg/L		0.0070 mg/L	18:40:19
2	Co 228.616†	335.0	595.0	0.0105 mg/L		0.0105 mg/L	18:40:19
2	Cr 267.716†	7127.7	6949.1	0.0640 mg/L		0.0640 mg/L	18:40:08
2	Cu 324.752†	572725.7	599071.5	3.228 mg/L		3.228 mg/L	18:40:06
2	Mg 279.077†	51842.1	54658.2	4.431 mg/L		4.431 mg/L	18:40:08
2	Mn 257.610†	432497.2	439946.8	0.5520 mg/L		0.5520 mg/L	18:40:08

2	Mn 294.920†	214249.7	227234.4	0.5941 mg/L	0.5941 mg/L	18:40:08
2	Mo 202.031†	258.6	236.7	-0.0160 mg/L	-0.0160 mg/L	18:40:19
2	Ni 231.604†	9023.7	9356.4	0.2102 mg/L	0.2102 mg/L	18:40:08
2	P 214.914†	22398.1	23643.3	14.82 mg/L	14.82 mg/L	18:40:08
2	Pb 220.353†	25699.2	26914.8	1.891 mg/L	1.891 mg/L	18:40:08
2	Sb 206.836†	62.8	18.3	-0.0075 mg/L	-0.0075 mg/L	18:40:19
2	Se 196.026†	-0.5	-11.4	-0.0167 mg/L	-0.0167 mg/L	18:40:19
2	Sn 189.927†	515.4	514.1	0.0760 mg/L	0.0760 mg/L	18:40:19
2	Ti 337.279†	519692.5	548576.7	0.6452 mg/L	0.6452 mg/L	18:40:06
2	Tl 190.801†	-9.1	-4.8	-0.0454 mg/L	-0.0454 mg/L	18:40:19
2	V 292.402†	9857.0	10741.4	0.0521 mg/L	0.0521 mg/L	18:40:08
2	Zn 213.857†	94621.5	98622.3	0.7196 mg/L	0.7196 mg/L	18:40:08

Mean Data: CG30242-DUP2 @10

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2571327.0	0.952 mg/L		0.0050			0.53%
Ag 328.068†	550.9	0.0066 mg/L		0.00021	0.0066 mg/L	0.00021	3.18%
Al 237.313†	169037.0	18.72 mg/L		0.498	18.72 mg/L	0.498	2.66%
As 188.979†	31.7	0.0273 mg/L		0.00193	0.0273 mg/L	0.00193	7.08%
B 249.677†	18.6	0.0116 mg/L		0.00204	0.0116 mg/L	0.00204	17.49%
B 182.528†	21.7	0.0232 mg/L		0.00459	0.0232 mg/L	0.00459	19.82%
Ba 233.527†	14483.3	0.1293 mg/L		0.00279	0.1293 mg/L	0.00279	2.16%
Be 313.107†	2230.9	0.0012 mg/L		0.00003	0.0012 mg/L	0.00003	2.30%
Ca 315.887†	195650.7	2.169 mg/L		0.0454	2.169 mg/L	0.0454	2.09%
Cd 228.802†	230.0	0.0070 mg/L		0.00006	0.0070 mg/L	0.00006	0.89%
Co 228.616†	606.1	0.0107 mg/L		0.00028	0.0107 mg/L	0.00028	2.61%
Cr 267.716†	7040.2	0.0648 mg/L		0.00112	0.0648 mg/L	0.00112	1.73%
Cu 324.752†	610466.9	3.289 mg/L		0.0867	3.289 mg/L	0.0867	2.64%
Fe 234.349†	106475.4	71.01 mg/L		2.191	71.01 mg/L	2.191	3.09%
K 766.490†	2810.2	1.706 mg/L		0.0168	1.706 mg/L	0.0168	0.99%
Li 670.784†	763.6	0.0254 mg/L		0.00035	0.0254 mg/L	0.00035	1.38%
Mg 279.077†	55546.7	4.502 mg/L		0.1013	4.502 mg/L	0.1013	2.25%
Mn 257.610†	446479.4	0.5601 mg/L		0.01139	0.5601 mg/L	0.01139	2.03%
Mn 294.920†	230688.4	0.6031 mg/L		0.01274	0.6031 mg/L	0.01274	2.11%
Mo 202.031†	236.3	-0.0166 mg/L		0.00084	-0.0166 mg/L	0.00084	5.07%
Na 589.592†	1125.9	0.3181 mg/L		0.02607	0.3181 mg/L	0.02607	8.20%
Ni 231.604†	9482.9	0.2130 mg/L		0.00399	0.2130 mg/L	0.00399	1.87%
P 214.914†	23978.3	15.03 mg/L		0.296	15.03 mg/L	0.296	1.97%
Pb 220.353†	27302.2	1.919 mg/L		0.0385	1.919 mg/L	0.0385	2.01%
Sb 206.836†	21.3	-0.0066 mg/L		0.00129	-0.0066 mg/L	0.00129	19.67%
Se 196.026†	-9.8	-0.0159 mg/L		0.00120	-0.0159 mg/L	0.00120	7.55%
Sn 189.927†	537.1	0.0794 mg/L		0.00483	0.0794 mg/L	0.00483	6.08%
Sr 407.771†	30195.3	0.0356 mg/L		0.00114	0.0356 mg/L	0.00114	3.19%
Ti 337.279†	558762.6	0.6571 mg/L		0.01681	0.6571 mg/L	0.01681	2.56%
Tl 190.801†	-5.3	-0.0468 mg/L		0.00203	-0.0468 mg/L	0.00203	4.33%
V 292.402†	10927.7	0.0529 mg/L		0.00116	0.0529 mg/L	0.00116	2.19%
Zn 213.857†	100155.0	0.7307 mg/L		0.01571	0.7307 mg/L	0.01571	2.15%

Sequence No.: 75

Sample ID: CG30242-MS2 @10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 69

Date Collected: 7/5/2013 6:41:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30242-MS2 @10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	119.6	131.4	0.0745 mg/L	0.0745 mg/L	18:43:51
1	Fe 234.349†	68910.8	71980.1	48.00 mg/L	48.00 mg/L	18:43:41
1	K 766.490†	9097.5	8685.7	4.908 mg/L	4.908 mg/L	18:43:41
1	Li 670.784†	2838.9	3201.3	0.0924 mg/L	0.0924 mg/L	18:43:41
1	Na 589.592†	18904.8	19268.9	3.619 mg/L	3.619 mg/L	18:43:41
1	Sr 407.771†	44106.2	46004.4	0.0540 mg/L	0.0540 mg/L	18:43:41
1	Y 371.029	2585617.8	2585617.8	0.957 mg/L		18:44:08
1	Ag 328.068†	7895.4	6382.7	0.0384 mg/L	0.0384 mg/L	18:44:10
1	Al 237.313†	215423.1	225469.6	24.97 mg/L	24.97 mg/L	18:44:10
1	As 188.979†	102.0	113.2	0.0866 mg/L	0.0866 mg/L	18:44:21
1	B 182.528†	62.0	74.4	0.0797 mg/L	0.0797 mg/L	18:44:21
1	Ba 233.527†	23068.7	24195.5	0.2139 mg/L	0.2139 mg/L	18:44:10

1	Be	313.107†	14822.6	16922.3	0.0077	mg/L	0.0077	mg/L	18:44:10
1	Ca	315.887†	281589.3	296034.6	3.263	mg/L	3.263	mg/L	18:44:08
1	Cd	228.802†	1301.6	1200.6	0.0377	mg/L	0.0377	mg/L	18:44:21
1	Co	228.616†	3292.1	3680.9	0.0721	mg/L	0.0721	mg/L	18:44:21
1	Cr	267.716†	14789.5	14883.5	0.1332	mg/L	0.1332	mg/L	18:44:10
1	Cu	324.752†	789856.3	820311.3	4.418	mg/L	4.418	mg/L	18:44:08
1	Mg	279.077†	77532.1	80989.6	6.552	mg/L	6.552	mg/L	18:44:10
1	Mn	257.610†	398817.2	400547.2	0.5062	mg/L	0.5062	mg/L	18:44:10
1	Mn	294.920†	194345.1	204352.7	0.5344	mg/L	0.5344	mg/L	18:44:10
1	Mo	202.031†	1447.4	1476.1	0.0332	mg/L	0.0332	mg/L	18:44:21
1	Ni	231.604†	9081.7	9329.0	0.2097	mg/L	0.2097	mg/L	18:44:10
1	P	214.914†	23461.2	24535.6	15.37	mg/L	15.37	mg/L	18:44:10
1	Pb	220.353†	43540.4	45301.8	3.186	mg/L	3.186	mg/L	18:44:10
1	Sb	206.836†	130.3	88.3	0.0313	mg/L	0.0313	mg/L	18:44:21
1	Se	196.026†	176.4	173.4	0.1143	mg/L	0.1143	mg/L	18:44:21
1	Sn	189.927†	1585.1	1626.5	0.2414	mg/L	0.2414	mg/L	18:44:21
1	Ti	337.279†	598591.4	625931.4	0.7355	mg/L	0.7355	mg/L	18:44:08
1	Tl	190.801†	57.4	64.7	0.0348	mg/L	0.0348	mg/L	18:44:21
1	V	292.402†	25216.9	26690.9	0.1254	mg/L	0.1254	mg/L	18:44:10
1	Zn	213.857†	99505.5	102801.8	0.7498	mg/L	0.7498	mg/L	18:44:10
2	B	249.677†	112.9	124.8	0.0708	mg/L	0.0708	mg/L	18:44:04
2	Fe	234.349†	68162.8	71428.3	47.64	mg/L	47.64	mg/L	18:43:54
2	K	766.490†	8883.7	8492.3	4.803	mg/L	4.803	mg/L	18:43:54
2	Li	670.784†	2896.9	3271.6	0.0944	mg/L	0.0944	mg/L	18:43:54
2	Na	589.592†	18644.0	19059.3	3.581	mg/L	3.581	mg/L	18:43:54
2	Sr	407.771†	43593.6	45615.8	0.0536	mg/L	0.0536	mg/L	18:43:54
2	Y	371.029	2577308.0	2577308.0	0.954	mg/L	0.954	mg/L	18:44:23
2	Ag	328.068†	7901.6	6415.8	0.0385	mg/L	0.0385	mg/L	18:44:25
2	Al	237.313†	216041.4	226843.2	25.12	mg/L	25.12	mg/L	18:44:25
2	As	188.979†	94.2	105.3	0.0809	mg/L	0.0809	mg/L	18:44:36
2	B	182.528†	68.1	80.9	0.0867	mg/L	0.0867	mg/L	18:44:36
2	Ba	233.527†	23121.7	24328.7	0.2151	mg/L	0.2151	mg/L	18:44:25
2	Be	313.107†	14805.6	16954.4	0.0077	mg/L	0.0077	mg/L	18:44:25
2	Ca	315.887†	277462.4	292657.9	3.226	mg/L	3.226	mg/L	18:44:23
2	Cd	228.802†	1287.8	1190.5	0.0374	mg/L	0.0374	mg/L	18:44:36
2	Co	228.616†	3217.9	3614.2	0.0708	mg/L	0.0708	mg/L	18:44:36
2	Cr	267.716†	14895.6	15044.5	0.1346	mg/L	0.1346	mg/L	18:44:25
2	Cu	324.752†	778664.5	811242.5	4.369	mg/L	4.369	mg/L	18:44:23
2	Mg	279.077†	77696.3	81422.8	6.587	mg/L	6.587	mg/L	18:44:25
2	Mn	257.610†	399258.6	402353.1	0.5086	mg/L	0.5086	mg/L	18:44:25
2	Mn	294.920†	194882.6	205570.5	0.5376	mg/L	0.5376	mg/L	18:44:25
2	Mo	202.031†	1447.0	1480.5	0.0337	mg/L	0.0337	mg/L	18:44:36
2	Ni	231.604†	9066.8	9344.1	0.2100	mg/L	0.2100	mg/L	18:44:25
2	P	214.914†	23365.4	24514.2	15.35	mg/L	15.35	mg/L	18:44:25
2	Pb	220.353†	43529.4	45436.9	3.195	mg/L	3.195	mg/L	18:44:25
2	Sb	206.836†	137.7	96.5	0.0352	mg/L	0.0352	mg/L	18:44:36
2	Se	196.026†	167.1	164.2	0.1081	mg/L	0.1081	mg/L	18:44:36
2	Sn	189.927†	1560.5	1606.1	0.2383	mg/L	0.2383	mg/L	18:44:36
2	Ti	337.279†	590593.6	619565.7	0.7281	mg/L	0.7281	mg/L	18:44:23
2	Tl	190.801†	49.7	56.9	0.0274	mg/L	0.0274	mg/L	18:44:36
2	V	292.402†	25226.2	26785.5	0.1259	mg/L	0.1259	mg/L	18:44:25
2	Zn	213.857†	99573.5	103208.2	0.7529	mg/L	0.7529	mg/L	18:44:25

Mean Data: CG30242-MS2 @10

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	2581462.9	0.956	mg/L	0.0022				0.23%
Ag 328.068†	6399.3	0.0385	mg/L	0.00012	0.0385	mg/L	0.00012	0.32%
Al 237.313†	226156.4	25.04	mg/L	0.107	25.04	mg/L	0.107	0.43%
As 188.979†	109.3	0.0837	mg/L	0.00405	0.0837	mg/L	0.00405	4.84%
B 249.677†	128.1	0.0727	mg/L	0.00260	0.0727	mg/L	0.00260	3.58%
B 182.528†	77.6	0.0832	mg/L	0.00496	0.0832	mg/L	0.00496	5.96%
Ba 233.527†	24262.1	0.2145	mg/L	0.00082	0.2145	mg/L	0.00082	0.38%
Be 313.107†	16938.4	0.0077	mg/L	0.00001	0.0077	mg/L	0.00001	0.15%
Ca 315.887†	294346.3	3.244	mg/L	0.0260	3.244	mg/L	0.0260	0.80%
Cd 228.802†	1195.6	0.0375	mg/L	0.00022	0.0375	mg/L	0.00022	0.58%
Co 228.616†	3647.5	0.0715	mg/L	0.00093	0.0715	mg/L	0.00093	1.30%
Cr 267.716†	14964.0	0.1339	mg/L	0.00099	0.1339	mg/L	0.00099	0.74%
Cu 324.752†	815776.9	4.393	mg/L	0.0345	4.393	mg/L	0.0345	0.79%
Fe 234.349†	71704.2	47.82	mg/L	0.260	47.82	mg/L	0.260	0.54%
K 766.490†	8589.0	4.855	mg/L	0.0745	4.855	mg/L	0.0745	1.54%
Li 670.784†	3236.4	0.0934	mg/L	0.00137	0.0934	mg/L	0.00137	1.46%

Mg 279.077†	81206.2	6.570 mg/L	0.0247	6.570 mg/L	0.0247	0.38%
Mn 257.610†	401450.1	0.5074 mg/L	0.00170	0.5074 mg/L	0.00170	0.34%
Mn 294.920†	204961.6	0.5360 mg/L	0.00225	0.5360 mg/L	0.00225	0.42%
Mo 202.031†	1478.3	0.0335 mg/L	0.00037	0.0335 mg/L	0.00037	1.10%
Na 589.592†	19164.1	3.600 mg/L	0.0270	3.600 mg/L	0.0270	0.75%
Ni 231.604†	9336.5	0.2098 mg/L	0.00024	0.2098 mg/L	0.00024	0.11%
P 214.914†	24524.9	15.36 mg/L	0.009	15.36 mg/L	0.009	0.06%
Pb 220.353†	45369.4	3.190 mg/L	0.0067	3.190 mg/L	0.0067	0.21%
Sb 206.836†	92.4	0.0332 mg/L	0.00278	0.0332 mg/L	0.00278	8.36%
Se 196.026†	168.8	0.1112 mg/L	0.00441	0.1112 mg/L	0.00441	3.97%
Sn 189.927†	1616.3	0.2398 mg/L	0.00216	0.2398 mg/L	0.00216	0.90%
Sr 407.771†	45810.1	0.0538 mg/L	0.00032	0.0538 mg/L	0.00032	0.60%
Ti 337.279†	622748.5	0.7318 mg/L	0.00525	0.7318 mg/L	0.00525	0.72%
Tl 190.801†	60.8	0.0311 mg/L	0.00522	0.0311 mg/L	0.00522	16.81%
V 292.402†	26738.2	0.1257 mg/L	0.00032	0.1257 mg/L	0.00032	0.25%
Zn 213.857†	103005.0	0.7513 mg/L	0.00217	0.7513 mg/L	0.00217	0.29%

Sequence No.: 76

Autosampler Location: 70

Sample ID: CG30242-SD2 @50

Date Collected: 7/5/2013 6:46:15 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CG30242-SD2 @50

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-12.5	-6.5	-0.0023 mg/L	-0.0023 mg/L	18:48:07
1	Fe 234.349†	9403.2	9785.3	6.535 mg/L	6.535 mg/L	18:48:07
1	K 766.490†	1230.6	463.6	0.4270 mg/L	0.4270 mg/L	18:48:07
1	Li 670.784†	-134.8	95.2	0.0071 mg/L	0.0071 mg/L	18:47:57
1	Na 589.592†	93.0	-382.9	0.0436 mg/L	0.0436 mg/L	18:47:57
1	Sr 407.771†	2937.8	2988.8	0.0039 mg/L	0.0039 mg/L	18:48:07
1	Y 371.029	2593764.0	2593764.0	0.960 mg/L		18:48:23
1	Ag 328.068†	1777.8	-13.8	0.0019 mg/L	0.0019 mg/L	18:48:26
1	Al 237.313†	22445.3	23804.0	2.648 mg/L	2.648 mg/L	18:48:26
1	As 188.979†	1.1	7.8	0.0100 mg/L	0.0100 mg/L	18:48:36
1	B 182.528†	-10.8	-1.7	-0.0019 mg/L	-0.0019 mg/L	18:48:36
1	Ba 233.527†	1973.8	2152.5	0.0219 mg/L	0.0219 mg/L	18:48:36
1	Be 313.107†	-993.5	403.4	0.0005 mg/L	0.0005 mg/L	18:48:26
1	Ca 315.887†	19705.8	22396.4	0.2801 mg/L	0.2801 mg/L	18:48:26
1	Cd 228.802†	200.1	49.4	0.0024 mg/L	0.0024 mg/L	18:48:36
1	Co 228.616†	-167.5	67.3	0.0011 mg/L	0.0011 mg/L	18:48:36
1	Cr 267.716†	1676.9	1180.0	0.0137 mg/L	0.0137 mg/L	18:48:26
1	Cu 324.752†	72433.9	70626.7	0.3844 mg/L	0.3844 mg/L	18:48:26
1	Mg 279.077†	8602.7	8955.1	0.7469 mg/L	0.7469 mg/L	18:48:26
1	Mn 257.610†	57776.8	44093.8	0.0569 mg/L	0.0569 mg/L	18:48:26
1	Mn 294.920†	20825.0	23018.6	0.0615 mg/L	0.0615 mg/L	18:48:26
1	Mo 202.031†	69.2	36.1	0.0009 mg/L	0.0009 mg/L	18:48:36
1	Ni 231.604†	910.7	790.3	0.0192 mg/L	0.0192 mg/L	18:48:26
1	P 214.914†	5071.8	5308.6	3.367 mg/L	3.367 mg/L	18:48:26
1	Pb 220.353†	4932.2	4954.0	0.3483 mg/L	0.3483 mg/L	18:48:26
1	Sb 206.836†	48.1	2.3	0.0033 mg/L	0.0033 mg/L	18:48:36
1	Se 196.026†	17.5	7.3	0.0088 mg/L	0.0088 mg/L	18:48:36
1	Sn 189.927†	88.0	62.4	0.0080 mg/L	0.0080 mg/L	18:48:36
1	Ti 337.279†	84961.4	89095.0	0.1089 mg/L	0.1089 mg/L	18:48:26
1	Tl 190.801†	-9.6	-5.2	-0.0078 mg/L	-0.0078 mg/L	18:48:36
1	V 292.402†	1140.0	1535.5	0.0113 mg/L	0.0113 mg/L	18:48:26
1	Zn 213.857†	15762.3	15268.8	0.1141 mg/L	0.1141 mg/L	18:48:26
2	B 249.677†	-5.5	0.7	0.0016 mg/L	0.0016 mg/L	18:48:20
2	Fe 234.349†	9268.2	9760.0	6.519 mg/L	6.519 mg/L	18:48:20
2	K 766.490†	1236.4	485.0	0.4386 mg/L	0.4386 mg/L	18:48:20
2	Li 670.784†	-205.4	19.2	0.0050 mg/L	0.0050 mg/L	18:48:10
2	Na 589.592†	132.4	-340.2	0.0513 mg/L	0.0513 mg/L	18:48:10
2	Sr 407.771†	2913.7	2999.9	0.0039 mg/L	0.0039 mg/L	18:48:20
2	Y 371.029	2563145.5	2563145.5	0.949 mg/L		18:48:38
2	Ag 328.068†	1771.6	1.8	0.0019 mg/L	0.0019 mg/L	18:48:40
2	Al 237.313†	22017.5	23632.4	2.629 mg/L	2.629 mg/L	18:48:40
2	As 188.979†	3.1	9.9	0.0116 mg/L	0.0116 mg/L	18:48:51
2	B 182.528†	-4.1	5.2	0.0055 mg/L	0.0055 mg/L	18:48:51
2	Ba 233.527†	1893.1	2092.0	0.0214 mg/L	0.0214 mg/L	18:48:51
2	Be 313.107†	-955.4	431.2	0.0005 mg/L	0.0005 mg/L	18:48:40

2	Ca	315.887†	19399.2	22318.4	0.2792	mg/L	0.2792	mg/L	18:48:40
2	Cd	228.802†	197.0	48.6	0.0024	mg/L	0.0024	mg/L	18:48:51
2	Co	228.616†	-153.0	80.5	0.0014	mg/L	0.0014	mg/L	18:48:51
2	Cr	267.716†	1687.5	1212.1	0.0140	mg/L	0.0140	mg/L	18:48:40
2	Cu	324.752†	71267.6	70298.8	0.3827	mg/L	0.3827	mg/L	18:48:40
2	Mg	279.077†	8495.9	8949.6	0.7465	mg/L	0.7465	mg/L	18:48:40
2	Mn	257.610†	57139.0	44140.4	0.0570	mg/L	0.0570	mg/L	18:48:40
2	Mn	294.920†	20464.3	22897.5	0.0612	mg/L	0.0612	mg/L	18:48:40
2	Mo	202.031†	64.6	32.1	0.0008	mg/L	0.0008	mg/L	18:48:51
2	Ni	231.604†	869.9	758.6	0.0185	mg/L	0.0185	mg/L	18:48:40
2	P	214.914†	5006.7	5303.1	3.364	mg/L	3.364	mg/L	18:48:40
2	Pb	220.353†	4906.6	4988.4	0.3507	mg/L	0.3507	mg/L	18:48:40
2	Sb	206.836†	44.3	-1.2	0.0017	mg/L	0.0017	mg/L	18:48:51
2	Se	196.026†	18.2	8.3	0.0094	mg/L	0.0094	mg/L	18:48:51
2	Sn	189.927†	83.2	58.3	0.0074	mg/L	0.0074	mg/L	18:48:51
2	Ti	337.279†	83377.0	88482.3	0.1082	mg/L	0.1082	mg/L	18:48:40
2	Tl	190.801†	-7.8	-3.4	-0.0061	mg/L	-0.0061	mg/L	18:48:51
2	V	292.402†	1204.3	1617.3	0.0117	mg/L	0.0117	mg/L	18:48:40
2	Zn	213.857†	15495.3	15183.5	0.1135	mg/L	0.1135	mg/L	18:48:40

Mean Data: CG30242-SD2 @50

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2578454.7	0.955	mg/L	0.0080				0.84%
Ag 328.068†	-6.0	0.0019	mg/L	0.00006	0.0019	mg/L	0.00006	3.19%
Al 237.313†	23718.2	2.638	mg/L	0.0134	2.638	mg/L	0.0134	0.51%
As 188.979†	8.9	0.0108	mg/L	0.00109	0.0108	mg/L	0.00109	10.12%
B 249.677†	-2.9	-0.0003	mg/L	0.00282	-0.0003	mg/L	0.00282	819.40%
B 182.528†	1.8	0.0018	mg/L	0.00524	0.0018	mg/L	0.00524	289.77%
Ba 233.527†	2122.2	0.0216	mg/L	0.00037	0.0216	mg/L	0.00037	1.72%
Be 313.107†	417.3	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.62%
Ca 315.887†	22357.4	0.2796	mg/L	0.00060	0.2796	mg/L	0.00060	0.21%
Cd 228.802†	49.0	0.0024	mg/L	0.00002	0.0024	mg/L	0.00002	0.72%
Co 228.616†	73.9	0.0013	mg/L	0.00019	0.0013	mg/L	0.00019	14.83%
Cr 267.716†	1196.0	0.0138	mg/L	0.00020	0.0138	mg/L	0.00020	1.43%
Cu 324.752†	70462.7	0.3836	mg/L	0.00125	0.3836	mg/L	0.00125	0.33%
Fe 234.349†	9772.7	6.527	mg/L	0.0119	6.527	mg/L	0.0119	0.18%
K 766.490†	474.3	0.4328	mg/L	0.00824	0.4328	mg/L	0.00824	1.90%
Li 670.784†	57.2	0.0060	mg/L	0.00148	0.0060	mg/L	0.00148	24.54%
Mg 279.077†	8952.3	0.7467	mg/L	0.00031	0.7467	mg/L	0.00031	0.04%
Mn 257.610†	44117.1	0.0570	mg/L	0.00005	0.0570	mg/L	0.00005	0.08%
Mn 294.920†	22958.0	0.0614	mg/L	0.00022	0.0614	mg/L	0.00022	0.36%
Mo 202.031†	34.1	0.0008	mg/L	0.00011	0.0008	mg/L	0.00011	13.27%
Na 589.592†	-361.5	0.0474	mg/L	0.00550	0.0474	mg/L	0.00550	11.59%
Ni 231.604†	774.4	0.0189	mg/L	0.00050	0.0189	mg/L	0.00050	2.64%
P 214.914†	5305.9	3.366	mg/L	0.0024	3.366	mg/L	0.0024	0.07%
Pb 220.353†	4971.2	0.3495	mg/L	0.00172	0.3495	mg/L	0.00172	0.49%
Sb 206.836†	0.6	0.0025	mg/L	0.00115	0.0025	mg/L	0.00115	45.37%
Se 196.026†	7.8	0.0091	mg/L	0.00045	0.0091	mg/L	0.00045	4.99%
Sn 189.927†	60.4	0.0077	mg/L	0.00042	0.0077	mg/L	0.00042	5.46%
Sr 407.771†	2994.3	0.0039	mg/L	0.00001	0.0039	mg/L	0.00001	0.24%
Ti 337.279†	88788.6	0.1085	mg/L	0.00051	0.1085	mg/L	0.00051	0.47%
Tl 190.801†	-4.3	-0.0069	mg/L	0.00122	-0.0069	mg/L	0.00122	17.58%
V 292.402†	1576.4	0.0115	mg/L	0.00026	0.0115	mg/L	0.00026	2.29%
Zn 213.857†	15226.1	0.1138	mg/L	0.00044	0.1138	mg/L	0.00044	0.38%

Sequence No.: 77

Sample ID: CG30242-PDS2 @10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 71

Date Collected: 7/5/2013 6:50:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30242-PDS2 @10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	732.6	784.5	0.4385	mg/L	0.4385	mg/L	18:52:10
1	Fe 234.349†	50346.4	53458.3	35.64	mg/L	35.64	mg/L	18:52:10
1	K 766.490†	42557.6	44375.9	24.36	mg/L	24.36	mg/L	18:52:08
1	Li 670.784†	16080.8	17312.5	0.4803	mg/L	0.4803	mg/L	18:52:10
1	Na 589.592†	120095.6	127055.0	23.23	mg/L	23.23	mg/L	18:52:08

1	Sr 407.771†	50121.6	53155.7	0.0623 mg/L	0.0623 mg/L	18:52:08
1	Y 371.029	2543483.5	2543483.5	0.942 mg/L		18:52:20
1	Ag 328.068†	38773.9	39310.5	0.2206 mg/L	0.2206 mg/L	18:52:20
1	Al 237.313†	144382.1	153756.0	17.03 mg/L	17.03 mg/L	18:52:20
1	As 188.979†	577.8	620.2	0.4551 mg/L	0.4551 mg/L	18:52:30
1	B 182.528†	400.1	434.4	0.4662 mg/L	0.4662 mg/L	18:52:30
1	Ba 233.527†	59173.5	62936.0	0.5514 mg/L	0.5514 mg/L	18:52:20
1	Be 313.107†	96177.6	103573.2	0.0457 mg/L	0.0457 mg/L	18:52:20
1	Ca 315.887†	501261.9	534187.4	5.859 mg/L	5.859 mg/L	18:52:20
1	Cd 228.802†	7043.5	7320.8	0.2290 mg/L	0.2290 mg/L	18:52:30
1	Co 228.616†	21285.0	22845.2	0.4551 mg/L	0.4551 mg/L	18:52:30
1	Cr 267.716†	55240.2	58095.8	0.5101 mg/L	0.5101 mg/L	18:52:20
1	Cu 324.752†	443921.4	466616.5	2.515 mg/L	2.515 mg/L	18:52:20
1	Mg 279.077†	97629.8	103673.9	8.381 mg/L	8.381 mg/L	18:52:20
1	Mn 257.610†	568833.3	587996.2	0.7501 mg/L	0.7501 mg/L	18:52:20
1	Mn 294.920†	275480.5	293877.0	0.7679 mg/L	0.7679 mg/L	18:52:20
1	Mo 202.031†	9936.2	10515.8	0.4299 mg/L	0.4299 mg/L	18:52:30
1	Ni 231.604†	23074.7	24345.9	0.5450 mg/L	0.5450 mg/L	18:52:20
1	P 214.914†	34880.0	37067.7	23.23 mg/L	23.23 mg/L	18:52:20
1	Pb 220.353†	31564.7	33337.8	2.346 mg/L	2.346 mg/L	18:52:20
1	Sb 206.836†	959.5	971.1	0.4481 mg/L	0.4481 mg/L	18:52:30
1	Se 196.026†	1254.1	1320.8	0.9032 mg/L	0.9032 mg/L	18:52:30
1	Sn 189.927†	3178.2	3345.7	0.4974 mg/L	0.4974 mg/L	18:52:30
1	Ti 337.279†	816718.4	867928.5	1.018 mg/L	1.018 mg/L	18:52:20
1	Tl 190.801†	426.7	458.0	0.4229 mg/L	0.4229 mg/L	18:52:30
1	V 292.402†	99158.7	105649.2	0.4907 mg/L	0.4907 mg/L	18:52:20
1	Zn 213.857†	135124.9	142349.6	1.041 mg/L	1.041 mg/L	18:52:20
2	B 249.677†	766.2	830.9	0.4643 mg/L	0.4643 mg/L	18:52:14
2	Fe 234.349†	50291.9	54108.8	36.08 mg/L	36.08 mg/L	18:52:14
2	K 766.490†	42044.3	44423.1	24.38 mg/L	24.38 mg/L	18:52:12
2	Li 670.784†	16150.9	17614.5	0.4886 mg/L	0.4886 mg/L	18:52:14
2	Na 589.592†	119043.4	127614.5	23.33 mg/L	23.33 mg/L	18:52:12
2	Sr 407.771†	49518.1	53212.4	0.0624 mg/L	0.0624 mg/L	18:52:12
2	Y 371.029	2510185.3	2510185.3	0.929 mg/L		18:52:34
2	Ag 328.068†	38742.8	39823.3	0.2235 mg/L	0.2235 mg/L	18:52:34
2	Al 237.313†	141232.4	152400.8	16.88 mg/L	16.88 mg/L	18:52:34
2	As 188.979†	578.0	628.6	0.4612 mg/L	0.4612 mg/L	18:52:45
2	B 182.528†	403.2	443.4	0.4758 mg/L	0.4758 mg/L	18:52:45
2	Ba 233.527†	58687.6	63246.7	0.5542 mg/L	0.5542 mg/L	18:52:34
2	Be 313.107†	96021.0	104759.6	0.0463 mg/L	0.0463 mg/L	18:52:34
2	Ca 315.887†	495972.5	535557.0	5.874 mg/L	5.874 mg/L	18:52:34
2	Cd 228.802†	7109.3	7490.8	0.2343 mg/L	0.2343 mg/L	18:52:45
2	Co 228.616†	21421.9	23292.4	0.4641 mg/L	0.4641 mg/L	18:52:45
2	Cr 267.716†	54921.0	58530.4	0.5139 mg/L	0.5139 mg/L	18:52:34
2	Cu 324.752†	434402.4	462627.3	2.494 mg/L	2.494 mg/L	18:52:34
2	Mg 279.077†	95979.3	103273.1	8.349 mg/L	8.349 mg/L	18:52:34
2	Mn 257.610†	562516.4	589212.2	0.7516 mg/L	0.7516 mg/L	18:52:34
2	Mn 294.920†	272090.8	294110.2	0.7685 mg/L	0.7685 mg/L	18:52:34
2	Mo 202.031†	10011.3	10736.6	0.4393 mg/L	0.4393 mg/L	18:52:45
2	Ni 231.604†	22864.5	24444.8	0.5472 mg/L	0.5472 mg/L	18:52:34
2	P 214.914†	34249.2	36880.3	23.11 mg/L	23.11 mg/L	18:52:34
2	Pb 220.353†	30935.6	33105.5	2.330 mg/L	2.330 mg/L	18:52:34
2	Sb 206.836†	979.1	1005.8	0.4642 mg/L	0.4642 mg/L	18:52:45
2	Se 196.026†	1254.3	1338.7	0.9153 mg/L	0.9153 mg/L	18:52:45
2	Sn 189.927†	3219.5	3435.0	0.5107 mg/L	0.5107 mg/L	18:52:45
2	Ti 337.279†	803663.6	865386.2	1.015 mg/L	1.015 mg/L	18:52:34
2	Tl 190.801†	434.1	471.9	0.4362 mg/L	0.4362 mg/L	18:52:45
2	V 292.402†	98752.9	106609.4	0.4952 mg/L	0.4952 mg/L	18:52:34
2	Zn 213.857†	133044.4	142014.4	1.039 mg/L	1.039 mg/L	18:52:34

Mean Data: CG30242-PDS2 @10

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2526834.4	0.936	mg/L	0.0087				0.93%
Ag 328.068†	39566.9	0.2220	mg/L	0.00202	0.2220	mg/L	0.00202	0.91%
Al 237.313†	153078.4	16.96	mg/L	0.106	16.96	mg/L	0.106	0.63%
As 188.979†	624.4	0.4581	mg/L	0.00432	0.4581	mg/L	0.00432	0.94%
B 249.677†	807.7	0.4514	mg/L	0.01829	0.4514	mg/L	0.01829	4.05%
B 182.528†	438.9	0.4710	mg/L	0.00679	0.4710	mg/L	0.00679	1.44%
Ba 233.527†	63091.3	0.5528	mg/L	0.00191	0.5528	mg/L	0.00191	0.35%
Be 313.107†	104166.4	0.0460	mg/L	0.00037	0.0460	mg/L	0.00037	0.80%
Ca 315.887†	534872.2	5.867	mg/L	0.0105	5.867	mg/L	0.0105	0.18%

Cd	228.802†	7405.8	0.2317 mg/L	0.00375	0.2317 mg/L	0.00375	1.62%
Co	228.616†	23068.8	0.4596 mg/L	0.00633	0.4596 mg/L	0.00633	1.38%
Cr	267.716†	58313.1	0.5120 mg/L	0.00268	0.5120 mg/L	0.00268	0.52%
Cu	324.752†	464621.9	2.505 mg/L	0.0152	2.505 mg/L	0.0152	0.61%
Fe	234.349†	53783.6	35.86 mg/L	0.307	35.86 mg/L	0.307	0.86%
K	766.490†	44399.5	24.37 mg/L	0.018	24.37 mg/L	0.018	0.07%
Li	670.784†	17463.5	0.4845 mg/L	0.00587	0.4845 mg/L	0.00587	1.21%
Mg	279.077†	103473.5	8.365 mg/L	0.0228	8.365 mg/L	0.0228	0.27%
Mn	257.610†	588604.2	0.7509 mg/L	0.00104	0.7509 mg/L	0.00104	0.14%
Mn	294.920†	293993.6	0.7682 mg/L	0.00043	0.7682 mg/L	0.00043	0.06%
Mo	202.031†	10626.2	0.4346 mg/L	0.00667	0.4346 mg/L	0.00667	1.54%
Na	589.592†	127334.8	23.28 mg/L	0.072	23.28 mg/L	0.072	0.31%
Ni	231.604†	24395.4	0.5461 mg/L	0.00157	0.5461 mg/L	0.00157	0.29%
P	214.914†	36974.0	23.17 mg/L	0.083	23.17 mg/L	0.083	0.36%
Pb	220.353†	33221.7	2.338 mg/L	0.0115	2.338 mg/L	0.0115	0.49%
Sb	206.836†	988.4	0.4562 mg/L	0.01141	0.4562 mg/L	0.01141	2.50%
Se	196.026†	1329.8	0.9093 mg/L	0.00859	0.9093 mg/L	0.00859	0.95%
Sn	189.927†	3390.4	0.5041 mg/L	0.00935	0.5041 mg/L	0.00935	1.85%
Sr	407.771†	53184.1	0.0624 mg/L	0.00005	0.0624 mg/L	0.00005	0.07%
Ti	337.279†	866657.4	1.016 mg/L	0.0021	1.016 mg/L	0.0021	0.21%
Tl	190.801†	465.0	0.4296 mg/L	0.00941	0.4296 mg/L	0.00941	2.19%
V	292.402†	106129.3	0.4929 mg/L	0.00320	0.4929 mg/L	0.00320	0.65%
Zn	213.857†	142182.0	1.040 mg/L	0.0017	1.040 mg/L	0.0017	0.17%

Sequence No.: 78

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 6:54:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	800.8	867.0	0.4845 mg/L	0.4845 mg/L	18:56:13
1	Fe 234.349†	3339.5	3581.6	2.384 mg/L	2.384 mg/L	18:56:13
1	K 766.490†	43358.1	45771.6	25.12 mg/L	25.12 mg/L	18:56:03
1	Li 670.784†	16422.4	17881.9	0.4960 mg/L	0.4960 mg/L	18:56:03
1	Na 589.592†	127737.8	136777.9	25.00 mg/L	25.00 mg/L	18:56:03
1	Sr 407.771†	38635.1	41443.9	0.0487 mg/L	0.0487 mg/L	18:56:03
1	Y 371.029	2513697.9	2513697.9	0.931 mg/L		18:56:31
1	Ag 328.068†	43170.8	44523.0	0.2487 mg/L	0.2487 mg/L	18:56:31
1	Al 237.313†	20457.0	22412.0	2.495 mg/L	2.495 mg/L	18:56:41
1	As 188.979†	630.2	683.8	0.5014 mg/L	0.5014 mg/L	18:56:41
1	B 182.528†	414.9	455.4	0.4887 mg/L	0.4887 mg/L	18:56:41
1	Ba 233.527†	51883.5	55847.2	0.4897 mg/L	0.4897 mg/L	18:56:31
1	Be 313.107†	101741.4	110761.8	0.0490 mg/L	0.0490 mg/L	18:56:31
1	Ca 315.887†	409190.6	441561.8	4.850 mg/L	4.850 mg/L	18:56:31
1	Cd 228.802†	7551.6	7955.4	0.2494 mg/L	0.2494 mg/L	18:56:41
1	Co 228.616†	22942.7	24894.3	0.4973 mg/L	0.4973 mg/L	18:56:41
1	Cr 267.716†	52493.8	55839.8	0.4905 mg/L	0.4905 mg/L	18:56:31
1	Cu 324.752†	89105.0	90942.8	0.4939 mg/L	0.4939 mg/L	18:56:31
1	Mg 279.077†	55803.3	59958.7	4.858 mg/L	4.858 mg/L	18:56:31
1	Mn 257.610†	370280.2	381803.4	0.4924 mg/L	0.4924 mg/L	18:56:31
1	Mn 294.920†	173035.0	187263.1	0.4899 mg/L	0.4899 mg/L	18:56:31
1	Mo 202.031†	10889.7	11665.3	0.4950 mg/L	0.4950 mg/L	18:56:41
1	Ni 231.604†	20510.8	21881.3	0.4901 mg/L	0.4901 mg/L	18:56:31
1	P 214.914†	7228.5	7794.3	4.920 mg/L	4.920 mg/L	18:56:41
1	Pb 220.353†	6774.4	7097.2	0.5013 mg/L	0.5013 mg/L	18:56:41
1	Sb 206.836†	1030.8	1059.8	0.4997 mg/L	0.4997 mg/L	18:56:41
1	Se 196.026†	1347.4	1436.9	0.9894 mg/L	0.9894 mg/L	18:56:41
1	Sn 189.927†	3196.6	3405.5	0.5057 mg/L	0.5057 mg/L	18:56:41
1	Ti 337.279†	388397.0	417962.8	0.4927 mg/L	0.4927 mg/L	18:56:31
1	Tl 190.801†	479.3	519.8	0.5029 mg/L	0.5029 mg/L	18:56:41
1	V 292.402†	99226.0	106969.2	0.4987 mg/L	0.4987 mg/L	18:56:31
1	Zn 213.857†	62898.5	66440.8	0.4874 mg/L	0.4874 mg/L	18:56:31
2	B 249.677†	802.5	862.3	0.4818 mg/L	0.4818 mg/L	18:56:26
2	Fe 234.349†	3357.8	3574.1	2.379 mg/L	2.379 mg/L	18:56:26
2	K 766.490†	43369.7	45433.0	24.93 mg/L	24.93 mg/L	18:56:16
2	Li 670.784†	16463.8	17793.1	0.4935 mg/L	0.4935 mg/L	18:56:16
2	Na 589.592†	128216.4	136254.5	24.90 mg/L	24.90 mg/L	18:56:16
2	Sr 407.771†	38731.4	41233.9	0.0484 mg/L	0.0484 mg/L	18:56:16

2	Y 371.029	2532774.2	2532774.2	0.938 mg/L			18:56:45
2	Ag 328.068†	43164.3	44166.7	0.2467 mg/L	0.2467 mg/L		18:56:45
2	Al 237.313†	20234.8	22009.5	2.451 mg/L	2.451 mg/L		18:56:55
2	As 188.979†	614.0	661.4	0.4851 mg/L	0.4851 mg/L		18:56:55
2	B 182.528†	418.0	455.3	0.4886 mg/L	0.4886 mg/L		18:56:55
2	Ba 233.527†	51771.8	55308.2	0.4850 mg/L	0.4850 mg/L		18:56:45
2	Be 313.107†	101644.5	109835.1	0.0486 mg/L	0.0486 mg/L		18:56:45
2	Ca 315.887†	408673.4	437698.6	4.808 mg/L	4.808 mg/L		18:56:45
2	Cd 228.802†	7493.4	7832.2	0.2456 mg/L	0.2456 mg/L		18:56:55
2	Co 228.616†	22772.2	24526.8	0.4899 mg/L	0.4899 mg/L		18:56:55
2	Cr 267.716†	52441.9	55359.5	0.4863 mg/L	0.4863 mg/L		18:56:45
2	Cu 324.752†	89113.0	90230.2	0.4901 mg/L	0.4901 mg/L		18:56:45
2	Mg 279.077†	55945.6	59658.8	4.834 mg/L	4.834 mg/L		18:56:45
2	Mn 257.610†	369886.5	378386.9	0.4880 mg/L	0.4880 mg/L		18:56:45
2	Mn 294.920†	172799.6	185611.6	0.4856 mg/L	0.4856 mg/L		18:56:45
2	Mo 202.031†	10849.4	11534.2	0.4895 mg/L	0.4895 mg/L		18:56:55
2	Ni 231.604†	20471.9	21673.9	0.4855 mg/L	0.4855 mg/L		18:56:45
2	P 214.914†	7158.7	7661.3	4.837 mg/L	4.837 mg/L		18:56:55
2	Pb 220.353†	6718.4	6982.6	0.4932 mg/L	0.4932 mg/L		18:56:55
2	Sb 206.836†	1027.3	1047.8	0.4941 mg/L	0.4941 mg/L		18:56:55
2	Se 196.026†	1336.4	1414.2	0.9738 mg/L	0.9738 mg/L		18:56:55
2	Sn 189.927†	3157.9	3338.4	0.4957 mg/L	0.4957 mg/L		18:56:55
2	Ti 337.279†	388106.7	414509.8	0.4887 mg/L	0.4887 mg/L		18:56:45
2	Tl 190.801†	473.4	509.6	0.4931 mg/L	0.4931 mg/L		18:56:55
2	V 292.402†	98990.1	105914.7	0.4938 mg/L	0.4938 mg/L		18:56:45
2	Zn 213.857†	62801.1	65827.8	0.4830 mg/L	0.4830 mg/L		18:56:45

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2523236.0	0.934 mg/L	0.0050			0.53%
Ag 328.068†	44344.9	0.2477 mg/L	0.00140	0.2477 mg/L	0.00140	0.56%
QC value within limits for Ag 328.068 Recovery = 99.07%						
Al 237.313†	22210.8	2.473 mg/L	0.0315	2.473 mg/L	0.0315	1.27%
QC value within limits for Al 237.313 Recovery = 98.93%						
As 188.979†	672.6	0.4932 mg/L	0.01154	0.4932 mg/L	0.01154	2.34%
QC value within limits for As 188.979 Recovery = 98.64%						
B 249.677†	864.6	0.4832 mg/L	0.00187	0.4832 mg/L	0.00187	0.39%
QC value within limits for B 249.677 Recovery = 96.63%						
B 182.528†	455.3	0.4886 mg/L	0.00009	0.4886 mg/L	0.00009	0.02%
QC value within limits for B 182.528 Recovery = 97.73%						
Ba 233.527†	55577.7	0.4873 mg/L	0.00332	0.4873 mg/L	0.00332	0.68%
QC value within limits for Ba 233.527 Recovery = 97.47%						
Be 313.107†	110298.5	0.0488 mg/L	0.00029	0.0488 mg/L	0.00029	0.59%
QC value within limits for Be 313.107 Recovery = 97.65%						
Ca 315.887†	439630.2	4.829 mg/L	0.0298	4.829 mg/L	0.0298	0.62%
QC value within limits for Ca 315.887 Recovery = 96.57%						
Cd 228.802†	7893.8	0.2475 mg/L	0.00272	0.2475 mg/L	0.00272	1.10%
QC value within limits for Cd 228.802 Recovery = 98.99%						
Co 228.616†	24710.5	0.4936 mg/L	0.00520	0.4936 mg/L	0.00520	1.05%
QC value within limits for Co 228.616 Recovery = 98.72%						
Cr 267.716†	55599.7	0.4884 mg/L	0.00296	0.4884 mg/L	0.00296	0.61%
QC value within limits for Cr 267.716 Recovery = 97.68%						
Cu 324.752†	90586.5	0.4920 mg/L	0.00271	0.4920 mg/L	0.00271	0.55%
QC value within limits for Cu 324.752 Recovery = 98.40%						
Fe 234.349†	3577.8	2.381 mg/L	0.0034	2.381 mg/L	0.0034	0.14%
QC value within limits for Fe 234.349 Recovery = 95.26%						
K 766.490†	45602.3	25.03 mg/L	0.130	25.03 mg/L	0.130	0.52%
QC value within limits for K 766.490 Recovery = 100.11%						
Li 670.784†	17837.5	0.4947 mg/L	0.00173	0.4947 mg/L	0.00173	0.35%
QC value within limits for Li 670.784 Recovery = 98.95%						
Mg 279.077†	59808.7	4.846 mg/L	0.0171	4.846 mg/L	0.0171	0.35%
QC value within limits for Mg 279.077 Recovery = 96.91%						
Mn 257.610†	380095.1	0.4902 mg/L	0.00311	0.4902 mg/L	0.00311	0.63%
QC value within limits for Mn 257.610 Recovery = 98.03%						
Mn 294.920†	186437.3	0.4877 mg/L	0.00305	0.4877 mg/L	0.00305	0.62%
QC value within limits for Mn 294.920 Recovery = 97.54%						
Mo 202.031†	11599.8	0.4923 mg/L	0.00392	0.4923 mg/L	0.00392	0.80%
QC value within limits for Mo 202.031 Recovery = 98.45%						
Na 589.592†	136516.2	24.95 mg/L	0.067	24.95 mg/L	0.067	0.27%
QC value within limits for Na 589.592 Recovery = 99.81%						
Ni 231.604†	21777.6	0.4878 mg/L	0.00328	0.4878 mg/L	0.00328	0.67%

QC value within limits for Ni 231.604	Recovery = 97.57%					
P 214.914†	7727.8	4.878 mg/L	0.0588	4.878 mg/L	0.0588	1.21%
QC value within limits for P 214.914	Recovery = 97.57%					
Pb 220.353†	7039.9	0.4972 mg/L	0.00572	0.4972 mg/L	0.00572	1.15%
QC value within limits for Pb 220.353	Recovery = 99.45%					
Sb 206.836†	1053.8	0.4969 mg/L	0.00400	0.4969 mg/L	0.00400	0.81%
QC value within limits for Sb 206.836	Recovery = 99.38%					
Se 196.026†	1425.5	0.9816 mg/L	0.01097	0.9816 mg/L	0.01097	1.12%
QC value within limits for Se 196.026	Recovery = 98.16%					
Sn 189.927†	3371.9	0.5007 mg/L	0.00704	0.5007 mg/L	0.00704	1.41%
QC value within limits for Sn 189.927	Recovery = 100.14%					
Sr 407.771†	41338.9	0.0486 mg/L	0.00017	0.0486 mg/L	0.00017	0.36%
QC value within limits for Sr 407.771	Recovery = 97.13%					
Ti 337.279†	416236.3	0.4907 mg/L	0.00285	0.4907 mg/L	0.00285	0.58%
QC value within limits for Ti 337.279	Recovery = 98.15%					
Tl 190.801†	514.7	0.4980 mg/L	0.00699	0.4980 mg/L	0.00699	1.40%
QC value within limits for Tl 190.801	Recovery = 99.60%					
V 292.402†	106441.9	0.4962 mg/L	0.00345	0.4962 mg/L	0.00345	0.70%
QC value within limits for V 292.402	Recovery = 99.25%					
Zn 213.857†	66134.3	0.4852 mg/L	0.00316	0.4852 mg/L	0.00316	0.65%
QC value within limits for Zn 213.857	Recovery = 97.04%					

All analyte(s) passed QC.

Sequence No.: 79
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 6:58:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	6.2	13.0	0.0085	mg/L	0.0085	mg/L	19:00:22
1	Fe 234.349†	22.6	16.7	0.0217	mg/L	0.0217	mg/L	19:00:22
1	K 766.490†	925.0	144.9	0.2533	mg/L	0.2533	mg/L	19:00:12
1	Li 670.784†	-238.8	-12.9	0.0041	mg/L	0.0041	mg/L	19:00:12
1	Na 589.592†	-10.8	-490.9	0.0239	mg/L	0.0239	mg/L	19:00:12
1	Sr 407.771†	31.5	-37.8	0.0003	mg/L	0.0003	mg/L	19:00:12
1	Y 371.029	2595295.3	2595295.3	0.961	mg/L			19:00:38
1	Ag 328.068†	1716.2	-79.1	0.0013	mg/L	0.0013	mg/L	19:00:41
1	Al 237.313†	-343.2	73.2	0.0215	mg/L	0.0215	mg/L	19:00:41
1	As 188.979†	-8.4	-2.1	0.0029	mg/L	0.0029	mg/L	19:00:51
1	B 182.528†	1.2	10.8	0.0114	mg/L	0.0114	mg/L	19:00:51
1	Ba 233.527†	-91.7	1.6	0.0031	mg/L	0.0031	mg/L	19:00:51
1	Be 313.107†	-1413.1	-32.7	0.0004	mg/L	0.0004	mg/L	19:00:41
1	Ca 315.887†	-1776.0	27.2	0.0362	mg/L	0.0362	mg/L	19:00:41
1	Cd 228.802†	143.0	-10.2	0.0007	mg/L	0.0007	mg/L	19:00:51
1	Co 228.616†	-225.4	7.2	0.0002	mg/L	0.0002	mg/L	19:00:51
1	Cr 267.716†	491.5	-54.7	0.0029	mg/L	0.0029	mg/L	19:00:41
1	Cu 324.752†	4317.3	-309.7	0.0027	mg/L	0.0027	mg/L	19:00:41
1	Mg 279.077†	20.8	18.2	0.0267	mg/L	0.0267	mg/L	19:00:41
1	Mn 257.610†	15292.4	-157.1	0.0015	mg/L	0.0015	mg/L	19:00:41
1	Mn 294.920†	-1250.6	30.8	0.0016	mg/L	0.0016	mg/L	19:00:41
1	Mo 202.031†	58.1	24.6	0.0035	mg/L	0.0035	mg/L	19:00:51
1	Ni 231.604†	173.2	22.2	0.0021	mg/L	0.0021	mg/L	19:00:41
1	P 214.914†	-35.9	-10.3	0.0405	mg/L	0.0405	mg/L	19:00:51
1	Pb 220.353†	158.3	-17.3	-0.0014	mg/L	-0.0014	mg/L	19:00:51
1	Sb 206.836†	53.8	8.1	0.0080	mg/L	0.0080	mg/L	19:00:51
1	Se 196.026†	16.3	6.1	0.0092	mg/L	0.0092	mg/L	19:00:51
1	Sn 189.927†	41.9	14.3	0.0007	mg/L	0.0007	mg/L	19:00:51
1	Ti 337.279†	-494.1	105.6	0.0050	mg/L	0.0050	mg/L	19:00:41
1	Tl 190.801†	-7.1	-2.5	-0.0013	mg/L	-0.0013	mg/L	19:00:51
1	V 292.402†	-259.9	77.8	0.0049	mg/L	0.0049	mg/L	19:00:41
1	Zn 213.857†	1109.6	9.4	0.0027	mg/L	0.0027	mg/L	19:00:51
2	B 249.677†	0.0	6.5	0.0049	mg/L	0.0049	mg/L	19:00:35
2	Fe 234.349†	3.6	-3.0	0.0086	mg/L	0.0086	mg/L	19:00:35
2	K 766.490†	962.4	197.7	0.2821	mg/L	0.2821	mg/L	19:00:25
2	Li 670.784†	-292.1	-72.6	0.0025	mg/L	0.0025	mg/L	19:00:25
2	Na 589.592†	44.0	-433.2	0.0344	mg/L	0.0344	mg/L	19:00:25
2	Sr 407.771†	-8.3	-79.4	0.0003	mg/L	0.0003	mg/L	19:00:25
2	Y 371.029	2559661.5	2559661.5	0.948	mg/L			19:00:53

2	Ag	328.068†	1613.6	-162.5	0.0009	mg/L	0.0009	mg/L	19:00:55
2	Al	237.313†	-348.2	63.0	0.0203	mg/L	0.0203	mg/L	19:00:55
2	As	188.979†	-5.2	1.1	0.0052	mg/L	0.0052	mg/L	19:01:06
2	B	182.528†	-7.8	1.3	0.0013	mg/L	0.0013	mg/L	19:01:06
2	Ba	233.527†	-73.0	20.0	0.0033	mg/L	0.0033	mg/L	19:01:06
2	Be	313.107†	-1309.7	56.0	0.0004	mg/L	0.0004	mg/L	19:00:55
2	Ca	315.887†	-1625.1	160.7	0.0377	mg/L	0.0377	mg/L	19:00:55
2	Cd	228.802†	155.1	4.7	0.0012	mg/L	0.0012	mg/L	19:01:06
2	Co	228.616†	-252.6	-24.7	-0.0005	mg/L	-0.0005	mg/L	19:01:06
2	Cr	267.716†	518.2	-19.4	0.0032	mg/L	0.0032	mg/L	19:00:55
2	Cu	324.752†	4425.5	-132.9	0.0037	mg/L	0.0037	mg/L	19:00:55
2	Mg	279.077†	22.0	19.7	0.0268	mg/L	0.0268	mg/L	19:00:55
2	Mn	257.610†	15199.5	-33.5	0.0016	mg/L	0.0016	mg/L	19:00:55
2	Mn	294.920†	-1051.9	222.3	0.0021	mg/L	0.0021	mg/L	19:00:55
2	Mo	202.031†	27.8	-6.6	0.0022	mg/L	0.0022	mg/L	19:01:06
2	Ni	231.604†	141.4	-8.9	0.0014	mg/L	0.0014	mg/L	19:00:55
2	P	214.914†	-35.3	-10.2	0.0406	mg/L	0.0406	mg/L	19:01:06
2	Pb	220.353†	163.4	-9.6	-0.0008	mg/L	-0.0008	mg/L	19:01:06
2	Sb	206.836†	52.1	7.1	0.0075	mg/L	0.0075	mg/L	19:01:06
2	Se	196.026†	15.1	5.0	0.0085	mg/L	0.0085	mg/L	19:01:06
2	Sn	189.927†	25.3	-2.6	-0.0018	mg/L	-0.0018	mg/L	19:01:06
2	Ti	337.279†	-456.5	138.1	0.0051	mg/L	0.0051	mg/L	19:00:55
2	Tl	190.801†	-1.5	3.2	0.0043	mg/L	0.0043	mg/L	19:01:06
2	V	292.402†	-309.6	21.6	0.0047	mg/L	0.0047	mg/L	19:00:55
2	Zn	213.857†	1083.9	-1.7	0.0027	mg/L	0.0027	mg/L	19:01:06

Mean Data: CCBl

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2577478.4	0.954 mg/L	0.0093			0.98%
Ag 328.068†	-120.8	0.0011 mg/L	0.00033	0.0011 mg/L	0.00033	29.58%
QC value within limits for Ag 328.068			Recovery =	Not calculated		
Al 237.313†	68.1	0.0209 mg/L	0.00080	0.0209 mg/L	0.00080	3.85%
QC value within limits for Al 237.313			Recovery =	Not calculated		
As 188.979†	-0.5	0.0040 mg/L	0.00165	0.0040 mg/L	0.00165	40.86%
QC value within limits for As 188.979			Recovery =	Not calculated		
B 249.677†	9.8	0.0067 mg/L	0.00254	0.0067 mg/L	0.00254	37.87%
QC value within limits for B 249.677			Recovery =	Not calculated		
B 182.528†	6.0	0.0064 mg/L	0.00718	0.0064 mg/L	0.00718	112.58%
QC value within limits for B 182.528			Recovery =	Not calculated		
Ba 233.527†	10.8	0.0032 mg/L	0.00011	0.0032 mg/L	0.00011	3.52%
QC value greater than the upper limit for Ba 233.527			Recovery =	Not calculated		
Be 313.107†	11.7	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.15%
QC value within limits for Be 313.107			Recovery =	Not calculated		
Ca 315.887†	94.0	0.0370 mg/L	0.00103	0.0370 mg/L	0.00103	2.79%
QC value greater than the upper limit for Ca 315.887			Recovery =	Not calculated		
Cd 228.802†	-2.8	0.0009 mg/L	0.00033	0.0009 mg/L	0.00033	35.58%
QC value within limits for Cd 228.802			Recovery =	Not calculated		
Co 228.616†	-8.8	-0.0002 mg/L	0.00045	-0.0002 mg/L	0.00045	270.00%
QC value within limits for Co 228.616			Recovery =	Not calculated		
Cr 267.716†	-37.0	0.0031 mg/L	0.00022	0.0031 mg/L	0.00022	7.08%
QC value within limits for Cr 267.716			Recovery =	Not calculated		
Cu 324.752†	-221.3	0.0032 mg/L	0.00067	0.0032 mg/L	0.00067	20.91%
QC value within limits for Cu 324.752			Recovery =	Not calculated		
Fe 234.349†	6.9	0.0152 mg/L	0.00929	0.0152 mg/L	0.00929	61.22%
QC value within limits for Fe 234.349			Recovery =	Not calculated		
K 766.490†	171.3	0.2677 mg/L	0.02035	0.2677 mg/L	0.02035	7.60%
QC value greater than the upper limit for K 766.490			Recovery =	Not calculated		
Li 670.784†	-42.8	0.0033 mg/L	0.00116	0.0033 mg/L	0.00116	35.46%
QC value within limits for Li 670.784			Recovery =	Not calculated		
Mg 279.077†	19.0	0.0267 mg/L	0.00009	0.0267 mg/L	0.00009	0.32%
QC value greater than the upper limit for Mg 279.077			Recovery =	Not calculated		
Mn 257.610†	-95.3	0.0016 mg/L	0.00011	0.0016 mg/L	0.00011	7.31%
QC value within limits for Mn 257.610			Recovery =	Not calculated		
Mn 294.920†	126.5	0.0018 mg/L	0.00035	0.0018 mg/L	0.00035	19.15%
QC value within limits for Mn 294.920			Recovery =	Not calculated		
Mo 202.031†	9.0	0.0029 mg/L	0.00094	0.0029 mg/L	0.00094	32.55%
QC value greater than the upper limit for Mo 202.031			Recovery =	Not calculated		
Na 589.592†	-462.1	0.0291 mg/L	0.00742	0.0291 mg/L	0.00742	25.47%
QC value within limits for Na 589.592			Recovery =	Not calculated		
Ni 231.604†	6.7	0.0018 mg/L	0.00049	0.0018 mg/L	0.00049	27.68%
QC value within limits for Ni 231.604			Recovery =	Not calculated		

P 214.914†	-10.2	0.0405 mg/L	0.00007	0.0405 mg/L	0.00007	0.16%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	-13.5	-0.0011 mg/L	0.00038	-0.0011 mg/L	0.00038	34.56%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.6	0.0078 mg/L	0.00034	0.0078 mg/L	0.00034	4.34%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.6	0.0088 mg/L	0.00052	0.0088 mg/L	0.00052	5.92%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	5.8	-0.0005 mg/L	0.00177	-0.0005 mg/L	0.00177	333.78%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-58.6	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	11.45%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	121.8	0.0050 mg/L	0.00003	0.0050 mg/L	0.00003	0.53%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	0.3	0.0015 mg/L	0.00395	0.0015 mg/L	0.00395	268.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	49.7	0.0048 mg/L	0.00019	0.0048 mg/L	0.00019	4.03%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	3.9	0.0027 mg/L	0.00005	0.0027 mg/L	0.00005	2.02%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 80
Sample ID: IFA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 7/5/2013 7:02:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: IFA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. mg/L	Calib. Units	Sample Conc. mg/L	Analysis Time
1	B 249.677†	-28.4	-25.2	-0.0127	mg/L	-0.0127	19:04:25
1	Fe 234.349†	124670.7	139083.6	92.38	mg/L	92.38	19:04:23
1	K 766.490†	837.1	116.0	0.2376	mg/L	0.2376	19:04:25
1	Li 670.784†	-344.3	-148.6	0.0004	mg/L	0.0004	19:04:25
1	Na 589.592†	135.3	-328.8	0.0534	mg/L	0.0534	19:04:25
1	Sr 407.771†	5957.8	6576.3	0.0080	mg/L	0.0080	19:04:25
1	Y 371.029	2421017.0	2421017.0	0.896	mg/L		19:04:38
1	Ag 328.068†	1223.3	-500.4	0.0013	mg/L	0.0013	19:04:40
1	Al 237.313†	2014323.2	2247733.3	248.8	mg/L	248.8	19:04:38
1	As 188.979†	3.1	10.1	0.0117	mg/L	0.0117	19:04:51
1	B 182.528†	27.1	39.8	0.0426	mg/L	0.0426	19:04:51
1	Ba 233.527†	12.1	110.5	0.0041	mg/L	0.0041	19:04:51
1	Be 313.107†	4293.9	6228.6	0.0007	mg/L	0.0007	19:04:40
1	Ca 315.887†	19144015.0	21360116.3	232.8	mg/L	232.8	19:04:35
1	Cd 228.802†	178.5	40.1	0.0007	mg/L	0.0007	19:04:51
1	Co 228.616†	602.4	913.9	-0.0029	mg/L	-0.0029	19:04:51
1	Cr 267.716†	686.2	199.3	0.0051	mg/L	0.0051	19:04:51
1	Cu 324.752†	2393.8	-2132.2	0.0048	mg/L	0.0048	19:04:40
1	Mg 279.077†	2655707.3	2962867.0	238.8	mg/L	238.8	19:04:38
1	Mn 257.610†	26740.8	13761.2	-0.0016	mg/L	-0.0016	19:04:40
1	Mn 294.920†	15586.2	18721.2	0.0503	mg/L	0.0503	19:04:40
1	Mo 202.031†	413.9	425.9	0.0067	mg/L	0.0067	19:04:51
1	Ni 231.604†	155.7	15.6	0.0020	mg/L	0.0020	19:04:51
1	P 214.914†	-170.0	-162.6	-0.0549	mg/L	-0.0549	19:04:51
1	Pb 220.353†	843.7	759.2	0.0027	mg/L	0.0027	19:04:51
1	Sb 206.836†	102.6	66.7	0.0090	mg/L	0.0090	19:04:51
1	Se 196.026†	15.9	6.8	-0.0089	mg/L	-0.0089	19:04:51
1	Sn 189.927†	-951.3	-1090.6	-0.0189	mg/L	-0.0189	19:04:51
1	Ti 337.279†	7609587.7	8490344.0	9.915	mg/L	9.915	19:04:38
1	Tl 190.801†	51.8	62.6	0.0111	mg/L	0.0111	19:04:51
1	V 292.402†	2958.2	3648.7	0.0015	mg/L	0.0015	19:04:51
1	Zn 213.857†	1254.1	253.7	0.0004	mg/L	0.0004	19:04:51
2	B 249.677†	-19.2	-15.0	-0.0071	mg/L	-0.0071	19:04:30
2	Fe 234.349†	124037.7	139384.8	92.58	mg/L	92.58	19:04:27
2	K 766.490†	899.2	192.6	0.2793	mg/L	0.2793	19:04:30
2	Li 670.784†	-281.2	-80.4	0.0022	mg/L	0.0022	19:04:30
2	Na 589.592†	199.0	-256.1	0.0666	mg/L	0.0666	19:04:30
2	Sr 407.771†	5832.4	6483.8	0.0079	mg/L	0.0079	19:04:30
2	Y 371.029	2403518.7	2403518.7	0.890	mg/L		19:04:57
2	Ag 328.068†	1110.0	-617.7	0.0007	mg/L	0.0007	19:05:00

2	Al	237.313†	2011404.0	2260813.8	250.2 mg/L	250.2 mg/L	19:04:57
2	As	188.979†	9.4	17.2	0.0168 mg/L	0.0168 mg/L	19:05:10
2	B	182.528†	27.4	40.3	0.0432 mg/L	0.0432 mg/L	19:05:10
2	Ba	233.527†	23.5	123.4	0.0042 mg/L	0.0042 mg/L	19:05:10
2	Be	313.107†	4356.4	6333.6	0.0008 mg/L	0.0008 mg/L	19:05:00
2	Ca	315.887†	18898447.3	21239645.8	231.5 mg/L	231.5 mg/L	19:04:55
2	Cd	228.802†	175.7	38.4	0.0006 mg/L	0.0006 mg/L	19:05:10
2	Co	228.616†	592.4	907.5	-0.0032 mg/L	-0.0032 mg/L	19:05:10
2	Cr	267.716†	686.3	205.0	0.0052 mg/L	0.0052 mg/L	19:05:10
2	Cu	324.752†	2336.8	-2176.8	0.0046 mg/L	0.0046 mg/L	19:05:00
2	Mg	279.077†	2648056.1	2975839.3	239.8 mg/L	239.8 mg/L	19:04:57
2	Mn	257.610†	26708.8	13942.4	-0.0014 mg/L	-0.0014 mg/L	19:05:00
2	Mn	294.920†	15792.9	19080.1	0.0513 mg/L	0.0513 mg/L	19:05:00
2	Mo	202.031†	422.8	439.2	0.0073 mg/L	0.0073 mg/L	19:05:10
2	Ni	231.604†	141.6	1.1	0.0017 mg/L	0.0017 mg/L	19:05:10
2	P	214.914†	-186.3	-182.2	-0.0672 mg/L	-0.0672 mg/L	19:05:10
2	Pb	220.353†	841.7	763.8	0.0027 mg/L	0.0027 mg/L	19:05:10
2	Sb	206.836†	101.3	65.9	0.0086 mg/L	0.0086 mg/L	19:05:10
2	Se	196.026†	18.1	9.5	-0.0071 mg/L	-0.0071 mg/L	19:05:10
2	Sn	189.927†	-956.0	-1103.6	-0.0216 mg/L	-0.0216 mg/L	19:05:10
2	Ti	337.279†	7601400.9	8542951.6	9.976 mg/L	9.976 mg/L	19:04:57
2	Tl	190.801†	36.4	45.7	-0.0055 mg/L	-0.0055 mg/L	19:05:10
2	V	292.402†	3029.2	3752.5	0.0018 mg/L	0.0018 mg/L	19:05:10
2	Zn	213.857†	1270.8	282.7	0.0006 mg/L	0.0006 mg/L	19:05:10

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2412267.8	0.893 mg/L	0.0046			0.51%
Ag 328.068†	-559.1	0.0010 mg/L	0.00046	0.0010 mg/L	0.00046	45.55%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	2254273.6	249.5 mg/L	1.02	249.5 mg/L	1.02	0.41%
QC value within limits for Al 237.313 Recovery = 99.79%						
As 188.979†	13.6	0.0143 mg/L	0.00362	0.0143 mg/L	0.00362	25.39%
QC value greater than the upper limit for As 188.979 Recovery = Not calculated						
B 249.677†	-20.1	-0.0099 mg/L	0.00399	-0.0099 mg/L	0.00399	40.28%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	40.1	0.0429 mg/L	0.00041	0.0429 mg/L	0.00041	0.95%
QC value greater than the upper limit for B 182.528 Recovery = Not calculated						
Ba 233.527†	117.0	0.0041 mg/L	0.00008	0.0041 mg/L	0.00008	1.91%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	6281.1	0.0008 mg/L	0.00002	0.0008 mg/L	0.00002	2.94%
QC value greater than the upper limit for Be 313.107 Recovery = Not calculated						
Ca 315.887†	21299881.0	232.2 mg/L	0.93	232.2 mg/L	0.93	0.40%
QC value within limits for Ca 315.887 Recovery = 92.87%						
Cd 228.802†	39.2	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	5.84%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	910.7	-0.0031 mg/L	0.00018	-0.0031 mg/L	0.00018	5.93%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	202.1	0.0052 mg/L	0.00004	0.0052 mg/L	0.00004	0.68%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2154.5	0.0047 mg/L	0.00012	0.0047 mg/L	0.00012	2.51%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	139234.2	92.48 mg/L	0.144	92.48 mg/L	0.144	0.16%
QC value within limits for Fe 234.349 Recovery = 92.48%						
K 766.490†	154.3	0.2584 mg/L	0.02952	0.2584 mg/L	0.02952	11.42%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-114.5	0.0013 mg/L	0.00132	0.0013 mg/L	0.00132	101.72%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	2969353.1	239.3 mg/L	0.74	239.3 mg/L	0.74	0.31%
QC value within limits for Mg 279.077 Recovery = 95.72%						
Mn 257.610†	13851.8	-0.0015 mg/L	0.00013	-0.0015 mg/L	0.00013	9.01%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	18900.7	0.0508 mg/L	0.00066	0.0508 mg/L	0.00066	1.30%
QC value greater than the upper limit for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	432.6	0.0070 mg/L	0.00038	0.0070 mg/L	0.00038	5.42%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-292.4	0.0600 mg/L	0.00935	0.0600 mg/L	0.00935	15.58%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	8.4	0.0018 mg/L	0.00023	0.0018 mg/L	0.00023	12.44%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-172.4	-0.0611 mg/L	0.00869	-0.0611 mg/L	0.00869	14.23%

QC value less than the lower limit for P 214.914 Recovery = Not calculated
Pb 220.353† 761.5 0.0027 mg/L 0.00002 0.0027 mg/L 0.00002 0.85%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 66.3 0.0088 mg/L 0.00028 0.0088 mg/L 0.00028 3.15%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated
Se 196.026† 8.1 -0.0080 mg/L 0.00127 -0.0080 mg/L 0.00127 15.97%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† -1097.1 -0.0202 mg/L 0.00193 -0.0202 mg/L 0.00193 9.54%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated
Sr 407.771† 6530.0 0.0080 mg/L 0.00008 0.0080 mg/L 0.00008 0.96%
QC value within limits for Sr 407.771 Recovery = Not calculated
Ti 337.279† 8516647.8 9.946 mg/L 0.0434 9.946 mg/L 0.0434 0.44%
QC value within limits for Ti 337.279 Recovery = 99.46%
Tl 190.801† 54.1 0.0028 mg/L 0.01171 0.0028 mg/L 0.01171 418.53%
QC value within limits for Tl 190.801 Recovery = Not calculated
V 292.402† 3700.6 0.0016 mg/L 0.00025 0.0016 mg/L 0.00025 15.40%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated
Zn 213.857† 268.2 0.0005 mg/L 0.00015 0.0005 mg/L 0.00015 30.32%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 81 Autosampler Location: 159
Sample ID: IFB Date Collected: 7/5/2013 7:06:48 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: IFB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-39.4	-38.2	-0.0199 mg/L		-0.0199 mg/L	19:08:32
1	Fe 234.349†	125377.5	142140.8	94.40 mg/L		94.40 mg/L	19:08:30
1	K 766.490†	800.2	89.4	0.2230 mg/L		0.2230 mg/L	19:08:32
1	Li 670.784†	-292.3	-95.8	0.0018 mg/L		0.0018 mg/L	19:08:32
1	Na 589.592†	307.7	-130.9	0.0894 mg/L		0.0894 mg/L	19:08:32
1	Sr 407.771†	5873.9	6589.0	0.0081 mg/L		0.0081 mg/L	19:08:32
1	Y 371.029	2382376.0	2382376.0	0.882 mg/L			19:08:45
1	Ag 328.068†	84233.2	93634.8	0.5231 mg/L		0.5231 mg/L	19:08:48
1	Al 237.313†	2008781.1	2277900.1	252.1 mg/L		252.1 mg/L	19:08:45
1	As 188.979†	-4.7	1.3	0.0049 mg/L		0.0049 mg/L	19:08:58
1	B 182.528†	22.7	35.3	0.0378 mg/L		0.0378 mg/L	19:08:58
1	Ba 233.527†	24665.1	28061.2	0.2476 mg/L		0.2476 mg/L	19:08:58
1	Be 313.107†	486044.3	552494.2	0.2434 mg/L		0.2434 mg/L	19:08:45
1	Ca 315.887†	19122721.9	21682395.6	236.3 mg/L		236.3 mg/L	19:08:42
1	Cd 228.802†	13731.2	15408.8	0.4806 mg/L		0.4806 mg/L	19:08:58
1	Co 228.616†	9514.4	11028.8	0.2207 mg/L		0.2207 mg/L	19:08:58
1	Cr 267.716†	24854.2	27612.4	0.2441 mg/L		0.2441 mg/L	19:08:48
1	Cu 324.752†	44151.3	45253.9	0.2478 mg/L		0.2478 mg/L	19:08:48
1	Mg 279.077†	2645072.4	2998866.0	241.7 mg/L		241.7 mg/L	19:08:45
1	Mn 257.610†	190774.8	200219.8	0.2379 mg/L		0.2379 mg/L	19:08:48
1	Mn 294.920†	96256.3	110463.5	0.2896 mg/L		0.2896 mg/L	19:08:48
1	Mo 202.031†	442.0	465.2	0.0067 mg/L		0.0067 mg/L	19:08:58
1	Ni 231.604†	17620.1	19818.9	0.4434 mg/L		0.4434 mg/L	19:08:58
1	P 214.914†	-188.1	-186.2	-0.0714 mg/L		-0.0714 mg/L	19:08:58
1	Pb 220.353†	6654.1	7362.0	0.4675 mg/L		0.4675 mg/L	19:08:58
1	Sb 206.836†	110.4	77.3	0.0114 mg/L		0.0114 mg/L	19:08:58
1	Se 196.026†	28.1	21.0	0.0005 mg/L		0.0005 mg/L	19:08:58
1	Sn 189.927†	-958.4	-1115.9	-0.0204 mg/L		-0.0204 mg/L	19:08:58
1	Ti 337.279†	2163.6	3072.8	0.0085 mg/L		0.0085 mg/L	19:08:48
1	Tl 190.801†	41.2	51.6	-0.0020 mg/L		-0.0020 mg/L	19:08:58
1	V 292.402†	49222.7	56154.8	0.2609 mg/L		0.2609 mg/L	19:08:48
1	Zn 213.857†	58306.7	64960.2	0.4730 mg/L		0.4730 mg/L	19:08:48
2	B 249.677†	-41.1	-40.0	-0.0209 mg/L		-0.0209 mg/L	19:08:37
2	Fe 234.349†	125720.8	142018.6	94.33 mg/L		94.33 mg/L	19:08:35
2	K 766.490†	953.7	259.6	0.3158 mg/L		0.3158 mg/L	19:08:37
2	Li 670.784†	-146.9	69.7	0.0064 mg/L		0.0064 mg/L	19:08:37
2	Na 589.592†	190.9	-264.1	0.0652 mg/L		0.0652 mg/L	19:08:37
2	Sr 407.771†	6025.8	6736.7	0.0082 mg/L		0.0082 mg/L	19:08:37
2	Y 371.029	2390953.9	2390953.9	0.885 mg/L			19:09:05
2	Ag 328.068†	83805.4	92809.0	0.5185 mg/L		0.5185 mg/L	19:09:07
2	Al 237.313†	2016048.0	2277938.7	252.1 mg/L		252.1 mg/L	19:09:05

2	As	188.979†	-4.1	2.0	0.0054 mg/L	0.0054 mg/L	19:09:17
2	B	182.528†	19.5	31.6	0.0338 mg/L	0.0338 mg/L	19:09:17
2	Ba	233.527†	24762.2	28070.6	0.2477 mg/L	0.2477 mg/L	19:09:17
2	Be	313.107†	486900.2	551484.1	0.2430 mg/L	0.2430 mg/L	19:09:05
2	Ca	315.887†	19039084.3	21510129.1	234.5 mg/L	234.5 mg/L	19:09:02
2	Cd	228.802†	13786.8	15415.7	0.4808 mg/L	0.4808 mg/L	19:09:17
2	Co	228.616†	9494.7	10967.8	0.2194 mg/L	0.2194 mg/L	19:09:17
2	Cr	267.716†	24618.4	27244.9	0.2409 mg/L	0.2409 mg/L	19:09:07
2	Cu	324.752†	44150.5	45073.5	0.2469 mg/L	0.2469 mg/L	19:09:07
2	Mg	279.077†	2652217.0	2996178.3	241.5 mg/L	241.5 mg/L	19:09:05
2	Mn	257.610†	189921.7	198480.0	0.2356 mg/L	0.2356 mg/L	19:09:07
2	Mn	294.920†	95840.4	109602.2	0.2873 mg/L	0.2873 mg/L	19:09:07
2	Mo	202.031†	410.2	427.5	0.0051 mg/L	0.0051 mg/L	19:09:17
2	Ni	231.604†	17611.9	19737.9	0.4416 mg/L	0.4416 mg/L	19:09:17
2	P	214.914†	-197.8	-196.4	-0.0778 mg/L	-0.0778 mg/L	19:09:17
2	Pb	220.353†	6711.1	7399.4	0.4701 mg/L	0.4701 mg/L	19:09:17
2	Sb	206.836†	103.4	69.0	0.0075 mg/L	0.0075 mg/L	19:09:17
2	Se	196.026†	27.1	19.8	-0.0004 mg/L	-0.0004 mg/L	19:09:17
2	Sn	189.927†	-958.6	-1112.2	-0.0211 mg/L	-0.0211 mg/L	19:09:17
2	Ti	337.279†	2043.6	2928.4	0.0083 mg/L	0.0083 mg/L	19:09:07
2	Tl	190.801†	42.4	52.7	-0.0009 mg/L	-0.0009 mg/L	19:09:17
2	V	292.402†	48914.1	55606.0	0.2584 mg/L	0.2584 mg/L	19:09:07
2	Zn	213.857†	58035.6	64416.8	0.4690 mg/L	0.4690 mg/L	19:09:07

Mean Data: IFB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2386665.0	0.884 mg/L	0.0022			0.25%
Ag 328.068†	93221.9	0.5208 mg/L	0.00324	0.5208 mg/L	0.00324	0.62%
QC value within limits for Ag 328.068		Recovery = 104.16%				
Al 237.313†	2277919.4	252.1 mg/L	0.00	252.1 mg/L	0.00	0.00%
QC value within limits for Al 237.313		Recovery = 100.84%				
As 188.979†	1.6	0.0051 mg/L	0.00034	0.0051 mg/L	0.00034	6.62%
QC value within limits for As 188.979		Recovery = Not calculated				
B 249.677†	-39.1	-0.0204 mg/L	0.00072	-0.0204 mg/L	0.00072	3.50%
QC value within limits for B 249.677		Recovery = Not calculated				
B 182.528†	33.4	0.0358 mg/L	0.00286	0.0358 mg/L	0.00286	7.99%
QC value within limits for B 182.528		Recovery = Not calculated				
Ba 233.527†	28065.9	0.2476 mg/L	0.00006	0.2476 mg/L	0.00006	0.02%
QC value within limits for Ba 233.527		Recovery = 99.06%				
Be 313.107†	551989.1	0.2432 mg/L	0.00031	0.2432 mg/L	0.00031	0.13%
QC value within limits for Be 313.107		Recovery = 97.27%				
Ca 315.887†	21596262.3	235.4 mg/L	1.33	235.4 mg/L	1.33	0.56%
QC value within limits for Ca 315.887		Recovery = 94.16%				
Cd 228.802†	15412.3	0.4807 mg/L	0.00015	0.4807 mg/L	0.00015	0.03%
QC value within limits for Cd 228.802		Recovery = 96.14%				
Co 228.616†	10998.3	0.2200 mg/L	0.00086	0.2200 mg/L	0.00086	0.39%
QC value within limits for Co 228.616		Recovery = 88.02%				
Cr 267.716†	27428.7	0.2425 mg/L	0.00227	0.2425 mg/L	0.00227	0.93%
QC value within limits for Cr 267.716		Recovery = 97.00%				
Cu 324.752†	45163.7	0.2473 mg/L	0.00069	0.2473 mg/L	0.00069	0.28%
QC value within limits for Cu 324.752		Recovery = 98.94%				
Fe 234.349†	142079.7	94.36 mg/L	0.055	94.36 mg/L	0.055	0.06%
QC value within limits for Fe 234.349		Recovery = 94.36%				
K 766.490†	174.5	0.2694 mg/L	0.06558	0.2694 mg/L	0.06558	24.34%
QC value within limits for K 766.490		Recovery = Not calculated				
Li 670.784†	-13.0	0.0041 mg/L	0.00322	0.0041 mg/L	0.00322	78.61%
QC value within limits for Li 670.784		Recovery = Not calculated				
Mg 279.077†	2997522.1	241.6 mg/L	0.15	241.6 mg/L	0.15	0.06%
QC value within limits for Mg 279.077		Recovery = 96.63%				
Mn 257.610†	199349.9	0.2368 mg/L	0.00157	0.2368 mg/L	0.00157	0.66%
QC value within limits for Mn 257.610		Recovery = 94.70%				
Mn 294.920†	110032.9	0.2885 mg/L	0.00159	0.2885 mg/L	0.00159	0.55%
QC value within limits for Mn 294.920		Recovery = 115.39%				
Mo 202.031†	446.3	0.0059 mg/L	0.00112	0.0059 mg/L	0.00112	19.07%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592†	-197.5	0.0773 mg/L	0.01714	0.0773 mg/L	0.01714	22.18%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	19778.4	0.4425 mg/L	0.00128	0.4425 mg/L	0.00128	0.29%
QC value within limits for Ni 231.604		Recovery = 88.51%				
P 214.914†	-191.3	-0.0746 mg/L	0.00452	-0.0746 mg/L	0.00452	6.06%
QC value within limits for P 214.914		Recovery = Not calculated				

2	B	182.528†	-6.6	2.7	0.0028	mg/L	0.0028	mg/L	19:13:22
2	Ba	233.527†	-33.0	62.7	0.0037	mg/L	0.0037	mg/L	19:13:22
2	Be	313.107†	-1244.6	142.7	0.0004	mg/L	0.0004	mg/L	19:13:12
2	Ca	315.887†	4733.6	6802.3	0.1101	mg/L	0.1101	mg/L	19:13:12
2	Cd	228.802†	152.7	-0.1	0.0010	mg/L	0.0010	mg/L	19:13:22
2	Co	228.616†	-205.6	27.8	0.0006	mg/L	0.0006	mg/L	19:13:22
2	Cr	267.716†	567.3	24.2	0.0036	mg/L	0.0036	mg/L	19:13:12
2	Cu	324.752†	4253.5	-375.8	0.0024	mg/L	0.0024	mg/L	19:13:12
2	Mg	279.077†	945.9	981.0	0.1042	mg/L	0.1042	mg/L	19:13:12
2	Mn	257.610†	17278.6	1911.0	0.0041	mg/L	0.0041	mg/L	19:13:12
2	Mn	294.920†	-136.4	1190.4	0.0046	mg/L	0.0046	mg/L	19:13:12
2	Mo	202.031†	73.8	40.9	0.0042	mg/L	0.0042	mg/L	19:13:22
2	Ni	231.604†	199.0	49.1	0.0027	mg/L	0.0027	mg/L	19:13:12
2	P	214.914†	-22.3	3.9	0.0493	mg/L	0.0493	mg/L	19:13:22
2	Pb	220.353†	198.2	24.1	0.0015	mg/L	0.0015	mg/L	19:13:22
2	Sb	206.836†	47.3	1.4	0.0048	mg/L	0.0048	mg/L	19:13:22
2	Se	196.026†	17.5	7.3	0.0100	mg/L	0.0100	mg/L	19:13:22
2	Sn	189.927†	56.7	29.7	0.0030	mg/L	0.0030	mg/L	19:13:22
2	Ti	337.279†	3228.3	3979.8	0.0095	mg/L	0.0095	mg/L	19:13:12
2	Tl	190.801†	-0.4	4.4	0.0053	mg/L	0.0053	mg/L	19:13:22
2	V	292.402†	-279.2	57.7	0.0048	mg/L	0.0048	mg/L	19:13:12
2	Zn	213.857†	1489.5	404.8	0.0056	mg/L	0.0056	mg/L	19:13:22

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2581707.0	0.956	mg/L	0.0070				0.74%
Ag 328.068†	-55.3	0.0015	mg/L	0.00064	0.0015	mg/L	0.00064	43.25%
Al 237.313†	1166.7	0.1425	mg/L	0.00040	0.1425	mg/L	0.00040	0.28%
As 188.979†	5.9	0.0087	mg/L	0.00402	0.0087	mg/L	0.00402	46.39%
B 249.677†	-1.7	0.0003	mg/L	0.00144	0.0003	mg/L	0.00144	479.03%
B 182.528†	-0.1	-0.0002	mg/L	0.00415	-0.0002	mg/L	0.00415	>999.9%
Ba 233.527†	61.6	0.0037	mg/L	0.00001	0.0037	mg/L	0.00001	0.34%
Be 313.107†	139.5	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.47%
Ca 315.887†	6787.6	0.1099	mg/L	0.00022	0.1099	mg/L	0.00022	0.20%
Cd 228.802†	2.2	0.0011	mg/L	0.00010	0.0011	mg/L	0.00010	9.42%
Co 228.616†	15.7	0.0003	mg/L	0.00034	0.0003	mg/L	0.00034	109.88%
Cr 267.716†	29.8	0.0036	mg/L	0.00007	0.0036	mg/L	0.00007	1.88%
Cu 324.752†	-382.9	0.0024	mg/L	0.00005	0.0024	mg/L	0.00005	2.27%
Fe 234.349†	316.9	0.2218	mg/L	0.00438	0.2218	mg/L	0.00438	1.98%
K 766.490†	76.0	0.2157	mg/L	0.00333	0.2157	mg/L	0.00333	1.54%
Li 670.784†	-57.6	0.0029	mg/L	0.00092	0.0029	mg/L	0.00092	31.99%
Mg 279.077†	971.2	0.1035	mg/L	0.00112	0.1035	mg/L	0.00112	1.08%
Mn 257.610†	1980.3	0.0042	mg/L	0.00013	0.0042	mg/L	0.00013	3.04%
Mn 294.920†	1195.1	0.0046	mg/L	0.00002	0.0046	mg/L	0.00002	0.38%
Mo 202.031†	35.5	0.0040	mg/L	0.00032	0.0040	mg/L	0.00032	8.06%
Na 589.592†	-452.4	0.0309	mg/L	0.00505	0.0309	mg/L	0.00505	16.35%
Ni 231.604†	67.0	0.0031	mg/L	0.00056	0.0031	mg/L	0.00056	18.08%
P 214.914†	7.2	0.0515	mg/L	0.00300	0.0515	mg/L	0.00300	5.83%
Pb 220.353†	4.2	0.0001	mg/L	0.00199	0.0001	mg/L	0.00199	>999.9%
Sb 206.836†	0.3	0.0043	mg/L	0.00072	0.0043	mg/L	0.00072	16.57%
Se 196.026†	7.3	0.0100	mg/L	0.00000	0.0100	mg/L	0.00000	0.04%
Sn 189.927†	24.2	0.0022	mg/L	0.00114	0.0022	mg/L	0.00114	51.01%
Sr 407.771†	76.1	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	8.49%
Ti 337.279†	4149.0	0.0097	mg/L	0.00028	0.0097	mg/L	0.00028	2.87%
Tl 190.801†	0.8	0.0018	mg/L	0.00500	0.0018	mg/L	0.00500	275.94%
V 292.402†	98.6	0.0050	mg/L	0.00026	0.0050	mg/L	0.00026	5.13%
Zn 213.857†	417.8	0.0057	mg/L	0.00013	0.0057	mg/L	0.00013	2.29%

Sequence No.: 83

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 7:14:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	B 249.677†	797.5	856.4	0.4786 mg/L	0.4786 mg/L	19:16:43
1	Fe 234.349†	3389.4	3605.3	2.400 mg/L	2.400 mg/L	19:16:43

1	K 766.490†	43539.4	45582.1	25.02 mg/L	25.02 mg/L	19:16:33
1	Li 670.784†	16661.7	17992.0	0.4990 mg/L	0.4990 mg/L	19:16:33
1	Na 589.592†	128705.7	136682.1	24.98 mg/L	24.98 mg/L	19:16:33
1	Sr 407.771†	39160.0	41662.3	0.0489 mg/L	0.0489 mg/L	19:16:33
1	Y 371.029	2534513.7	2534513.7	0.938 mg/L		19:17:00
1	Ag 328.068†	43833.5	44848.3	0.2505 mg/L	0.2505 mg/L	19:17:02
1	Al 237.313†	20109.8	21861.5	2.435 mg/L	2.435 mg/L	19:17:02
1	As 188.979†	616.8	664.0	0.4869 mg/L	0.4869 mg/L	19:17:12
1	B 182.528†	422.7	460.0	0.4936 mg/L	0.4936 mg/L	19:17:12
1	Ba 233.527†	52226.5	55754.9	0.4889 mg/L	0.4889 mg/L	19:17:02
1	Be 313.107†	103138.8	111353.2	0.0493 mg/L	0.0493 mg/L	19:17:00
1	Ca 315.887†	413898.0	442967.3	4.865 mg/L	4.865 mg/L	19:17:00
1	Cd 228.802†	7536.5	7872.6	0.2468 mg/L	0.2468 mg/L	19:17:12
1	Co 228.616†	22526.2	24248.0	0.4844 mg/L	0.4844 mg/L	19:17:02
1	Cr 267.716†	53038.9	55957.4	0.4915 mg/L	0.4915 mg/L	19:17:02
1	Cu 324.752†	89761.3	90855.9	0.4934 mg/L	0.4934 mg/L	19:17:02
1	Mg 279.077†	56618.5	60334.9	4.888 mg/L	4.888 mg/L	19:17:02
1	Mn 257.610†	374264.3	382781.5	0.4936 mg/L	0.4936 mg/L	19:17:02
1	Mn 294.920†	174933.1	187758.8	0.4912 mg/L	0.4912 mg/L	19:17:02
1	Mo 202.031†	10792.3	11465.5	0.4866 mg/L	0.4866 mg/L	19:17:12
1	Ni 231.604†	20581.3	21775.5	0.4878 mg/L	0.4878 mg/L	19:17:02
1	P 214.914†	7108.7	7602.8	4.800 mg/L	4.800 mg/L	19:17:12
1	Pb 220.353†	6704.3	6962.6	0.4918 mg/L	0.4918 mg/L	19:17:12
1	Sb 206.836†	1027.2	1046.8	0.4935 mg/L	0.4935 mg/L	19:17:12
1	Se 196.026†	1340.2	1417.3	0.9759 mg/L	0.9759 mg/L	19:17:12
1	Sn 189.927†	3160.3	3338.6	0.4958 mg/L	0.4958 mg/L	19:17:12
1	Ti 337.279†	391246.7	417572.1	0.4923 mg/L	0.4923 mg/L	19:17:02
1	Tl 190.801†	473.1	508.9	0.4924 mg/L	0.4924 mg/L	19:17:12
1	V 292.402†	100323.7	107263.4	0.4999 mg/L	0.4999 mg/L	19:17:02
1	Zn 213.857†	63085.4	66084.8	0.4848 mg/L	0.4848 mg/L	19:17:02
2	B 249.677†	811.7	879.8	0.4916 mg/L	0.4916 mg/L	19:16:56
2	Fe 234.349†	3437.3	3691.5	2.457 mg/L	2.457 mg/L	19:16:56
2	K 766.490†	43466.5	45948.5	25.22 mg/L	25.22 mg/L	19:16:46
2	Li 670.784†	16660.8	18161.3	0.5036 mg/L	0.5036 mg/L	19:16:46
2	Na 589.592†	128538.0	137816.5	25.19 mg/L	25.19 mg/L	19:16:46
2	Sr 407.771†	38921.0	41805.1	0.0491 mg/L	0.0491 mg/L	19:16:46
2	Y 371.029	2510450.0	2510450.0	0.929 mg/L		19:17:15
2	Ag 328.068†	44239.0	45732.3	0.2554 mg/L	0.2554 mg/L	19:17:17
2	Al 237.313†	20143.8	22103.5	2.461 mg/L	2.461 mg/L	19:17:17
2	As 188.979†	619.7	673.4	0.4937 mg/L	0.4937 mg/L	19:17:27
2	B 182.528†	421.2	462.7	0.4965 mg/L	0.4965 mg/L	19:17:27
2	Ba 233.527†	52658.2	56752.8	0.4976 mg/L	0.4976 mg/L	19:17:17
2	Be 313.107†	102413.2	111626.1	0.0494 mg/L	0.0494 mg/L	19:17:15
2	Ca 315.887†	411413.7	444522.5	4.882 mg/L	4.882 mg/L	19:17:15
2	Cd 228.802†	7608.1	8026.6	0.2516 mg/L	0.2516 mg/L	19:17:27
2	Co 228.616†	22753.7	24722.8	0.4938 mg/L	0.4938 mg/L	19:17:17
2	Cr 267.716†	53440.6	56931.4	0.5000 mg/L	0.5000 mg/L	19:17:17
2	Cu 324.752†	90561.9	92634.2	0.5030 mg/L	0.5030 mg/L	19:17:17
2	Mg 279.077†	57180.7	61518.3	4.983 mg/L	4.983 mg/L	19:17:17
2	Mn 257.610†	377178.0	389739.7	0.5026 mg/L	0.5026 mg/L	19:17:17
2	Mn 294.920†	176618.7	191359.4	0.5006 mg/L	0.5006 mg/L	19:17:17
2	Mo 202.031†	10877.4	11667.2	0.4951 mg/L	0.4951 mg/L	19:17:27
2	Ni 231.604†	20791.1	22211.4	0.4975 mg/L	0.4975 mg/L	19:17:17
2	P 214.914†	7165.6	7736.6	4.884 mg/L	4.884 mg/L	19:17:27
2	Pb 220.353†	6735.8	7065.0	0.4990 mg/L	0.4990 mg/L	19:17:27
2	Sb 206.836†	1030.4	1060.8	0.5001 mg/L	0.5001 mg/L	19:17:27
2	Se 196.026†	1353.4	1445.3	0.9951 mg/L	0.9951 mg/L	19:17:27
2	Sn 189.927†	3198.0	3411.5	0.5066 mg/L	0.5066 mg/L	19:17:27
2	Ti 337.279†	393846.5	424365.9	0.5002 mg/L	0.5002 mg/L	19:17:17
2	Tl 190.801†	472.0	512.6	0.4958 mg/L	0.4958 mg/L	19:17:27
2	V 292.402†	101172.6	109201.6	0.5088 mg/L	0.5088 mg/L	19:17:17
2	Zn 213.857†	63506.7	67182.6	0.4928 mg/L	0.4928 mg/L	19:17:17

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2522481.9	0.934 mg/L	0.0063			0.67%
Ag 328.068†	45290.3	0.2529 mg/L	0.00347	0.2529 mg/L	0.00347	1.37%
	QC value within limits for Ag 328.068 Recovery = 101.16%					
Al 237.313†	21982.5	2.448 mg/L	0.0190	2.448 mg/L	0.0190	0.77%
	QC value within limits for Al 237.313 Recovery = 97.92%					
As 188.979†	668.7	0.4903 mg/L	0.00481	0.4903 mg/L	0.00481	0.98%

QC value within limits for As	188.979	Recovery =	98.07%				
B 249.677†	868.1	0.4851 mg/L	0.00924	0.4851 mg/L	0.00924	1.91%	
QC value within limits for B	249.677	Recovery =	97.02%				
B 182.528†	461.3	0.4951 mg/L	0.00207	0.4951 mg/L	0.00207	0.42%	
QC value within limits for B	182.528	Recovery =	99.02%				
Ba 233.527†	56253.9	0.4932 mg/L	0.00615	0.4932 mg/L	0.00615	1.25%	
QC value within limits for Ba	233.527	Recovery =	98.65%				
Be 313.107†	111489.6	0.0493 mg/L	0.00008	0.0493 mg/L	0.00008	0.17%	
QC value within limits for Be	313.107	Recovery =	98.69%				
Ca 315.887†	443744.9	4.874 mg/L	0.0120	4.874 mg/L	0.0120	0.25%	
QC value within limits for Ca	315.887	Recovery =	97.47%				
Cd 228.802†	7949.6	0.2492 mg/L	0.00340	0.2492 mg/L	0.00340	1.36%	
QC value within limits for Cd	228.802	Recovery =	99.69%				
Co 228.616†	24485.4	0.4891 mg/L	0.00671	0.4891 mg/L	0.00671	1.37%	
QC value within limits for Co	228.616	Recovery =	97.82%				
Cr 267.716†	56444.4	0.4958 mg/L	0.00601	0.4958 mg/L	0.00601	1.21%	
QC value within limits for Cr	267.716	Recovery =	99.15%				
Cu 324.752†	91745.0	0.4982 mg/L	0.00677	0.4982 mg/L	0.00677	1.36%	
QC value within limits for Cu	324.752	Recovery =	99.64%				
Fe 234.349†	3648.4	2.428 mg/L	0.0405	2.428 mg/L	0.0405	1.67%	
QC value within limits for Fe	234.349	Recovery =	97.13%				
K 766.490†	45765.3	25.12 mg/L	0.141	25.12 mg/L	0.141	0.56%	
QC value within limits for K	766.490	Recovery =	100.46%				
Li 670.784†	18076.6	0.5013 mg/L	0.00329	0.5013 mg/L	0.00329	0.66%	
QC value within limits for Li	670.784	Recovery =	100.26%				
Mg 279.077†	60926.6	4.936 mg/L	0.0674	4.936 mg/L	0.0674	1.37%	
QC value within limits for Mg	279.077	Recovery =	98.71%				
Mn 257.610†	386260.6	0.4981 mg/L	0.00632	0.4981 mg/L	0.00632	1.27%	
QC value within limits for Mn	257.610	Recovery =	99.62%				
Mn 294.920†	189559.1	0.4959 mg/L	0.00664	0.4959 mg/L	0.00664	1.34%	
QC value within limits for Mn	294.920	Recovery =	99.17%				
Mo 202.031†	11566.3	0.4908 mg/L	0.00602	0.4908 mg/L	0.00602	1.23%	
QC value within limits for Mo	202.031	Recovery =	98.16%				
Na 589.592†	137249.3	25.09 mg/L	0.146	25.09 mg/L	0.146	0.58%	
QC value within limits for Na	589.592	Recovery =	100.34%				
Ni 231.604†	21993.5	0.4926 mg/L	0.00688	0.4926 mg/L	0.00688	1.40%	
QC value within limits for Ni	231.604	Recovery =	98.53%				
P 214.914†	7669.7	4.842 mg/L	0.0592	4.842 mg/L	0.0592	1.22%	
QC value within limits for P	214.914	Recovery =	96.84%				
Pb 220.353†	7013.8	0.4954 mg/L	0.00512	0.4954 mg/L	0.00512	1.03%	
QC value within limits for Pb	220.353	Recovery =	99.08%				
Sb 206.836†	1053.8	0.4968 mg/L	0.00463	0.4968 mg/L	0.00463	0.93%	
QC value within limits for Sb	206.836	Recovery =	99.36%				
Se 196.026†	1431.3	0.9855 mg/L	0.01355	0.9855 mg/L	0.01355	1.37%	
QC value within limits for Se	196.026	Recovery =	98.55%				
Sn 189.927†	3375.0	0.5012 mg/L	0.00764	0.5012 mg/L	0.00764	1.52%	
QC value within limits for Sn	189.927	Recovery =	100.23%				
Sr 407.771†	41733.7	0.0490 mg/L	0.00012	0.0490 mg/L	0.00012	0.24%	
QC value within limits for Sr	407.771	Recovery =	98.06%				
Ti 337.279†	420969.0	0.4963 mg/L	0.00561	0.4963 mg/L	0.00561	1.13%	
QC value within limits for Ti	337.279	Recovery =	99.25%				
Tl 190.801†	510.8	0.4941 mg/L	0.00246	0.4941 mg/L	0.00246	0.50%	
QC value within limits for Tl	190.801	Recovery =	98.82%				
V 292.402†	108232.5	0.5044 mg/L	0.00633	0.5044 mg/L	0.00633	1.25%	
QC value within limits for V	292.402	Recovery =	100.87%				
Zn 213.857†	66633.7	0.4888 mg/L	0.00565	0.4888 mg/L	0.00565	1.16%	
QC value within limits for Zn	213.857	Recovery =	97.76%				

All analyte(s) passed QC.

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Sequence No.: 84                               Autosampler Location: 1
Sample ID: CCB1                               Date Collected: 7/5/2013 7:19:06 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-8.0	-1.9	0.0002 mg/L	0.0002 mg/L	19:20:58
1	Fe 234.349†	27.0	21.6	0.0250 mg/L	0.0250 mg/L	19:20:58
1	K 766.490†	835.3	60.9	0.2075 mg/L	0.2075 mg/L	19:20:48

1	Li 670.784†	-208.1	16.7	0.0049 mg/L	0.0049 mg/L	19:20:48
1	Na 589.592†	-40.1	-521.9	0.0183 mg/L	0.0183 mg/L	19:20:48
1	Sr 407.771†	101.4	36.1	0.0004 mg/L	0.0004 mg/L	19:20:48
1	Y 371.029	2567475.4	2567475.4	0.951 mg/L		19:21:14
1	Ag 328.068†	1577.1	-206.0	0.0006 mg/L	0.0006 mg/L	19:21:17
1	Al 237.313†	-404.0	5.4	0.0140 mg/L	0.0140 mg/L	19:21:17
1	As 188.979†	-6.1	0.2	0.0045 mg/L	0.0045 mg/L	19:21:27
1	B 182.528†	-9.9	-0.8	-0.0010 mg/L	-0.0010 mg/L	19:21:27
1	Ba 233.527†	-88.5	3.9	0.0032 mg/L	0.0032 mg/L	19:21:27
1	Be 313.107†	-1329.7	39.1	0.0004 mg/L	0.0004 mg/L	19:21:17
1	Ca 315.887†	-2017.0	-246.3	0.0333 mg/L	0.0333 mg/L	19:21:17
1	Cd 228.802†	162.3	11.7	0.0014 mg/L	0.0014 mg/L	19:21:27
1	Co 228.616†	-252.2	-23.5	-0.0005 mg/L	-0.0005 mg/L	19:21:27
1	Cr 267.716†	554.4	17.0	0.0035 mg/L	0.0035 mg/L	19:21:17
1	Cu 324.752†	4370.1	-205.4	0.0033 mg/L	0.0033 mg/L	19:21:17
1	Mg 279.077†	108.5	110.7	0.0341 mg/L	0.0341 mg/L	19:21:17
1	Mn 257.610†	15211.1	-70.2	0.0016 mg/L	0.0016 mg/L	19:21:17
1	Mn 294.920†	-1215.1	54.0	0.0017 mg/L	0.0017 mg/L	19:21:17
1	Mo 202.031†	45.3	11.7	0.0030 mg/L	0.0030 mg/L	19:21:27
1	Ni 231.604†	109.3	-43.1	0.0007 mg/L	0.0007 mg/L	19:21:17
1	P 214.914†	-26.5	-0.8	0.0464 mg/L	0.0464 mg/L	19:21:27
1	Pb 220.353†	189.5	17.2	0.0011 mg/L	0.0011 mg/L	19:21:27
1	Sb 206.836†	55.8	10.9	0.0093 mg/L	0.0093 mg/L	19:21:27
1	Se 196.026†	17.8	7.8	0.0104 mg/L	0.0104 mg/L	19:21:27
1	Sn 189.927†	41.2	14.0	0.0007 mg/L	0.0007 mg/L	19:21:27
1	Ti 337.279†	-553.8	37.2	0.0049 mg/L	0.0049 mg/L	19:21:17
1	Tl 190.801†	-4.5	0.0	0.0012 mg/L	0.0012 mg/L	19:21:27
1	V 292.402†	-265.0	69.5	0.0049 mg/L	0.0049 mg/L	19:21:17
1	Zn 213.857†	1121.2	34.1	0.0029 mg/L	0.0029 mg/L	19:21:27
2	B 249.677†	-3.6	2.6	0.0027 mg/L	0.0027 mg/L	19:21:11
2	Fe 234.349†	29.9	24.9	0.0272 mg/L	0.0272 mg/L	19:21:11
2	K 766.490†	827.7	59.9	0.2069 mg/L	0.2069 mg/L	19:21:01
2	Li 670.784†	-218.2	4.2	0.0046 mg/L	0.0046 mg/L	19:21:01
2	Na 589.592†	-14.8	-495.4	0.0231 mg/L	0.0231 mg/L	19:21:01
2	Sr 407.771†	37.3	-31.0	0.0003 mg/L	0.0003 mg/L	19:21:01
2	Y 371.029	2547188.6	2547188.6	0.943 mg/L		19:21:29
2	Ag 328.068†	1811.8	56.1	0.0021 mg/L	0.0021 mg/L	19:21:31
2	Al 237.313†	-427.9	-23.4	0.0108 mg/L	0.0108 mg/L	19:21:31
2	As 188.979†	-0.1	6.5	0.0091 mg/L	0.0091 mg/L	19:21:42
2	B 182.528†	-11.1	-2.2	-0.0025 mg/L	-0.0025 mg/L	19:21:42
2	Ba 233.527†	-101.3	-10.4	0.0030 mg/L	0.0030 mg/L	19:21:42
2	Be 313.107†	-1375.5	-20.6	0.0004 mg/L	0.0004 mg/L	19:21:31
2	Ca 315.887†	-1901.1	-140.4	0.0344 mg/L	0.0344 mg/L	19:21:31
2	Cd 228.802†	153.8	4.0	0.0011 mg/L	0.0011 mg/L	19:21:42
2	Co 228.616†	-219.6	8.9	0.0002 mg/L	0.0002 mg/L	19:21:42
2	Cr 267.716†	490.9	-45.7	0.0030 mg/L	0.0030 mg/L	19:21:31
2	Cu 324.752†	4321.2	-220.7	0.0032 mg/L	0.0032 mg/L	19:21:31
2	Mg 279.077†	58.8	58.9	0.0299 mg/L	0.0299 mg/L	19:21:31
2	Mn 257.610†	15340.0	194.0	0.0019 mg/L	0.0019 mg/L	19:21:31
2	Mn 294.920†	-1129.2	134.9	0.0019 mg/L	0.0019 mg/L	19:21:31
2	Mo 202.031†	42.1	8.7	0.0029 mg/L	0.0029 mg/L	19:21:42
2	Ni 231.604†	123.2	-27.4	0.0010 mg/L	0.0010 mg/L	19:21:31
2	P 214.914†	-19.3	6.6	0.0510 mg/L	0.0510 mg/L	19:21:42
2	Pb 220.353†	196.5	26.3	0.0017 mg/L	0.0017 mg/L	19:21:42
2	Sb 206.836†	49.0	4.1	0.0061 mg/L	0.0061 mg/L	19:21:42
2	Se 196.026†	13.6	3.5	0.0075 mg/L	0.0075 mg/L	19:21:42
2	Sn 189.927†	37.4	10.4	0.0001 mg/L	0.0001 mg/L	19:21:42
2	Ti 337.279†	-427.9	166.0	0.0051 mg/L	0.0051 mg/L	19:21:31
2	Tl 190.801†	-6.0	-1.6	-0.0004 mg/L	-0.0004 mg/L	19:21:42
2	V 292.402†	-352.7	-25.8	0.0045 mg/L	0.0045 mg/L	19:21:31
2	Zn 213.857†	1114.4	36.3	0.0029 mg/L	0.0029 mg/L	19:21:42

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2557332.0	0.947 mg/L	0.0053			0.56%
Ag 328.068†	-75.0	0.0014 mg/L	0.00103	0.0014 mg/L	0.00103	75.52%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-9.0	0.0124 mg/L	0.00225	0.0124 mg/L	0.00225	18.22%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	3.4	0.0068 mg/L	0.00325	0.0068 mg/L	0.00325	47.52%
QC value within limits for As 188.979 Recovery = Not calculated						

B 249.677†	0.4	0.0015 mg/L	0.00177	0.0015 mg/L	0.00177	119.64%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	-1.5	-0.0017 mg/L	0.00106	-0.0017 mg/L	0.00106	61.02%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	-3.3	0.0031 mg/L	0.00009	0.0031 mg/L	0.00009	2.84%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	9.3	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.84%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-193.4	0.0338 mg/L	0.00081	0.0338 mg/L	0.00081	2.41%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	7.9	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	13.47%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-7.3	-0.0001 mg/L	0.00046	-0.0001 mg/L	0.00046	332.83%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-14.3	0.0033 mg/L	0.00039	0.0033 mg/L	0.00039	11.84%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-213.1	0.0033 mg/L	0.00006	0.0033 mg/L	0.00006	1.77%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	23.3	0.0261 mg/L	0.00157	0.0261 mg/L	0.00157	6.01%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K 766.490†	60.4	0.2072 mg/L	0.00041	0.2072 mg/L	0.00041	0.20%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	10.4	0.0047 mg/L	0.00024	0.0047 mg/L	0.00024	5.14%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	84.8	0.0320 mg/L	0.00295	0.0320 mg/L	0.00295	9.21%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	61.9	0.0018 mg/L	0.00024	0.0018 mg/L	0.00024	13.59%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	94.5	0.0018 mg/L	0.00015	0.0018 mg/L	0.00015	8.47%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	10.2	0.0029 mg/L	0.00009	0.0029 mg/L	0.00009	3.09%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-508.6	0.0207 mg/L	0.00342	0.0207 mg/L	0.00342	16.51%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-35.2	0.0008 mg/L	0.00025	0.0008 mg/L	0.00025	29.36%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	2.9	0.0487 mg/L	0.00327	0.0487 mg/L	0.00327	6.72%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	21.8	0.0014 mg/L	0.00045	0.0014 mg/L	0.00045	32.56%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	7.5	0.0077 mg/L	0.00223	0.0077 mg/L	0.00223	28.87%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.7	0.0089 mg/L	0.00209	0.0089 mg/L	0.00209	23.37%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	12.2	0.0004 mg/L	0.00038	0.0004 mg/L	0.00038	91.39%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	2.5	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	14.93%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	101.6	0.0050 mg/L	0.00011	0.0050 mg/L	0.00011	2.12%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-0.8	0.0004 mg/L	0.00108	0.0004 mg/L	0.00108	266.82%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	21.9	0.0047 mg/L	0.00031	0.0047 mg/L	0.00031	6.62%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	35.2	0.0029 mg/L	0.00001	0.0029 mg/L	0.00001	0.33%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 85
Sample ID: CF30507-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 7/5/2013 7:23:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30507-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-7.0	-0.9	0.0008 mg/L	0.0008 mg/L	19:25:09
1	Fe 234.349†	46.6	42.2	0.0387 mg/L	0.0387 mg/L	19:25:09
1	K 766.490†	861.9	88.0	0.2223 mg/L	0.2223 mg/L	19:24:59
1	Li 670.784†	-331.1	-112.3	0.0014 mg/L	0.0014 mg/L	19:24:59

1	Na 589.592†	189.0	-281.1	0.0621	mg/L	0.0621	mg/L	19:24:59
1	Sr 407.771†	48.8	-19.3	0.0003	mg/L	0.0003	mg/L	19:24:59
1	Y 371.029	2570042.1	2570042.1	0.952	mg/L			19:25:25
1	Ag 328.068†	1799.3	25.9	0.0019	mg/L	0.0019	mg/L	19:25:28
1	Al 237.313†	-296.8	118.5	0.0265	mg/L	0.0265	mg/L	19:25:28
1	As 188.979†	2.3	9.1	0.0110	mg/L	0.0110	mg/L	19:25:38
1	B 182.528†	-6.5	2.7	0.0028	mg/L	0.0028	mg/L	19:25:38
1	Ba 233.527†	-56.2	38.0	0.0035	mg/L	0.0035	mg/L	19:25:38
1	Be 313.107†	-1393.4	-26.4	0.0004	mg/L	0.0004	mg/L	19:25:28
1	Ca 315.887†	-61.7	1810.8	0.0557	mg/L	0.0557	mg/L	19:25:28
1	Cd 228.802†	150.5	-0.8	0.0010	mg/L	0.0010	mg/L	19:25:38
1	Co 228.616†	-217.9	12.8	0.0003	mg/L	0.0003	mg/L	19:25:38
1	Cr 267.716†	509.8	-30.4	0.0031	mg/L	0.0031	mg/L	19:25:28
1	Cu 324.752†	4753.1	192.5	0.0054	mg/L	0.0054	mg/L	19:25:28
1	Mg 279.077†	90.8	92.0	0.0326	mg/L	0.0326	mg/L	19:25:28
1	Mn 257.610†	28685.3	14074.8	0.0198	mg/L	0.0198	mg/L	19:25:28
1	Mn 294.920†	5279.3	6880.7	0.0195	mg/L	0.0195	mg/L	19:25:28
1	Mo 202.031†	60.5	27.7	0.0037	mg/L	0.0037	mg/L	19:25:38
1	Ni 231.604†	162.5	12.7	0.0019	mg/L	0.0019	mg/L	19:25:28
1	P 214.914†	341.1	385.5	0.2883	mg/L	0.2883	mg/L	19:25:38
1	Pb 220.353†	159.8	-14.2	-0.0011	mg/L	-0.0011	mg/L	19:25:38
1	Sb 206.836†	44.3	-1.3	0.0036	mg/L	0.0036	mg/L	19:25:38
1	Se 196.026†	19.5	9.6	0.0116	mg/L	0.0116	mg/L	19:25:38
1	Sn 189.927†	32.2	4.5	-0.0007	mg/L	-0.0007	mg/L	19:25:38
1	Ti 337.279†	-376.1	224.5	0.0052	mg/L	0.0052	mg/L	19:25:28
1	Tl 190.801†	-8.3	-4.0	-0.0027	mg/L	-0.0027	mg/L	19:25:38
1	V 292.402†	-380.3	-51.4	0.0043	mg/L	0.0043	mg/L	19:25:28
1	Zn 213.857†	1637.3	575.3	0.0069	mg/L	0.0069	mg/L	19:25:38
2	B 249.677†	-3.7	2.6	0.0027	mg/L	0.0027	mg/L	19:25:22
2	Fe 234.349†	39.5	35.6	0.0343	mg/L	0.0343	mg/L	19:25:22
2	K 766.490†	934.1	183.6	0.2744	mg/L	0.2744	mg/L	19:25:12
2	Li 670.784†	-243.7	-25.7	0.0037	mg/L	0.0037	mg/L	19:25:12
2	Na 589.592†	254.6	-206.7	0.0756	mg/L	0.0756	mg/L	19:25:12
2	Sr 407.771†	141.9	81.6	0.0005	mg/L	0.0005	mg/L	19:25:12
2	Y 371.029	2519453.1	2519453.1	0.933	mg/L			19:25:40
2	Ag 328.068†	1632.8	-114.7	0.0011	mg/L	0.0011	mg/L	19:25:42
2	Al 237.313†	-346.7	58.7	0.0199	mg/L	0.0199	mg/L	19:25:42
2	As 188.979†	-2.5	4.0	0.0073	mg/L	0.0073	mg/L	19:25:53
2	B 182.528†	-7.7	1.3	0.0013	mg/L	0.0013	mg/L	19:25:53
2	Ba 233.527†	-57.6	35.3	0.0034	mg/L	0.0034	mg/L	19:25:53
2	Be 313.107†	-1279.1	66.7	0.0004	mg/L	0.0004	mg/L	19:25:42
2	Ca 315.887†	48.2	1927.2	0.0569	mg/L	0.0569	mg/L	19:25:42
2	Cd 228.802†	146.9	-1.6	0.0010	mg/L	0.0010	mg/L	19:25:53
2	Co 228.616†	-246.7	-22.7	-0.0004	mg/L	-0.0004	mg/L	19:25:53
2	Cr 267.716†	597.4	74.2	0.0040	mg/L	0.0040	mg/L	19:25:42
2	Cu 324.752†	4855.1	402.1	0.0066	mg/L	0.0066	mg/L	19:25:42
2	Mg 279.077†	102.5	106.4	0.0338	mg/L	0.0338	mg/L	19:25:42
2	Mn 257.610†	29137.7	15165.2	0.0212	mg/L	0.0212	mg/L	19:25:42
2	Mn 294.920†	5496.3	7224.8	0.0204	mg/L	0.0204	mg/L	19:25:42
2	Mo 202.031†	68.5	37.5	0.0041	mg/L	0.0041	mg/L	19:25:53
2	Ni 231.604†	144.5	-3.1	0.0016	mg/L	0.0016	mg/L	19:25:42
2	P 214.914†	347.4	399.5	0.2970	mg/L	0.2970	mg/L	19:25:53
2	Pb 220.353†	179.3	10.1	0.0006	mg/L	0.0006	mg/L	19:25:53
2	Sb 206.836†	48.7	4.4	0.0063	mg/L	0.0063	mg/L	19:25:53
2	Se 196.026†	14.6	4.7	0.0083	mg/L	0.0083	mg/L	19:25:53
2	Sn 189.927†	35.7	9.0	0.0000	mg/L	0.0000	mg/L	19:25:53
2	Ti 337.279†	-98.6	514.1	0.0055	mg/L	0.0055	mg/L	19:25:42
2	Tl 190.801†	-6.1	-1.8	-0.0006	mg/L	-0.0006	mg/L	19:25:53
2	V 292.402†	-387.1	-66.7	0.0043	mg/L	0.0043	mg/L	19:25:42
2	Zn 213.857†	1655.4	629.3	0.0073	mg/L	0.0073	mg/L	19:25:53

Mean Data: CF30507-BLK1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2544747.6	0.942 mg/L	0.0132			1.41%
Ag 328.068†	-44.4	0.0015 mg/L	0.00055	0.0015 mg/L	0.00055	36.02%
Al 237.313†	88.6	0.0232 mg/L	0.00468	0.0232 mg/L	0.00468	20.20%
As 188.979†	6.5	0.0091 mg/L	0.00262	0.0091 mg/L	0.00262	28.76%
B 249.677†	0.9	0.0018 mg/L	0.00135	0.0018 mg/L	0.00135	77.34%
B 182.528†	2.0	0.0020 mg/L	0.00113	0.0020 mg/L	0.00113	55.00%
Ba 233.527†	36.6	0.0034 mg/L	0.00002	0.0034 mg/L	0.00002	0.49%
Be 313.107†	20.1	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.44%

Ca	315.887†	1869.0	0.0563 mg/L	0.00090	0.0563 mg/L	0.00090	1.59%
Cd	228.802†	-1.2	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	1.70%
Co	228.616†	-5.0	-0.0001 mg/L	0.00050	-0.0001 mg/L	0.00050	549.44%
Cr	267.716†	21.9	0.0036 mg/L	0.00065	0.0036 mg/L	0.00065	18.02%
Cu	324.752†	297.3	0.0060 mg/L	0.00080	0.0060 mg/L	0.00080	13.28%
Fe	234.349†	38.9	0.0365 mg/L	0.00312	0.0365 mg/L	0.00312	8.56%
K	766.490†	135.8	0.2483 mg/L	0.03682	0.2483 mg/L	0.03682	14.83%
Li	670.784†	-69.0	0.0026 mg/L	0.00168	0.0026 mg/L	0.00168	65.96%
Mg	279.077†	99.2	0.0332 mg/L	0.00082	0.0332 mg/L	0.00082	2.48%
Mn	257.610†	14620.0	0.0205 mg/L	0.00099	0.0205 mg/L	0.00099	4.84%
Mn	294.920†	7052.7	0.0199 mg/L	0.00063	0.0199 mg/L	0.00063	3.19%
Mo	202.031†	32.6	0.0039 mg/L	0.00029	0.0039 mg/L	0.00029	7.55%
Na	589.592†	-243.9	0.0688 mg/L	0.00957	0.0688 mg/L	0.00957	13.90%
Ni	231.604†	4.8	0.0017 mg/L	0.00025	0.0017 mg/L	0.00025	14.37%
P	214.914†	392.5	0.2927 mg/L	0.00617	0.2927 mg/L	0.00617	2.11%
Pb	220.353†	-2.0	-0.0003 mg/L	0.00121	-0.0003 mg/L	0.00121	419.89%
Sb	206.836†	1.6	0.0049 mg/L	0.00187	0.0049 mg/L	0.00187	37.76%
Se	196.026†	7.2	0.0099 mg/L	0.00234	0.0099 mg/L	0.00234	23.59%
Sn	189.927†	6.8	-0.0004 mg/L	0.00047	-0.0004 mg/L	0.00047	124.83%
Sr	407.771†	31.1	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	20.59%
Ti	337.279†	369.3	0.0053 mg/L	0.00024	0.0053 mg/L	0.00024	4.49%
Tl	190.801†	-2.9	-0.0016 mg/L	0.00151	-0.0016 mg/L	0.00151	92.88%
V	292.402†	-59.1	0.0043 mg/L	0.00004	0.0043 mg/L	0.00004	0.99%
Zn	213.857†	602.3	0.0071 mg/L	0.00028	0.0071 mg/L	0.00028	3.97%

Sequence No.: 86
Sample ID: CG30507-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 7/5/2013 7:27:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30507-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	831.5	900.4	0.5031 mg/L	0.5031 mg/L	19:29:17
1	Fe 234.349†	3516.3	3773.3	2.511 mg/L	2.511 mg/L	19:29:17
1	K 766.490†	44093.3	46584.0	25.56 mg/L	25.56 mg/L	19:29:07
1	Li 670.784†	17137.4	18658.9	0.5173 mg/L	0.5173 mg/L	19:29:07
1	Na 589.592†	130384.7	139688.8	25.53 mg/L	25.53 mg/L	19:29:07
1	Sr 407.771†	39036.9	41895.5	0.0492 mg/L	0.0492 mg/L	19:29:07
1	Y 371.029	2512503.2	2512503.2	0.930 mg/L		19:29:35
1	Ag 328.068†	42448.2	43768.3	0.2445 mg/L	0.2445 mg/L	19:29:35
1	Al 237.313†	20629.5	22608.0	2.517 mg/L	2.517 mg/L	19:29:45
1	As 188.979†	624.3	677.8	0.4970 mg/L	0.4970 mg/L	19:29:45
1	B 182.528†	434.1	476.3	0.5111 mg/L	0.5111 mg/L	19:29:45
1	Ba 233.527†	52243.7	56260.9	0.4933 mg/L	0.4933 mg/L	19:29:35
1	Be 313.107†	104797.0	114098.7	0.0505 mg/L	0.0505 mg/L	19:29:35
1	Ca 315.887†	436431.7	471056.1	5.171 mg/L	5.171 mg/L	19:29:35
1	Cd 228.802†	7604.8	8016.5	0.2513 mg/L	0.2513 mg/L	19:29:45
1	Co 228.616†	22966.1	24931.2	0.4980 mg/L	0.4980 mg/L	19:29:45
1	Cr 267.716†	53726.2	57191.5	0.5023 mg/L	0.5023 mg/L	19:29:35
1	Cu 324.752†	90860.2	92875.2	0.5043 mg/L	0.5043 mg/L	19:29:35
1	Mg 279.077†	56006.2	60205.3	4.878 mg/L	4.878 mg/L	19:29:35
1	Mn 257.610†	381494.0	394047.9	0.5081 mg/L	0.5081 mg/L	19:29:35
1	Mn 294.920†	178401.0	193120.1	0.5051 mg/L	0.5051 mg/L	19:29:35
1	Mo 202.031†	10874.1	11654.1	0.4945 mg/L	0.4945 mg/L	19:29:45
1	Ni 231.604†	20923.4	22335.4	0.5003 mg/L	0.5003 mg/L	19:29:35
1	P 214.914†	7816.0	8429.6	5.318 mg/L	5.318 mg/L	19:29:45
1	Pb 220.353†	6856.9	7189.4	0.5078 mg/L	0.5078 mg/L	19:29:45
1	Sb 206.836†	1036.1	1066.0	0.5025 mg/L	0.5025 mg/L	19:29:45
1	Se 196.026†	1370.7	1462.7	1.007 mg/L	1.007 mg/L	19:29:45
1	Sn 189.927†	3224.3	3436.9	0.5105 mg/L	0.5105 mg/L	19:29:45
1	Ti 337.279†	386934.6	416589.0	0.4911 mg/L	0.4911 mg/L	19:29:35
1	Tl 190.801†	485.2	526.4	0.5093 mg/L	0.5093 mg/L	19:29:45
1	V 292.402†	100227.2	108096.3	0.5038 mg/L	0.5038 mg/L	19:29:35
1	Zn 213.857†	64705.6	68415.5	0.5019 mg/L	0.5019 mg/L	19:29:35
2	B 249.677†	827.5	899.2	0.5024 mg/L	0.5024 mg/L	19:29:29
2	Fe 234.349†	3501.3	3770.5	2.509 mg/L	2.509 mg/L	19:29:29
2	K 766.490†	44767.5	47477.9	26.05 mg/L	26.05 mg/L	19:29:19
2	Li 670.784†	17160.7	18748.8	0.5198 mg/L	0.5198 mg/L	19:29:19
2	Na 589.592†	131764.8	141669.8	25.89 mg/L	25.89 mg/L	19:29:19

2	Sr 407.771†	39414.8	42450.7	0.0499 mg/L	0.0499 mg/L	19:29:19
2	Y 371.029	2503711.9	2503711.9	0.927 mg/L		19:29:49
2	Ag 328.068†	42312.3	43781.9	0.2446 mg/L	0.2446 mg/L	19:29:49
2	Al 237.313†	20583.0	22635.6	2.520 mg/L	2.520 mg/L	19:29:59
2	As 188.979†	613.4	668.4	0.4901 mg/L	0.4901 mg/L	19:29:59
2	B 182.528†	425.6	468.7	0.5030 mg/L	0.5030 mg/L	19:29:59
2	Ba 233.527†	52154.9	56362.4	0.4942 mg/L	0.4942 mg/L	19:29:49
2	Be 313.107†	104570.8	114250.3	0.0506 mg/L	0.0506 mg/L	19:29:49
2	Ca 315.887†	433999.5	470079.6	5.161 mg/L	5.161 mg/L	19:29:49
2	Cd 228.802†	7601.4	8041.5	0.2521 mg/L	0.2521 mg/L	19:29:59
2	Co 228.616†	22901.9	24948.7	0.4984 mg/L	0.4984 mg/L	19:29:59
2	Cr 267.716†	53480.0	57128.6	0.5017 mg/L	0.5017 mg/L	19:29:49
2	Cu 324.752†	90572.3	92907.7	0.5045 mg/L	0.5045 mg/L	19:29:49
2	Mg 279.077†	55770.5	60162.5	4.874 mg/L	4.874 mg/L	19:29:49
2	Mn 257.610†	380085.1	393968.0	0.5080 mg/L	0.5080 mg/L	19:29:49
2	Mn 294.920†	177443.5	192760.6	0.5042 mg/L	0.5042 mg/L	19:29:49
2	Mo 202.031†	10860.5	11680.6	0.4956 mg/L	0.4956 mg/L	19:29:59
2	Ni 231.604†	20812.0	22294.2	0.4994 mg/L	0.4994 mg/L	19:29:49
2	P 214.914†	7813.5	8456.4	5.335 mg/L	5.335 mg/L	19:29:59
2	Pb 220.353†	6875.9	7235.7	0.5110 mg/L	0.5110 mg/L	19:29:59
2	Sb 206.836†	1034.7	1068.4	0.5036 mg/L	0.5036 mg/L	19:29:59
2	Se 196.026†	1372.8	1470.0	1.012 mg/L	1.012 mg/L	19:29:59
2	Sn 189.927†	3205.2	3428.5	0.5093 mg/L	0.5093 mg/L	19:29:59
2	Ti 337.279†	385174.6	416150.9	0.4906 mg/L	0.4906 mg/L	19:29:49
2	Tl 190.801†	481.1	523.8	0.5067 mg/L	0.5067 mg/L	19:29:59
2	V 292.402†	100060.9	108295.3	0.5047 mg/L	0.5047 mg/L	19:29:49
2	Zn 213.857†	64628.1	68576.2	0.5031 mg/L	0.5031 mg/L	19:29:49

Mean Data: CG30507-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2508107.6	0.929	mg/L	0.0023			0.25%
Ag 328.068†	43775.1	0.2445	mg/L	0.00005	0.2445 mg/L	0.00005	0.02%
Al 237.313†	22621.8	2.519	mg/L	0.0022	2.519 mg/L	0.0022	0.09%
As 188.979†	673.1	0.4936	mg/L	0.00486	0.4936 mg/L	0.00486	0.99%
B 249.677†	899.8	0.5027	mg/L	0.00049	0.5027 mg/L	0.00049	0.10%
B 182.528†	472.5	0.5070	mg/L	0.00573	0.5070 mg/L	0.00573	1.13%
Ba 233.527†	56311.7	0.4937	mg/L	0.00063	0.4937 mg/L	0.00063	0.13%
Be 313.107†	114174.5	0.0505	mg/L	0.00005	0.0505 mg/L	0.00005	0.09%
Ca 315.887†	470567.8	5.166	mg/L	0.0075	5.166 mg/L	0.0075	0.15%
Cd 228.802†	8029.9	0.2517	mg/L	0.00055	0.2517 mg/L	0.00055	0.22%
Co 228.616†	24939.9	0.4982	mg/L	0.00025	0.4982 mg/L	0.00025	0.05%
Cr 267.716†	57160.0	0.5020	mg/L	0.00039	0.5020 mg/L	0.00039	0.08%
Cu 324.752†	92891.5	0.5044	mg/L	0.00012	0.5044 mg/L	0.00012	0.02%
Fe 234.349†	3771.9	2.510	mg/L	0.0013	2.510 mg/L	0.0013	0.05%
K 766.490†	47031.0	25.81	mg/L	0.344	25.81 mg/L	0.344	1.33%
Li 670.784†	18703.9	0.5185	mg/L	0.00175	0.5185 mg/L	0.00175	0.34%
Mg 279.077†	60183.9	4.876	mg/L	0.0024	4.876 mg/L	0.0024	0.05%
Mn 257.610†	394008.0	0.5080	mg/L	0.00007	0.5080 mg/L	0.00007	0.01%
Mn 294.920†	192940.3	0.5047	mg/L	0.00066	0.5047 mg/L	0.00066	0.13%
Mo 202.031†	11667.3	0.4951	mg/L	0.00079	0.4951 mg/L	0.00079	0.16%
Na 589.592†	140679.3	25.71	mg/L	0.255	25.71 mg/L	0.255	0.99%
Ni 231.604†	22314.8	0.4998	mg/L	0.00065	0.4998 mg/L	0.00065	0.13%
P 214.914†	8443.0	5.326	mg/L	0.0119	5.326 mg/L	0.0119	0.22%
Pb 220.353†	7212.5	0.5094	mg/L	0.00231	0.5094 mg/L	0.00231	0.45%
Sb 206.836†	1067.2	0.5031	mg/L	0.00081	0.5031 mg/L	0.00081	0.16%
Se 196.026†	1466.4	1.010	mg/L	0.0036	1.010 mg/L	0.0036	0.36%
Sn 189.927†	3432.7	0.5099	mg/L	0.00089	0.5099 mg/L	0.00089	0.17%
Sr 407.771†	42173.1	0.0495	mg/L	0.00046	0.0495 mg/L	0.00046	0.92%
Ti 337.279†	416370.0	0.4909	mg/L	0.00036	0.4909 mg/L	0.00036	0.07%
Tl 190.801†	525.1	0.5080	mg/L	0.00184	0.5080 mg/L	0.00184	0.36%
V 292.402†	108195.8	0.5043	mg/L	0.00065	0.5043 mg/L	0.00065	0.13%
Zn 213.857†	68495.8	0.5025	mg/L	0.00084	0.5025 mg/L	0.00084	0.17%

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Sequence No.: 87
Sample ID: CG30507-BSD1
Analyst:
Initial Sample Wt:
Dilution:

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Autosampler Location: 74
Date Collected: 7/5/2013 7:31:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30507-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	802.1	878.1	0.4906	mg/L	0.4906	mg/L	19:33:25
1	Fe 234.349†	3373.8	3659.3	2.434	mg/L	2.434	mg/L	19:33:25
1	K 766.490†	43321.5	46256.3	25.38	mg/L	25.38	mg/L	19:33:15
1	Li 670.784†	16700.8	18383.1	0.5097	mg/L	0.5097	mg/L	19:33:15
1	Na 589.592†	127859.7	138455.7	25.30	mg/L	25.30	mg/L	19:33:15
1	Sr 407.771†	38574.4	41845.3	0.0492	mg/L	0.0492	mg/L	19:33:15
1	Y 371.029	2485712.6	2485712.6	0.920	mg/L			19:33:42
1	Ag 328.068†	41884.7	43647.8	0.2438	mg/L	0.2438	mg/L	19:33:44
1	Al 237.313†	19811.0	21957.6	2.445	mg/L	2.445	mg/L	19:33:44
1	As 188.979†	602.7	661.5	0.4851	mg/L	0.4851	mg/L	19:33:54
1	B 182.528†	411.7	456.9	0.4903	mg/L	0.4903	mg/L	19:33:54
1	Ba 233.527†	51102.3	55626.0	0.4878	mg/L	0.4878	mg/L	19:33:44
1	Be 313.107†	102981.2	113339.9	0.0502	mg/L	0.0502	mg/L	19:33:42
1	Ca 315.887†	483399.0	527148.6	5.783	mg/L	5.783	mg/L	19:33:42
1	Cd 228.802†	7367.7	7846.9	0.2460	mg/L	0.2460	mg/L	19:33:54
1	Co 228.616†	21970.9	24115.9	0.4817	mg/L	0.4817	mg/L	19:33:44
1	Cr 267.716†	52709.5	56709.2	0.4981	mg/L	0.4981	mg/L	19:33:44
1	Cu 324.752†	89227.5	92153.9	0.5004	mg/L	0.5004	mg/L	19:33:44
1	Mg 279.077†	55279.7	60064.8	4.866	mg/L	4.866	mg/L	19:33:44
1	Mn 257.610†	382217.2	399254.0	0.5148	mg/L	0.5148	mg/L	19:33:44
1	Mn 294.920†	178949.4	195783.1	0.5121	mg/L	0.5121	mg/L	19:33:44
1	Mo 202.031†	10503.4	11377.4	0.4828	mg/L	0.4828	mg/L	19:33:54
1	Ni 231.604†	20392.5	22000.9	0.4928	mg/L	0.4928	mg/L	19:33:44
1	P 214.914†	7753.6	8452.3	5.332	mg/L	5.332	mg/L	19:33:54
1	Pb 220.353†	6624.8	7016.5	0.4955	mg/L	0.4955	mg/L	19:33:54
1	Sb 206.836†	1017.3	1057.6	0.4985	mg/L	0.4985	mg/L	19:33:54
1	Se 196.026†	1330.9	1435.3	0.9883	mg/L	0.9883	mg/L	19:33:54
1	Sn 189.927†	3108.5	3348.4	0.4978	mg/L	0.4978	mg/L	19:33:54
1	Ti 337.279†	383588.1	417435.9	0.4921	mg/L	0.4921	mg/L	19:33:44
1	Tl 190.801†	464.8	509.8	0.4932	mg/L	0.4932	mg/L	19:33:54
1	V 292.402†	98771.9	107676.2	0.5017	mg/L	0.5017	mg/L	19:33:44
1	Zn 213.857†	63768.2	68146.6	0.4999	mg/L	0.4999	mg/L	19:33:44
2	B 249.677†	795.5	888.5	0.4964	mg/L	0.4964	mg/L	19:33:38
2	Fe 234.349†	3435.1	3801.6	2.529	mg/L	2.529	mg/L	19:33:38
2	K 766.490†	43288.3	47174.6	25.88	mg/L	25.88	mg/L	19:33:28
2	Li 670.784†	16628.9	18671.6	0.5177	mg/L	0.5177	mg/L	19:33:28
2	Na 589.592†	127324.3	140681.0	25.71	mg/L	25.71	mg/L	19:33:28
2	Sr 407.771†	38143.0	42217.4	0.0496	mg/L	0.0496	mg/L	19:33:28
2	Y 371.029	2436283.1	2436283.1	0.902	mg/L			19:33:57
2	Ag 328.068†	42161.3	44877.9	0.2506	mg/L	0.2506	mg/L	19:33:59
2	Al 237.313†	20082.7	22695.5	2.527	mg/L	2.527	mg/L	19:33:59
2	As 188.979†	594.0	665.2	0.4878	mg/L	0.4878	mg/L	19:34:09
2	B 182.528†	419.5	474.6	0.5093	mg/L	0.5093	mg/L	19:34:09
2	Ba 233.527†	51109.1	56760.1	0.4976	mg/L	0.4976	mg/L	19:33:59
2	Be 313.107†	100718.1	113101.2	0.0501	mg/L	0.0501	mg/L	19:33:57
2	Ca 315.887†	471001.2	524060.8	5.749	mg/L	5.749	mg/L	19:33:57
2	Cd 228.802†	7406.4	8052.2	0.2524	mg/L	0.2524	mg/L	19:34:09
2	Co 228.616†	22090.1	24732.4	0.4940	mg/L	0.4940	mg/L	19:33:59
2	Cr 267.716†	53026.8	58223.1	0.5113	mg/L	0.5113	mg/L	19:33:59
2	Cu 324.752†	89441.0	94357.7	0.5123	mg/L	0.5123	mg/L	19:33:59
2	Mg 279.077†	55446.8	61468.8	4.979	mg/L	4.979	mg/L	19:33:59
2	Mn 257.610†	383309.4	408891.3	0.5272	mg/L	0.5272	mg/L	19:33:59
2	Mn 294.920†	179572.0	200418.5	0.5242	mg/L	0.5242	mg/L	19:33:59
2	Mo 202.031†	10537.5	11646.7	0.4941	mg/L	0.4941	mg/L	19:34:09
2	Ni 231.604†	20444.6	22508.3	0.5041	mg/L	0.5041	mg/L	19:33:59
2	P 214.914†	7815.9	8692.4	5.482	mg/L	5.482	mg/L	19:34:09
2	Pb 220.353†	6616.5	7153.4	0.5052	mg/L	0.5052	mg/L	19:34:09
2	Sb 206.836†	1015.8	1078.4	0.5082	mg/L	0.5082	mg/L	19:34:09
2	Se 196.026†	1336.5	1470.8	1.013	mg/L	1.013	mg/L	19:34:09
2	Sn 189.927†	3103.9	3411.9	0.5072	mg/L	0.5072	mg/L	19:34:09
2	Ti 337.279†	384595.9	427009.9	0.5033	mg/L	0.5033	mg/L	19:33:59
2	Tl 190.801†	461.5	516.5	0.4996	mg/L	0.4996	mg/L	19:34:09
2	V 292.402†	99082.8	110198.4	0.5134	mg/L	0.5134	mg/L	19:33:59
2	Zn 213.857†	64120.6	69943.2	0.5131	mg/L	0.5131	mg/L	19:33:59

Mean Data: CG30507-BSD1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2460997.8	0.911 mg/L	0.0129			1.42%

Ag 328.068†	44262.8	0.2472 mg/L	0.00482	0.2472 mg/L	0.00482	1.95%
Al 237.313†	22326.5	2.486 mg/L	0.0578	2.486 mg/L	0.0578	2.32%
As 188.979†	663.4	0.4865 mg/L	0.00187	0.4865 mg/L	0.00187	0.38%
B 249.677†	883.3	0.4935 mg/L	0.00412	0.4935 mg/L	0.00412	0.83%
B 182.528†	465.7	0.4998 mg/L	0.01347	0.4998 mg/L	0.01347	2.70%
Ba 233.527†	56193.1	0.4927 mg/L	0.00699	0.4927 mg/L	0.00699	1.42%
Be 313.107†	113220.5	0.0501 mg/L	0.00008	0.0501 mg/L	0.00008	0.15%
Ca 315.887†	525604.7	5.766 mg/L	0.0238	5.766 mg/L	0.0238	0.41%
Cd 228.802†	7949.6	0.2492 mg/L	0.00453	0.2492 mg/L	0.00453	1.82%
Co 228.616†	24424.2	0.4879 mg/L	0.00871	0.4879 mg/L	0.00871	1.79%
Cr 267.716†	57466.1	0.5047 mg/L	0.00934	0.5047 mg/L	0.00934	1.85%
Cu 324.752†	93255.8	0.5063 mg/L	0.00839	0.5063 mg/L	0.00839	1.66%
Fe 234.349†	3730.5	2.481 mg/L	0.0670	2.481 mg/L	0.0670	2.70%
K 766.490†	46715.4	25.63 mg/L	0.354	25.63 mg/L	0.354	1.38%
Li 670.784†	18527.4	0.5137 mg/L	0.00561	0.5137 mg/L	0.00561	1.09%
Mg 279.077†	60766.8	4.923 mg/L	0.0800	4.923 mg/L	0.0800	1.63%
Mn 257.610†	404072.6	0.5210 mg/L	0.00875	0.5210 mg/L	0.00875	1.68%
Mn 294.920†	198100.8	0.5181 mg/L	0.00855	0.5181 mg/L	0.00855	1.65%
Mo 202.031†	11512.0	0.4884 mg/L	0.00804	0.4884 mg/L	0.00804	1.65%
Na 589.592†	139568.3	25.51 mg/L	0.286	25.51 mg/L	0.286	1.12%
Ni 231.604†	22254.6	0.4985 mg/L	0.00801	0.4985 mg/L	0.00801	1.61%
P 214.914†	8572.3	5.407 mg/L	0.1062	5.407 mg/L	0.1062	1.96%
Pb 220.353†	7085.0	0.5004 mg/L	0.00684	0.5004 mg/L	0.00684	1.37%
Sb 206.836†	1068.0	0.5033 mg/L	0.00684	0.5033 mg/L	0.00684	1.36%
Se 196.026†	1453.1	1.000 mg/L	0.0172	1.000 mg/L	0.0172	1.72%
Sn 189.927†	3380.2	0.5025 mg/L	0.00663	0.5025 mg/L	0.00663	1.32%
Sr 407.771†	42031.4	0.0494 mg/L	0.00031	0.0494 mg/L	0.00031	0.62%
Ti 337.279†	422222.9	0.4977 mg/L	0.00790	0.4977 mg/L	0.00790	1.59%
Tl 190.801†	513.2	0.4964 mg/L	0.00451	0.4964 mg/L	0.00451	0.91%
V 292.402†	108937.3	0.5076 mg/L	0.00824	0.5076 mg/L	0.00824	1.62%
Zn 213.857†	69044.9	0.5065 mg/L	0.00928	0.5065 mg/L	0.00928	1.83%

Sequence No.: 88

Sample ID: 1307037-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 75

Date Collected: 7/5/2013 7:35:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307037-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	65.4	76.5	0.0439 mg/L	0.0439 mg/L	0.0439 mg/L	19:37:37
1	Fe 234.349†	794.8	844.0	0.5364 mg/L	0.5364 mg/L	0.5364 mg/L	19:37:37
1	K 766.490†	27996.5	29152.5	16.06 mg/L	16.06 mg/L	16.06 mg/L	19:37:27
1	Li 670.784†	-361.6	-151.4	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	19:37:27
1	Na 589.592†	175368.6	187252.9	34.18 mg/L	34.18 mg/L	34.18 mg/L	19:37:27
1	Sr 407.771†	33473.4	35762.8	0.0421 mg/L	0.0421 mg/L	0.0421 mg/L	19:37:27
1	Y 371.029	2523145.2	2523145.2	0.934 mg/L	0.934 mg/L	0.934 mg/L	19:37:54
1	Ag 328.068†	1717.6	-26.4	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	19:37:56
1	Al 237.313†	-117.6	304.5	0.0471 mg/L	0.0471 mg/L	0.0471 mg/L	19:38:06
1	As 188.979†	-4.7	1.6	0.0056 mg/L	0.0056 mg/L	0.0056 mg/L	19:38:06
1	B 182.528†	18.1	29.0	0.0310 mg/L	0.0310 mg/L	0.0310 mg/L	19:38:06
1	Ba 233.527†	1053.9	1225.2	0.0138 mg/L	0.0138 mg/L	0.0138 mg/L	19:38:06
1	Be 313.107†	-1047.3	316.8	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	19:37:56
1	Ca 315.887†	1925879.9	2063536.5	22.52 mg/L	22.52 mg/L	22.52 mg/L	19:37:54
1	Cd 228.802†	183.1	37.0	0.0022 mg/L	0.0022 mg/L	0.0022 mg/L	19:38:06
1	Co 228.616†	-212.8	14.0	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	19:38:06
1	Cr 267.716†	651.4	131.1	0.0045 mg/L	0.0045 mg/L	0.0045 mg/L	19:38:06
1	Cu 324.752†	7354.6	3070.3	0.0209 mg/L	0.0209 mg/L	0.0209 mg/L	19:37:56
1	Mg 279.077†	25455.3	27246.6	2.221 mg/L	2.221 mg/L	2.221 mg/L	19:37:56
1	Mn 257.610†	39249.7	25944.4	0.0349 mg/L	0.0349 mg/L	0.0349 mg/L	19:37:56
1	Mn 294.920†	10433.0	12500.9	0.0341 mg/L	0.0341 mg/L	0.0341 mg/L	19:37:56
1	Mo 202.031†	162.4	137.9	0.0082 mg/L	0.0082 mg/L	0.0082 mg/L	19:38:06
1	Ni 231.604†	369.6	237.6	0.0069 mg/L	0.0069 mg/L	0.0069 mg/L	19:38:06
1	P 214.914†	5880.4	6322.1	4.006 mg/L	4.006 mg/L	4.006 mg/L	19:38:06
1	Pb 220.353†	127.2	-45.9	-0.0034 mg/L	-0.0034 mg/L	-0.0034 mg/L	19:38:06
1	Sb 206.836†	53.1	9.0	0.0083 mg/L	0.0083 mg/L	0.0083 mg/L	19:38:06
1	Se 196.026†	7.7	-2.7	0.0031 mg/L	0.0031 mg/L	0.0031 mg/L	19:38:06
1	Sn 189.927†	-236.9	-283.0	-0.0294 mg/L	-0.0294 mg/L	-0.0294 mg/L	19:38:06
1	Ti 337.279†	-322.7	274.3	0.0052 mg/L	0.0052 mg/L	0.0052 mg/L	19:37:56
1	Tl 190.801†	-0.0	4.8	0.0059 mg/L	0.0059 mg/L	0.0059 mg/L	19:38:06

1	V 292.402†	-281.1	47.4	0.0048	mg/L	0.0048	mg/L	19:37:56
1	Zn 213.857†	9916.2	9469.9	0.0723	mg/L	0.0723	mg/L	19:38:06
2	B 249.677†	60.0	70.7	0.0406	mg/L	0.0406	mg/L	19:37:50
2	Fe 234.349†	793.6	841.9	0.5349	mg/L	0.5349	mg/L	19:37:50
2	K 766.490†	28119.2	29252.4	16.12	mg/L	16.12	mg/L	19:37:40
2	Li 670.784†	-304.6	-90.1	0.0020	mg/L	0.0020	mg/L	19:37:40
2	Na 589.592†	176052.0	187787.7	34.28	mg/L	34.28	mg/L	19:37:40
2	Sr 407.771†	33423.7	35672.2	0.0420	mg/L	0.0420	mg/L	19:37:40
2	Y 371.029	2525782.7	2525782.7	0.935	mg/L			19:38:09
2	Ag 328.068†	1835.0	97.2	0.0023	mg/L	0.0023	mg/L	19:38:11
2	Al 237.313†	-85.9	338.6	0.0508	mg/L	0.0508	mg/L	19:38:21
2	As 188.979†	-6.8	-0.6	0.0039	mg/L	0.0039	mg/L	19:38:21
2	B 182.528†	23.5	34.7	0.0371	mg/L	0.0371	mg/L	19:38:21
2	Ba 233.527†	1038.9	1208.0	0.0137	mg/L	0.0137	mg/L	19:38:21
2	Be 313.107†	-998.3	370.5	0.0005	mg/L	0.0005	mg/L	19:38:11
2	Ca 315.887†	1932942.2	2068936.0	22.58	mg/L	22.58	mg/L	19:38:09
2	Cd 228.802†	176.3	29.5	0.0019	mg/L	0.0019	mg/L	19:38:21
2	Co 228.616†	-229.8	-3.9	-0.0001	mg/L	-0.0001	mg/L	19:38:21
2	Cr 267.716†	660.8	140.4	0.0046	mg/L	0.0046	mg/L	19:38:21
2	Cu 324.752†	7554.3	3275.5	0.0220	mg/L	0.0220	mg/L	19:38:11
2	Mg 279.077†	25954.6	27752.0	2.262	mg/L	2.262	mg/L	19:38:11
2	Mn 257.610†	39800.6	26489.7	0.0356	mg/L	0.0356	mg/L	19:38:11
2	Mn 294.920†	10785.6	12866.3	0.0351	mg/L	0.0351	mg/L	19:38:11
2	Mo 202.031†	176.6	152.9	0.0088	mg/L	0.0088	mg/L	19:38:21
2	Ni 231.604†	393.5	262.8	0.0075	mg/L	0.0075	mg/L	19:38:21
2	P 214.914†	5920.7	6358.6	4.029	mg/L	4.029	mg/L	19:38:21
2	Pb 220.353†	159.1	-11.9	-0.0010	mg/L	-0.0010	mg/L	19:38:21
2	Sb 206.836†	55.6	11.6	0.0095	mg/L	0.0095	mg/L	19:38:21
2	Se 196.026†	1.9	-8.9	-0.0011	mg/L	-0.0011	mg/L	19:38:21
2	Sn 189.927†	-238.1	-284.0	-0.0295	mg/L	-0.0295	mg/L	19:38:21
2	Ti 337.279†	533.2	1190.0	0.0063	mg/L	0.0063	mg/L	19:38:11
2	Tl 190.801†	-1.0	3.7	0.0049	mg/L	0.0049	mg/L	19:38:21
2	V 292.402†	-166.5	170.2	0.0054	mg/L	0.0054	mg/L	19:38:11
2	Zn 213.857†	9955.3	9500.6	0.0725	mg/L	0.0725	mg/L	19:38:21

Mean Data: 1307037-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2524464.0	0.935	mg/L	0.0007				0.07%
Ag 328.068†	35.4	0.0020	mg/L	0.00048	0.0020	mg/L	0.00048	24.41%
Al 237.313†	321.5	0.0489	mg/L	0.00266	0.0489	mg/L	0.00266	5.44%
As 188.979†	0.5	0.0047	mg/L	0.00118	0.0047	mg/L	0.00118	24.91%
B 249.677†	73.6	0.0422	mg/L	0.00230	0.0422	mg/L	0.00230	5.45%
B 182.528†	31.8	0.0341	mg/L	0.00435	0.0341	mg/L	0.00435	12.76%
Ba 233.527†	1216.6	0.0137	mg/L	0.00011	0.0137	mg/L	0.00011	0.77%
Be 313.107†	343.6	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	3.10%
Ca 315.887†	2066236.2	22.55	mg/L	0.042	22.55	mg/L	0.042	0.18%
Cd 228.802†	33.2	0.0020	mg/L	0.00017	0.0020	mg/L	0.00017	8.17%
Co 228.616†	5.0	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	230.27%
Cr 267.716†	135.7	0.0046	mg/L	0.00006	0.0046	mg/L	0.00006	1.26%
Cu 324.752†	3172.9	0.0215	mg/L	0.00078	0.0215	mg/L	0.00078	3.64%
Fe 234.349†	842.9	0.5356	mg/L	0.00107	0.5356	mg/L	0.00107	0.20%
K 766.490†	29202.4	16.09	mg/L	0.038	16.09	mg/L	0.038	0.24%
Li 670.784†	-120.8	0.0011	mg/L	0.00119	0.0011	mg/L	0.00119	105.54%
Mg 279.077†	27499.3	2.241	mg/L	0.0288	2.241	mg/L	0.0288	1.29%
Mn 257.610†	26217.0	0.0353	mg/L	0.00050	0.0353	mg/L	0.00050	1.41%
Mn 294.920†	12683.6	0.0346	mg/L	0.00067	0.0346	mg/L	0.00067	1.95%
Mo 202.031†	145.4	0.0085	mg/L	0.00045	0.0085	mg/L	0.00045	5.25%
Na 589.592†	187520.3	34.23	mg/L	0.069	34.23	mg/L	0.069	0.20%
Ni 231.604†	250.2	0.0072	mg/L	0.00040	0.0072	mg/L	0.00040	5.51%
P 214.914†	6340.3	4.017	mg/L	0.0161	4.017	mg/L	0.0161	0.40%
Pb 220.353†	-28.9	-0.0022	mg/L	0.00169	-0.0022	mg/L	0.00169	77.56%
Sb 206.836†	10.3	0.0089	mg/L	0.00086	0.0089	mg/L	0.00086	9.63%
Se 196.026†	-5.8	0.0010	mg/L	0.00298	0.0010	mg/L	0.00298	310.57%
Sn 189.927†	-283.5	-0.0294	mg/L	0.00008	-0.0294	mg/L	0.00008	0.27%
Sr 407.771†	35717.5	0.0420	mg/L	0.00007	0.0420	mg/L	0.00007	0.18%
Ti 337.279†	732.2	0.0058	mg/L	0.00076	0.0058	mg/L	0.00076	13.14%
Tl 190.801†	4.2	0.0054	mg/L	0.00075	0.0054	mg/L	0.00075	13.91%
V 292.402†	108.8	0.0051	mg/L	0.00040	0.0051	mg/L	0.00040	7.82%
Zn 213.857†	9485.3	0.0724	mg/L	0.00016	0.0724	mg/L	0.00016	0.22%

Sequence No.: 89
 Sample ID: 1307074-01
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 76
 Date Collected: 7/5/2013 7:39:58 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Replicate Data: 1307074-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	78.5	90.3	0.0516	mg/L	0.0516	mg/L	19:41:47
1	Fe 234.349†	2643.2	2816.5	1.874	mg/L	1.874	mg/L	19:41:47
1	K 766.490†	29161.4	30329.5	16.70	mg/L	16.70	mg/L	19:41:37
1	Li 670.784†	3528.8	4004.7	0.1145	mg/L	0.1145	mg/L	19:41:37
1	Na 589.592†	358870.5	382831.5	69.77	mg/L	69.77	mg/L	19:41:37
1	Sr 407.771†	19802.2	21080.2	0.0249	mg/L	0.0249	mg/L	19:41:37
1	Y 371.029	2528812.0	2528812.0	0.936	mg/L			19:42:03
1	Ag 328.068†	1867.5	129.5	0.0025	mg/L	0.0025	mg/L	19:42:05
1	Al 237.313†	2086.5	2659.1	0.3077	mg/L	0.3077	mg/L	19:42:05
1	As 188.979†	-8.0	-1.9	0.0030	mg/L	0.0030	mg/L	19:42:16
1	B 182.528†	38.5	50.7	0.0543	mg/L	0.0543	mg/L	19:42:16
1	Ba 233.527†	4028.9	4400.3	0.0415	mg/L	0.0415	mg/L	19:42:16
1	Be 313.107†	-1298.4	51.2	0.0004	mg/L	0.0004	mg/L	19:42:05
1	Ca 315.887†	672728.3	720419.7	7.887	mg/L	7.887	mg/L	19:42:03
1	Cd 228.802†	183.5	36.9	0.0021	mg/L	0.0021	mg/L	19:42:16
1	Co 228.616†	-158.8	72.1	0.0015	mg/L	0.0015	mg/L	19:42:16
1	Cr 267.716†	3163.9	2813.2	0.0279	mg/L	0.0279	mg/L	19:42:05
1	Cu 324.752†	31419.5	28756.4	0.1591	mg/L	0.1591	mg/L	19:42:05
1	Mg 279.077†	15087.3	16111.3	1.324	mg/L	1.324	mg/L	19:42:05
1	Mn 257.610†	45330.6	32345.3	0.0429	mg/L	0.0429	mg/L	19:42:05
1	Mn 294.920†	13648.6	15910.5	0.0430	mg/L	0.0430	mg/L	19:42:05
1	Mo 202.031†	1168.9	1212.6	0.0529	mg/L	0.0529	mg/L	19:42:16
1	Ni 231.604†	5709.0	5939.7	0.1341	mg/L	0.1341	mg/L	19:42:05
1	P 214.914†	632.0	702.1	0.4845	mg/L	0.4845	mg/L	19:42:16
1	Pb 220.353†	362.2	204.7	0.0143	mg/L	0.0143	mg/L	19:42:16
1	Sb 206.836†	53.8	9.7	0.0085	mg/L	0.0085	mg/L	19:42:16
1	Se 196.026†	19.6	10.1	0.0116	mg/L	0.0116	mg/L	19:42:16
1	Sn 189.927†	-19.4	-50.0	-0.0039	mg/L	-0.0039	mg/L	19:42:16
1	Ti 337.279†	7680.7	8823.6	0.0152	mg/L	0.0152	mg/L	19:42:05
1	Tl 190.801†	-5.2	-0.7	-0.0005	mg/L	-0.0005	mg/L	19:42:16
1	V 292.402†	-152.7	185.2	0.0061	mg/L	0.0061	mg/L	19:42:05
1	Zn 213.857†	35762.5	37052.6	0.2741	mg/L	0.2741	mg/L	19:42:05
2	B 249.677†	88.4	101.6	0.0579	mg/L	0.0579	mg/L	19:41:59
2	Fe 234.349†	2674.1	2869.5	1.909	mg/L	1.909	mg/L	19:41:59
2	K 766.490†	28748.8	30104.9	16.58	mg/L	16.58	mg/L	19:41:49
2	Li 670.784†	3478.2	3976.8	0.1138	mg/L	0.1138	mg/L	19:41:49
2	Na 589.592†	352085.6	378230.0	68.93	mg/L	68.93	mg/L	19:41:49
2	Sr 407.771†	19301.4	20690.4	0.0245	mg/L	0.0245	mg/L	19:41:49
2	Y 371.029	2511146.5	2511146.5	0.930	mg/L			19:42:18
2	Ag 328.068†	1963.8	247.1	0.0032	mg/L	0.0032	mg/L	19:42:20
2	Al 237.313†	2337.4	2944.6	0.3393	mg/L	0.3393	mg/L	19:42:20
2	As 188.979†	-2.8	3.7	0.0070	mg/L	0.0070	mg/L	19:42:30
2	B 182.528†	40.6	53.2	0.0570	mg/L	0.0570	mg/L	19:42:30
2	Ba 233.527†	4042.9	4445.6	0.0419	mg/L	0.0419	mg/L	19:42:30
2	Be 313.107†	-1272.6	69.2	0.0004	mg/L	0.0004	mg/L	19:42:20
2	Ca 315.887†	664624.3	716757.7	7.847	mg/L	7.847	mg/L	19:42:18
2	Cd 228.802†	191.3	46.8	0.0024	mg/L	0.0024	mg/L	19:42:30
2	Co 228.616†	-159.7	70.0	0.0014	mg/L	0.0014	mg/L	19:42:30
2	Cr 267.716†	3306.8	2990.6	0.0295	mg/L	0.0295	mg/L	19:42:20
2	Cu 324.752†	32111.3	29736.6	0.1643	mg/L	0.1643	mg/L	19:42:20
2	Mg 279.077†	15408.6	16570.3	1.361	mg/L	1.361	mg/L	19:42:20
2	Mn 257.610†	46182.5	33602.2	0.0445	mg/L	0.0445	mg/L	19:42:20
2	Mn 294.920†	14051.2	16446.1	0.0444	mg/L	0.0444	mg/L	19:42:20
2	Mo 202.031†	1139.9	1190.2	0.0519	mg/L	0.0519	mg/L	19:42:30
2	Ni 231.604†	5839.1	6122.6	0.1382	mg/L	0.1382	mg/L	19:42:20
2	P 214.914†	634.8	709.8	0.4893	mg/L	0.4893	mg/L	19:42:30
2	Pb 220.353†	347.2	191.4	0.0133	mg/L	0.0133	mg/L	19:42:30
2	Sb 206.836†	57.0	13.5	0.0102	mg/L	0.0102	mg/L	19:42:30
2	Se 196.026†	23.7	14.6	0.0146	mg/L	0.0146	mg/L	19:42:30
2	Sn 189.927†	-19.2	-49.9	-0.0040	mg/L	-0.0040	mg/L	19:42:30
2	Ti 337.279†	6992.3	8140.9	0.0144	mg/L	0.0144	mg/L	19:42:20
2	Tl 190.801†	-15.7	-12.1	-0.0115	mg/L	-0.0115	mg/L	19:42:30
2	V 292.402†	-75.2	267.4	0.0064	mg/L	0.0064	mg/L	19:42:20

 Mean Data: 1307074-01

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	2519979.3	0.933	mg/L	0.0046				0.50%
Ag 328.068†	188.3	0.0029	mg/L	0.00046	0.0029	mg/L	0.00046	16.11%
Al 237.313†	2801.8	0.3235	mg/L	0.02235	0.3235	mg/L	0.02235	6.91%
As 188.979†	0.9	0.0050	mg/L	0.00285	0.0050	mg/L	0.00285	56.74%
B 249.677†	96.0	0.0548	mg/L	0.00446	0.0548	mg/L	0.00446	8.14%
B 182.528†	51.9	0.0557	mg/L	0.00188	0.0557	mg/L	0.00188	3.37%
Ba 233.527†	4423.0	0.0417	mg/L	0.00028	0.0417	mg/L	0.00028	0.67%
Be 313.107†	60.2	0.0004	mg/L	0.00001	0.0004	mg/L	0.00001	1.44%
Ca 315.887†	718588.7	7.867	mg/L	0.0282	7.867	mg/L	0.0282	0.36%
Cd 228.802†	41.8	0.0023	mg/L	0.00022	0.0023	mg/L	0.00022	9.52%
Co 228.616†	71.1	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.04%
Cr 267.716†	2901.9	0.0287	mg/L	0.00109	0.0287	mg/L	0.00109	3.81%
Cu 324.752†	29246.5	0.1617	mg/L	0.00373	0.1617	mg/L	0.00373	2.31%
Fe 234.349†	2843.0	1.892	mg/L	0.0250	1.892	mg/L	0.0250	1.32%
K 766.490†	30217.2	16.64	mg/L	0.087	16.64	mg/L	0.087	0.52%
Li 670.784†	3990.8	0.1141	mg/L	0.00054	0.1141	mg/L	0.00054	0.48%
Mg 279.077†	16340.8	1.342	mg/L	0.0262	1.342	mg/L	0.0262	1.95%
Mn 257.610†	32973.7	0.0437	mg/L	0.00114	0.0437	mg/L	0.00114	2.60%
Mn 294.920†	16178.3	0.0437	mg/L	0.00099	0.0437	mg/L	0.00099	2.26%
Mo 202.031†	1201.4	0.0524	mg/L	0.00070	0.0524	mg/L	0.00070	1.33%
Na 589.592†	380530.8	69.35	mg/L	0.592	69.35	mg/L	0.592	0.85%
Ni 231.604†	6031.2	0.1361	mg/L	0.00288	0.1361	mg/L	0.00288	2.12%
P 214.914†	706.0	0.4869	mg/L	0.00341	0.4869	mg/L	0.00341	0.70%
Pb 220.353†	198.1	0.0138	mg/L	0.00067	0.0138	mg/L	0.00067	4.88%
Sb 206.836†	11.6	0.0094	mg/L	0.00124	0.0094	mg/L	0.00124	13.23%
Se 196.026†	12.3	0.0131	mg/L	0.00218	0.0131	mg/L	0.00218	16.62%
Sn 189.927†	-50.0	-0.0039	mg/L	0.00001	-0.0039	mg/L	0.00001	0.19%
Sr 407.771†	20885.3	0.0247	mg/L	0.00032	0.0247	mg/L	0.00032	1.30%
Ti 337.279†	8482.2	0.0148	mg/L	0.00056	0.0148	mg/L	0.00056	3.81%
Tl 190.801†	-6.4	-0.0060	mg/L	0.00781	-0.0060	mg/L	0.00781	129.96%
V 292.402†	226.3	0.0062	mg/L	0.00026	0.0062	mg/L	0.00026	4.12%
Zn 213.857†	37581.3	0.2780	mg/L	0.00548	0.2780	mg/L	0.00548	1.97%

Sequence No.: 90
 Sample ID: CG30507-DUP1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 77
 Date Collected: 7/5/2013 7:44:08 PM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

 Replicate Data: CG30507-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	94.4	108.8	0.0619	mg/L	0.0619	mg/L	19:46:00
1	Fe 234.349†	2625.8	2841.1	1.890	mg/L	1.890	mg/L	19:46:00
1	K 766.490†	28285.1	29860.1	16.45	mg/L	16.45	mg/L	19:45:50
1	Li 670.784†	3444.1	3971.1	0.1136	mg/L	0.1136	mg/L	19:45:50
1	Na 589.592†	345666.6	374429.3	68.24	mg/L	68.24	mg/L	19:45:50
1	Sr 407.771†	18977.3	20512.1	0.0243	mg/L	0.0243	mg/L	19:45:50
1	Y 371.029	2490358.2	2490358.2	0.922	mg/L			19:46:16
1	Ag 328.068†	1900.6	196.3	0.0029	mg/L	0.0029	mg/L	19:46:18
1	Al 237.313†	2358.5	2988.5	0.3442	mg/L	0.3442	mg/L	19:46:18
1	As 188.979†	-5.0	1.2	0.0052	mg/L	0.0052	mg/L	19:46:28
1	B 182.528†	38.1	50.9	0.0545	mg/L	0.0545	mg/L	19:46:28
1	Ba 233.527†	4035.5	4473.9	0.0421	mg/L	0.0421	mg/L	19:46:28
1	Be 313.107†	-1304.0	23.7	0.0004	mg/L	0.0004	mg/L	19:46:18
1	Ca 315.887†	658566.9	716155.4	7.841	mg/L	7.841	mg/L	19:46:16
1	Cd 228.802†	205.9	64.2	0.0030	mg/L	0.0030	mg/L	19:46:28
1	Co 228.616†	-142.1	87.7	0.0018	mg/L	0.0018	mg/L	19:46:28
1	Cr 267.716†	3273.7	2984.4	0.0294	mg/L	0.0294	mg/L	19:46:18
1	Cu 324.752†	32183.6	30103.4	0.1663	mg/L	0.1663	mg/L	19:46:18
1	Mg 279.077†	15351.4	16646.7	1.367	mg/L	1.367	mg/L	19:46:18
1	Mn 257.610†	50093.3	38258.5	0.0505	mg/L	0.0505	mg/L	19:46:18
1	Mn 294.920†	15959.2	18641.7	0.0501	mg/L	0.0501	mg/L	19:46:18
1	Mo 202.031†	1124.4	1183.6	0.0516	mg/L	0.0516	mg/L	19:46:28
1	Ni 231.604†	5840.3	6176.3	0.1394	mg/L	0.1394	mg/L	19:46:18

1	P 214.914†	646.8	728.6	0.5010	mg/L	0.5010	mg/L	19:46:28
1	Pb 220.353†	596.7	465.1	0.0326	mg/L	0.0326	mg/L	19:46:28
1	Sb 206.836†	61.1	18.4	0.0125	mg/L	0.0125	mg/L	19:46:28
1	Se 196.026†	12.3	2.5	0.0064	mg/L	0.0064	mg/L	19:46:28
1	Sn 189.927†	2.8	-26.3	-0.0005	mg/L	-0.0005	mg/L	19:46:28
1	Ti 337.279†	8958.7	10336.4	0.0170	mg/L	0.0170	mg/L	19:46:18
1	Tl 190.801†	-13.3	-9.6	-0.0091	mg/L	-0.0091	mg/L	19:46:28
1	V 292.402†	24.3	374.6	0.0069	mg/L	0.0069	mg/L	19:46:18
1	Zn 213.857†	37401.6	39420.3	0.2915	mg/L	0.2915	mg/L	19:46:18
2	B 249.677†	89.3	102.9	0.0586	mg/L	0.0586	mg/L	19:46:12
2	Fe 234.349†	2655.0	2861.9	1.904	mg/L	1.904	mg/L	19:46:12
2	K 766.490†	28059.5	29500.1	16.25	mg/L	16.25	mg/L	19:46:02
2	Li 670.784†	3339.4	3843.8	0.1101	mg/L	0.1101	mg/L	19:46:02
2	Na 589.592†	343816.1	371009.1	67.62	mg/L	67.62	mg/L	19:46:02
2	Sr 407.771†	18819.3	20263.5	0.0240	mg/L	0.0240	mg/L	19:46:02
2	Y 371.029	2499831.9	2499831.9	0.926	mg/L			19:46:31
2	Ag 328.068†	1918.5	207.7	0.0030	mg/L	0.0030	mg/L	19:46:33
2	Al 237.313†	2239.5	2850.2	0.3289	mg/L	0.3289	mg/L	19:46:33
2	As 188.979†	-0.2	6.5	0.0091	mg/L	0.0091	mg/L	19:46:43
2	B 182.528†	34.9	47.3	0.0506	mg/L	0.0506	mg/L	19:46:43
2	Ba 233.527†	4087.1	4513.1	0.0424	mg/L	0.0424	mg/L	19:46:43
2	Be 313.107†	-1232.3	106.5	0.0004	mg/L	0.0004	mg/L	19:46:33
2	Ca 315.887†	659236.5	714172.0	7.819	mg/L	7.819	mg/L	19:46:31
2	Cd 228.802†	207.0	64.6	0.0030	mg/L	0.0030	mg/L	19:46:43
2	Co 228.616†	-152.0	77.6	0.0016	mg/L	0.0016	mg/L	19:46:43
2	Cr 267.716†	3250.9	2946.3	0.0291	mg/L	0.0291	mg/L	19:46:33
2	Cu 324.752†	31629.9	29372.9	0.1624	mg/L	0.1624	mg/L	19:46:33
2	Mg 279.077†	14968.8	16170.2	1.328	mg/L	1.328	mg/L	19:46:33
2	Mn 257.610†	49238.4	37128.9	0.0490	mg/L	0.0490	mg/L	19:46:33
2	Mn 294.920†	15571.7	18157.3	0.0489	mg/L	0.0489	mg/L	19:46:33
2	Mo 202.031†	1122.4	1176.8	0.0513	mg/L	0.0513	mg/L	19:46:43
2	Ni 231.604†	5683.1	5982.4	0.1351	mg/L	0.1351	mg/L	19:46:33
2	P 214.914†	652.0	731.6	0.5030	mg/L	0.5030	mg/L	19:46:43
2	Pb 220.353†	603.3	469.7	0.0330	mg/L	0.0330	mg/L	19:46:43
2	Sb 206.836†	64.8	22.2	0.0143	mg/L	0.0143	mg/L	19:46:43
2	Se 196.026†	7.9	-2.3	0.0031	mg/L	0.0031	mg/L	19:46:43
2	Sn 189.927†	2.0	-27.1	-0.0006	mg/L	-0.0006	mg/L	19:46:43
2	Ti 337.279†	8457.2	9757.7	0.0163	mg/L	0.0163	mg/L	19:46:33
2	Tl 190.801†	-16.0	-12.4	-0.0119	mg/L	-0.0119	mg/L	19:46:43
2	V 292.402†	13.7	363.1	0.0068	mg/L	0.0068	mg/L	19:46:33
2	Zn 213.857†	36542.1	38337.9	0.2836	mg/L	0.2836	mg/L	19:46:33

Mean Data: CG30507-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2495095.1	0.924	mg/L	0.0025				0.27%
Ag 328.068†	202.0	0.0029	mg/L	0.00005	0.0029	mg/L	0.00005	1.53%
Al 237.313†	2919.3	0.3365	mg/L	0.01082	0.3365	mg/L	0.01082	3.22%
As 188.979†	3.8	0.0072	mg/L	0.00271	0.0072	mg/L	0.00271	37.90%
B 249.677†	105.9	0.0603	mg/L	0.00232	0.0603	mg/L	0.00232	3.85%
B 182.528†	49.1	0.0526	mg/L	0.00274	0.0526	mg/L	0.00274	5.21%
Ba 233.527†	4493.5	0.0423	mg/L	0.00024	0.0423	mg/L	0.00024	0.57%
Be 313.107†	65.1	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.31%
Ca 315.887†	715163.7	7.830	mg/L	0.0153	7.830	mg/L	0.0153	0.20%
Cd 228.802†	64.4	0.0030	mg/L	0.00001	0.0030	mg/L	0.00001	0.24%
Co 228.616†	82.6	0.0017	mg/L	0.00014	0.0017	mg/L	0.00014	8.50%
Cr 267.716†	2965.4	0.0293	mg/L	0.00023	0.0293	mg/L	0.00023	0.80%
Cu 324.752†	29738.1	0.1644	mg/L	0.00278	0.1644	mg/L	0.00278	1.69%
Fe 234.349†	2851.5	1.897	mg/L	0.0099	1.897	mg/L	0.0099	0.52%
K 766.490†	29680.1	16.35	mg/L	0.139	16.35	mg/L	0.139	0.85%
Li 670.784†	3907.4	0.1118	mg/L	0.00247	0.1118	mg/L	0.00247	2.21%
Mg 279.077†	16408.4	1.348	mg/L	0.0272	1.348	mg/L	0.0272	2.02%
Mn 257.610†	37693.7	0.0498	mg/L	0.00103	0.0498	mg/L	0.00103	2.07%
Mn 294.920†	18399.5	0.0495	mg/L	0.00089	0.0495	mg/L	0.00089	1.80%
Mo 202.031†	1180.2	0.0515	mg/L	0.00019	0.0515	mg/L	0.00019	0.37%
Na 589.592†	372719.2	67.93	mg/L	0.440	67.93	mg/L	0.440	0.65%
Ni 231.604†	6079.4	0.1372	mg/L	0.00306	0.1372	mg/L	0.00306	2.23%
P 214.914†	730.1	0.5020	mg/L	0.00137	0.5020	mg/L	0.00137	0.27%
Pb 220.353†	467.4	0.0328	mg/L	0.00024	0.0328	mg/L	0.00024	0.72%
Sb 206.836†	20.3	0.0134	mg/L	0.00125	0.0134	mg/L	0.00125	9.32%
Se 196.026†	0.1	0.0047	mg/L	0.00233	0.0047	mg/L	0.00233	49.55%
Sn 189.927†	-26.7	-0.0005	mg/L	0.00009	-0.0005	mg/L	0.00009	17.95%

Sr 407.771†	20387.8	0.0241 mg/L	0.00020	0.0241 mg/L	0.00020	0.85%
Ti 337.279†	10047.0	0.0166 mg/L	0.00048	0.0166 mg/L	0.00048	2.87%
Tl 190.801†	-11.0	-0.0105 mg/L	0.00194	-0.0105 mg/L	0.00194	18.47%
V 292.402†	368.8	0.0069 mg/L	0.00004	0.0069 mg/L	0.00004	0.54%
Zn 213.857†	38879.1	0.2875 mg/L	0.00561	0.2875 mg/L	0.00561	1.95%

Sequence No.: 91
Sample ID: CG30507-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 7/5/2013 7:48:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30507-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	882.1	961.7	0.5373 mg/L	0.5373 mg/L	0.5373 mg/L	19:50:03
1	Fe 234.349†	6259.5	6771.7	4.496 mg/L	4.496 mg/L	4.496 mg/L	19:50:03
1	K 766.490†	71447.9	76553.3	41.89 mg/L	41.89 mg/L	41.89 mg/L	19:50:01
1	Li 670.784†	20570.0	22510.9	0.6232 mg/L	0.6232 mg/L	0.6232 mg/L	19:50:03
1	Na 589.592†	472862.2	511584.9	93.19 mg/L	93.19 mg/L	93.19 mg/L	19:50:01
1	Sr 407.771†	58297.5	63060.1	0.0739 mg/L	0.0739 mg/L	0.0739 mg/L	19:50:01
1	Y 371.029	2494250.9	2494250.9	0.923 mg/L	0.923 mg/L	0.923 mg/L	19:50:11
1	Ag 328.068†	43072.4	44778.1	0.2501 mg/L	0.2501 mg/L	0.2501 mg/L	19:50:14
1	Al 237.313†	23122.2	25469.5	2.834 mg/L	2.834 mg/L	2.834 mg/L	19:50:14
1	As 188.979†	616.7	674.4	0.4945 mg/L	0.4945 mg/L	0.4945 mg/L	19:50:24
1	B 182.528†	459.9	507.6	0.5448 mg/L	0.5448 mg/L	0.5448 mg/L	19:50:24
1	Ba 233.527†	57047.4	61873.9	0.5422 mg/L	0.5422 mg/L	0.5422 mg/L	19:50:14
1	Be 313.107†	104084.6	114151.7	0.0505 mg/L	0.0505 mg/L	0.0505 mg/L	19:50:11
1	Ca 315.887†	1085794.5	1177687.3	12.87 mg/L	12.87 mg/L	12.87 mg/L	19:50:11
1	Cd 228.802†	7506.0	7969.2	0.2498 mg/L	0.2498 mg/L	0.2498 mg/L	19:50:24
1	Co 228.616†	22600.4	24715.8	0.4937 mg/L	0.4937 mg/L	0.4937 mg/L	19:50:14
1	Cr 267.716†	56284.7	60384.8	0.5302 mg/L	0.5302 mg/L	0.5302 mg/L	19:50:14
1	Cu 324.752†	123240.5	128654.8	0.6967 mg/L	0.6967 mg/L	0.6967 mg/L	19:50:14
1	Mg 279.077†	71226.7	77128.2	6.241 mg/L	6.241 mg/L	6.241 mg/L	19:50:14
1	Mn 257.610†	407004.8	424674.8	0.5470 mg/L	0.5470 mg/L	0.5470 mg/L	19:50:14
1	Mn 294.920†	191151.8	208331.5	0.5448 mg/L	0.5448 mg/L	0.5448 mg/L	19:50:14
1	Mo 202.031†	11722.2	12658.0	0.5358 mg/L	0.5358 mg/L	0.5358 mg/L	19:50:24
1	Ni 231.604†	26438.4	28472.2	0.6371 mg/L	0.6371 mg/L	0.6371 mg/L	19:50:14
1	P 214.914†	8043.4	8737.4	5.508 mg/L	5.508 mg/L	5.508 mg/L	19:50:24
1	Pb 220.353†	6879.0	7267.2	0.5132 mg/L	0.5132 mg/L	0.5132 mg/L	19:50:24
1	Sb 206.836†	1038.2	1076.4	0.5069 mg/L	0.5069 mg/L	0.5069 mg/L	19:50:24
1	Se 196.026†	1335.1	1434.9	0.9876 mg/L	0.9876 mg/L	0.9876 mg/L	19:50:24
1	Sn 189.927†	3144.9	3376.3	0.5063 mg/L	0.5063 mg/L	0.5063 mg/L	19:50:24
1	Ti 337.279†	397491.3	431064.9	0.5080 mg/L	0.5080 mg/L	0.5080 mg/L	19:50:14
1	Tl 190.801†	457.1	499.8	0.4824 mg/L	0.4824 mg/L	0.4824 mg/L	19:50:24
1	V 292.402†	101592.3	110363.0	0.5147 mg/L	0.5147 mg/L	0.5147 mg/L	19:50:14
1	Zn 213.857†	99060.4	106127.5	0.7781 mg/L	0.7781 mg/L	0.7781 mg/L	19:50:14
2	B 249.677†	878.9	963.4	0.5382 mg/L	0.5382 mg/L	0.5382 mg/L	19:50:07
2	Fe 234.349†	6154.6	6693.9	4.444 mg/L	4.444 mg/L	4.444 mg/L	19:50:07
2	K 766.490†	71480.9	77005.6	42.14 mg/L	42.14 mg/L	42.14 mg/L	19:50:05
2	Li 670.784†	20644.5	22711.9	0.6287 mg/L	0.6287 mg/L	0.6287 mg/L	19:50:07
2	Na 589.592†	471876.8	513266.7	93.50 mg/L	93.50 mg/L	93.50 mg/L	19:50:05
2	Sr 407.771†	58188.1	63280.6	0.0742 mg/L	0.0742 mg/L	0.0742 mg/L	19:50:05
2	Y 371.029	2480904.6	2480904.6	0.919 mg/L	0.919 mg/L	0.919 mg/L	19:50:26
2	Ag 328.068†	42748.7	44676.7	0.2496 mg/L	0.2496 mg/L	0.2496 mg/L	19:50:29
2	Al 237.313†	22989.7	25460.0	2.833 mg/L	2.833 mg/L	2.833 mg/L	19:50:29
2	As 188.979†	620.7	682.4	0.5003 mg/L	0.5003 mg/L	0.5003 mg/L	19:50:39
2	B 182.528†	465.1	515.9	0.5536 mg/L	0.5536 mg/L	0.5536 mg/L	19:50:39
2	Ba 233.527†	56793.2	61929.5	0.5427 mg/L	0.5427 mg/L	0.5427 mg/L	19:50:29
2	Be 313.107†	103201.1	113796.2	0.0504 mg/L	0.0504 mg/L	0.0504 mg/L	19:50:26
2	Ca 315.887†	1074960.1	1172217.0	12.81 mg/L	12.81 mg/L	12.81 mg/L	19:50:26
2	Cd 228.802†	7498.2	8004.5	0.2509 mg/L	0.2509 mg/L	0.2509 mg/L	19:50:39
2	Co 228.616†	22387.8	24616.1	0.4917 mg/L	0.4917 mg/L	0.4917 mg/L	19:50:29
2	Cr 267.716†	55981.1	60382.1	0.5301 mg/L	0.5301 mg/L	0.5301 mg/L	19:50:29
2	Cu 324.752†	122571.6	128644.6	0.6967 mg/L	0.6967 mg/L	0.6967 mg/L	19:50:29
2	Mg 279.077†	70774.0	77050.4	6.235 mg/L	6.235 mg/L	6.235 mg/L	19:50:29
2	Mn 257.610†	404567.5	424392.3	0.5467 mg/L	0.5467 mg/L	0.5467 mg/L	19:50:29
2	Mn 294.920†	189920.3	208104.3	0.5442 mg/L	0.5442 mg/L	0.5442 mg/L	19:50:29
2	Mo 202.031†	11809.9	12821.8	0.5427 mg/L	0.5427 mg/L	0.5427 mg/L	19:50:39
2	Ni 231.604†	26328.7	28506.8	0.6379 mg/L	0.6379 mg/L	0.6379 mg/L	19:50:29
2	P 214.914†	8056.1	8798.0	5.546 mg/L	5.546 mg/L	5.546 mg/L	19:50:39

2	Pb 220.353†	6889.4	7318.5	0.5168 mg/L	0.5168 mg/L	19:50:39
2	Sb 206.836†	1040.4	1084.9	0.5110 mg/L	0.5110 mg/L	19:50:39
2	Se 196.026†	1338.4	1446.2	0.9954 mg/L	0.9954 mg/L	19:50:39
2	Sn 189.927†	3179.0	3431.8	0.5145 mg/L	0.5145 mg/L	19:50:39
2	Ti 337.279†	395140.6	430821.3	0.5078 mg/L	0.5078 mg/L	19:50:29
2	Tl 190.801†	454.9	500.1	0.4826 mg/L	0.4826 mg/L	19:50:39
2	V 292.402†	101083.2	110400.6	0.5149 mg/L	0.5149 mg/L	19:50:29
2	Zn 213.857†	98336.2	105916.2	0.7765 mg/L	0.7765 mg/L	19:50:29

Mean Data: CG30507-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2487577.7	0.921	mg/L	0.0035			0.38%
Ag 328.068†	44727.4	0.2498	mg/L	0.00040	0.2498	mg/L	0.16%
Al 237.313†	25464.8	2.833	mg/L	0.0007	2.833	mg/L	0.03%
As 188.979†	678.4	0.4974	mg/L	0.00409	0.4974	mg/L	0.82%
B 249.677†	962.6	0.5377	mg/L	0.00067	0.5377	mg/L	0.13%
B 182.528†	511.8	0.5492	mg/L	0.00627	0.5492	mg/L	1.14%
Ba 233.527†	61901.7	0.5424	mg/L	0.00034	0.5424	mg/L	0.06%
Be 313.107†	113973.9	0.0504	mg/L	0.00011	0.0504	mg/L	0.22%
Ca 315.887†	1174952.2	12.84	mg/L	0.042	12.84	mg/L	0.33%
Cd 228.802†	7986.9	0.2503	mg/L	0.00078	0.2503	mg/L	0.31%
Co 228.616†	24665.9	0.4927	mg/L	0.00141	0.4927	mg/L	0.29%
Cr 267.716†	60383.4	0.5301	mg/L	0.00001	0.5301	mg/L	0.00%
Cu 324.752†	128649.7	0.6967	mg/L	0.00004	0.6967	mg/L	0.01%
Fe 234.349†	6732.8	4.470	mg/L	0.0366	4.470	mg/L	0.82%
K 766.490†	76779.5	42.02	mg/L	0.174	42.02	mg/L	0.41%
Li 670.784†	22611.4	0.6260	mg/L	0.00391	0.6260	mg/L	0.62%
Mg 279.077†	77089.3	6.238	mg/L	0.0044	6.238	mg/L	0.07%
Mn 257.610†	424533.5	0.5469	mg/L	0.00025	0.5469	mg/L	0.05%
Mn 294.920†	208217.9	0.5445	mg/L	0.00042	0.5445	mg/L	0.08%
Mo 202.031†	12739.9	0.5392	mg/L	0.00493	0.5392	mg/L	0.91%
Na 589.592†	512425.8	93.35	mg/L	0.216	93.35	mg/L	0.23%
Ni 231.604†	28489.5	0.6375	mg/L	0.00055	0.6375	mg/L	0.09%
P 214.914†	8767.7	5.527	mg/L	0.0268	5.527	mg/L	0.48%
Pb 220.353†	7292.9	0.5150	mg/L	0.00257	0.5150	mg/L	0.50%
Sb 206.836†	1080.6	0.5090	mg/L	0.00286	0.5090	mg/L	0.56%
Se 196.026†	1440.6	0.9915	mg/L	0.00550	0.9915	mg/L	0.55%
Sn 189.927†	3404.1	0.5104	mg/L	0.00578	0.5104	mg/L	1.13%
Sr 407.771†	63170.3	0.0740	mg/L	0.00018	0.0740	mg/L	0.25%
Ti 337.279†	430943.1	0.5079	mg/L	0.00020	0.5079	mg/L	0.04%
Tl 190.801†	499.9	0.4825	mg/L	0.00020	0.4825	mg/L	0.04%
V 292.402†	110381.8	0.5148	mg/L	0.00019	0.5148	mg/L	0.04%
Zn 213.857†	106021.9	0.7773	mg/L	0.00110	0.7773	mg/L	0.14%

Sequence No.: 92

Autosampler Location: 79

Sample ID: CG30507-SD1 @5

Date Collected: 7/5/2013 7:52:16 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CG30507-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time	
1	B 249.677†	25.8	33.9	0.0201	mg/L	0.0201	mg/L	19:54:08
1	Fe 234.349†	774.4	816.5	0.5511	mg/L	0.5511	mg/L	19:54:08
1	K 766.490†	8701.4	8432.4	4.770	mg/L	4.770	mg/L	19:53:58
1	Li 670.784†	688.2	967.3	0.0310	mg/L	0.0310	mg/L	19:53:58
1	Na 589.592†	101571.3	107498.2	19.67	mg/L	19.67	mg/L	19:53:58
1	Sr 407.771†	5475.0	5749.8	0.0071	mg/L	0.0071	mg/L	19:53:58
1	Y 371.029	2540774.8	2540774.8	0.941	mg/L			19:54:24
1	Ag 328.068†	1753.2	-1.3	0.0018	mg/L	0.0018	mg/L	19:54:27
1	Al 237.313†	329.0	780.2	0.0997	mg/L	0.0997	mg/L	19:54:37
1	As 188.979†	-0.0	6.6	0.0092	mg/L	0.0092	mg/L	19:54:37
1	B 182.528†	2.1	11.8	0.0126	mg/L	0.0126	mg/L	19:54:37
1	Ba 233.527†	1007.7	1168.3	0.0133	mg/L	0.0133	mg/L	19:54:37
1	Be 313.107†	-1373.8	-22.5	0.0004	mg/L	0.0004	mg/L	19:54:27
1	Ca 315.887†	176908.5	189942.6	2.106	mg/L	2.106	mg/L	19:54:27
1	Cd 228.802†	161.7	12.8	0.0014	mg/L	0.0014	mg/L	19:54:37
1	Co 228.616†	-249.6	-23.6	-0.0005	mg/L	-0.0005	mg/L	19:54:37

1	Cr 267.716†	1226.7	737.8	0.0098 mg/L	0.0098 mg/L	19:54:27
1	Cu 324.752†	11228.9	7134.3	0.0428 mg/L	0.0428 mg/L	19:54:27
1	Mg 279.077†	4088.6	4343.1	0.3752 mg/L	0.3752 mg/L	19:54:27
1	Mn 257.610†	24018.6	9461.1	0.0137 mg/L	0.0137 mg/L	19:54:37
1	Mn 294.920†	3140.9	4671.3	0.0137 mg/L	0.0137 mg/L	19:54:27
1	Mo 202.031†	327.2	311.9	0.0155 mg/L	0.0155 mg/L	19:54:37
1	Ni 231.604†	1635.0	1580.1	0.0369 mg/L	0.0369 mg/L	19:54:37
1	P 214.914†	138.7	174.5	0.1557 mg/L	0.1557 mg/L	19:54:37
1	Pb 220.353†	236.0	68.7	0.0047 mg/L	0.0047 mg/L	19:54:37
1	Sb 206.836†	47.7	2.9	0.0055 mg/L	0.0055 mg/L	19:54:37
1	Se 196.026†	22.5	13.0	0.0139 mg/L	0.0139 mg/L	19:54:37
1	Sn 189.927†	19.7	-8.3	-0.0013 mg/L	-0.0013 mg/L	19:54:37
1	Ti 337.279†	1176.1	1870.0	0.0071 mg/L	0.0071 mg/L	19:54:27
1	Tl 190.801†	-12.1	-8.1	-0.0070 mg/L	-0.0070 mg/L	19:54:37
1	V 292.402†	-116.6	224.3	0.0058 mg/L	0.0058 mg/L	19:54:27
1	Zn 213.857†	10240.8	9741.3	0.0740 mg/L	0.0740 mg/L	19:54:37
2	B 249.677†	22.2	30.1	0.0181 mg/L	0.0181 mg/L	19:54:21
2	Fe 234.349†	760.4	803.8	0.5428 mg/L	0.5428 mg/L	19:54:21
2	K 766.490†	8674.3	8428.0	4.767 mg/L	4.767 mg/L	19:54:11
2	Li 670.784†	608.0	883.7	0.0287 mg/L	0.0287 mg/L	19:54:11
2	Na 589.592†	100535.3	106680.7	19.52 mg/L	19.52 mg/L	19:54:11
2	Sr 407.771†	5539.2	5833.6	0.0072 mg/L	0.0072 mg/L	19:54:11
2	Y 371.029	2534044.7	2534044.7	0.938 mg/L		19:54:39
2	Ag 328.068†	1716.2	-35.8	0.0016 mg/L	0.0016 mg/L	19:54:42
2	Al 237.313†	261.2	708.8	0.0918 mg/L	0.0918 mg/L	19:54:52
2	As 188.979†	6.4	13.4	0.0142 mg/L	0.0142 mg/L	19:54:52
2	B 182.528†	2.9	12.6	0.0134 mg/L	0.0134 mg/L	19:54:52
2	Ba 233.527†	956.4	1116.4	0.0129 mg/L	0.0129 mg/L	19:54:52
2	Be 313.107†	-1316.2	35.1	0.0004 mg/L	0.0004 mg/L	19:54:42
2	Ca 315.887†	168890.6	181895.8	2.018 mg/L	2.018 mg/L	19:54:42
2	Cd 228.802†	161.6	13.2	0.0014 mg/L	0.0014 mg/L	19:54:52
2	Co 228.616†	-210.6	17.4	0.0004 mg/L	0.0004 mg/L	19:54:52
2	Cr 267.716†	1166.8	677.5	0.0093 mg/L	0.0093 mg/L	19:54:42
2	Cu 324.752†	10922.9	6839.8	0.0412 mg/L	0.0412 mg/L	19:54:42
2	Mg 279.077†	3886.9	4139.6	0.3588 mg/L	0.3588 mg/L	19:54:42
2	Mn 257.610†	23526.2	9004.0	0.0132 mg/L	0.0132 mg/L	19:54:52
2	Mn 294.920†	2892.2	4415.1	0.0130 mg/L	0.0130 mg/L	19:54:42
2	Mo 202.031†	302.4	286.4	0.0144 mg/L	0.0144 mg/L	19:54:52
2	Ni 231.604†	1542.2	1485.7	0.0348 mg/L	0.0348 mg/L	19:54:52
2	P 214.914†	134.3	170.2	0.1530 mg/L	0.1530 mg/L	19:54:52
2	Pb 220.353†	184.4	14.4	0.0009 mg/L	0.0009 mg/L	19:54:52
2	Sb 206.836†	50.7	6.2	0.0070 mg/L	0.0070 mg/L	19:54:52
2	Se 196.026†	13.7	3.7	0.0075 mg/L	0.0075 mg/L	19:54:52
2	Sn 189.927†	10.6	-18.1	-0.0028 mg/L	-0.0028 mg/L	19:54:52
2	Ti 337.279†	1309.9	2016.1	0.0073 mg/L	0.0073 mg/L	19:54:42
2	Tl 190.801†	-12.2	-8.3	-0.0071 mg/L	-0.0071 mg/L	19:54:52
2	V 292.402†	-246.3	85.8	0.0051 mg/L	0.0051 mg/L	19:54:42
2	Zn 213.857†	9648.7	9139.1	0.0696 mg/L	0.0696 mg/L	19:54:52

Mean Data: CG30507-SD1 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2537409.8	0.939	mg/L	0.0018			0.19%
Ag 328.068†	-18.6	0.0017	mg/L	0.00014	0.0017 mg/L	0.00014	8.04%
Al 237.313†	744.5	0.0958	mg/L	0.00558	0.0958 mg/L	0.00558	5.83%
As 188.979†	10.0	0.0117	mg/L	0.00351	0.0117 mg/L	0.00351	30.08%
B 249.677†	32.0	0.0191	mg/L	0.00147	0.0191 mg/L	0.00147	7.72%
B 182.528†	12.2	0.0130	mg/L	0.00062	0.0130 mg/L	0.00062	4.79%
Ba 233.527†	1142.4	0.0131	mg/L	0.00032	0.0131 mg/L	0.00032	2.45%
Be 313.107†	6.3	0.0004	mg/L	0.00002	0.0004 mg/L	0.00002	4.65%
Ca 315.887†	185919.2	2.062	mg/L	0.0620	2.062 mg/L	0.0620	3.01%
Cd 228.802†	13.0	0.0014	mg/L	0.00001	0.0014 mg/L	0.00001	0.56%
Co 228.616†	-3.1	-0.0001	mg/L	0.00058	-0.0001 mg/L	0.00058	>999.9%
Cr 267.716†	707.7	0.0096	mg/L	0.00037	0.0096 mg/L	0.00037	3.89%
Cu 324.752†	6987.1	0.0420	mg/L	0.00112	0.0420 mg/L	0.00112	2.67%
Fe 234.349†	810.1	0.5470	mg/L	0.00586	0.5470 mg/L	0.00586	1.07%
K 766.490†	8430.2	4.769	mg/L	0.0017	4.769 mg/L	0.0017	0.04%
Li 670.784†	925.5	0.0299	mg/L	0.00162	0.0299 mg/L	0.00162	5.43%
Mg 279.077†	4241.3	0.3670	mg/L	0.01160	0.3670 mg/L	0.01160	3.16%
Mn 257.610†	9232.6	0.0134	mg/L	0.00041	0.0134 mg/L	0.00041	3.08%
Mn 294.920†	4543.2	0.0134	mg/L	0.00047	0.0134 mg/L	0.00047	3.54%
Mo 202.031†	299.2	0.0149	mg/L	0.00076	0.0149 mg/L	0.00076	5.08%

2	Cu	324.752†	121681.0	129030.9	0.6988 mg/L	0.6988 mg/L	19:58:39
2	Mg	279.077†	71440.6	78572.2	6.358 mg/L	6.358 mg/L	19:58:39
2	Mn	257.610†	409565.3	434397.7	0.5595 mg/L	0.5595 mg/L	19:58:39
2	Mn	294.920†	192101.7	212620.0	0.5560 mg/L	0.5560 mg/L	19:58:39
2	Mo	202.031†	11771.9	12911.7	0.5465 mg/L	0.5465 mg/L	19:58:50
2	Ni	231.604†	26544.9	29038.0	0.6498 mg/L	0.6498 mg/L	19:58:39
2	P	214.914†	7917.9	8735.7	5.507 mg/L	5.507 mg/L	19:58:50
2	Pb	220.353†	6881.8	7387.1	0.5217 mg/L	0.5217 mg/L	19:58:50
2	Sb	206.836†	1044.4	1100.8	0.5183 mg/L	0.5183 mg/L	19:58:50
2	Se	196.026†	1334.3	1456.7	1.002 mg/L	1.002 mg/L	19:58:50
2	Sn	189.927†	3108.2	3389.3	0.5084 mg/L	0.5084 mg/L	19:58:50
2	Ti	337.279†	394727.3	434770.1	0.5124 mg/L	0.5124 mg/L	19:58:39
2	Tl	190.801†	465.2	516.5	0.4984 mg/L	0.4984 mg/L	19:58:50
2	V	292.402†	103220.1	113877.4	0.5308 mg/L	0.5308 mg/L	19:58:39
2	Zn	213.857†	98886.9	107617.8	0.7889 mg/L	0.7889 mg/L	19:58:39

Mean Data: CG30507-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2466429.2	0.913	mg/L	0.0056				0.61%
Ag 328.068†	46903.8	0.2619	mg/L	0.00765	0.2619	mg/L	0.00765	2.92%
Al 237.313†	26659.3	2.966	mg/L	0.0841	2.966	mg/L	0.0841	2.84%
As 188.979†	704.1	0.5161	mg/L	0.02325	0.5161	mg/L	0.02325	4.51%
B 249.677†	1081.8	0.6041	mg/L	0.00570	0.6041	mg/L	0.00570	0.94%
B 182.528†	532.6	0.5716	mg/L	0.01835	0.5716	mg/L	0.01835	3.21%
Ba 233.527†	64678.3	0.5666	mg/L	0.01673	0.5666	mg/L	0.01673	2.95%
Be 313.107†	121574.5	0.0538	mg/L	0.00161	0.0538	mg/L	0.00161	2.99%
Ca 315.887†	1212498.7	13.25	mg/L	0.175	13.25	mg/L	0.175	1.32%
Cd 228.802†	8311.1	0.2605	mg/L	0.00973	0.2605	mg/L	0.00973	3.74%
Co 228.616†	25707.6	0.5135	mg/L	0.02006	0.5135	mg/L	0.02006	3.91%
Cr 267.716†	63186.3	0.5546	mg/L	0.01784	0.5546	mg/L	0.01784	3.22%
Cu 324.752†	131310.9	0.7110	mg/L	0.01735	0.7110	mg/L	0.01735	2.44%
Fe 234.349†	7028.5	4.666	mg/L	0.0228	4.666	mg/L	0.0228	0.49%
K 766.490†	83114.2	45.47	mg/L	0.110	45.47	mg/L	0.110	0.24%
Li 670.784†	24843.6	0.6873	mg/L	0.00319	0.6873	mg/L	0.00319	0.46%
Mg 279.077†	80113.6	6.482	mg/L	0.1757	6.482	mg/L	0.1757	2.71%
Mn 257.610†	443553.7	0.5713	mg/L	0.01666	0.5713	mg/L	0.01666	2.92%
Mn 294.920†	217066.3	0.5676	mg/L	0.01640	0.5676	mg/L	0.01640	2.89%
Mo 202.031†	13236.0	0.5602	mg/L	0.01940	0.5602	mg/L	0.01940	3.46%
Na 589.592†	536943.5	97.81	mg/L	0.361	97.81	mg/L	0.361	0.37%
Ni 231.604†	29609.5	0.6625	mg/L	0.01805	0.6625	mg/L	0.01805	2.72%
P 214.914†	8975.8	5.657	mg/L	0.2123	5.657	mg/L	0.2123	3.75%
Pb 220.353†	7568.5	0.5345	mg/L	0.01814	0.5345	mg/L	0.01814	3.39%
Sb 206.836†	1132.4	0.5331	mg/L	0.02089	0.5331	mg/L	0.02089	3.92%
Se 196.026†	1509.0	1.038	mg/L	0.0507	1.038	mg/L	0.0507	4.88%
Sn 189.927†	3495.3	0.5241	mg/L	0.02229	0.5241	mg/L	0.02229	4.25%
Sr 407.771†	68241.6	0.0799	mg/L	0.00011	0.0799	mg/L	0.00011	0.14%
Ti 337.279†	445374.2	0.5247	mg/L	0.01750	0.5247	mg/L	0.01750	3.34%
Tl 190.801†	528.1	0.5096	mg/L	0.01587	0.5096	mg/L	0.01587	3.12%
V 292.402†	116394.6	0.5425	mg/L	0.01649	0.5425	mg/L	0.01649	3.04%
Zn 213.857†	109208.5	0.8005	mg/L	0.01641	0.8005	mg/L	0.01641	2.05%

Sequence No.: 94

Sample ID: 1307078-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 81

Date Collected: 7/5/2013 8:00:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307078-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	74.9	87.2	0.0498	mg/L	0.0498	mg/L	20:02:18
1	Fe 234.349†	4752.7	5114.9	3.406	mg/L	3.406	mg/L	20:02:18
1	K 766.490†	2906.2	2313.9	1.435	mg/L	1.435	mg/L	20:02:08
1	Li 670.784†	-322.8	-112.2	0.0014	mg/L	0.0014	mg/L	20:02:08
1	Na 589.592†	167975.5	180533.5	32.96	mg/L	32.96	mg/L	20:02:08
1	Sr 407.771†	27881.6	29975.1	0.0353	mg/L	0.0353	mg/L	20:02:08
1	Y 371.029	2506489.9	2506489.9	0.928	mg/L			20:02:35
1	Ag 328.068†	1642.7	-94.9	0.0013	mg/L	0.0013	mg/L	20:02:37
1	Al 237.313†	844.1	1340.0	0.1651	mg/L	0.1651	mg/L	20:02:37

1	As	188.979†	-6.1	0.0	0.0044	mg/L	0.0044	mg/L	20:02:47
1	B	182.528†	0.5	10.1	0.0107	mg/L	0.0107	mg/L	20:02:47
1	Ba	233.527†	789.2	947.5	0.0114	mg/L	0.0114	mg/L	20:02:47
1	Be	313.107†	-1522.3	-202.4	0.0004	mg/L	0.0004	mg/L	20:02:37
1	Ca	315.887†	563957.7	609605.8	6.679	mg/L	6.679	mg/L	20:02:35
1	Cd	228.802†	160.1	13.5	0.0014	mg/L	0.0014	mg/L	20:02:47
1	Co	228.616†	-67.4	169.2	0.0033	mg/L	0.0033	mg/L	20:02:47
1	Cr	267.716†	97080.8	104049.7	0.9104	mg/L	0.9104	mg/L	20:02:37
1	Cu	324.752†	178936.6	188022.2	1.016	mg/L	1.016	mg/L	20:02:37
1	Mg	279.077†	16392.5	17661.4	1.449	mg/L	1.449	mg/L	20:02:37
1	Mn	257.610†	87767.0	78506.7	0.1019	mg/L	0.1019	mg/L	20:02:37
1	Mn	294.920†	34448.3	38454.4	0.1018	mg/L	0.1018	mg/L	20:02:37
1	Mo	202.031†	879.1	911.4	0.0350	mg/L	0.0350	mg/L	20:02:47
1	Ni	231.604†	13451.4	14337.4	0.3213	mg/L	0.3213	mg/L	20:02:37
1	P	214.914†	221384.7	238595.0	149.4	mg/L	149.4	mg/L	20:02:37
1	Pb	220.353†	171.1	2.2	-0.0004	mg/L	-0.0004	mg/L	20:02:47
1	Sb	206.836†	53.5	9.8	0.0005	mg/L	0.0005	mg/L	20:02:47
1	Se	196.026†	12.3	2.4	0.0060	mg/L	0.0060	mg/L	20:02:47
1	Sn	189.927†	-40.8	-73.3	-0.0081	mg/L	-0.0081	mg/L	20:02:47
1	Ti	337.279†	29362.6	32261.4	0.0426	mg/L	0.0426	mg/L	20:02:37
1	Tl	190.801†	-3.1	1.5	0.0007	mg/L	0.0007	mg/L	20:02:47
1	V	292.402†	87.2	442.2	0.0108	mg/L	0.0108	mg/L	20:02:37
1	Zn	213.857†	6746.3	6124.5	0.0441	mg/L	0.0441	mg/L	20:02:47
2	B	249.677†	86.9	99.5	0.0567	mg/L	0.0567	mg/L	20:02:31
2	Fe	234.349†	4759.6	5084.6	3.386	mg/L	3.386	mg/L	20:02:31
2	K	766.490†	2889.7	2273.3	1.413	mg/L	1.413	mg/L	20:02:21
2	Li	670.784†	-331.2	-118.7	0.0012	mg/L	0.0012	mg/L	20:02:21
2	Na	589.592†	167270.3	178450.9	32.58	mg/L	32.58	mg/L	20:02:21
2	Sr	407.771†	27715.3	29576.7	0.0349	mg/L	0.0349	mg/L	20:02:21
2	Y	371.029	2525017.5	2525017.5	0.935	mg/L			20:02:50
2	Ag	328.068†	1595.5	-158.4	0.0010	mg/L	0.0010	mg/L	20:02:52
2	Al	237.313†	761.7	1245.2	0.1546	mg/L	0.1546	mg/L	20:02:52
2	As	188.979†	-11.1	-5.3	0.0005	mg/L	0.0005	mg/L	20:03:02
2	B	182.528†	-4.6	4.7	0.0049	mg/L	0.0049	mg/L	20:03:02
2	Ba	233.527†	776.7	927.9	0.0112	mg/L	0.0112	mg/L	20:03:02
2	Be	313.107†	-1508.7	-175.9	0.0004	mg/L	0.0004	mg/L	20:02:52
2	Ca	315.887†	564611.4	605845.8	6.638	mg/L	6.638	mg/L	20:02:50
2	Cd	228.802†	171.3	24.2	0.0017	mg/L	0.0017	mg/L	20:03:02
2	Co	228.616†	-77.0	159.5	0.0031	mg/L	0.0031	mg/L	20:03:02
2	Cr	267.716†	97318.4	103536.2	0.9059	mg/L	0.9059	mg/L	20:02:52
2	Cu	324.752†	179126.3	186810.3	1.009	mg/L	1.009	mg/L	20:02:52
2	Mg	279.077†	16592.7	17745.9	1.455	mg/L	1.455	mg/L	20:02:52
2	Mn	257.610†	87868.4	77921.1	0.1012	mg/L	0.1012	mg/L	20:02:52
2	Mn	294.920†	34559.7	38301.1	0.1014	mg/L	0.1014	mg/L	20:02:52
2	Mo	202.031†	871.6	896.5	0.0344	mg/L	0.0344	mg/L	20:03:02
2	Ni	231.604†	13440.9	14219.8	0.3187	mg/L	0.3187	mg/L	20:02:52
2	P	214.914†	222087.5	237596.2	148.8	mg/L	148.8	mg/L	20:02:52
2	Pb	220.353†	135.6	-37.1	-0.0032	mg/L	-0.0032	mg/L	20:03:02
2	Sb	206.836†	48.9	4.4	-0.0019	mg/L	-0.0019	mg/L	20:03:02
2	Se	196.026†	16.4	6.6	0.0089	mg/L	0.0089	mg/L	20:03:02
2	Sn	189.927†	-44.2	-76.5	-0.0086	mg/L	-0.0086	mg/L	20:03:02
2	Ti	337.279†	29252.0	31910.9	0.0421	mg/L	0.0421	mg/L	20:02:52
2	Tl	190.801†	-1.9	2.8	0.0020	mg/L	0.0020	mg/L	20:03:02
2	V	292.402†	-20.2	326.6	0.0103	mg/L	0.0103	mg/L	20:02:52
2	Zn	213.857†	6741.0	6065.5	0.0436	mg/L	0.0436	mg/L	20:03:02

Mean Data: 1307078-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2515753.7	0.931 mg/L	0.0049			0.52%
Ag 328.068†	-126.7	0.0012 mg/L	0.00025	0.0012 mg/L	0.00025	21.51%
Al 237.313†	1292.6	0.1599 mg/L	0.00743	0.1599 mg/L	0.00743	4.65%
As 188.979†	-2.6	0.0025 mg/L	0.00272	0.0025 mg/L	0.00272	110.27%
B 249.677†	93.3	0.0533 mg/L	0.00485	0.0533 mg/L	0.00485	9.10%
B 182.528†	7.4	0.0078 mg/L	0.00410	0.0078 mg/L	0.00410	52.59%
Ba 233.527†	937.7	0.0113 mg/L	0.00012	0.0113 mg/L	0.00012	1.07%
Be 313.107†	-189.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.95%
Ca 315.887†	607725.8	6.659 mg/L	0.0290	6.659 mg/L	0.0290	0.44%
Cd 228.802†	18.9	0.0015 mg/L	0.00024	0.0015 mg/L	0.00024	15.33%
Co 228.616†	164.3	0.0032 mg/L	0.00014	0.0032 mg/L	0.00014	4.23%
Cr 267.716†	103793.0	0.9082 mg/L	0.00317	0.9082 mg/L	0.00317	0.35%
Cu 324.752†	187416.3	1.013 mg/L	0.0046	1.013 mg/L	0.0046	0.46%

Fe 234.349†	5099.7	3.396 mg/L	0.0142	3.396 mg/L	0.0142	0.42%
K 766.490†	2293.6	1.424 mg/L	0.0157	1.424 mg/L	0.0157	1.10%
Li 670.784†	-115.5	0.0013 mg/L	0.00013	0.0013 mg/L	0.00013	9.91%
Mg 279.077†	17703.7	1.452 mg/L	0.0048	1.452 mg/L	0.0048	0.33%
Mn 257.610†	78213.9	0.1015 mg/L	0.00053	0.1015 mg/L	0.00053	0.52%
Mn 294.920†	38377.7	0.1016 mg/L	0.00028	0.1016 mg/L	0.00028	0.28%
Mo 202.031†	903.9	0.0347 mg/L	0.00042	0.0347 mg/L	0.00042	1.21%
Na 589.592†	179492.2	32.77 mg/L	0.268	32.77 mg/L	0.268	0.82%
Ni 231.604†	14278.6	0.3200 mg/L	0.00185	0.3200 mg/L	0.00185	0.58%
P 214.914†	238095.6	149.1 mg/L	0.44	149.1 mg/L	0.44	0.30%
Pb 220.353†	-17.4	-0.0018 mg/L	0.00195	-0.0018 mg/L	0.00195	107.54%
Sb 206.836†	7.1	-0.0007 mg/L	0.00173	-0.0007 mg/L	0.00173	245.99%
Se 196.026†	4.5	0.0074 mg/L	0.00203	0.0074 mg/L	0.00203	27.37%
Sn 189.927†	-74.9	-0.0084 mg/L	0.00036	-0.0084 mg/L	0.00036	4.27%
Sr 407.771†	29775.9	0.0351 mg/L	0.00033	0.0351 mg/L	0.00033	0.94%
Ti 337.279†	32086.2	0.0423 mg/L	0.00029	0.0423 mg/L	0.00029	0.68%
Tl 190.801†	2.1	0.0013 mg/L	0.00094	0.0013 mg/L	0.00094	70.10%
V 292.402†	384.4	0.0105 mg/L	0.00039	0.0105 mg/L	0.00039	3.70%
Zn 213.857†	6095.0	0.0439 mg/L	0.00029	0.0439 mg/L	0.00029	0.66%

Sequence No.: 95
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 8:04:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	817.3	874.5	0.4887 mg/L	0.4887 mg/L	20:06:30
1	Fe 234.349†	3408.4	3613.3	2.405 mg/L	2.405 mg/L	20:06:30
1	K 766.490†	43518.6	45403.6	24.92 mg/L	24.92 mg/L	20:06:20
1	Li 670.784†	16737.9	18013.1	0.4996 mg/L	0.4996 mg/L	20:06:20
1	Na 589.592†	129647.9	137220.3	25.08 mg/L	25.08 mg/L	20:06:20
1	Sr 407.771†	39060.9	41416.4	0.0487 mg/L	0.0487 mg/L	20:06:20
1	Y 371.029	2543088.7	2543088.7	0.942 mg/L		20:06:46
1	Ag 328.068†	43717.7	44567.7	0.2489 mg/L	0.2489 mg/L	20:06:49
1	Al 237.313†	19766.8	21424.9	2.386 mg/L	2.386 mg/L	20:06:49
1	As 188.979†	620.9	666.1	0.4885 mg/L	0.4885 mg/L	20:06:59
1	B 182.528†	418.2	453.7	0.4869 mg/L	0.4869 mg/L	20:06:59
1	Ba 233.527†	51537.8	54835.7	0.4809 mg/L	0.4809 mg/L	20:06:49
1	Be 313.107†	101528.1	109271.9	0.0484 mg/L	0.0484 mg/L	20:06:49
1	Ca 315.887†	406643.4	433774.9	4.765 mg/L	4.765 mg/L	20:06:46
1	Cd 228.802†	7533.8	7842.7	0.2459 mg/L	0.2459 mg/L	20:06:59
1	Co 228.616†	22183.5	23803.1	0.4755 mg/L	0.4755 mg/L	20:06:49
1	Cr 267.716†	52405.2	55093.8	0.4840 mg/L	0.4840 mg/L	20:06:49
1	Cu 324.752†	88674.2	89378.7	0.4855 mg/L	0.4855 mg/L	20:06:49
1	Mg 279.077†	55860.7	59326.7	4.807 mg/L	4.807 mg/L	20:06:49
1	Mn 257.610†	369984.5	376891.1	0.4860 mg/L	0.4860 mg/L	20:06:49
1	Mn 294.920†	172958.4	185032.8	0.4841 mg/L	0.4841 mg/L	20:06:49
1	Mo 202.031†	10831.2	11468.0	0.4867 mg/L	0.4867 mg/L	20:06:59
1	Ni 231.604†	20328.3	21432.8	0.4801 mg/L	0.4801 mg/L	20:06:49
1	P 214.914†	7184.1	7657.3	4.834 mg/L	4.834 mg/L	20:06:59
1	Pb 220.353†	6680.7	6913.5	0.4883 mg/L	0.4883 mg/L	20:06:59
1	Sb 206.836†	1021.8	1037.4	0.4892 mg/L	0.4892 mg/L	20:06:59
1	Se 196.026†	1335.6	1407.6	0.9693 mg/L	0.9693 mg/L	20:06:59
1	Sn 189.927†	3170.2	3337.8	0.4956 mg/L	0.4956 mg/L	20:06:59
1	Ti 337.279†	387524.8	412213.1	0.4860 mg/L	0.4860 mg/L	20:06:49
1	Tl 190.801†	457.1	490.3	0.4743 mg/L	0.4743 mg/L	20:06:59
1	V 292.402†	99469.7	105995.9	0.4941 mg/L	0.4941 mg/L	20:06:49
1	Zn 213.857†	62472.6	65207.2	0.4784 mg/L	0.4784 mg/L	20:06:49
2	B 249.677†	815.0	869.4	0.4858 mg/L	0.4858 mg/L	20:06:42
2	Fe 234.349†	3426.9	3621.5	2.411 mg/L	2.411 mg/L	20:06:42
2	K 766.490†	43104.6	44820.3	24.60 mg/L	24.60 mg/L	20:06:32
2	Li 670.784†	16509.1	17715.1	0.4914 mg/L	0.4914 mg/L	20:06:32
2	Na 589.592†	128418.3	135486.7	24.76 mg/L	24.76 mg/L	20:06:32
2	Sr 407.771†	38604.4	40802.9	0.0479 mg/L	0.0479 mg/L	20:06:32
2	Y 371.029	2551088.7	2551088.7	0.944 mg/L		20:07:01
2	Ag 328.068†	43890.4	44605.0	0.2491 mg/L	0.2491 mg/L	20:07:03
2	Al 237.313†	20049.5	21658.4	2.412 mg/L	2.412 mg/L	20:07:03
2	As 188.979†	617.7	660.6	0.4845 mg/L	0.4845 mg/L	20:07:14

2	B	182.528†	423.5	457.9	0.4914 mg/L	0.4914 mg/L	20:07:14
2	Ba	233.527†	52089.9	55248.6	0.4845 mg/L	0.4845 mg/L	20:07:03
2	Be	313.107†	102467.7	109928.5	0.0487 mg/L	0.0487 mg/L	20:07:03
2	Ca	315.887†	408554.7	434444.1	4.772 mg/L	4.772 mg/L	20:07:01
2	Cd	228.802†	7575.0	7861.2	0.2465 mg/L	0.2465 mg/L	20:07:14
2	Co	228.616†	22501.1	24065.5	0.4807 mg/L	0.4807 mg/L	20:07:03
2	Cr	267.716†	52849.3	55389.4	0.4866 mg/L	0.4866 mg/L	20:07:03
2	Cu	324.752†	89538.5	89998.5	0.4888 mg/L	0.4888 mg/L	20:07:03
2	Mg	279.077†	56473.8	59789.7	4.844 mg/L	4.844 mg/L	20:07:03
2	Mn	257.610†	373435.2	379312.3	0.4891 mg/L	0.4891 mg/L	20:07:03
2	Mn	294.920†	174766.3	186370.9	0.4875 mg/L	0.4875 mg/L	20:07:03
2	Mo	202.031†	10900.6	11505.4	0.4883 mg/L	0.4883 mg/L	20:07:14
2	Ni	231.604†	20542.2	21591.6	0.4837 mg/L	0.4837 mg/L	20:07:03
2	P	214.914†	7245.6	7698.6	4.860 mg/L	4.860 mg/L	20:07:14
2	Pb	220.353†	6729.3	6942.7	0.4904 mg/L	0.4904 mg/L	20:07:14
2	Sb	206.836†	1027.9	1040.4	0.4906 mg/L	0.4906 mg/L	20:07:14
2	Se	196.026†	1362.8	1431.9	0.9860 mg/L	0.9860 mg/L	20:07:14
2	Sn	189.927†	3176.0	3333.3	0.4949 mg/L	0.4949 mg/L	20:07:14
2	Ti	337.279†	391367.9	414991.3	0.4893 mg/L	0.4893 mg/L	20:07:03
2	Tl	190.801†	469.5	501.9	0.4856 mg/L	0.4856 mg/L	20:07:14
2	V	292.402†	100402.6	106652.3	0.4971 mg/L	0.4971 mg/L	20:07:03
2	Zn	213.857†	63129.3	65694.4	0.4820 mg/L	0.4820 mg/L	20:07:03

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2547088.7	0.943 mg/L	0.0021			0.22%
Ag 328.068†	44586.4	0.2490 mg/L	0.00015	0.2490 mg/L	0.00015	0.06%
	QC value within limits for Ag 328.068	Recovery = 99.60%				
Al 237.313†	21541.6	2.399 mg/L	0.0183	2.399 mg/L	0.0183	0.76%
	QC value within limits for Al 237.313	Recovery = 95.97%				
As 188.979†	663.4	0.4865 mg/L	0.00282	0.4865 mg/L	0.00282	0.58%
	QC value within limits for As 188.979	Recovery = 97.30%				
B 249.677†	872.0	0.4872 mg/L	0.00202	0.4872 mg/L	0.00202	0.41%
	QC value within limits for B 249.677	Recovery = 97.45%				
B 182.528†	455.8	0.4892 mg/L	0.00322	0.4892 mg/L	0.00322	0.66%
	QC value within limits for B 182.528	Recovery = 97.83%				
Ba 233.527†	55042.2	0.4827 mg/L	0.00254	0.4827 mg/L	0.00254	0.53%
	QC value within limits for Ba 233.527	Recovery = 96.53%				
Be 313.107†	109600.2	0.0485 mg/L	0.00020	0.0485 mg/L	0.00020	0.42%
	QC value within limits for Be 313.107	Recovery = 97.03%				
Ca 315.887†	434109.5	4.769 mg/L	0.0052	4.769 mg/L	0.0052	0.11%
	QC value within limits for Ca 315.887	Recovery = 95.37%				
Cd 228.802†	7851.9	0.2462 mg/L	0.00041	0.2462 mg/L	0.00041	0.17%
	QC value within limits for Cd 228.802	Recovery = 98.47%				
Co 228.616†	23934.3	0.4781 mg/L	0.00371	0.4781 mg/L	0.00371	0.78%
	QC value within limits for Co 228.616	Recovery = 95.62%				
Cr 267.716†	55241.6	0.4853 mg/L	0.00182	0.4853 mg/L	0.00182	0.38%
	QC value within limits for Cr 267.716	Recovery = 97.06%				
Cu 324.752†	89688.6	0.4871 mg/L	0.00236	0.4871 mg/L	0.00236	0.48%
	QC value within limits for Cu 324.752	Recovery = 97.43%				
Fe 234.349†	3617.4	2.408 mg/L	0.0038	2.408 mg/L	0.0038	0.16%
	QC value within limits for Fe 234.349	Recovery = 96.32%				
K 766.490†	45112.0	24.76 mg/L	0.225	24.76 mg/L	0.225	0.91%
	QC value within limits for K 766.490	Recovery = 99.04%				
Li 670.784†	17864.1	0.4955 mg/L	0.00579	0.4955 mg/L	0.00579	1.17%
	QC value within limits for Li 670.784	Recovery = 99.09%				
Mg 279.077†	59558.2	4.825 mg/L	0.0264	4.825 mg/L	0.0264	0.55%
	QC value within limits for Mg 279.077	Recovery = 96.51%				
Mn 257.610†	378101.7	0.4876 mg/L	0.00220	0.4876 mg/L	0.00220	0.45%
	QC value within limits for Mn 257.610	Recovery = 97.52%				
Mn 294.920†	185701.9	0.4858 mg/L	0.00247	0.4858 mg/L	0.00247	0.51%
	QC value within limits for Mn 294.920	Recovery = 97.16%				
Mo 202.031†	11486.7	0.4875 mg/L	0.00111	0.4875 mg/L	0.00111	0.23%
	QC value within limits for Mo 202.031	Recovery = 97.50%				
Na 589.592†	136353.5	24.92 mg/L	0.223	24.92 mg/L	0.223	0.89%
	QC value within limits for Na 589.592	Recovery = 99.69%				
Ni 231.604†	21512.2	0.4819 mg/L	0.00250	0.4819 mg/L	0.00250	0.52%
	QC value within limits for Ni 231.604	Recovery = 96.38%				
P 214.914†	7677.9	4.847 mg/L	0.0182	4.847 mg/L	0.0182	0.38%
	QC value within limits for P 214.914	Recovery = 96.95%				
Pb 220.353†	6928.1	0.4893 mg/L	0.00146	0.4893 mg/L	0.00146	0.30%

QC value within limits for Pb 220.353 Recovery = 97.87%
 Sb 206.836† 1038.9 0.4899 mg/L 0.00100 0.4899 mg/L 0.00100 0.20%
 QC value within limits for Sb 206.836 Recovery = 97.98%
 Se 196.026† 1419.8 0.9777 mg/L 0.01178 0.9777 mg/L 0.01178 1.20%
 QC value within limits for Se 196.026 Recovery = 97.77%
 Sn 189.927† 3335.6 0.4953 mg/L 0.00046 0.4953 mg/L 0.00046 0.09%
 QC value within limits for Sn 189.927 Recovery = 99.05%
 Sr 407.771† 41109.6 0.0483 mg/L 0.00051 0.0483 mg/L 0.00051 1.05%
 QC value within limits for Sr 407.771 Recovery = 96.60%
 Ti 337.279† 413602.2 0.4877 mg/L 0.00229 0.4877 mg/L 0.00229 0.47%
 QC value within limits for Ti 337.279 Recovery = 97.53%
 Tl 190.801† 496.1 0.4799 mg/L 0.00797 0.4799 mg/L 0.00797 1.66%
 QC value within limits for Tl 190.801 Recovery = 95.99%
 V 292.402† 106324.1 0.4956 mg/L 0.00213 0.4956 mg/L 0.00213 0.43%
 QC value within limits for V 292.402 Recovery = 99.12%
 Zn 213.857† 65450.8 0.4802 mg/L 0.00251 0.4802 mg/L 0.00251 0.52%
 QC value within limits for Zn 213.857 Recovery = 96.04%
 All analyte(s) passed QC.

Sequence No.: 96 Autosampler Location: 1
 Sample ID: CCB1 Date Collected: 7/5/2013 8:08:52 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-0.6	5.8	0.0045 mg/L	0.0045 mg/L	0.0045 mg/L	20:10:42
1	Fe 234.349†	19.8	14.4	0.0202 mg/L	0.0202 mg/L	0.0202 mg/L	20:10:42
1	K 766.490†	910.4	159.5	0.2612 mg/L	0.2612 mg/L	0.2612 mg/L	20:10:32
1	Li 670.784†	-312.3	-99.6	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	20:10:32
1	Na 589.592†	389.5	-61.6	0.1020 mg/L	0.1020 mg/L	0.1020 mg/L	20:10:32
1	Sr 407.771†	16.5	-52.9	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	20:10:32
1	Y 371.029	2516131.9	2516131.9	0.932 mg/L	0.932 mg/L	0.932 mg/L	20:10:58
1	Ag 328.068†	1689.9	-51.1	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:11:01
1	Al 237.313†	-259.6	151.8	0.0302 mg/L	0.0302 mg/L	0.0302 mg/L	20:11:01
1	As 188.979†	6.2	13.3	0.0140 mg/L	0.0140 mg/L	0.0140 mg/L	20:11:11
1	B 182.528†	-1.4	8.1	0.0086 mg/L	0.0086 mg/L	0.0086 mg/L	20:11:11
1	Ba 233.527†	-85.7	5.0	0.0032 mg/L	0.0032 mg/L	0.0032 mg/L	20:11:11
1	Be 313.107†	-1311.7	29.9	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	20:11:01
1	Ca 315.887†	-1754.8	-8.2	0.0358 mg/L	0.0358 mg/L	0.0358 mg/L	20:11:01
1	Cd 228.802†	150.8	2.8	0.0011 mg/L	0.0011 mg/L	0.0011 mg/L	20:11:11
1	Co 228.616†	-247.8	-24.3	-0.0005 mg/L	-0.0005 mg/L	-0.0005 mg/L	20:11:11
1	Cr 267.716†	531.3	4.1	0.0034 mg/L	0.0034 mg/L	0.0034 mg/L	20:11:01
1	Cu 324.752†	4109.7	-391.2	0.0023 mg/L	0.0023 mg/L	0.0023 mg/L	20:11:01
1	Mg 279.077†	81.2	83.7	0.0319 mg/L	0.0319 mg/L	0.0319 mg/L	20:11:01
1	Mn 257.610†	15345.0	400.2	0.0022 mg/L	0.0022 mg/L	0.0022 mg/L	20:11:01
1	Mn 294.920†	-1233.4	8.3	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:11:01
1	Mo 202.031†	57.8	26.1	0.0036 mg/L	0.0036 mg/L	0.0036 mg/L	20:11:11
1	Ni 231.604†	143.8	-3.7	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:11:01
1	P 214.914†	15.6	43.9	0.0744 mg/L	0.0744 mg/L	0.0744 mg/L	20:11:11
1	Pb 220.353†	174.4	5.1	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:11:11
1	Sb 206.836†	46.3	1.9	0.0051 mg/L	0.0051 mg/L	0.0051 mg/L	20:11:11
1	Se 196.026†	18.3	8.8	0.0110 mg/L	0.0110 mg/L	0.0110 mg/L	20:11:11
1	Sn 189.927†	28.1	0.8	-0.0013 mg/L	-0.0013 mg/L	-0.0013 mg/L	20:11:11
1	Ti 337.279†	-565.1	13.2	0.0049 mg/L	0.0049 mg/L	0.0049 mg/L	20:11:01
1	Tl 190.801†	-1.8	2.9	0.0040 mg/L	0.0040 mg/L	0.0040 mg/L	20:11:11
1	V 292.402†	-310.5	15.0	0.0047 mg/L	0.0047 mg/L	0.0047 mg/L	20:11:01
1	Zn 213.857†	1094.2	29.2	0.0029 mg/L	0.0029 mg/L	0.0029 mg/L	20:11:11
2	B 249.677†	-7.4	-1.4	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	20:10:55
2	Fe 234.349†	10.9	4.9	0.0138 mg/L	0.0138 mg/L	0.0138 mg/L	20:10:55
2	K 766.490†	890.9	135.9	0.2484 mg/L	0.2484 mg/L	0.2484 mg/L	20:10:45
2	Li 670.784†	-281.0	-65.3	0.0027 mg/L	0.0027 mg/L	0.0027 mg/L	20:10:45
2	Na 589.592†	355.7	-98.9	0.0952 mg/L	0.0952 mg/L	0.0952 mg/L	20:10:45
2	Sr 407.771†	52.3	-14.6	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	20:10:45
2	Y 371.029	2522944.6	2522944.6	0.934 mg/L	0.934 mg/L	0.934 mg/L	20:11:13
2	Ag 328.068†	1729.2	-13.9	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	20:11:15
2	Al 237.313†	-372.1	32.0	0.0169 mg/L	0.0169 mg/L	0.0169 mg/L	20:11:15
2	As 188.979†	-4.5	1.8	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	20:11:26
2	B 182.528†	-7.1	1.9	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	20:11:26

2	Ba	233.527†	-95.7	-5.4	0.0031 mg/L	0.0031 mg/L	20:11:26
2	Be	313.107†	-1368.0	-26.6	0.0004 mg/L	0.0004 mg/L	20:11:15
2	Ca	315.887†	-1716.6	37.8	0.0364 mg/L	0.0364 mg/L	20:11:15
2	Cd	228.802†	166.3	19.0	0.0016 mg/L	0.0016 mg/L	20:11:26
2	Co	228.616†	-259.0	-35.5	-0.0007 mg/L	-0.0007 mg/L	20:11:26
2	Cr	267.716†	573.8	48.1	0.0038 mg/L	0.0038 mg/L	20:11:15
2	Cu	324.752†	4066.0	-449.9	0.0020 mg/L	0.0020 mg/L	20:11:15
2	Mg	279.077†	27.5	26.0	0.0273 mg/L	0.0273 mg/L	20:11:15
2	Mn	257.610†	15201.0	201.5	0.0019 mg/L	0.0019 mg/L	20:11:15
2	Mn	294.920†	-1169.1	80.7	0.0017 mg/L	0.0017 mg/L	20:11:15
2	Mo	202.031†	49.9	17.5	0.0033 mg/L	0.0033 mg/L	20:11:26
2	Ni	231.604†	154.1	7.0	0.0018 mg/L	0.0018 mg/L	20:11:15
2	P	214.914†	8.6	36.3	0.0696 mg/L	0.0696 mg/L	20:11:26
2	Pb	220.353†	173.8	4.0	0.0001 mg/L	0.0001 mg/L	20:11:26
2	Sb	206.836†	48.6	4.2	0.0062 mg/L	0.0062 mg/L	20:11:26
2	Se	196.026†	10.0	-0.2	0.0049 mg/L	0.0049 mg/L	20:11:26
2	Sn	189.927†	18.7	-9.3	-0.0028 mg/L	-0.0028 mg/L	20:11:26
2	Ti	337.279†	-711.9	-142.4	0.0047 mg/L	0.0047 mg/L	20:11:15
2	Tl	190.801†	-10.0	-5.9	-0.0046 mg/L	-0.0046 mg/L	20:11:26
2	V	292.402†	-242.4	88.8	0.0050 mg/L	0.0050 mg/L	20:11:15
2	Zn	213.857†	1068.8	-1.1	0.0027 mg/L	0.0027 mg/L	20:11:26

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2519538.3	0.933 mg/L	0.0018			0.19%
Ag 328.068†	-32.5	0.0016 mg/L	0.00015	0.0016 mg/L	0.00015	9.13%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	91.9	0.0235 mg/L	0.00937	0.0235 mg/L	0.00937	39.83%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	7.5	0.0099 mg/L	0.00592	0.0099 mg/L	0.00592	60.08%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.2	0.0025 mg/L	0.00284	0.0025 mg/L	0.00284	113.36%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	5.0	0.0053 mg/L	0.00469	0.0053 mg/L	0.00469	89.14%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	-0.2	0.0031 mg/L	0.00006	0.0031 mg/L	0.00006	2.04%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	1.7	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.59%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	14.8	0.0361 mg/L	0.00036	0.0361 mg/L	0.00036	0.99%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	10.9	0.0013 mg/L	0.00036	0.0013 mg/L	0.00036	26.52%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-29.9	-0.0006 mg/L	0.00016	-0.0006 mg/L	0.00016	27.00%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	26.1	0.0036 mg/L	0.00027	0.0036 mg/L	0.00027	7.50%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-420.6	0.0021 mg/L	0.00022	0.0021 mg/L	0.00022	10.41%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	9.7	0.0170 mg/L	0.00450	0.0170 mg/L	0.00450	26.41%
QC value within limits for Fe 234.349 Recovery = Not calculated						
K 766.490†	147.7	0.2548 mg/L	0.00907	0.2548 mg/L	0.00907	3.56%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-82.5	0.0022 mg/L	0.00067	0.0022 mg/L	0.00067	30.60%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	54.9	0.0296 mg/L	0.00329	0.0296 mg/L	0.00329	11.11%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	300.8	0.0021 mg/L	0.00018	0.0021 mg/L	0.00018	8.66%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	44.5	0.0016 mg/L	0.00013	0.0016 mg/L	0.00013	8.19%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	21.8	0.0034 mg/L	0.00026	0.0034 mg/L	0.00026	7.48%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	-80.3	0.0986 mg/L	0.00480	0.0986 mg/L	0.00480	4.86%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	1.7	0.0017 mg/L	0.00017	0.0017 mg/L	0.00017	10.06%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	40.1	0.0720 mg/L	0.00336	0.0720 mg/L	0.00336	4.67%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	4.5	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	31.49%
QC value within limits for Pb 220.353 Recovery = Not calculated						

2	Be	313.107†	-1338.3	-42.6	0.0004	mg/L	0.0004	mg/L	20:15:32
2	Ca	315.887†	4908.0	7305.5	0.1156	mg/L	0.1156	mg/L	20:15:32
2	Cd	228.802†	153.3	10.6	0.0013	mg/L	0.0013	mg/L	20:15:42
2	Co	228.616†	-228.3	-10.8	-0.0002	mg/L	-0.0002	mg/L	20:15:42
2	Cr	267.716†	899.5	428.9	0.0071	mg/L	0.0071	mg/L	20:15:42
2	Cu	324.752†	4367.1	28.6	0.0046	mg/L	0.0046	mg/L	20:15:32
2	Mg	279.077†	194.4	211.6	0.0423	mg/L	0.0423	mg/L	20:15:32
2	Mn	257.610†	25156.2	11758.7	0.0168	mg/L	0.0168	mg/L	20:15:42
2	Mn	294.920†	3464.1	5164.7	0.0150	mg/L	0.0150	mg/L	20:15:32
2	Mo	202.031†	68.8	40.2	0.0042	mg/L	0.0042	mg/L	20:15:42
2	Ni	231.604†	227.7	93.9	0.0037	mg/L	0.0037	mg/L	20:15:42
2	P	214.914†	519.0	601.3	0.4234	mg/L	0.4234	mg/L	20:15:42
2	Pb	220.353†	189.3	27.3	0.0018	mg/L	0.0018	mg/L	20:15:42
2	Sb	206.836†	51.0	8.6	0.0082	mg/L	0.0082	mg/L	20:15:42
2	Se	196.026†	15.8	6.5	0.0095	mg/L	0.0095	mg/L	20:15:42
2	Sn	189.927†	39.8	14.8	0.0008	mg/L	0.0008	mg/L	20:15:42
2	Ti	337.279†	-597.5	-41.3	0.0049	mg/L	0.0049	mg/L	20:15:32
2	Tl	190.801†	-8.2	-4.3	-0.0030	mg/L	-0.0030	mg/L	20:15:42
2	V	292.402†	-293.1	24.0	0.0047	mg/L	0.0047	mg/L	20:15:32
2	Zn	213.857†	1426.2	432.5	0.0058	mg/L	0.0058	mg/L	20:15:42

Mean Data: 1307106-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2436834.7	0.902	mg/L	0.0024				0.27%
Ag 328.068†	-14.6	0.0017	mg/L	0.00036	0.0017	mg/L	0.00036	21.13%
Al 237.313†	514.1	0.0703	mg/L	0.00295	0.0703	mg/L	0.00295	4.20%
As 188.979†	8.6	0.0106	mg/L	0.00282	0.0106	mg/L	0.00282	26.57%
B 249.677†	41.9	0.0246	mg/L	0.00088	0.0246	mg/L	0.00088	3.59%
B 182.528†	12.1	0.0129	mg/L	0.00151	0.0129	mg/L	0.00151	11.71%
Ba 233.527†	23.5	0.0033	mg/L	0.00005	0.0033	mg/L	0.00005	1.65%
Be 313.107†	-76.7	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	6.12%
Ca 315.887†	7366.2	0.1162	mg/L	0.00094	0.1162	mg/L	0.00094	0.81%
Cd 228.802†	6.4	0.0012	mg/L	0.00019	0.0012	mg/L	0.00019	15.36%
Co 228.616†	-6.4	-0.0001	mg/L	0.00013	-0.0001	mg/L	0.00013	106.05%
Cr 267.716†	420.3	0.0071	mg/L	0.00011	0.0071	mg/L	0.00011	1.49%
Cu 324.752†	-5.4	0.0044	mg/L	0.00026	0.0044	mg/L	0.00026	5.90%
Fe 234.349†	57.1	0.0485	mg/L	0.00346	0.0485	mg/L	0.00346	7.13%
K 766.490†	3213.5	1.926	mg/L	0.0356	1.926	mg/L	0.0356	1.85%
Li 670.784†	-177.0	-0.0004	mg/L	0.00300	-0.0004	mg/L	0.00300	722.87%
Mg 279.077†	218.8	0.0429	mg/L	0.00082	0.0429	mg/L	0.00082	1.92%
Mn 257.610†	11819.6	0.0169	mg/L	0.00011	0.0169	mg/L	0.00011	0.65%
Mn 294.920†	5195.8	0.0151	mg/L	0.00011	0.0151	mg/L	0.00011	0.76%
Mo 202.031†	52.7	0.0047	mg/L	0.00075	0.0047	mg/L	0.00075	15.92%
Na 589.592†	1356702.8	247.0	mg/L	0.72	247.0	mg/L	0.72	0.29%
Ni 231.604†	98.5	0.0038	mg/L	0.00015	0.0038	mg/L	0.00015	3.84%
P 214.914†	601.0	0.4232	mg/L	0.00031	0.4232	mg/L	0.00031	0.07%
Pb 220.353†	19.9	0.0012	mg/L	0.00074	0.0012	mg/L	0.00074	59.55%
Sb 206.836†	8.2	0.0080	mg/L	0.00026	0.0080	mg/L	0.00026	3.20%
Se 196.026†	8.3	0.0107	mg/L	0.00169	0.0107	mg/L	0.00169	15.77%
Sn 189.927†	5.0	-0.0006	mg/L	0.00203	-0.0006	mg/L	0.00203	341.69%
Sr 407.771†	240.3	0.0006	mg/L	0.00013	0.0006	mg/L	0.00013	19.35%
Ti 337.279†	10.2	0.0049	mg/L	0.00008	0.0049	mg/L	0.00008	1.73%
Tl 190.801†	2.2	0.0033	mg/L	0.00890	0.0033	mg/L	0.00890	270.47%
V 292.402†	114.6	0.0051	mg/L	0.00059	0.0051	mg/L	0.00059	11.54%
Zn 213.857†	437.8	0.0059	mg/L	0.00005	0.0059	mg/L	0.00005	0.93%

Sequence No.: 98

Sample ID: 1307107-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 83

Date Collected: 7/5/2013 8:17:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307107-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	0.3	6.9	0.0051	mg/L	0.0051	mg/L	20:19:12
1	Fe 234.349†	177.1	184.7	0.1324	mg/L	0.1324	mg/L	20:19:12
1	K 766.490†	5855.0	5513.8	3.179	mg/L	3.179	mg/L	20:19:02
1	Li 670.784†	-184.3	36.3	0.0054	mg/L	0.0054	mg/L	20:19:02

1	Na 589.592†	266679.6	287908.2	52.50 mg/L	52.50 mg/L	20:19:02
1	Sr 407.771†	397.9	359.7	0.0008 mg/L	0.0008 mg/L	20:19:02
1	Y 371.029	2497716.3	2497716.3	0.925 mg/L		20:19:28
1	Ag 328.068†	3779.2	2221.6	0.0141 mg/L	0.0141 mg/L	20:19:30
1	Al 237.313†	-48.2	378.3	0.0552 mg/L	0.0552 mg/L	20:19:41
1	As 188.979†	0.4	7.0	0.0095 mg/L	0.0095 mg/L	20:19:41
1	B 182.528†	-12.0	-3.4	-0.0038 mg/L	-0.0038 mg/L	20:19:41
1	Ba 233.527†	-25.1	69.9	0.0037 mg/L	0.0037 mg/L	20:19:41
1	Be 313.107†	-1351.0	-22.9	0.0004 mg/L	0.0004 mg/L	20:19:30
1	Ca 315.887†	65273.5	72462.4	0.8256 mg/L	0.8256 mg/L	20:19:30
1	Cd 228.802†	154.4	7.9	0.0013 mg/L	0.0013 mg/L	20:19:41
1	Co 228.616†	-225.8	-2.4	0.0000 mg/L	0.0000 mg/L	20:19:41
1	Cr 267.716†	551.1	29.7	0.0036 mg/L	0.0036 mg/L	20:19:41
1	Cu 324.752†	18296.8	14983.4	0.0850 mg/L	0.0850 mg/L	20:19:30
1	Mg 279.077†	14982.4	16198.5	1.331 mg/L	1.331 mg/L	20:19:30
1	Mn 257.610†	23934.1	9809.8	0.0143 mg/L	0.0143 mg/L	20:19:41
1	Mn 294.920†	2765.1	4322.5	0.0128 mg/L	0.0128 mg/L	20:19:30
1	Mo 202.031†	52.7	21.1	0.0029 mg/L	0.0029 mg/L	20:19:41
1	Ni 231.604†	524.3	409.0	0.0107 mg/L	0.0107 mg/L	20:19:41
1	P 214.914†	13174.2	14273.7	8.985 mg/L	8.985 mg/L	20:19:30
1	Pb 220.353†	1092.7	999.5	0.0703 mg/L	0.0703 mg/L	20:19:41
1	Sb 206.836†	49.5	5.7	0.0069 mg/L	0.0069 mg/L	20:19:41
1	Se 196.026†	16.3	6.7	0.0096 mg/L	0.0096 mg/L	20:19:41
1	Sn 189.927†	77.1	54.0	0.0071 mg/L	0.0071 mg/L	20:19:41
1	Ti 337.279†	3151.5	4027.8	0.0096 mg/L	0.0096 mg/L	20:19:30
1	Tl 190.801†	-4.2	0.3	0.0014 mg/L	0.0014 mg/L	20:19:41
1	V 292.402†	-139.9	197.0	0.0054 mg/L	0.0054 mg/L	20:19:30
1	Zn 213.857†	12573.6	12451.8	0.0941 mg/L	0.0941 mg/L	20:19:30
2	B 249.677†	-3.8	2.4	0.0026 mg/L	0.0026 mg/L	20:19:24
2	Fe 234.349†	167.2	172.9	0.1244 mg/L	0.1244 mg/L	20:19:24
2	K 766.490†	5687.9	5292.9	3.059 mg/L	3.059 mg/L	20:19:14
2	Li 670.784†	-151.6	72.8	0.0064 mg/L	0.0064 mg/L	20:19:14
2	Na 589.592†	262809.2	281867.8	51.40 mg/L	51.40 mg/L	20:19:14
2	Sr 407.771†	415.4	375.8	0.0008 mg/L	0.0008 mg/L	20:19:14
2	Y 371.029	2514124.8	2514124.8	0.931 mg/L		20:19:43
2	Ag 328.068†	3877.8	2300.9	0.0145 mg/L	0.0145 mg/L	20:19:45
2	Al 237.313†	-57.5	368.6	0.0541 mg/L	0.0541 mg/L	20:19:55
2	As 188.979†	2.5	9.3	0.0112 mg/L	0.0112 mg/L	20:19:55
2	B 182.528†	-3.9	5.4	0.0057 mg/L	0.0057 mg/L	20:19:55
2	Ba 233.527†	-55.9	37.0	0.0035 mg/L	0.0035 mg/L	20:19:55
2	Be 313.107†	-1484.5	-156.9	0.0003 mg/L	0.0003 mg/L	20:19:45
2	Ca 315.887†	66057.5	72844.0	0.8298 mg/L	0.8298 mg/L	20:19:45
2	Cd 228.802†	154.3	6.7	0.0012 mg/L	0.0012 mg/L	20:19:55
2	Co 228.616†	-233.7	-9.3	-0.0002 mg/L	-0.0002 mg/L	20:19:55
2	Cr 267.716†	562.7	38.3	0.0037 mg/L	0.0037 mg/L	20:19:55
2	Cu 324.752†	18565.6	15142.9	0.0859 mg/L	0.0859 mg/L	20:19:45
2	Mg 279.077†	15217.4	16345.2	1.342 mg/L	1.342 mg/L	20:19:45
2	Mn 257.610†	23735.4	9427.4	0.0138 mg/L	0.0138 mg/L	20:19:55
2	Mn 294.920†	2928.9	4479.0	0.0132 mg/L	0.0132 mg/L	20:19:45
2	Mo 202.031†	66.7	35.7	0.0035 mg/L	0.0035 mg/L	20:19:55
2	Ni 231.604†	513.5	393.6	0.0104 mg/L	0.0104 mg/L	20:19:55
2	P 214.914†	13318.9	14336.2	9.024 mg/L	9.024 mg/L	20:19:45
2	Pb 220.353†	1098.1	997.6	0.0701 mg/L	0.0701 mg/L	20:19:55
2	Sb 206.836†	58.0	14.5	0.0110 mg/L	0.0110 mg/L	20:19:55
2	Se 196.026†	9.4	-0.8	0.0044 mg/L	0.0044 mg/L	20:19:55
2	Sn 189.927†	55.1	29.9	0.0035 mg/L	0.0035 mg/L	20:19:55
2	Ti 337.279†	3196.1	4053.5	0.0096 mg/L	0.0096 mg/L	20:19:45
2	Tl 190.801†	-2.2	2.5	0.0035 mg/L	0.0035 mg/L	20:19:55
2	V 292.402†	-82.3	259.9	0.0057 mg/L	0.0057 mg/L	20:19:45
2	Zn 213.857†	12554.9	12342.8	0.0933 mg/L	0.0933 mg/L	20:19:45

Mean Data: 1307107-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2505920.5	0.928 mg/L	0.0043			0.46%
Ag 328.068†	2261.3	0.0143 mg/L	0.00031	0.0143 mg/L	0.00031	2.17%
Al 237.313†	373.4	0.0547 mg/L	0.00076	0.0547 mg/L	0.00076	1.38%
As 188.979†	8.2	0.0103 mg/L	0.00118	0.0103 mg/L	0.00118	11.42%
B 249.677†	4.6	0.0038 mg/L	0.00177	0.0038 mg/L	0.00177	46.16%
B 182.528†	1.0	0.0009 mg/L	0.00669	0.0009 mg/L	0.00669	713.02%
Ba 233.527†	53.4	0.0036 mg/L	0.00020	0.0036 mg/L	0.00020	5.64%
Be 313.107†	-89.9	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	12.24%

Ca	315.887†	72653.2	0.8277 mg/L	0.00294	0.8277 mg/L	0.00294	0.36%
Cd	228.802†	7.3	0.0012 mg/L	0.00003	0.0012 mg/L	0.00003	2.16%
Co	228.616†	-5.9	-0.0001 mg/L	0.00010	-0.0001 mg/L	0.00010	82.11%
Cr	267.716†	34.0	0.0037 mg/L	0.00005	0.0037 mg/L	0.00005	1.45%
Cu	324.752†	15063.1	0.0854 mg/L	0.00061	0.0854 mg/L	0.00061	0.71%
Fe	234.349†	178.8	0.1284 mg/L	0.00559	0.1284 mg/L	0.00559	4.35%
K	766.490†	5403.3	3.119 mg/L	0.0851	3.119 mg/L	0.0851	2.73%
Li	670.784†	54.5	0.0059 mg/L	0.00071	0.0059 mg/L	0.00071	11.91%
Mg	279.077†	16271.9	1.336 mg/L	0.0084	1.336 mg/L	0.0084	0.63%
Mn	257.610†	9618.6	0.0140 mg/L	0.00035	0.0140 mg/L	0.00035	2.47%
Mn	294.920†	4400.7	0.0130 mg/L	0.00029	0.0130 mg/L	0.00029	2.22%
Mo	202.031†	28.4	0.0032 mg/L	0.00044	0.0032 mg/L	0.00044	13.52%
Na	589.592†	284888.0	51.95 mg/L	0.777	51.95 mg/L	0.777	1.50%
Ni	231.604†	401.3	0.0106 mg/L	0.00024	0.0106 mg/L	0.00024	2.28%
P	214.914†	14305.0	9.004 mg/L	0.0277	9.004 mg/L	0.0277	0.31%
Pb	220.353†	998.6	0.0702 mg/L	0.00009	0.0702 mg/L	0.00009	0.13%
Sb	206.836†	10.1	0.0089 mg/L	0.00292	0.0089 mg/L	0.00292	32.70%
Se	196.026†	2.9	0.0070 mg/L	0.00364	0.0070 mg/L	0.00364	51.86%
Sn	189.927†	41.9	0.0053 mg/L	0.00253	0.0053 mg/L	0.00253	47.59%
Sr	407.771†	367.7	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.66%
Ti	337.279†	4040.7	0.0096 mg/L	0.00002	0.0096 mg/L	0.00002	0.22%
Tl	190.801†	1.4	0.0024 mg/L	0.00152	0.0024 mg/L	0.00152	62.44%
V	292.402†	228.5	0.0056 mg/L	0.00021	0.0056 mg/L	0.00021	3.75%
Zn	213.857†	12397.3	0.0937 mg/L	0.00057	0.0937 mg/L	0.00057	0.60%

Sequence No.: 99
Sample ID: CF30507-BLK2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 7/5/2013 8:21:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30507-BLK2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	0.2	6.7	0.0050	mg/L	0.0050	mg/L	20:23:25
1	Fe 234.349†	39.3	35.0	0.0339	mg/L	0.0339	mg/L	20:23:25
1	K 766.490†	970.7	214.6	0.2913	mg/L	0.2913	mg/L	20:23:15
1	Li 670.784†	-317.8	-102.5	0.0016	mg/L	0.0016	mg/L	20:23:15
1	Na 589.592†	1331.6	936.6	0.2836	mg/L	0.2836	mg/L	20:23:15
1	Sr 407.771†	51.9	-15.3	0.0003	mg/L	0.0003	mg/L	20:23:15
1	Y 371.029	2539508.4	2539508.4	0.940	mg/L			20:23:41
1	Ag 328.068†	1695.1	-62.3	0.0014	mg/L	0.0014	mg/L	20:23:44
1	Al 237.313†	-293.0	118.8	0.0265	mg/L	0.0265	mg/L	20:23:44
1	As 188.979†	-4.7	1.7	0.0056	mg/L	0.0056	mg/L	20:23:54
1	B 182.528†	-2.3	7.2	0.0076	mg/L	0.0076	mg/L	20:23:54
1	Ba 233.527†	-56.5	37.0	0.0035	mg/L	0.0035	mg/L	20:23:54
1	Be 313.107†	-1292.0	63.9	0.0004	mg/L	0.0004	mg/L	20:23:44
1	Ca 315.887†	-404.9	1444.9	0.0517	mg/L	0.0517	mg/L	20:23:44
1	Cd 228.802†	154.0	4.7	0.0012	mg/L	0.0012	mg/L	20:23:54
1	Co 228.616†	-235.9	-9.1	-0.0002	mg/L	-0.0002	mg/L	20:23:54
1	Cr 267.716†	485.5	-49.9	0.0030	mg/L	0.0030	mg/L	20:23:44
1	Cu 324.752†	4145.7	-393.5	0.0023	mg/L	0.0023	mg/L	20:23:44
1	Mg 279.077†	86.3	88.3	0.0323	mg/L	0.0323	mg/L	20:23:44
1	Mn 257.610†	23378.9	8793.4	0.0130	mg/L	0.0130	mg/L	20:23:44
1	Mn 294.920†	2860.1	4374.3	0.0129	mg/L	0.0129	mg/L	20:23:44
1	Mo 202.031†	81.4	50.6	0.0047	mg/L	0.0047	mg/L	20:23:54
1	Ni 231.604†	161.7	14.0	0.0019	mg/L	0.0019	mg/L	20:23:44
1	P 214.914†	949.5	1037.0	0.6963	mg/L	0.6963	mg/L	20:23:54
1	Pb 220.353†	148.6	-24.0	-0.0018	mg/L	-0.0018	mg/L	20:23:54
1	Sb 206.836†	42.5	-2.6	0.0030	mg/L	0.0030	mg/L	20:23:54
1	Se 196.026†	21.9	12.3	0.0135	mg/L	0.0135	mg/L	20:23:54
1	Sn 189.927†	36.8	9.8	0.0001	mg/L	0.0001	mg/L	20:23:54
1	Ti 337.279†	-370.3	226.0	0.0052	mg/L	0.0052	mg/L	20:23:44
1	Tl 190.801†	-9.8	-5.6	-0.0043	mg/L	-0.0043	mg/L	20:23:54
1	V 292.402†	-348.8	-22.7	0.0045	mg/L	0.0045	mg/L	20:23:44
1	Zn 213.857†	1288.7	225.3	0.0043	mg/L	0.0043	mg/L	20:23:54
2	B 249.677†	-4.3	1.9	0.0024	mg/L	0.0024	mg/L	20:23:38
2	Fe 234.349†	34.8	30.2	0.0307	mg/L	0.0307	mg/L	20:23:38
2	K 766.490†	1009.5	255.0	0.3133	mg/L	0.3133	mg/L	20:23:27
2	Li 670.784†	-254.2	-34.6	0.0035	mg/L	0.0035	mg/L	20:23:27
2	Na 589.592†	1271.4	871.5	0.2718	mg/L	0.2718	mg/L	20:23:27

2	Sr 407.771†	-0.9	-71.5	0.0003	mg/L	0.0003	mg/L	20:23:27
2	Y 371.029	2541450.1	2541450.1	0.941	mg/L			20:23:56
2	Ag 328.068†	1664.1	-96.6	0.0012	mg/L	0.0012	mg/L	20:23:58
2	Al 237.313†	-206.8	210.6	0.0367	mg/L	0.0367	mg/L	20:23:58
2	As 188.979†	-5.6	0.7	0.0049	mg/L	0.0049	mg/L	20:24:08
2	B 182.528†	-0.8	8.7	0.0092	mg/L	0.0092	mg/L	20:24:08
2	Ba 233.527†	-52.9	40.8	0.0035	mg/L	0.0035	mg/L	20:24:08
2	Be 313.107†	-1368.7	-16.6	0.0004	mg/L	0.0004	mg/L	20:23:58
2	Ca 315.887†	-360.3	1492.7	0.0522	mg/L	0.0522	mg/L	20:23:58
2	Cd 228.802†	147.1	-2.7	0.0009	mg/L	0.0009	mg/L	20:24:08
2	Co 228.616†	-251.2	-25.1	-0.0005	mg/L	-0.0005	mg/L	20:24:08
2	Cr 267.716†	526.9	-6.3	0.0033	mg/L	0.0033	mg/L	20:23:58
2	Cu 324.752†	4172.8	-368.1	0.0024	mg/L	0.0024	mg/L	20:23:58
2	Mg 279.077†	109.7	113.1	0.0343	mg/L	0.0343	mg/L	20:23:58
2	Mn 257.610†	23177.1	8559.9	0.0127	mg/L	0.0127	mg/L	20:23:58
2	Mn 294.920†	2810.5	4319.2	0.0128	mg/L	0.0128	mg/L	20:23:58
2	Mo 202.031†	49.0	16.2	0.0032	mg/L	0.0032	mg/L	20:24:08
2	Ni 231.604†	125.6	-24.6	0.0011	mg/L	0.0011	mg/L	20:23:58
2	P 214.914†	942.5	1028.7	0.6911	mg/L	0.6911	mg/L	20:24:08
2	Pb 220.353†	161.5	-10.5	-0.0009	mg/L	-0.0009	mg/L	20:24:08
2	Sb 206.836†	46.7	1.8	0.0050	mg/L	0.0050	mg/L	20:24:08
2	Se 196.026†	13.0	2.9	0.0070	mg/L	0.0070	mg/L	20:24:08
2	Sn 189.927†	28.4	0.9	-0.0012	mg/L	-0.0012	mg/L	20:24:08
2	Ti 337.279†	-335.2	263.6	0.0052	mg/L	0.0052	mg/L	20:23:58
2	Tl 190.801†	-4.8	-0.3	0.0009	mg/L	0.0009	mg/L	20:24:08
2	V 292.402†	-359.1	-33.3	0.0044	mg/L	0.0044	mg/L	20:23:58
2	Zn 213.857†	1298.2	234.3	0.0044	mg/L	0.0044	mg/L	20:24:08

Mean Data: CF30507-BLK2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2540479.2	0.941	mg/L	0.0005				0.05%
Ag 328.068†	-79.4	0.0013	mg/L	0.00013	0.0013	mg/L	0.00013	10.09%
Al 237.313†	164.7	0.0316	mg/L	0.00718	0.0316	mg/L	0.00718	22.75%
As 188.979†	1.2	0.0053	mg/L	0.00049	0.0053	mg/L	0.00049	9.35%
B 249.677†	4.3	0.0037	mg/L	0.00187	0.0037	mg/L	0.00187	50.85%
B 182.528†	7.9	0.0084	mg/L	0.00115	0.0084	mg/L	0.00115	13.69%
Ba 233.527†	38.9	0.0035	mg/L	0.00002	0.0035	mg/L	0.00002	0.68%
Be 313.107†	23.6	0.0004	mg/L	0.00003	0.0004	mg/L	0.00003	6.39%
Ca 315.887†	1468.8	0.0519	mg/L	0.00037	0.0519	mg/L	0.00037	0.72%
Cd 228.802†	1.0	0.0010	mg/L	0.00016	0.0010	mg/L	0.00016	15.73%
Co 228.616†	-17.1	-0.0003	mg/L	0.00023	-0.0003	mg/L	0.00023	68.22%
Cr 267.716†	-28.1	0.0031	mg/L	0.00027	0.0031	mg/L	0.00027	8.52%
Cu 324.752†	-380.8	0.0024	mg/L	0.00010	0.0024	mg/L	0.00010	4.13%
Fe 234.349†	32.6	0.0323	mg/L	0.00223	0.0323	mg/L	0.00223	6.91%
K 766.490†	234.8	0.3023	mg/L	0.01558	0.3023	mg/L	0.01558	5.15%
Li 670.784†	-68.5	0.0026	mg/L	0.00132	0.0026	mg/L	0.00132	51.42%
Mg 279.077†	100.7	0.0333	mg/L	0.00141	0.0333	mg/L	0.00141	4.23%
Mn 257.610†	8676.6	0.0128	mg/L	0.00021	0.0128	mg/L	0.00021	1.65%
Mn 294.920†	4346.8	0.0129	mg/L	0.00010	0.0129	mg/L	0.00010	0.79%
Mo 202.031†	33.4	0.0039	mg/L	0.00103	0.0039	mg/L	0.00103	26.36%
Na 589.592†	904.1	0.2777	mg/L	0.00838	0.2777	mg/L	0.00838	3.02%
Ni 231.604†	-5.3	0.0015	mg/L	0.00061	0.0015	mg/L	0.00061	40.44%
P 214.914†	1032.9	0.6937	mg/L	0.00366	0.6937	mg/L	0.00366	0.53%
Pb 220.353†	-17.3	-0.0014	mg/L	0.00067	-0.0014	mg/L	0.00067	49.04%
Sb 206.836†	-0.4	0.0040	mg/L	0.00145	0.0040	mg/L	0.00145	35.94%
Se 196.026†	7.6	0.0102	mg/L	0.00458	0.0102	mg/L	0.00458	44.76%
Sn 189.927†	5.3	-0.0006	mg/L	0.00093	-0.0006	mg/L	0.00093	157.58%
Sr 407.771†	-43.4	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	14.62%
Ti 337.279†	244.8	0.0052	mg/L	0.00003	0.0052	mg/L	0.00003	0.60%
Tl 190.801†	-2.9	-0.0017	mg/L	0.00362	-0.0017	mg/L	0.00362	212.39%
V 292.402†	-28.0	0.0045	mg/L	0.00005	0.0045	mg/L	0.00005	1.07%
Zn 213.857†	229.8	0.0044	mg/L	0.00005	0.0044	mg/L	0.00005	1.18%

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Sequence No.: 100
Sample ID: 1307097-01
Analyst:
Initial Sample Wt:
Dilution:

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Autosampler Location: 85
Date Collected: 7/5/2013 8:25:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	110.2	135.4	0.0766	mg/L	0.0766	mg/L 20:27:44
1	Fe 234.349†	678.8	787.0	0.5348	mg/L	0.5348	mg/L 20:27:44
1	K 766.490†	105387.3	122417.1	66.89	mg/L	66.89	mg/L 20:27:34
1	Li 670.784†	104.6	358.0	0.0143	mg/L	0.0143	mg/L 20:27:34
1	Na 589.592†	962416.1	1124924.5	204.8	mg/L	204.8	mg/L 20:27:32
1	Sr 407.771†	651858.1	762181.7	0.8890	mg/L	0.8890	mg/L 20:27:32
1	Y 371.029	2309854.4	2309854.4	0.855	mg/L		20:28:03
1	Ag 328.068†	675.4	-1075.4	-0.0042	mg/L	-0.0042	mg/L 20:28:05
1	Al 237.313†	-401.9	-39.5	0.0090	mg/L	0.0090	mg/L 20:28:16
1	As 188.979†	15.0	24.2	0.0220	mg/L	0.0220	mg/L 20:28:16
1	B 182.528†	-90.1	-95.8	-0.1030	mg/L	-0.1030	mg/L 20:28:05
1	Ba 233.527†	13044.8	15351.0	0.1369	mg/L	0.1369	mg/L 20:28:05
1	Be 313.107†	-2794.0	-1829.1	-0.0004	mg/L	-0.0004	mg/L 20:28:05
1	Ca 315.887†	Saturated3	Saturated3				20:28:16
Saturated in preshot (code 3)							
1	Cd 228.802†	150.9	17.4	0.0015	mg/L	0.0015	mg/L 20:28:16
1	Co 228.616†	63.9	316.5	0.0064	mg/L	0.0064	mg/L 20:28:16
1	Cr 267.716†	512.4	33.0	0.0037	mg/L	0.0037	mg/L 20:28:05
1	Cu 324.752†	4140.8	39.1	0.0046	mg/L	0.0046	mg/L 20:28:05
1	Mg 279.077†	490167.4	573175.3	46.22	mg/L	46.22	mg/L 20:28:03
1	Mn 257.610†	1201595.1	1389016.4	1.789	mg/L	1.789	mg/L 20:28:03
1	Mn 294.920†	572624.3	670932.3	1.751	mg/L	1.751	mg/L 20:28:03
1	Mo 202.031†	648.7	722.7	0.0331	mg/L	0.0331	mg/L 20:28:16
1	Ni 231.604†	1736.5	1872.5	0.0434	mg/L	0.0434	mg/L 20:28:16
1	P 214.914†	1211.0	1443.2	0.9504	mg/L	0.9504	mg/L 20:28:16
1	Pb 220.353†	-133.8	-338.6	-0.0239	mg/L	-0.0239	mg/L 20:28:16
1	Sb 206.836†	93.2	61.1	0.0329	mg/L	0.0329	mg/L 20:28:16
1	Se 196.026†	12.3	3.5	0.0073	mg/L	0.0073	mg/L 20:28:16
1	Sn 189.927†	-1072.3	-1283.2	-0.1914	mg/L	-0.1914	mg/L 20:28:16
1	Ti 337.279†	-426.9	120.6	0.0050	mg/L	0.0050	mg/L 20:28:05
1	Tl 190.801†	48.1	61.0	0.0602	mg/L	0.0602	mg/L 20:28:16
1	V 292.402†	-291.6	7.3	0.0050	mg/L	0.0050	mg/L 20:28:05
1	Zn 213.857†	1760.1	912.7	0.0091	mg/L	0.0091	mg/L 20:28:16
2	B 249.677†	118.2	147.3	0.0833	mg/L	0.0833	mg/L 20:27:59
2	Fe 234.349†	694.8	820.8	0.5573	mg/L	0.5573	mg/L 20:27:59
2	K 766.490†	104472.6	123622.1	67.55	mg/L	67.55	mg/L 20:27:49
2	Li 670.784†	124.3	383.7	0.0150	mg/L	0.0150	mg/L 20:27:49
2	Na 589.592†	954797.0	1136802.8	206.9	mg/L	206.9	mg/L 20:27:47
2	Sr 407.771†	644684.1	767828.7	0.8956	mg/L	0.8956	mg/L 20:27:47
2	Y 371.029	2267634.1	2267634.1	0.840	mg/L		20:28:18
2	Ag 328.068†	743.4	-979.6	-0.0036	mg/L	-0.0036	mg/L 20:28:21
2	Al 237.313†	-356.9	5.3	0.0139	mg/L	0.0139	mg/L 20:28:31
2	As 188.979†	9.4	17.8	0.0173	mg/L	0.0173	mg/L 20:28:31
2	B 182.528†	-63.8	-66.5	-0.0715	mg/L	-0.0715	mg/L 20:28:21
2	Ba 233.527†	13181.2	15797.4	0.1408	mg/L	0.1408	mg/L 20:28:21
2	Be 313.107†	-2808.7	-1907.5	-0.0005	mg/L	-0.0005	mg/L 20:28:21
2	Ca 315.887†	Saturated3	Saturated3				20:28:31
Saturated in preshot (code 3)							
2	Cd 228.802†	156.0	26.7	0.0018	mg/L	0.0018	mg/L 20:28:31
2	Co 228.616†	94.8	354.7	0.0071	mg/L	0.0071	mg/L 20:28:31
2	Cr 267.716†	567.6	109.9	0.0044	mg/L	0.0044	mg/L 20:28:21
2	Cu 324.752†	4069.3	44.2	0.0046	mg/L	0.0046	mg/L 20:28:21
2	Mg 279.077†	478385.4	569813.4	45.95	mg/L	45.95	mg/L 20:28:18
2	Mn 257.610†	1176126.1	1384840.6	1.783	mg/L	1.783	mg/L 20:28:18
2	Mn 294.920†	559812.5	668139.0	1.744	mg/L	1.744	mg/L 20:28:18
2	Mo 202.031†	676.8	770.2	0.0351	mg/L	0.0351	mg/L 20:28:31
2	Ni 231.604†	1753.5	1930.6	0.0447	mg/L	0.0447	mg/L 20:28:31
2	P 214.914†	1201.2	1457.9	0.9596	mg/L	0.9596	mg/L 20:28:31
2	Pb 220.353†	-157.1	-369.2	-0.0261	mg/L	-0.0261	mg/L 20:28:31
2	Sb 206.836†	86.9	55.7	0.0304	mg/L	0.0304	mg/L 20:28:31
2	Se 196.026†	3.8	-6.3	0.0006	mg/L	0.0006	mg/L 20:28:31
2	Sn 189.927†	-1100.1	-1339.6	-0.1997	mg/L	-0.1997	mg/L 20:28:31
2	Ti 337.279†	-271.0	297.0	0.0052	mg/L	0.0052	mg/L 20:28:21
2	Tl 190.801†	44.2	57.5	0.0567	mg/L	0.0567	mg/L 20:28:31
2	V 292.402†	-206.4	102.5	0.0055	mg/L	0.0055	mg/L 20:28:21
2	Zn 213.857†	1759.3	950.1	0.0093	mg/L	0.0093	mg/L 20:28:31

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2288744.3	0.847 mg/L	0.0111			1.30%
Ag 328.068†	-1027.5	-0.0039 mg/L	0.00038	-0.0039 mg/L	0.00038	9.62%
Al 237.313†	-17.1	0.0115 mg/L	0.00351	0.0115 mg/L	0.00351	30.60%
As 188.979†	21.0	0.0197 mg/L	0.00327	0.0197 mg/L	0.00327	16.65%
B 249.677†	141.3	0.0800 mg/L	0.00468	0.0800 mg/L	0.00468	5.86%
B 182.528†	-81.2	-0.0872 mg/L	0.02227	-0.0872 mg/L	0.02227	25.53%
Ba 233.527†	15574.2	0.1388 mg/L	0.00275	0.1388 mg/L	0.00275	1.98%
Be 313.107†	-1868.3	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	5.52%
Ca 315.887†	Saturated3					
Cd 228.802†	22.1	0.0017 mg/L	0.00020	0.0017 mg/L	0.00020	12.13%
Co 228.616†	335.6	0.0067 mg/L	0.00054	0.0067 mg/L	0.00054	8.03%
Cr 267.716†	71.4	0.0040 mg/L	0.00048	0.0040 mg/L	0.00048	11.77%
Cu 324.752†	41.6	0.0046 mg/L	0.00002	0.0046 mg/L	0.00002	0.40%
Fe 234.349†	803.9	0.5461 mg/L	0.01591	0.5461 mg/L	0.01591	2.91%
K 766.490†	123019.6	67.22 mg/L	0.464	67.22 mg/L	0.464	0.69%
Li 670.784†	370.8	0.0146 mg/L	0.00050	0.0146 mg/L	0.00050	3.42%
Mg 279.077†	571494.3	46.08 mg/L	0.192	46.08 mg/L	0.192	0.42%
Mn 257.610†	1386928.5	1.786 mg/L	0.0038	1.786 mg/L	0.0038	0.21%
Mn 294.920†	669535.6	1.748 mg/L	0.0052	1.748 mg/L	0.0052	0.29%
Mo 202.031†	746.4	0.0341 mg/L	0.00143	0.0341 mg/L	0.00143	4.18%
Na 589.592†	1130863.7	205.9 mg/L	1.53	205.9 mg/L	1.53	0.74%
Ni 231.604†	1901.5	0.0441 mg/L	0.00092	0.0441 mg/L	0.00092	2.08%
P 214.914†	1450.5	0.9550 mg/L	0.00651	0.9550 mg/L	0.00651	0.68%
Pb 220.353†	-353.9	-0.0250 mg/L	0.00152	-0.0250 mg/L	0.00152	6.09%
Sb 206.836†	58.4	0.0317 mg/L	0.00180	0.0317 mg/L	0.00180	5.68%
Se 196.026†	-1.4	0.0040 mg/L	0.00476	0.0040 mg/L	0.00476	120.54%
Sn 189.927†	-1311.4	-0.1955 mg/L	0.00590	-0.1955 mg/L	0.00590	3.02%
Sr 407.771†	765005.2	0.8923 mg/L	0.00466	0.8923 mg/L	0.00466	0.52%
Ti 337.279†	208.8	0.0051 mg/L	0.00015	0.0051 mg/L	0.00015	2.83%
Tl 190.801†	59.2	0.0584 mg/L	0.00243	0.0584 mg/L	0.00243	4.16%
V 292.402†	54.9	0.0053 mg/L	0.00033	0.0053 mg/L	0.00033	6.23%
Zn 213.857†	931.4	0.0092 mg/L	0.00019	0.0092 mg/L	0.00019	2.04%

Sequence No.: 101
Sample ID: 1307097-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 86
Date Collected: 7/5/2013 8:31:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307097-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	46.9	60.5	0.0350 mg/L	0.0350 mg/L	20:33:31
1	Fe 234.349†	650.1	741.3	0.1843 mg/L	0.1843 mg/L	20:33:31
1	K 766.490†	72489.4	82587.7	45.18 mg/L	45.18 mg/L	20:33:21
1	Li 670.784†	-203.7	1.2	0.0045 mg/L	0.0045 mg/L	20:33:21
1	Na 589.592†	1952308.9	2245825.3	408.7 mg/L	408.7 mg/L	20:33:19
1	Sr 407.771†	391035.3	449850.3	0.5249 mg/L	0.5249 mg/L	20:33:19
1	Y 371.029	2347524.4	2347524.4	0.869 mg/L		20:33:54
1	Ag 328.068†	1317.4	-349.3	-0.0001 mg/L	-0.0001 mg/L	20:33:56
1	Al 237.313†	2918.8	3788.7	0.4326 mg/L	0.4326 mg/L	20:34:06
1	As 188.979†	-8.0	-2.6	0.0025 mg/L	0.0025 mg/L	20:34:06
1	B 182.528†	6.5	17.1	0.0182 mg/L	0.0182 mg/L	20:34:06
1	Ba 233.527†	17706.3	20469.7	0.1815 mg/L	0.1815 mg/L	20:33:56
1	Be 313.107†	-1640.6	-449.7	0.0002 mg/L	0.0002 mg/L	20:33:56
1	Ca 315.887†	15540347.9	17882427.5	194.9 mg/L	194.9 mg/L	20:33:52
1	Cd 228.802†	168.7	35.1	0.0021 mg/L	0.0021 mg/L	20:34:06
1	Co 228.616†	-188.4	25.0	0.0005 mg/L	0.0005 mg/L	20:34:06
1	Cr 267.716†	624.8	152.6	0.0047 mg/L	0.0047 mg/L	20:33:56
1	Cu 324.752†	5099.6	1064.7	0.0101 mg/L	0.0101 mg/L	20:33:56
1	Mg 279.077†	195043.1	224411.0	18.11 mg/L	18.11 mg/L	20:33:56
1	Mn 257.610†	53854.0	45891.3	0.0606 mg/L	0.0606 mg/L	20:33:56
1	Mn 294.920†	16692.1	20538.1	0.0551 mg/L	0.0551 mg/L	20:33:56
1	Mo 202.031†	834.0	923.7	0.0416 mg/L	0.0416 mg/L	20:34:06
1	Ni 231.604†	791.1	752.2	0.0185 mg/L	0.0185 mg/L	20:34:06
1	P 214.914†	1115.8	1311.0	0.8674 mg/L	0.8674 mg/L	20:34:06
1	Pb 220.353†	21.0	-157.9	-0.0113 mg/L	-0.0113 mg/L	20:34:06
1	Sb 206.836†	65.7	27.8	0.0174 mg/L	0.0174 mg/L	20:34:06
1	Se 196.026†	1.1	-9.6	-0.0016 mg/L	-0.0016 mg/L	20:34:06
1	Sn 189.927†	-750.6	-892.9	-0.0130 mg/L	-0.0130 mg/L	20:34:06

1	Ti 337.279†	12937.2	15505.2	0.0230	mg/L	0.0230	mg/L	20:33:56
1	Tl 190.801†	27.9	36.9	0.0407	mg/L	0.0407	mg/L	20:34:06
1	V 292.402†	-93.6	240.6	0.0062	mg/L	0.0062	mg/L	20:33:56
1	Zn 213.857†	4725.5	4291.7	0.0341	mg/L	0.0341	mg/L	20:34:06
2	B 249.677†	47.9	60.3	0.0349	mg/L	0.0349	mg/L	20:33:46
2	Fe 234.349†	636.8	709.4	0.1698	mg/L	0.1698	mg/L	20:33:46
2	K 766.490†	72153.9	80332.8	43.95	mg/L	43.95	mg/L	20:33:36
2	Li 670.784†	-201.5	9.0	0.0047	mg/L	0.0047	mg/L	20:33:36
2	Na 589.592†	1994020.8	2242172.1	408.1	mg/L	408.1	mg/L	20:33:34
2	Sr 407.771†	401308.7	451276.6	0.5265	mg/L	0.5265	mg/L	20:33:34
2	Y 371.029	2401585.8	2401585.8	0.889	mg/L			20:34:12
2	Ag 328.068†	1373.4	-320.5	0.0000	mg/L	0.0000	mg/L	20:34:15
2	Al 237.313†	2869.4	3657.6	0.4181	mg/L	0.4181	mg/L	20:34:25
2	As 188.979†	-3.6	2.6	0.0063	mg/L	0.0063	mg/L	20:34:25
2	B 182.528†	14.0	25.3	0.0270	mg/L	0.0270	mg/L	20:34:25
2	Ba 233.527†	17813.9	20132.1	0.1785	mg/L	0.1785	mg/L	20:34:15
2	Be 313.107†	-1684.0	-456.0	0.0002	mg/L	0.0002	mg/L	20:34:15
2	Ca 315.887†	15563139.8	17505557.1	190.8	mg/L	190.8	mg/L	20:34:10
2	Cd 228.802†	164.1	25.5	0.0018	mg/L	0.0018	mg/L	20:34:25
2	Co 228.616†	-177.3	42.4	0.0008	mg/L	0.0008	mg/L	20:34:25
2	Cr 267.716†	647.3	161.7	0.0048	mg/L	0.0048	mg/L	20:34:15
2	Cu 324.752†	5112.7	947.3	0.0095	mg/L	0.0095	mg/L	20:34:15
2	Mg 279.077†	195169.2	219501.1	17.71	mg/L	17.71	mg/L	20:34:15
2	Mn 257.610†	53955.1	44610.1	0.0590	mg/L	0.0590	mg/L	20:34:15
2	Mn 294.920†	16848.0	20281.0	0.0544	mg/L	0.0544	mg/L	20:34:15
2	Mo 202.031†	815.5	881.3	0.0398	mg/L	0.0398	mg/L	20:34:25
2	Ni 231.604†	779.0	718.1	0.0177	mg/L	0.0177	mg/L	20:34:25
2	P 214.914†	1110.6	1276.1	0.8456	mg/L	0.8456	mg/L	20:34:25
2	Pb 220.353†	-26.6	-212.1	-0.0151	mg/L	-0.0151	mg/L	20:34:25
2	Sb 206.836†	62.7	22.7	0.0150	mg/L	0.0150	mg/L	20:34:25
2	Se 196.026†	3.9	-6.5	0.0005	mg/L	0.0005	mg/L	20:34:25
2	Sn 189.927†	-748.2	-870.8	-0.0123	mg/L	-0.0123	mg/L	20:34:25
2	Ti 337.279†	12600.6	14791.6	0.0222	mg/L	0.0222	mg/L	20:34:15
2	Tl 190.801†	31.4	40.1	0.0438	mg/L	0.0438	mg/L	20:34:25
2	V 292.402†	-144.5	185.8	0.0059	mg/L	0.0059	mg/L	20:34:15
2	Zn 213.857†	4753.4	4200.7	0.0334	mg/L	0.0334	mg/L	20:34:25

Mean Data: 1307097-02

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	2374555.1	0.879	mg/L	0.0142				1.61%
Ag 328.068†	-334.9	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	163.45%
Al 237.313†	3723.2	0.4254	mg/L	0.01026	0.4254	mg/L	0.01026	2.41%
As 188.979†	0.0	0.0044	mg/L	0.00271	0.0044	mg/L	0.00271	61.82%
B 249.677†	60.4	0.0349	mg/L	0.00006	0.0349	mg/L	0.00006	0.17%
B 182.528†	21.2	0.0226	mg/L	0.00622	0.0226	mg/L	0.00622	27.53%
Ba 233.527†	20300.9	0.1800	mg/L	0.00208	0.1800	mg/L	0.00208	1.16%
Be 313.107†	-452.8	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.02%
Ca 315.887†	17693992.3	192.9	mg/L	2.90	192.9	mg/L	2.90	1.51%
Cd 228.802†	30.3	0.0019	mg/L	0.00021	0.0019	mg/L	0.00021	10.81%
Co 228.616†	33.7	0.0007	mg/L	0.00025	0.0007	mg/L	0.00025	36.84%
Cr 267.716†	157.2	0.0048	mg/L	0.00006	0.0048	mg/L	0.00006	1.15%
Cu 324.752†	1006.0	0.0098	mg/L	0.00045	0.0098	mg/L	0.00045	4.55%
Fe 234.349†	725.3	0.1770	mg/L	0.01025	0.1770	mg/L	0.01025	5.79%
K 766.490†	81460.2	44.57	mg/L	0.869	44.57	mg/L	0.869	1.95%
Li 670.784†	5.1	0.0046	mg/L	0.00015	0.0046	mg/L	0.00015	3.28%
Mg 279.077†	221956.1	17.91	mg/L	0.280	17.91	mg/L	0.280	1.56%
Mn 257.610†	45250.7	0.0598	mg/L	0.00116	0.0598	mg/L	0.00116	1.94%
Mn 294.920†	20409.6	0.0547	mg/L	0.00047	0.0547	mg/L	0.00047	0.87%
Mo 202.031†	902.5	0.0407	mg/L	0.00127	0.0407	mg/L	0.00127	3.12%
Na 589.592†	2243998.7	408.4	mg/L	0.47	408.4	mg/L	0.47	0.12%
Ni 231.604†	735.1	0.0181	mg/L	0.00054	0.0181	mg/L	0.00054	2.98%
P 214.914†	1293.5	0.8565	mg/L	0.01541	0.8565	mg/L	0.01541	1.80%
Pb 220.353†	-185.0	-0.0132	mg/L	0.00270	-0.0132	mg/L	0.00270	20.49%
Sb 206.836†	25.2	0.0162	mg/L	0.00170	0.0162	mg/L	0.00170	10.46%
Se 196.026†	-8.0	-0.0006	mg/L	0.00152	-0.0006	mg/L	0.00152	265.47%
Sn 189.927†	-881.8	-0.0127	mg/L	0.00052	-0.0127	mg/L	0.00052	4.14%
Sr 407.771†	450563.4	0.5257	mg/L	0.00118	0.5257	mg/L	0.00118	0.22%
Ti 337.279†	15148.4	0.0226	mg/L	0.00059	0.0226	mg/L	0.00059	2.61%
Tl 190.801†	38.5	0.0423	mg/L	0.00220	0.0423	mg/L	0.00220	5.19%
V 292.402†	213.2	0.0060	mg/L	0.00019	0.0060	mg/L	0.00019	3.19%
Zn 213.857†	4246.2	0.0338	mg/L	0.00047	0.0338	mg/L	0.00047	1.39%

Sequence No.: 102
Sample ID: CG30508-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 87
Date Collected: 7/5/2013 8:36:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	6.0	13.0	0.0085	mg/L	0.0085 mg/L	20:37:48
1	Fe 234.349†	33.1	29.0	0.0299	mg/L	0.0299 mg/L	20:37:48
1	K 766.490†	1229.3	514.3	0.4546	mg/L	0.4546 mg/L	20:37:38
1	Li 670.784†	-61.8	168.6	0.0091	mg/L	0.0091 mg/L	20:37:38
1	Na 589.592†	3608.5	3430.6	0.7374	mg/L	0.7374 mg/L	20:37:38
1	Sr 407.771†	23.2	-45.4	0.0003	mg/L	0.0003 mg/L	20:37:38
1	Y 371.029	2492514.2	2492514.2	0.923	mg/L		20:38:04
1	Ag 328.068†	1614.9	-115.2	0.0011	mg/L	0.0011 mg/L	20:38:06
1	Al 237.313†	-326.9	76.2	0.0218	mg/L	0.0218 mg/L	20:38:06
1	As 188.979†	-3.5	2.8	0.0064	mg/L	0.0064 mg/L	20:38:16
1	B 182.528†	-4.5	4.6	0.0049	mg/L	0.0049 mg/L	20:38:16
1	Ba 233.527†	-74.5	16.3	0.0033	mg/L	0.0033 mg/L	20:38:16
1	Be 313.107†	-1403.9	-83.4	0.0003	mg/L	0.0003 mg/L	20:38:06
1	Ca 315.887†	-68.1	1801.7	0.0556	mg/L	0.0556 mg/L	20:38:06
1	Cd 228.802†	152.7	6.5	0.0012	mg/L	0.0012 mg/L	20:38:16
1	Co 228.616†	-245.7	-24.5	-0.0005	mg/L	-0.0005 mg/L	20:38:16
1	Cr 267.716†	552.0	32.0	0.0037	mg/L	0.0037 mg/L	20:38:06
1	Cu 324.752†	4826.1	427.0	0.0067	mg/L	0.0067 mg/L	20:38:06
1	Mg 279.077†	115.8	122.0	0.0351	mg/L	0.0351 mg/L	20:38:06
1	Mn 257.610†	36621.0	23612.1	0.0321	mg/L	0.0321 mg/L	20:38:06
1	Mn 294.920†	9260.3	11367.3	0.0312	mg/L	0.0312 mg/L	20:38:06
1	Mo 202.031†	46.1	14.1	0.0031	mg/L	0.0031 mg/L	20:38:16
1	Ni 231.604†	191.5	49.5	0.0027	mg/L	0.0027 mg/L	20:38:06
1	P 214.914†	1159.4	1283.4	0.8506	mg/L	0.8506 mg/L	20:38:16
1	Pb 220.353†	210.5	46.0	0.0031	mg/L	0.0031 mg/L	20:38:16
1	Sb 206.836†	45.8	1.8	0.0051	mg/L	0.0051 mg/L	20:38:16
1	Se 196.026†	13.0	3.2	0.0072	mg/L	0.0072 mg/L	20:38:16
1	Sn 189.927†	15.3	-12.7	-0.0033	mg/L	-0.0033 mg/L	20:38:16
1	Ti 337.279†	-443.9	138.8	0.0051	mg/L	0.0051 mg/L	20:38:06
1	Tl 190.801†	-10.4	-6.5	-0.0052	mg/L	-0.0052 mg/L	20:38:16
1	V 292.402†	-380.6	-64.2	0.0043	mg/L	0.0043 mg/L	20:38:06
1	Zn 213.857†	2257.4	1300.9	0.0122	mg/L	0.0122 mg/L	20:38:16
2	B 249.677†	2.2	8.8	0.0062	mg/L	0.0062 mg/L	20:38:00
2	Fe 234.349†	18.2	13.0	0.0192	mg/L	0.0192 mg/L	20:38:00
2	K 766.490†	1210.2	494.0	0.4436	mg/L	0.4436 mg/L	20:37:50
2	Li 670.784†	-202.9	15.6	0.0049	mg/L	0.0049 mg/L	20:37:50
2	Na 589.592†	3410.0	3216.9	0.6985	mg/L	0.6985 mg/L	20:37:50
2	Sr 407.771†	105.5	43.8	0.0004	mg/L	0.0004 mg/L	20:37:50
2	Y 371.029	2491600.2	2491600.2	0.922	mg/L		20:38:19
2	Ag 328.068†	1597.4	-133.4	0.0010	mg/L	0.0010 mg/L	20:38:21
2	Al 237.313†	-253.9	155.2	0.0305	mg/L	0.0305 mg/L	20:38:21
2	As 188.979†	-0.7	5.9	0.0086	mg/L	0.0086 mg/L	20:38:31
2	B 182.528†	-3.8	5.5	0.0058	mg/L	0.0058 mg/L	20:38:31
2	Ba 233.527†	-63.9	27.7	0.0034	mg/L	0.0034 mg/L	20:38:31
2	Be 313.107†	-1329.4	-3.2	0.0004	mg/L	0.0004 mg/L	20:38:21
2	Ca 315.887†	-56.0	1814.9	0.0557	mg/L	0.0557 mg/L	20:38:21
2	Cd 228.802†	160.1	14.5	0.0015	mg/L	0.0015 mg/L	20:38:31
2	Co 228.616†	-229.8	-7.3	-0.0001	mg/L	-0.0001 mg/L	20:38:31
2	Cr 267.716†	494.8	-29.8	0.0031	mg/L	0.0031 mg/L	20:38:21
2	Cu 324.752†	4788.6	388.3	0.0065	mg/L	0.0065 mg/L	20:38:21
2	Mg 279.077†	126.1	133.2	0.0360	mg/L	0.0360 mg/L	20:38:21
2	Mn 257.610†	36217.0	23188.7	0.0315	mg/L	0.0315 mg/L	20:38:21
2	Mn 294.920†	9158.7	11260.9	0.0309	mg/L	0.0309 mg/L	20:38:21
2	Mo 202.031†	52.1	20.6	0.0034	mg/L	0.0034 mg/L	20:38:31
2	Ni 231.604†	147.3	1.7	0.0017	mg/L	0.0017 mg/L	20:38:21
2	P 214.914†	1190.4	1317.5	0.8719	mg/L	0.8719 mg/L	20:38:31
2	Pb 220.353†	179.8	12.8	0.0008	mg/L	0.0008 mg/L	20:38:31
2	Sb 206.836†	45.8	1.8	0.0051	mg/L	0.0051 mg/L	20:38:31
2	Se 196.026†	21.4	12.2	0.0134	mg/L	0.0134 mg/L	20:38:31
2	Sn 189.927†	28.4	1.5	-0.0012	mg/L	-0.0012 mg/L	20:38:31
2	Ti 337.279†	-441.0	141.7	0.0051	mg/L	0.0051 mg/L	20:38:21

2	Tl 190.801†	-8.7	-4.6	-0.0034 mg/L	-0.0034 mg/L	20:38:31
2	V 292.402†	-359.7	-41.6	0.0044 mg/L	0.0044 mg/L	20:38:21
2	Zn 213.857†	2269.6	1315.0	0.0123 mg/L	0.0123 mg/L	20:38:31

Mean Data: CG30508-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2492057.2	0.923 mg/L		0.0002			0.03%
Ag 328.068†	-124.3	0.0011 mg/L		0.00007	0.0011 mg/L	0.00007	6.60%
Al 237.313†	115.7	0.0262 mg/L		0.00618	0.0262 mg/L	0.00618	23.63%
As 188.979†	4.3	0.0075 mg/L		0.00159	0.0075 mg/L	0.00159	21.09%
B 249.677†	10.9	0.0073 mg/L		0.00163	0.0073 mg/L	0.00163	22.22%
B 182.528†	5.0	0.0053 mg/L		0.00062	0.0053 mg/L	0.00062	11.72%
Ba 233.527†	22.0	0.0033 mg/L		0.00007	0.0033 mg/L	0.00007	2.11%
Be 313.107†	-43.3	0.0004 mg/L		0.00002	0.0004 mg/L	0.00002	6.88%
Ca 315.887†	1808.3	0.0556 mg/L		0.00010	0.0556 mg/L	0.00010	0.18%
Cd 228.802†	10.5	0.0013 mg/L		0.00018	0.0013 mg/L	0.00018	13.26%
Co 228.616†	-15.9	-0.0003 mg/L		0.00024	-0.0003 mg/L	0.00024	78.33%
Cr 267.716†	1.1	0.0034 mg/L		0.00038	0.0034 mg/L	0.00038	11.21%
Cu 324.752†	407.6	0.0066 mg/L		0.00015	0.0066 mg/L	0.00015	2.23%
Fe 234.349†	21.0	0.0245 mg/L		0.00757	0.0245 mg/L	0.00757	30.83%
K 766.490†	504.2	0.4491 mg/L		0.00782	0.4491 mg/L	0.00782	1.74%
Li 670.784†	92.1	0.0070 mg/L		0.00297	0.0070 mg/L	0.00297	42.60%
Mg 279.077†	127.6	0.0355 mg/L		0.00064	0.0355 mg/L	0.00064	1.80%
Mn 257.610†	23400.4	0.0318 mg/L		0.00038	0.0318 mg/L	0.00038	1.21%
Mn 294.920†	11314.1	0.0310 mg/L		0.00020	0.0310 mg/L	0.00020	0.63%
Mo 202.031†	17.3	0.0032 mg/L		0.00020	0.0032 mg/L	0.00020	6.11%
Na 589.592†	3323.8	0.7180 mg/L		0.02750	0.7180 mg/L	0.02750	3.83%
Ni 231.604†	25.6	0.0022 mg/L		0.00075	0.0022 mg/L	0.00075	34.32%
P 214.914†	1300.5	0.8613 mg/L		0.01509	0.8613 mg/L	0.01509	1.75%
Pb 220.353†	29.4	0.0019 mg/L		0.00166	0.0019 mg/L	0.00166	86.09%
Sb 206.836†	1.8	0.0051 mg/L		0.00000	0.0051 mg/L	0.00000	0.03%
Se 196.026†	7.7	0.0103 mg/L		0.00439	0.0103 mg/L	0.00439	42.61%
Sn 189.927†	-5.6	-0.0022 mg/L		0.00149	-0.0022 mg/L	0.00149	67.50%
Sr 407.771†	-0.8	0.0004 mg/L		0.00007	0.0004 mg/L	0.00007	20.05%
Ti 337.279†	140.2	0.0051 mg/L		0.00000	0.0051 mg/L	0.00000	0.05%
Tl 190.801†	-5.6	-0.0043 mg/L		0.00128	-0.0043 mg/L	0.00128	30.02%
V 292.402†	-52.9	0.0043 mg/L		0.00007	0.0043 mg/L	0.00007	1.70%
Zn 213.857†	1307.9	0.0123 mg/L		0.00008	0.0123 mg/L	0.00008	0.65%

Sequence No.: 103

Sample ID: CG30508-BS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 88

Date Collected: 7/5/2013 8:40:07 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30508-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	834.7	902.1	0.5040 mg/L	0.5040 mg/L	20:41:57
1	Fe 234.349†	3540.5	3791.8	2.524 mg/L	2.524 mg/L	20:41:57
1	K 766.490†	44602.6	47036.4	25.81 mg/L	25.81 mg/L	20:41:47
1	Li 670.784†	17222.8	18714.0	0.5188 mg/L	0.5188 mg/L	20:41:47
1	Na 589.592†	132935.2	142147.0	25.98 mg/L	25.98 mg/L	20:41:47
1	Sr 407.771†	39119.9	41901.3	0.0492 mg/L	0.0492 mg/L	20:41:47
1	Y 371.029	2517500.4	2517500.4	0.932 mg/L		20:42:15
1	Ag 328.068†	42734.8	43985.1	0.2457 mg/L	0.2457 mg/L	20:42:15
1	Al 237.313†	20727.8	22669.3	2.524 mg/L	2.524 mg/L	20:42:25
1	As 188.979†	622.8	674.8	0.4948 mg/L	0.4948 mg/L	20:42:25
1	B 182.528†	437.8	479.2	0.5143 mg/L	0.5143 mg/L	20:42:25
1	Ba 233.527†	52996.7	56957.4	0.4994 mg/L	0.4994 mg/L	20:42:15
1	Be 313.107†	106901.2	116132.6	0.0514 mg/L	0.0514 mg/L	20:42:15
1	Ca 315.887†	425474.3	458368.5	5.033 mg/L	5.033 mg/L	20:42:15
1	Cd 228.802†	7678.4	8079.1	0.2533 mg/L	0.2533 mg/L	20:42:25
1	Co 228.616†	23065.0	24988.3	0.4992 mg/L	0.4992 mg/L	20:42:25
1	Cr 267.716†	54152.8	57534.5	0.5053 mg/L	0.5053 mg/L	20:42:15
1	Cu 324.752†	91630.9	93508.3	0.5077 mg/L	0.5077 mg/L	20:42:15
1	Mg 279.077†	56467.8	60581.1	4.908 mg/L	4.908 mg/L	20:42:15
1	Mn 257.610†	385976.9	398043.5	0.5132 mg/L	0.5132 mg/L	20:42:15
1	Mn 294.920†	180469.9	194959.2	0.5099 mg/L	0.5099 mg/L	20:42:15

1	Mo 202.031†	10926.4	11687.1	0.4959	mg/L	0.4959	mg/L	20:42:25
1	Ni 231.604†	21117.6	22499.1	0.5039	mg/L	0.5039	mg/L	20:42:15
1	P 214.914†	8219.3	8845.5	5.578	mg/L	5.578	mg/L	20:42:25
1	Pb 220.353†	6824.0	7139.4	0.5042	mg/L	0.5042	mg/L	20:42:25
1	Sb 206.836†	1043.3	1071.5	0.5050	mg/L	0.5050	mg/L	20:42:25
1	Se 196.026†	1378.4	1468.0	1.011	mg/L	1.011	mg/L	20:42:25
1	Sn 189.927†	3203.0	3407.2	0.5060	mg/L	0.5060	mg/L	20:42:25
1	Ti 337.279†	391625.4	420796.1	0.4961	mg/L	0.4961	mg/L	20:42:15
1	Tl 190.801†	478.4	518.1	0.5012	mg/L	0.5012	mg/L	20:42:25
1	V 292.402†	101515.9	109265.0	0.5092	mg/L	0.5092	mg/L	20:42:15
1	Zn 213.857†	66433.3	70131.1	0.5145	mg/L	0.5145	mg/L	20:42:15
2	B 249.677†	831.8	904.3	0.5052	mg/L	0.5052	mg/L	20:42:10
2	Fe 234.349†	3567.1	3843.0	2.558	mg/L	2.558	mg/L	20:42:10
2	K 766.490†	44837.8	47573.7	26.10	mg/L	26.10	mg/L	20:42:00
2	Li 670.784†	17469.0	19089.2	0.5291	mg/L	0.5291	mg/L	20:42:00
2	Na 589.592†	133754.1	143875.3	26.29	mg/L	26.29	mg/L	20:42:00
2	Sr 407.771†	39255.1	42295.7	0.0497	mg/L	0.0497	mg/L	20:42:00
2	Y 371.029	2502680.7	2502680.7	0.927	mg/L	0.927	mg/L	20:42:29
2	Ag 328.068†	42676.5	44193.8	0.2468	mg/L	0.2468	mg/L	20:42:29
2	Al 237.313†	20679.8	22749.3	2.533	mg/L	2.533	mg/L	20:42:39
2	As 188.979†	623.8	679.8	0.4985	mg/L	0.4985	mg/L	20:42:39
2	B 182.528†	433.9	477.9	0.5128	mg/L	0.5128	mg/L	20:42:39
2	Ba 233.527†	52584.1	56848.7	0.4984	mg/L	0.4984	mg/L	20:42:29
2	Be 313.107†	106118.3	115966.9	0.0513	mg/L	0.0513	mg/L	20:42:29
2	Ca 315.887†	422281.6	457625.9	5.025	mg/L	5.025	mg/L	20:42:29
2	Cd 228.802†	7663.5	8111.8	0.2543	mg/L	0.2543	mg/L	20:42:39
2	Co 228.616†	22994.6	25058.9	0.5006	mg/L	0.5006	mg/L	20:42:39
2	Cr 267.716†	53858.8	57561.3	0.5055	mg/L	0.5055	mg/L	20:42:29
2	Cu 324.752†	91134.2	93554.4	0.5079	mg/L	0.5079	mg/L	20:42:29
2	Mg 279.077†	56127.3	60572.3	4.907	mg/L	4.907	mg/L	20:42:29
2	Mn 257.610†	383160.8	397456.4	0.5125	mg/L	0.5125	mg/L	20:42:29
2	Mn 294.920†	179208.0	194743.7	0.5094	mg/L	0.5094	mg/L	20:42:29
2	Mo 202.031†	10878.3	11704.5	0.4966	mg/L	0.4966	mg/L	20:42:39
2	Ni 231.604†	20966.1	22469.8	0.5033	mg/L	0.5033	mg/L	20:42:29
2	P 214.914†	8187.8	8863.8	5.590	mg/L	5.590	mg/L	20:42:39
2	Pb 220.353†	6826.2	7185.1	0.5075	mg/L	0.5075	mg/L	20:42:39
2	Sb 206.836†	1045.8	1080.8	0.5094	mg/L	0.5094	mg/L	20:42:39
2	Se 196.026†	1372.8	1470.7	1.013	mg/L	1.013	mg/L	20:42:39
2	Sn 189.927†	3200.3	3424.6	0.5086	mg/L	0.5086	mg/L	20:42:39
2	Ti 337.279†	389064.5	420520.4	0.4957	mg/L	0.4957	mg/L	20:42:29
2	Tl 190.801†	476.7	519.2	0.5022	mg/L	0.5022	mg/L	20:42:39
2	V 292.402†	100965.3	109315.8	0.5094	mg/L	0.5094	mg/L	20:42:29
2	Zn 213.857†	65774.6	69842.3	0.5123	mg/L	0.5123	mg/L	20:42:29

Mean Data: CG30508-BS1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample			RSD
	Intensity	Conc.			Conc.	Units	Std.Dev.	
Y 371.029	2510090.5	0.929	mg/L	0.0039				0.42%
Ag 328.068†	44089.4	0.2463	mg/L	0.00082	0.2463	mg/L	0.00082	0.33%
Al 237.313†	22709.3	2.528	mg/L	0.0063	2.528	mg/L	0.0063	0.25%
As 188.979†	677.3	0.4966	mg/L	0.00258	0.4966	mg/L	0.00258	0.52%
B 249.677†	903.2	0.5046	mg/L	0.00085	0.5046	mg/L	0.00085	0.17%
B 182.528†	478.6	0.5136	mg/L	0.00102	0.5136	mg/L	0.00102	0.20%
Ba 233.527†	56903.1	0.4989	mg/L	0.00067	0.4989	mg/L	0.00067	0.13%
Be 313.107†	116049.8	0.0514	mg/L	0.00005	0.0514	mg/L	0.00005	0.10%
Ca 315.887†	457997.2	5.029	mg/L	0.0057	5.029	mg/L	0.0057	0.11%
Cd 228.802†	8095.5	0.2538	mg/L	0.00072	0.2538	mg/L	0.00072	0.28%
Co 228.616†	25023.6	0.4999	mg/L	0.00100	0.4999	mg/L	0.00100	0.20%
Cr 267.716†	57547.9	0.5054	mg/L	0.00017	0.5054	mg/L	0.00017	0.03%
Cu 324.752†	93531.3	0.5078	mg/L	0.00017	0.5078	mg/L	0.00017	0.03%
Fe 234.349†	3817.4	2.541	mg/L	0.0241	2.541	mg/L	0.0241	0.95%
K 766.490†	47305.1	25.96	mg/L	0.207	25.96	mg/L	0.207	0.80%
Li 670.784†	18901.6	0.5240	mg/L	0.00729	0.5240	mg/L	0.00729	1.39%
Mg 279.077†	60576.7	4.908	mg/L	0.0005	4.908	mg/L	0.0005	0.01%
Mn 257.610†	397750.0	0.5128	mg/L	0.00054	0.5128	mg/L	0.00054	0.11%
Mn 294.920†	194851.4	0.5097	mg/L	0.00040	0.5097	mg/L	0.00040	0.08%
Mo 202.031†	11695.8	0.4962	mg/L	0.00052	0.4962	mg/L	0.00052	0.10%
Na 589.592†	143011.2	26.13	mg/L	0.222	26.13	mg/L	0.222	0.85%
Ni 231.604†	22484.5	0.5036	mg/L	0.00046	0.5036	mg/L	0.00046	0.09%
P 214.914†	8854.7	5.584	mg/L	0.0081	5.584	mg/L	0.0081	0.14%
Pb 220.353†	7162.3	0.5059	mg/L	0.00228	0.5059	mg/L	0.00228	0.45%
Sb 206.836†	1076.2	0.5072	mg/L	0.00307	0.5072	mg/L	0.00307	0.61%

Se 196.026†	1469.3	1.012 mg/L	0.0013	1.012 mg/L	0.0013	0.13%
Sn 189.927†	3415.9	0.5073 mg/L	0.00182	0.5073 mg/L	0.00182	0.36%
Sr 407.771†	42098.5	0.0495 mg/L	0.00033	0.0495 mg/L	0.00033	0.66%
Ti 337.279†	420658.2	0.4959 mg/L	0.00023	0.4959 mg/L	0.00023	0.05%
Tl 190.801†	518.7	0.5017 mg/L	0.00075	0.5017 mg/L	0.00075	0.15%
V 292.402†	109290.4	0.5093 mg/L	0.00017	0.5093 mg/L	0.00017	0.03%
Zn 213.857†	69986.7	0.5134 mg/L	0.00150	0.5134 mg/L	0.00150	0.29%

Sequence No.: 104

Sample ID: CG30508-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 89

Date Collected: 7/5/2013 8:44:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30508-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	839.9	912.6	0.5099 mg/L	0.5099 mg/L	20:46:04
1	Fe 234.349†	3514.2	3784.7	2.519 mg/L	2.519 mg/L	20:46:04
1	K 766.490†	45058.1	47794.6	26.22 mg/L	26.22 mg/L	20:45:54
1	Li 670.784†	17381.2	18987.9	0.5264 mg/L	0.5264 mg/L	20:45:54
1	Na 589.592†	133310.1	143346.3	26.19 mg/L	26.19 mg/L	20:45:54
1	Sr 407.771†	38920.1	41919.7	0.0492 mg/L	0.0492 mg/L	20:45:54
1	Y 371.029	2503547.3	2503547.3	0.927 mg/L		20:46:22
1	Ag 328.068†	42951.5	44474.5	0.2484 mg/L	0.2484 mg/L	20:46:22
1	Al 237.313†	20985.4	23071.2	2.569 mg/L	2.569 mg/L	20:46:32
1	As 188.979†	622.8	678.6	0.4975 mg/L	0.4975 mg/L	20:46:32
1	B 182.528†	445.2	489.9	0.5257 mg/L	0.5257 mg/L	20:46:32
1	Ba 233.527†	52908.5	57179.1	0.5013 mg/L	0.5013 mg/L	20:46:22
1	Be 313.107†	107118.2	117006.0	0.0518 mg/L	0.0518 mg/L	20:46:22
1	Ca 315.887†	422321.0	457510.6	5.024 mg/L	5.024 mg/L	20:46:22
1	Cd 228.802†	7781.3	8236.1	0.2582 mg/L	0.2582 mg/L	20:46:32
1	Co 228.616†	23401.7	25489.5	0.5092 mg/L	0.5092 mg/L	20:46:32
1	Cr 267.716†	54202.7	57912.2	0.5086 mg/L	0.5086 mg/L	20:46:22
1	Cu 324.752†	91765.1	94200.9	0.5114 mg/L	0.5114 mg/L	20:46:22
1	Mg 279.077†	56398.6	60844.1	4.929 mg/L	4.929 mg/L	20:46:22
1	Mn 257.610†	430482.9	448368.3	0.5780 mg/L	0.5780 mg/L	20:46:22
1	Mn 294.920†	202328.3	219620.9	0.5743 mg/L	0.5743 mg/L	20:46:22
1	Mo 202.031†	11056.1	11892.4	0.5046 mg/L	0.5046 mg/L	20:46:32
1	Ni 231.604†	21165.0	22676.5	0.5079 mg/L	0.5079 mg/L	20:46:22
1	P 214.914†	8112.6	8779.7	5.537 mg/L	5.537 mg/L	20:46:32
1	Pb 220.353†	7014.0	7385.2	0.5216 mg/L	0.5216 mg/L	20:46:32
1	Sb 206.836†	1058.0	1093.6	0.5154 mg/L	0.5154 mg/L	20:46:32
1	Se 196.026†	1390.7	1489.5	1.025 mg/L	1.025 mg/L	20:46:32
1	Sn 189.927†	3245.2	3471.8	0.5156 mg/L	0.5156 mg/L	20:46:32
1	Ti 337.279†	391519.7	423023.9	0.4987 mg/L	0.4987 mg/L	20:46:22
1	Tl 190.801†	485.8	528.9	0.5117 mg/L	0.5117 mg/L	20:46:32
1	V 292.402†	101849.0	110231.4	0.5137 mg/L	0.5137 mg/L	20:46:22
1	Zn 213.857†	65759.6	69801.6	0.5120 mg/L	0.5120 mg/L	20:46:22
2	B 249.677†	840.2	910.6	0.5088 mg/L	0.5088 mg/L	20:46:16
2	Fe 234.349†	3518.1	3778.8	2.515 mg/L	2.515 mg/L	20:46:16
2	K 766.490†	44642.2	47219.0	25.91 mg/L	25.91 mg/L	20:46:06
2	Li 670.784†	17278.0	18827.4	0.5219 mg/L	0.5219 mg/L	20:46:06
2	Na 589.592†	132306.3	141887.4	25.93 mg/L	25.93 mg/L	20:46:06
2	Sr 407.771†	38562.4	41424.2	0.0487 mg/L	0.0487 mg/L	20:46:06
2	Y 371.029	2510158.7	2510158.7	0.929 mg/L		20:46:35
2	Ag 328.068†	43011.3	44416.8	0.2481 mg/L	0.2481 mg/L	20:46:35
2	Al 237.313†	20915.8	22936.7	2.554 mg/L	2.554 mg/L	20:46:46
2	As 188.979†	624.3	678.5	0.4974 mg/L	0.4974 mg/L	20:46:46
2	B 182.528†	440.0	483.1	0.5184 mg/L	0.5184 mg/L	20:46:46
2	Ba 233.527†	53029.7	57159.2	0.5011 mg/L	0.5011 mg/L	20:46:35
2	Be 313.107†	107316.2	116914.7	0.0517 mg/L	0.0517 mg/L	20:46:35
2	Ca 315.887†	422259.3	456244.2	5.010 mg/L	5.010 mg/L	20:46:35
2	Cd 228.802†	7741.8	8171.5	0.2561 mg/L	0.2561 mg/L	20:46:46
2	Co 228.616†	23312.0	25326.4	0.5059 mg/L	0.5059 mg/L	20:46:46
2	Cr 267.716†	54314.2	57878.1	0.5083 mg/L	0.5083 mg/L	20:46:35
2	Cu 324.752†	91909.7	94095.8	0.5109 mg/L	0.5109 mg/L	20:46:35
2	Mg 279.077†	56466.9	60757.2	4.922 mg/L	4.922 mg/L	20:46:35
2	Mn 257.610†	430487.3	447149.8	0.5764 mg/L	0.5764 mg/L	20:46:35
2	Mn 294.920†	202192.3	218899.6	0.5724 mg/L	0.5724 mg/L	20:46:35
2	Mo 202.031†	11017.3	11819.2	0.5015 mg/L	0.5015 mg/L	20:46:46

2	Ni 231.604†	21063.3	22506.9	0.5041 mg/L	0.5041 mg/L	20:46:35
2	P 214.914†	8052.9	8692.4	5.482 mg/L	5.482 mg/L	20:46:46
2	Pb 220.353†	6924.1	7268.5	0.5134 mg/L	0.5134 mg/L	20:46:46
2	Sb 206.836†	1054.8	1087.2	0.5124 mg/L	0.5124 mg/L	20:46:46
2	Se 196.026†	1405.5	1501.5	1.034 mg/L	1.034 mg/L	20:46:46
2	Sn 189.927†	3249.0	3466.7	0.5148 mg/L	0.5148 mg/L	20:46:46
2	Ti 337.279†	392078.9	422513.1	0.4981 mg/L	0.4981 mg/L	20:46:35
2	Tl 190.801†	482.5	523.9	0.5068 mg/L	0.5068 mg/L	20:46:46
2	V 292.402†	101996.4	110100.7	0.5130 mg/L	0.5130 mg/L	20:46:35
2	Zn 213.857†	65808.5	69667.2	0.5110 mg/L	0.5110 mg/L	20:46:35

Mean Data: CG30508-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2506853.0	0.928	mg/L	0.0017			0.19%
Ag 328.068†	44445.7	0.2482	mg/L	0.00023	0.2482 mg/L	0.00023	0.09%
Al 237.313†	23003.9	2.561	mg/L	0.0105	2.561 mg/L	0.0105	0.41%
As 188.979†	678.5	0.4975	mg/L	0.00007	0.4975 mg/L	0.00007	0.01%
B 249.677†	911.6	0.5093	mg/L	0.00078	0.5093 mg/L	0.00078	0.15%
B 182.528†	486.5	0.5221	mg/L	0.00519	0.5221 mg/L	0.00519	0.99%
Ba 233.527†	57169.1	0.5012	mg/L	0.00012	0.5012 mg/L	0.00012	0.02%
Be 313.107†	116960.4	0.0518	mg/L	0.00003	0.0518 mg/L	0.00003	0.05%
Ca 315.887†	456877.4	5.017	mg/L	0.0098	5.017 mg/L	0.0098	0.19%
Cd 228.802†	8203.8	0.2572	mg/L	0.00143	0.2572 mg/L	0.00143	0.55%
Co 228.616†	25407.9	0.5076	mg/L	0.00231	0.5076 mg/L	0.00231	0.45%
Cr 267.716†	57895.1	0.5084	mg/L	0.00021	0.5084 mg/L	0.00021	0.04%
Cu 324.752†	94148.4	0.5111	mg/L	0.00040	0.5111 mg/L	0.00040	0.08%
Fe 234.349†	3781.7	2.517	mg/L	0.0027	2.517 mg/L	0.0027	0.11%
K 766.490†	47506.8	26.06	mg/L	0.222	26.06 mg/L	0.222	0.85%
Li 670.784†	18907.7	0.5242	mg/L	0.00312	0.5242 mg/L	0.00312	0.60%
Mg 279.077†	60800.7	4.926	mg/L	0.0050	4.926 mg/L	0.0050	0.10%
Mn 257.610†	447759.0	0.5772	mg/L	0.00111	0.5772 mg/L	0.00111	0.19%
Mn 294.920†	219260.3	0.5733	mg/L	0.00133	0.5733 mg/L	0.00133	0.23%
Mo 202.031†	11855.8	0.5030	mg/L	0.00220	0.5030 mg/L	0.00220	0.44%
Na 589.592†	142616.9	26.06	mg/L	0.188	26.06 mg/L	0.188	0.72%
Ni 231.604†	22591.7	0.5060	mg/L	0.00268	0.5060 mg/L	0.00268	0.53%
P 214.914†	8736.0	5.510	mg/L	0.0386	5.510 mg/L	0.0386	0.70%
Pb 220.353†	7326.8	0.5175	mg/L	0.00583	0.5175 mg/L	0.00583	1.13%
Sb 206.836†	1090.4	0.5139	mg/L	0.00214	0.5139 mg/L	0.00214	0.42%
Se 196.026†	1495.5	1.030	mg/L	0.0058	1.030 mg/L	0.0058	0.56%
Sn 189.927†	3469.3	0.5152	mg/L	0.00054	0.5152 mg/L	0.00054	0.10%
Sr 407.771†	41671.9	0.0490	mg/L	0.00041	0.0490 mg/L	0.00041	0.83%
Ti 337.279†	422768.5	0.4984	mg/L	0.00042	0.4984 mg/L	0.00042	0.08%
Tl 190.801†	526.4	0.5093	mg/L	0.00342	0.5093 mg/L	0.00342	0.67%
V 292.402†	110166.1	0.5134	mg/L	0.00045	0.5134 mg/L	0.00045	0.09%
Zn 213.857†	69734.4	0.5115	mg/L	0.00068	0.5115 mg/L	0.00068	0.13%

Sequence No.: 105

Sample ID: 1307080-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 90

Date Collected: 7/5/2013 8:48:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307080-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	91.7	105.1	0.0598 mg/L	0.0598 mg/L	20:50:13
1	Fe 234.349†	3832.2	4112.4	2.735 mg/L	2.735 mg/L	20:50:13
1	K 766.490†	8678.5	8510.7	4.813 mg/L	4.813 mg/L	20:50:03
1	Li 670.784†	-256.7	-40.4	0.0033 mg/L	0.0033 mg/L	20:50:03
1	Na 589.592†	386786.5	415276.9	75.67 mg/L	75.67 mg/L	20:50:03
1	Sr 407.771†	92092.2	98919.3	0.1157 mg/L	0.1157 mg/L	20:50:03
1	Y 371.029	2512826.1	2512826.1	0.930 mg/L		20:50:29
1	Ag 328.068†	1742.1	7.4	0.0019 mg/L	0.0019 mg/L	20:50:31
1	Al 237.313†	5598.6	6448.3	0.7270 mg/L	0.7270 mg/L	20:50:31
1	As 188.979†	2.0	8.8	0.0108 mg/L	0.0108 mg/L	20:50:41
1	B 182.528†	41.8	54.5	0.0584 mg/L	0.0584 mg/L	20:50:41
1	Ba 233.527†	8960.0	9728.1	0.0879 mg/L	0.0879 mg/L	20:50:41
1	Be 313.107†	-1261.8	81.7	0.0004 mg/L	0.0004 mg/L	20:50:31
1	Ca 315.887†	944656.8	1017286.7	11.12 mg/L	11.12 mg/L	20:50:29

1	Cd	228.802†	171.8	25.7	0.0018	mg/L	0.0018	mg/L	20:50:41
1	Co	228.616†	-66.8	170.0	0.0034	mg/L	0.0034	mg/L	20:50:41
1	Cr	267.716†	812.8	307.4	0.0061	mg/L	0.0061	mg/L	20:50:41
1	Cu	324.752†	8773.5	4627.8	0.0293	mg/L	0.0293	mg/L	20:50:31
1	Mg	279.077†	15047.2	16170.8	1.328	mg/L	1.328	mg/L	20:50:31
1	Mn	257.610†	69465.5	58595.9	0.0765	mg/L	0.0765	mg/L	20:50:31
1	Mn	294.920†	25665.7	28920.3	0.0769	mg/L	0.0769	mg/L	20:50:31
1	Mo	202.031†	117.9	90.9	0.0058	mg/L	0.0058	mg/L	20:50:41
1	Ni	231.604†	412.2	285.1	0.0080	mg/L	0.0080	mg/L	20:50:41
1	P	214.914†	1280.3	1403.3	0.9254	mg/L	0.9254	mg/L	20:50:41
1	Pb	220.353†	471.4	324.6	0.0226	mg/L	0.0226	mg/L	20:50:41
1	Sb	206.836†	94.0	53.2	0.0283	mg/L	0.0283	mg/L	20:50:41
1	Se	196.026†	17.3	7.7	0.0097	mg/L	0.0097	mg/L	20:50:41
1	Sn	189.927†	-113.8	-151.6	-0.0170	mg/L	-0.0170	mg/L	20:50:41
1	Ti	337.279†	15462.0	17239.9	0.0250	mg/L	0.0250	mg/L	20:50:31
1	Tl	190.801†	2.2	7.2	0.0067	mg/L	0.0067	mg/L	20:50:41
1	V	292.402†	200.3	563.5	0.0071	mg/L	0.0071	mg/L	20:50:31
1	Zn	213.857†	13609.3	13483.2	0.1017	mg/L	0.1017	mg/L	20:50:31
2	B	249.677†	89.1	103.6	0.0589	mg/L	0.0589	mg/L	20:50:25
2	Fe	234.349†	3771.9	4104.3	2.729	mg/L	2.729	mg/L	20:50:25
2	K	766.490†	8806.0	8779.8	4.959	mg/L	4.959	mg/L	20:50:15
2	Li	670.784†	-182.9	36.3	0.0054	mg/L	0.0054	mg/L	20:50:15
2	Na	589.592†	394065.0	429011.5	78.17	mg/L	78.17	mg/L	20:50:15
2	Sr	407.771†	94009.7	102390.6	0.1198	mg/L	0.1198	mg/L	20:50:15
2	Y	371.029	2478242.5	2478242.5	0.918	mg/L			20:50:44
2	Ag	328.068†	1807.8	105.1	0.0024	mg/L	0.0024	mg/L	20:50:46
2	Al	237.313†	5556.7	6486.7	0.7312	mg/L	0.7312	mg/L	20:50:46
2	As	188.979†	6.7	14.0	0.0145	mg/L	0.0145	mg/L	20:50:56
2	B	182.528†	38.3	51.3	0.0549	mg/L	0.0549	mg/L	20:50:56
2	Ba	233.527†	8967.5	9870.7	0.0891	mg/L	0.0891	mg/L	20:50:56
2	Be	313.107†	-1273.1	50.4	0.0004	mg/L	0.0004	mg/L	20:50:46
2	Ca	315.887†	928239.7	1013563.6	11.08	mg/L	11.08	mg/L	20:50:44
2	Cd	228.802†	172.4	28.8	0.0019	mg/L	0.0019	mg/L	20:50:56
2	Co	228.616†	-58.0	178.5	0.0035	mg/L	0.0035	mg/L	20:50:56
2	Cr	267.716†	808.5	314.9	0.0061	mg/L	0.0061	mg/L	20:50:56
2	Cu	324.752†	8845.1	4837.3	0.0305	mg/L	0.0305	mg/L	20:50:46
2	Mg	279.077†	15177.2	16538.2	1.358	mg/L	1.358	mg/L	20:50:46
2	Mn	257.610†	69890.2	60100.8	0.0784	mg/L	0.0784	mg/L	20:50:46
2	Mn	294.920†	25896.0	29556.4	0.0786	mg/L	0.0786	mg/L	20:50:46
2	Mo	202.031†	127.0	102.5	0.0063	mg/L	0.0063	mg/L	20:50:56
2	Ni	231.604†	410.6	289.5	0.0081	mg/L	0.0081	mg/L	20:50:56
2	P	214.914†	1288.4	1431.3	0.9429	mg/L	0.9429	mg/L	20:50:56
2	Pb	220.353†	449.0	307.3	0.0214	mg/L	0.0214	mg/L	20:50:56
2	Sb	206.836†	102.7	64.1	0.0334	mg/L	0.0334	mg/L	20:50:56
2	Se	196.026†	14.1	4.5	0.0076	mg/L	0.0076	mg/L	20:50:56
2	Sn	189.927†	-135.4	-176.9	-0.0207	mg/L	-0.0207	mg/L	20:50:56
2	Ti	337.279†	15683.2	17712.9	0.0256	mg/L	0.0256	mg/L	20:50:46
2	Tl	190.801†	-0.4	4.3	0.0040	mg/L	0.0040	mg/L	20:50:56
2	V	292.402†	46.2	398.6	0.0064	mg/L	0.0064	mg/L	20:50:46
2	Zn	213.857†	13738.4	13828.1	0.1042	mg/L	0.1042	mg/L	20:50:46

Mean Data: 1307080-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2495534.3	0.924 mg/L	0.0091			0.98%
Ag 328.068†	56.3	0.0022 mg/L	0.00038	0.0022 mg/L	0.00038	17.76%
Al 237.313†	6467.5	0.7291 mg/L	0.00300	0.7291 mg/L	0.00300	0.41%
As 188.979†	11.4	0.0126 mg/L	0.00267	0.0126 mg/L	0.00267	21.10%
B 249.677†	104.4	0.0594 mg/L	0.00057	0.0594 mg/L	0.00057	0.96%
B 182.528†	52.9	0.0566 mg/L	0.00246	0.0566 mg/L	0.00246	4.34%
Ba 233.527†	9799.4	0.0885 mg/L	0.00088	0.0885 mg/L	0.00088	0.99%
Be 313.107†	66.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.42%
Ca 315.887†	1015425.1	11.10 mg/L	0.029	11.10 mg/L	0.029	0.26%
Cd 228.802†	27.2	0.0018 mg/L	0.00007	0.0018 mg/L	0.00007	3.87%
Co 228.616†	174.2	0.0035 mg/L	0.00012	0.0035 mg/L	0.00012	3.49%
Cr 267.716†	311.2	0.0061 mg/L	0.00005	0.0061 mg/L	0.00005	0.76%
Cu 324.752†	4732.6	0.0299 mg/L	0.00080	0.0299 mg/L	0.00080	2.67%
Fe 234.349†	4108.3	2.732 mg/L	0.0038	2.732 mg/L	0.0038	0.14%
K 766.490†	8645.2	4.886 mg/L	0.1037	4.886 mg/L	0.1037	2.12%
Li 670.784†	-2.0	0.0044 mg/L	0.00149	0.0044 mg/L	0.00149	33.91%
Mg 279.077†	16354.5	1.343 mg/L	0.0209	1.343 mg/L	0.0209	1.56%
Mn 257.610†	59348.4	0.0774 mg/L	0.00137	0.0774 mg/L	0.00137	1.77%

Mn 294.920†	29238.3	0.0778 mg/L	0.00117	0.0778 mg/L	0.00117	1.51%
Mo 202.031†	96.7	0.0060 mg/L	0.00035	0.0060 mg/L	0.00035	5.73%
Na 589.592†	422144.2	76.92 mg/L	1.767	76.92 mg/L	1.767	2.30%
Ni 231.604†	287.3	0.0080 mg/L	0.00007	0.0080 mg/L	0.00007	0.87%
P 214.914†	1417.3	0.9342 mg/L	0.01238	0.9342 mg/L	0.01238	1.32%
Pb 220.353†	316.0	0.0220 mg/L	0.00086	0.0220 mg/L	0.00086	3.93%
Sb 206.836†	58.6	0.0309 mg/L	0.00363	0.0309 mg/L	0.00363	11.75%
Se 196.026†	6.1	0.0087 mg/L	0.00153	0.0087 mg/L	0.00153	17.67%
Sn 189.927†	-164.3	-0.0189 mg/L	0.00266	-0.0189 mg/L	0.00266	14.11%
Sr 407.771†	100654.9	0.1177 mg/L	0.00286	0.1177 mg/L	0.00286	2.43%
Ti 337.279†	17476.4	0.0253 mg/L	0.00039	0.0253 mg/L	0.00039	1.54%
Tl 190.801†	5.8	0.0053 mg/L	0.00197	0.0053 mg/L	0.00197	36.82%
V 292.402†	481.1	0.0067 mg/L	0.00053	0.0067 mg/L	0.00053	7.84%
Zn 213.857†	13655.6	0.1030 mg/L	0.00179	0.1030 mg/L	0.00179	1.74%

Sequence No.: 106
Sample ID: CG30508-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 91
Date Collected: 7/5/2013 8:52:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	82.3	96.3	0.0549	mg/L	0.0549	mg/L	20:54:26
1	Fe 234.349†	3829.7	4175.1	2.776	mg/L	2.776	mg/L	20:54:26
1	K 766.490†	8645.5	8622.7	4.874	mg/L	4.874	mg/L	20:54:16
1	Li 670.784†	-83.0	145.0	0.0084	mg/L	0.0084	mg/L	20:54:16
1	Na 589.592†	389566.6	424913.6	77.42	mg/L	77.42	mg/L	20:54:16
1	Sr 407.771†	92653.8	101103.9	0.1183	mg/L	0.1183	mg/L	20:54:16
1	Y 371.029	2473553.8	2473553.8	0.916	mg/L			20:54:42
1	Ag 328.068†	1764.6	61.8	0.0022	mg/L	0.0022	mg/L	20:54:44
1	Al 237.313†	5525.1	6463.6	0.7287	mg/L	0.7287	mg/L	20:54:44
1	As 188.979†	12.9	20.7	0.0194	mg/L	0.0194	mg/L	20:54:55
1	B 182.528†	36.5	49.4	0.0529	mg/L	0.0529	mg/L	20:54:55
1	Ba 233.527†	8942.7	9862.1	0.0891	mg/L	0.0891	mg/L	20:54:55
1	Be 313.107†	-1103.2	233.4	0.0005	mg/L	0.0005	mg/L	20:54:44
1	Ca 315.887†	928924.3	1016228.9	11.11	mg/L	11.11	mg/L	20:54:42
1	Cd 228.802†	167.2	23.5	0.0017	mg/L	0.0017	mg/L	20:54:55
1	Co 228.616†	-35.0	203.6	0.0040	mg/L	0.0040	mg/L	20:54:55
1	Cr 267.716†	788.1	294.4	0.0060	mg/L	0.0060	mg/L	20:54:55
1	Cu 324.752†	8802.4	4809.0	0.0303	mg/L	0.0303	mg/L	20:54:44
1	Mg 279.077†	15061.5	16443.2	1.350	mg/L	1.350	mg/L	20:54:44
1	Mn 257.610†	54679.4	43635.5	0.0572	mg/L	0.0572	mg/L	20:54:44
1	Mn 294.920†	18494.9	21528.1	0.0577	mg/L	0.0577	mg/L	20:54:44
1	Mo 202.031†	97.2	70.2	0.0049	mg/L	0.0049	mg/L	20:54:55
1	Ni 231.604†	422.1	302.8	0.0084	mg/L	0.0084	mg/L	20:54:55
1	P 214.914†	1421.0	1578.7	1.035	mg/L	1.035	mg/L	20:54:55
1	Pb 220.353†	488.6	351.4	0.0245	mg/L	0.0245	mg/L	20:54:55
1	Sb 206.836†	96.1	57.1	0.0301	mg/L	0.0301	mg/L	20:54:55
1	Se 196.026†	12.0	2.2	0.0060	mg/L	0.0060	mg/L	20:54:55
1	Sn 189.927†	-117.0	-157.0	-0.0178	mg/L	-0.0178	mg/L	20:54:55
1	Ti 337.279†	16358.2	18482.4	0.0265	mg/L	0.0265	mg/L	20:54:44
1	Tl 190.801†	-0.3	4.5	0.0041	mg/L	0.0041	mg/L	20:54:55
1	V 292.402†	2.7	351.3	0.0061	mg/L	0.0061	mg/L	20:54:44
1	Zn 213.857†	13660.1	13771.0	0.1038	mg/L	0.1038	mg/L	20:54:44
2	B 249.677†	75.2	87.0	0.0497	mg/L	0.0497	mg/L	20:54:38
2	Fe 234.349†	3806.1	4069.3	2.706	mg/L	2.706	mg/L	20:54:38
2	K 766.490†	8803.6	8610.2	4.867	mg/L	4.867	mg/L	20:54:28
2	Li 670.784†	-38.8	194.1	0.0098	mg/L	0.0098	mg/L	20:54:28
2	Na 589.592†	395062.0	422607.4	77.00	mg/L	77.00	mg/L	20:54:28
2	Sr 407.771†	94196.0	100807.6	0.1179	mg/L	0.1179	mg/L	20:54:28
2	Y 371.029	2522120.1	2522120.1	0.934	mg/L			20:54:57
2	Ag 328.068†	1784.3	45.7	0.0021	mg/L	0.0021	mg/L	20:54:59
2	Al 237.313†	5474.1	6292.8	0.7098	mg/L	0.7098	mg/L	20:54:59
2	As 188.979†	6.0	13.1	0.0139	mg/L	0.0139	mg/L	20:55:09
2	B 182.528†	38.1	50.3	0.0539	mg/L	0.0539	mg/L	20:55:09
2	Ba 233.527†	8908.2	9637.2	0.0871	mg/L	0.0871	mg/L	20:55:09
2	Be 313.107†	-1229.8	121.0	0.0004	mg/L	0.0004	mg/L	20:54:59
2	Ca 315.887†	950787.7	1020110.7	11.15	mg/L	11.15	mg/L	20:54:57
2	Cd 228.802†	168.3	21.2	0.0016	mg/L	0.0016	mg/L	20:55:09

2	Co	228.616†	-79.7	156.5	0.0031	mg/L	0.0031	mg/L	20:55:09
2	Cr	267.716†	772.4	261.0	0.0057	mg/L	0.0057	mg/L	20:55:09
2	Cu	324.752†	8714.9	4530.3	0.0288	mg/L	0.0288	mg/L	20:54:59
2	Mg	279.077†	14776.5	15821.3	1.300	mg/L	1.300	mg/L	20:54:59
2	Mn	257.610†	54135.4	41903.2	0.0550	mg/L	0.0550	mg/L	20:54:59
2	Mn	294.920†	18286.4	20916.0	0.0561	mg/L	0.0561	mg/L	20:54:59
2	Mo	202.031†	100.8	72.0	0.0050	mg/L	0.0050	mg/L	20:55:09
2	Ni	231.604†	408.4	279.4	0.0079	mg/L	0.0079	mg/L	20:55:09
2	P	214.914†	1399.8	1526.2	1.002	mg/L	1.002	mg/L	20:55:09
2	Pb	220.353†	464.8	315.7	0.0220	mg/L	0.0220	mg/L	20:55:09
2	Sb	206.836†	92.9	51.7	0.0276	mg/L	0.0276	mg/L	20:55:09
2	Se	196.026†	9.1	-1.1	0.0037	mg/L	0.0037	mg/L	20:55:09
2	Sn	189.927†	-118.8	-156.5	-0.0177	mg/L	-0.0177	mg/L	20:55:09
2	Ti	337.279†	16204.9	17974.3	0.0259	mg/L	0.0259	mg/L	20:54:59
2	Tl	190.801†	-2.9	1.6	0.0013	mg/L	0.0013	mg/L	20:55:09
2	V	292.402†	216.6	580.2	0.0072	mg/L	0.0072	mg/L	20:54:59
2	Zn	213.857†	13538.1	13353.0	0.1007	mg/L	0.1007	mg/L	20:54:59

Mean Data: CG30508-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2497837.0	0.925	mg/L	0.0127				1.37%
Ag 328.068†	53.7	0.0021	mg/L	0.00006	0.0021	mg/L	0.00006	2.99%
Al 237.313†	6378.2	0.7192	mg/L	0.01337	0.7192	mg/L	0.01337	1.86%
As 188.979†	16.9	0.0167	mg/L	0.00391	0.0167	mg/L	0.00391	23.48%
B 249.677†	91.7	0.0523	mg/L	0.00365	0.0523	mg/L	0.00365	6.99%
B 182.528†	49.9	0.0534	mg/L	0.00072	0.0534	mg/L	0.00072	1.34%
Ba 233.527†	9749.7	0.0881	mg/L	0.00139	0.0881	mg/L	0.00139	1.57%
Be 313.107†	177.2	0.0005	mg/L	0.00003	0.0005	mg/L	0.00003	7.69%
Ca 315.887†	1018169.8	11.13	mg/L	0.030	11.13	mg/L	0.030	0.27%
Cd 228.802†	22.4	0.0017	mg/L	0.00005	0.0017	mg/L	0.00005	2.98%
Co 228.616†	180.0	0.0036	mg/L	0.00067	0.0036	mg/L	0.00067	18.67%
Cr 267.716†	277.7	0.0058	mg/L	0.00021	0.0058	mg/L	0.00021	3.54%
Cu 324.752†	4669.6	0.0296	mg/L	0.00106	0.0296	mg/L	0.00106	3.59%
Fe 234.349†	4122.2	2.741	mg/L	0.0499	2.741	mg/L	0.0499	1.82%
K 766.490†	8616.5	4.870	mg/L	0.0048	4.870	mg/L	0.0048	0.10%
Li 670.784†	169.5	0.0091	mg/L	0.00095	0.0091	mg/L	0.00095	10.46%
Mg 279.077†	16132.3	1.325	mg/L	0.0354	1.325	mg/L	0.0354	2.67%
Mn 257.610†	42769.3	0.0561	mg/L	0.00156	0.0561	mg/L	0.00156	2.79%
Mn 294.920†	21222.0	0.0569	mg/L	0.00113	0.0569	mg/L	0.00113	1.99%
Mo 202.031†	71.1	0.0050	mg/L	0.00007	0.0050	mg/L	0.00007	1.34%
Na 589.592†	423760.5	77.21	mg/L	0.297	77.21	mg/L	0.297	0.38%
Ni 231.604†	291.1	0.0081	mg/L	0.00037	0.0081	mg/L	0.00037	4.56%
P 214.914†	1552.5	1.019	mg/L	0.0232	1.019	mg/L	0.0232	2.28%
Pb 220.353†	333.6	0.0232	mg/L	0.00178	0.0232	mg/L	0.00178	7.65%
Sb 206.836†	54.4	0.0289	mg/L	0.00179	0.0289	mg/L	0.00179	6.19%
Se 196.026†	0.5	0.0049	mg/L	0.00162	0.0049	mg/L	0.00162	33.43%
Sn 189.927†	-156.8	-0.0177	mg/L	0.00008	-0.0177	mg/L	0.00008	0.44%
Sr 407.771†	100955.7	0.1181	mg/L	0.00024	0.1181	mg/L	0.00024	0.21%
Ti 337.279†	18228.3	0.0262	mg/L	0.00042	0.0262	mg/L	0.00042	1.60%
Tl 190.801†	3.1	0.0027	mg/L	0.00195	0.0027	mg/L	0.00195	71.65%
V 292.402†	465.7	0.0066	mg/L	0.00074	0.0066	mg/L	0.00074	11.12%
Zn 213.857†	13562.0	0.1023	mg/L	0.00217	0.1023	mg/L	0.00217	2.12%

Sequence No.: 107

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 8:56:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	B 249.677†	797.2	875.3	0.4891 mg/L	0.4891 mg/L	20:58:38
1	Fe 234.349†	3384.5	3681.8	2.451 mg/L	2.451 mg/L	20:58:38
1	K 766.490†	43570.8	46667.4	25.61 mg/L	25.61 mg/L	20:58:28
1	Li 670.784†	16705.2	18441.7	0.5113 mg/L	0.5113 mg/L	20:58:28
1	Na 589.592†	129797.1	140978.4	25.76 mg/L	25.76 mg/L	20:58:28
1	Sr 407.771†	38761.5	42173.2	0.0495 mg/L	0.0495 mg/L	20:58:28
1	Y 371.029	2478376.7	2478376.7	0.918 mg/L		20:58:55

1	Ag 328.068†	43664.1	45721.8	0.2553 mg/L	0.2553 mg/L	20:58:57
1	Al 237.313†	19876.1	22092.2	2.460 mg/L	2.460 mg/L	20:58:57
1	As 188.979†	612.8	674.5	0.4946 mg/L	0.4946 mg/L	20:59:07
1	B 182.528†	416.2	463.2	0.4970 mg/L	0.4970 mg/L	20:59:07
1	Ba 233.527†	51825.8	56578.9	0.4961 mg/L	0.4961 mg/L	20:58:57
1	Be 313.107†	100413.5	110872.7	0.0491 mg/L	0.0491 mg/L	20:58:55
1	Ca 315.887†	396479.1	433974.6	4.767 mg/L	4.767 mg/L	20:58:55
1	Cd 228.802†	7483.3	7996.5	0.2507 mg/L	0.2507 mg/L	20:59:07
1	Co 228.616†	22242.5	24482.6	0.4890 mg/L	0.4890 mg/L	20:58:57
1	Cr 267.716†	52172.4	56293.4	0.4945 mg/L	0.4945 mg/L	20:58:57
1	Cu 324.752†	88614.1	91772.3	0.4984 mg/L	0.4984 mg/L	20:58:57
1	Mg 279.077†	55375.4	60347.0	4.889 mg/L	4.889 mg/L	20:58:57
1	Mn 257.610†	370377.3	387579.6	0.4998 mg/L	0.4998 mg/L	20:58:57
1	Mn 294.920†	173238.5	190134.6	0.4974 mg/L	0.4974 mg/L	20:58:57
1	Mo 202.031†	10690.1	11614.6	0.4929 mg/L	0.4929 mg/L	20:59:07
1	Ni 231.604†	20245.4	21906.2	0.4907 mg/L	0.4907 mg/L	20:58:57
1	P 214.914†	7014.0	7671.2	4.843 mg/L	4.843 mg/L	20:59:07
1	Pb 220.353†	6573.4	6981.9	0.4931 mg/L	0.4931 mg/L	20:59:07
1	Sb 206.836†	1014.3	1057.5	0.4986 mg/L	0.4986 mg/L	20:59:07
1	Se 196.026†	1326.4	1434.7	0.9878 mg/L	0.9878 mg/L	20:59:07
1	Sn 189.927†	3120.2	3371.2	0.5005 mg/L	0.5005 mg/L	20:59:07
1	Ti 337.279†	388536.9	424063.0	0.4999 mg/L	0.4999 mg/L	20:58:57
1	Tl 190.801†	457.3	503.1	0.4867 mg/L	0.4867 mg/L	20:59:07
1	V 292.402†	99696.0	109001.0	0.5079 mg/L	0.5079 mg/L	20:58:57
1	Zn 213.857†	62313.3	66766.2	0.4898 mg/L	0.4898 mg/L	20:58:57
2	B 249.677†	803.9	879.3	0.4913 mg/L	0.4913 mg/L	20:58:51
2	Fe 234.349†	3366.8	3648.5	2.429 mg/L	2.429 mg/L	20:58:51
2	K 766.490†	43442.4	46347.4	25.43 mg/L	25.43 mg/L	20:58:41
2	Li 670.784†	16692.3	18358.3	0.5091 mg/L	0.5091 mg/L	20:58:41
2	Na 589.592†	130061.4	140727.5	25.72 mg/L	25.72 mg/L	20:58:41
2	Sr 407.771†	38963.2	42231.6	0.0496 mg/L	0.0496 mg/L	20:58:41
2	Y 371.029	2487835.9	2487835.9	0.921 mg/L		20:59:10
2	Ag 328.068†	43742.9	45626.4	0.2548 mg/L	0.2548 mg/L	20:59:12
2	Al 237.313†	20050.6	22199.3	2.472 mg/L	2.472 mg/L	20:59:12
2	As 188.979†	601.6	659.8	0.4838 mg/L	0.4838 mg/L	20:59:22
2	B 182.528†	416.5	461.8	0.4955 mg/L	0.4955 mg/L	20:59:22
2	Ba 233.527†	51783.8	56318.6	0.4938 mg/L	0.4938 mg/L	20:59:12
2	Be 313.107†	100909.0	110994.6	0.0491 mg/L	0.0491 mg/L	20:59:10
2	Ca 315.887†	397528.8	433471.4	4.762 mg/L	4.762 mg/L	20:59:10
2	Cd 228.802†	7459.4	7939.6	0.2489 mg/L	0.2489 mg/L	20:59:22
2	Co 228.616†	22268.2	24418.3	0.4878 mg/L	0.4878 mg/L	20:59:12
2	Cr 267.716†	52376.5	56298.8	0.4945 mg/L	0.4945 mg/L	20:59:12
2	Cu 324.752†	88521.8	91305.0	0.4959 mg/L	0.4959 mg/L	20:59:12
2	Mg 279.077†	55540.1	60296.3	4.885 mg/L	4.885 mg/L	20:59:12
2	Mn 257.610†	370800.3	386504.2	0.4984 mg/L	0.4984 mg/L	20:59:12
2	Mn 294.920†	173348.9	189536.7	0.4958 mg/L	0.4958 mg/L	20:59:12
2	Mo 202.031†	10659.1	11536.6	0.4896 mg/L	0.4896 mg/L	20:59:22
2	Ni 231.604†	20312.5	21895.2	0.4904 mg/L	0.4904 mg/L	20:59:12
2	P 214.914†	6980.5	7605.8	4.802 mg/L	4.802 mg/L	20:59:22
2	Pb 220.353†	6509.5	6885.2	0.4863 mg/L	0.4863 mg/L	20:59:22
2	Sb 206.836†	1009.9	1048.6	0.4944 mg/L	0.4944 mg/L	20:59:22
2	Se 196.026†	1312.7	1414.3	0.9739 mg/L	0.9739 mg/L	20:59:22
2	Sn 189.927†	3096.2	3332.2	0.4948 mg/L	0.4948 mg/L	20:59:22
2	Ti 337.279†	388314.7	422211.8	0.4977 mg/L	0.4977 mg/L	20:59:12
2	Tl 190.801†	455.9	499.8	0.4834 mg/L	0.4834 mg/L	20:59:22
2	V 292.402†	99962.3	108877.0	0.5073 mg/L	0.5073 mg/L	20:59:12
2	Zn 213.857†	62639.3	66861.8	0.4905 mg/L	0.4905 mg/L	20:59:12

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2483106.3	0.919 mg/L	0.0025			0.27%
Ag 328.068†	45674.1	0.2550 mg/L	0.00037	0.2550 mg/L	0.00037	0.15%
QC value within limits for Ag 328.068 Recovery = 102.02%						
Al 237.313†	22145.8	2.466 mg/L	0.0084	2.466 mg/L	0.0084	0.34%
QC value within limits for Al 237.313 Recovery = 98.64%						
As 188.979†	667.1	0.4892 mg/L	0.00761	0.4892 mg/L	0.00761	1.56%
QC value within limits for As 188.979 Recovery = 97.85%						
B 249.677†	877.3	0.4902 mg/L	0.00157	0.4902 mg/L	0.00157	0.32%
QC value within limits for B 249.677 Recovery = 98.05%						
B 182.528†	462.5	0.4963 mg/L	0.00106	0.4963 mg/L	0.00106	0.21%
QC value within limits for B 182.528 Recovery = 99.26%						

Ba	233.527†	56448.7	0.4949 mg/L	0.00160	0.4949 mg/L	0.00160	0.32%
	QC value within limits for Ba	233.527	Recovery =	98.99%			
Be	313.107†	110933.6	0.0491 mg/L	0.00004	0.0491 mg/L	0.00004	0.08%
	QC value within limits for Be	313.107	Recovery =	98.20%			
Ca	315.887†	433723.0	4.764 mg/L	0.0039	4.764 mg/L	0.0039	0.08%
	QC value within limits for Ca	315.887	Recovery =	95.29%			
Cd	228.802†	7968.1	0.2498 mg/L	0.00126	0.2498 mg/L	0.00126	0.50%
	QC value within limits for Cd	228.802	Recovery =	99.92%			
Co	228.616†	24450.5	0.4884 mg/L	0.00091	0.4884 mg/L	0.00091	0.19%
	QC value within limits for Co	228.616	Recovery =	97.68%			
Cr	267.716†	56296.1	0.4945 mg/L	0.00003	0.4945 mg/L	0.00003	0.01%
	QC value within limits for Cr	267.716	Recovery =	98.90%			
Cu	324.752†	91538.7	0.4971 mg/L	0.00178	0.4971 mg/L	0.00178	0.36%
	QC value within limits for Cu	324.752	Recovery =	99.42%			
Fe	234.349†	3665.2	2.440 mg/L	0.0157	2.440 mg/L	0.0157	0.64%
	QC value within limits for Fe	234.349	Recovery =	97.59%			
K	766.490†	46507.4	25.52 mg/L	0.123	25.52 mg/L	0.123	0.48%
	QC value within limits for K	766.490	Recovery =	102.08%			
Li	670.784†	18400.0	0.5102 mg/L	0.00162	0.5102 mg/L	0.00162	0.32%
	QC value within limits for Li	670.784	Recovery =	102.04%			
Mg	279.077†	60321.6	4.887 mg/L	0.0029	4.887 mg/L	0.0029	0.06%
	QC value within limits for Mg	279.077	Recovery =	97.74%			
Mn	257.610†	387041.9	0.4991 mg/L	0.00097	0.4991 mg/L	0.00097	0.20%
	QC value within limits for Mn	257.610	Recovery =	99.82%			
Mn	294.920†	189835.7	0.4966 mg/L	0.00110	0.4966 mg/L	0.00110	0.22%
	QC value within limits for Mn	294.920	Recovery =	99.32%			
Mo	202.031†	11575.6	0.4912 mg/L	0.00233	0.4912 mg/L	0.00233	0.47%
	QC value within limits for Mo	202.031	Recovery =	98.24%			
Na	589.592†	140853.0	25.74 mg/L	0.032	25.74 mg/L	0.032	0.13%
	QC value within limits for Na	589.592	Recovery =	102.96%			
Ni	231.604†	21900.7	0.4906 mg/L	0.00018	0.4906 mg/L	0.00018	0.04%
	QC value within limits for Ni	231.604	Recovery =	98.11%			
P	214.914†	7638.5	4.822 mg/L	0.0289	4.822 mg/L	0.0289	0.60%
	QC value within limits for P	214.914	Recovery =	96.45%			
Pb	220.353†	6933.6	0.4897 mg/L	0.00482	0.4897 mg/L	0.00482	0.98%
	QC value within limits for Pb	220.353	Recovery =	97.95%			
Sb	206.836†	1053.1	0.4965 mg/L	0.00297	0.4965 mg/L	0.00297	0.60%
	QC value within limits for Sb	206.836	Recovery =	99.30%			
Se	196.026†	1424.5	0.9809 mg/L	0.00988	0.9809 mg/L	0.00988	1.01%
	QC value within limits for Se	196.026	Recovery =	98.09%			
Sn	189.927†	3351.7	0.4976 mg/L	0.00408	0.4976 mg/L	0.00408	0.82%
	QC value within limits for Sn	189.927	Recovery =	99.53%			
Sr	407.771†	42202.4	0.0496 mg/L	0.00005	0.0496 mg/L	0.00005	0.10%
	QC value within limits for Sr	407.771	Recovery =	99.15%			
Ti	337.279†	423137.4	0.4988 mg/L	0.00153	0.4988 mg/L	0.00153	0.31%
	QC value within limits for Ti	337.279	Recovery =	99.76%			
Tl	190.801†	501.5	0.4851 mg/L	0.00228	0.4851 mg/L	0.00228	0.47%
	QC value within limits for Tl	190.801	Recovery =	97.01%			
V	292.402†	108939.0	0.5076 mg/L	0.00043	0.5076 mg/L	0.00043	0.08%
	QC value within limits for V	292.402	Recovery =	101.51%			
Zn	213.857†	66814.0	0.4902 mg/L	0.00050	0.4902 mg/L	0.00050	0.10%
	QC value within limits for Zn	213.857	Recovery =	98.03%			

All analyte(s) passed QC.

Sequence No.: 108
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 9:01:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-6.0	0.1	0.0013	mg/L	0.0013	mg/L	21:02:53
1	Fe 234.349†	13.7	7.7	0.0158	mg/L	0.0158	mg/L	21:02:53
1	K 766.490†	943.8	184.9	0.2751	mg/L	0.2751	mg/L	21:02:43
1	Li 670.784†	-294.6	-77.4	0.0023	mg/L	0.0023	mg/L	21:02:43
1	Na 589.592†	852.0	425.6	0.1907	mg/L	0.1907	mg/L	21:02:43
1	Sr 407.771†	105.2	41.2	0.0004	mg/L	0.0004	mg/L	21:02:43
1	Y 371.029	2542133.2	2542133.2	0.941	mg/L			21:03:09
1	Ag 328.068†	1549.3	-219.0	0.0006	mg/L	0.0006	mg/L	21:03:12

1	Al 237.313†	-258.6	155.6	0.0306 mg/L	0.0306 mg/L	21:03:12
1	As 188.979†	-6.7	-0.4	0.0041 mg/L	0.0041 mg/L	21:03:22
1	B 182.528†	-6.5	2.6	0.0027 mg/L	0.0027 mg/L	21:03:22
1	Ba 233.527†	-81.7	10.2	0.0032 mg/L	0.0032 mg/L	21:03:22
1	Be 313.107†	-1281.6	76.3	0.0004 mg/L	0.0004 mg/L	21:03:12
1	Ca 315.887†	-1903.1	-146.5	0.0343 mg/L	0.0343 mg/L	21:03:12
1	Cd 228.802†	154.8	5.4	0.0012 mg/L	0.0012 mg/L	21:03:22
1	Co 228.616†	-237.6	-10.6	-0.0002 mg/L	-0.0002 mg/L	21:03:22
1	Cr 267.716†	513.7	-20.5	0.0032 mg/L	0.0032 mg/L	21:03:12
1	Cu 324.752†	3981.6	-572.4	0.0013 mg/L	0.0013 mg/L	21:03:12
1	Mg 279.077†	2.1	-1.2	0.0251 mg/L	0.0251 mg/L	21:03:12
1	Mn 257.610†	14945.6	-192.7	0.0014 mg/L	0.0014 mg/L	21:03:12
1	Mn 294.920†	-1266.1	-12.9	0.0015 mg/L	0.0015 mg/L	21:03:12
1	Mo 202.031†	60.5	28.4	0.0037 mg/L	0.0037 mg/L	21:03:22
1	Ni 231.604†	157.7	9.5	0.0018 mg/L	0.0018 mg/L	21:03:12
1	P 214.914†	-20.5	5.3	0.0502 mg/L	0.0502 mg/L	21:03:22
1	Pb 220.353†	204.8	35.5	0.0024 mg/L	0.0024 mg/L	21:03:22
1	Sb 206.836†	61.1	17.1	0.0122 mg/L	0.0122 mg/L	21:03:22
1	Se 196.026†	20.6	11.0	0.0126 mg/L	0.0126 mg/L	21:03:22
1	Sn 189.927†	25.4	-2.4	-0.0017 mg/L	-0.0017 mg/L	21:03:22
1	Ti 337.279†	-780.7	-209.7	0.0047 mg/L	0.0047 mg/L	21:03:12
1	Tl 190.801†	-5.2	-0.7	0.0005 mg/L	0.0005 mg/L	21:03:22
1	V 292.402†	-232.3	101.5	0.0050 mg/L	0.0050 mg/L	21:03:12
1	Zn 213.857†	1084.8	7.2	0.0027 mg/L	0.0027 mg/L	21:03:22
2	B 249.677†	1.7	8.3	0.0059 mg/L	0.0059 mg/L	21:03:06
2	Fe 234.349†	18.4	13.1	0.0193 mg/L	0.0193 mg/L	21:03:06
2	K 766.490†	854.2	103.4	0.2307 mg/L	0.2307 mg/L	21:02:56
2	Li 670.784†	-210.5	8.6	0.0047 mg/L	0.0047 mg/L	21:02:56
2	Na 589.592†	868.4	456.8	0.1963 mg/L	0.1963 mg/L	21:02:56
2	Sr 407.771†	53.3	-13.1	0.0004 mg/L	0.0004 mg/L	21:02:56
2	Y 371.029	2504504.3	2504504.3	0.927 mg/L		21:03:24
2	Ag 328.068†	1656.6	-78.6	0.0013 mg/L	0.0013 mg/L	21:03:26
2	Al 237.313†	-365.8	35.9	0.0173 mg/L	0.0173 mg/L	21:03:26
2	As 188.979†	-3.7	2.6	0.0063 mg/L	0.0063 mg/L	21:03:37
2	B 182.528†	-8.3	0.6	0.0005 mg/L	0.0005 mg/L	21:03:37
2	Ba 233.527†	-91.2	-1.4	0.0031 mg/L	0.0031 mg/L	21:03:37
2	Be 313.107†	-1332.5	0.9	0.0004 mg/L	0.0004 mg/L	21:03:26
2	Ca 315.887†	-1913.7	-188.3	0.0339 mg/L	0.0339 mg/L	21:03:26
2	Cd 228.802†	159.0	12.4	0.0014 mg/L	0.0014 mg/L	21:03:37
2	Co 228.616†	-245.1	-22.6	-0.0004 mg/L	-0.0004 mg/L	21:03:37
2	Cr 267.716†	476.6	-52.3	0.0029 mg/L	0.0029 mg/L	21:03:26
2	Cu 324.752†	3979.8	-510.7	0.0017 mg/L	0.0017 mg/L	21:03:26
2	Mg 279.077†	133.8	140.8	0.0365 mg/L	0.0365 mg/L	21:03:26
2	Mn 257.610†	14914.5	12.3	0.0017 mg/L	0.0017 mg/L	21:03:26
2	Mn 294.920†	-1277.7	-45.7	0.0014 mg/L	0.0014 mg/L	21:03:26
2	Mo 202.031†	68.9	38.4	0.0041 mg/L	0.0041 mg/L	21:03:37
2	Ni 231.604†	145.7	-0.9	0.0016 mg/L	0.0016 mg/L	21:03:26
2	P 214.914†	-26.9	-2.0	0.0457 mg/L	0.0457 mg/L	21:03:37
2	Pb 220.353†	168.3	-0.6	-0.0002 mg/L	-0.0002 mg/L	21:03:37
2	Sb 206.836†	45.7	1.4	0.0049 mg/L	0.0049 mg/L	21:03:37
2	Se 196.026†	11.7	1.7	0.0062 mg/L	0.0062 mg/L	21:03:37
2	Sn 189.927†	29.8	2.8	-0.0010 mg/L	-0.0010 mg/L	21:03:37
2	Ti 337.279†	-448.4	136.2	0.0051 mg/L	0.0051 mg/L	21:03:26
2	Tl 190.801†	1.4	6.3	0.0072 mg/L	0.0072 mg/L	21:03:37
2	V 292.402†	-366.4	-46.8	0.0044 mg/L	0.0044 mg/L	21:03:26
2	Zn 213.857†	1026.8	-38.1	0.0024 mg/L	0.0024 mg/L	21:03:37

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2523318.8	0.934 mg/L	0.0099			1.05%
Ag 328.068†	-148.8	0.0010 mg/L	0.00055	0.0010 mg/L	0.00055	57.90%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	95.8	0.0240 mg/L	0.00937	0.0240 mg/L	0.00937	39.11%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.1	0.0052 mg/L	0.00157	0.0052 mg/L	0.00157	30.40%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	4.2	0.0036 mg/L	0.00322	0.0036 mg/L	0.00322	89.04%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	1.6	0.0016 mg/L	0.00154	0.0016 mg/L	0.00154	95.65%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	4.4	0.0032 mg/L	0.00007	0.0032 mg/L	0.00007	2.24%

Be	313.107†	38.6	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	5.91%
Ca	315.887†	-167.4	0.0341 mg/L	0.00033	0.0341 mg/L	0.00033	0.96%
Cd	228.802†	8.9	0.0013 mg/L	0.00015	0.0013 mg/L	0.00015	12.00%
Co	228.616†	-16.6	-0.0003 mg/L	0.00017	-0.0003 mg/L	0.00017	52.42%
Cr	267.716†	-36.4	0.0031 mg/L	0.00020	0.0031 mg/L	0.00020	6.37%
Cu	324.752†	-541.6	0.0015 mg/L	0.00023	0.0015 mg/L	0.00023	15.71%
Fe	234.349†	10.4	0.0175 mg/L	0.00253	0.0175 mg/L	0.00253	14.42%
K	766.490†	144.2	0.2529 mg/L	0.03141	0.2529 mg/L	0.03141	12.42%
Li	670.784†	-34.4	0.0035 mg/L	0.00167	0.0035 mg/L	0.00167	47.73%
Mg	279.077†	69.8	0.0308 mg/L	0.00809	0.0308 mg/L	0.00809	26.27%
Mn	257.610†	-90.2	0.0016 mg/L	0.00019	0.0016 mg/L	0.00019	11.83%
Mn	294.920†	-29.3	0.0014 mg/L	0.00006	0.0014 mg/L	0.00006	4.20%
Mo	202.031†	33.4	0.0039 mg/L	0.00030	0.0039 mg/L	0.00030	7.61%
Na	589.592†	441.2	0.1935 mg/L	0.00402	0.1935 mg/L	0.00402	2.08%
Ni	231.604†	4.3	0.0017 mg/L	0.00016	0.0017 mg/L	0.00016	9.53%
P	214.914†	1.6	0.0480 mg/L	0.00320	0.0480 mg/L	0.00320	6.68%
Pb	220.353†	17.5	0.0011 mg/L	0.00180	0.0011 mg/L	0.00180	165.29%
Sb	206.836†	9.3	0.0086 mg/L	0.00517	0.0086 mg/L	0.00517	60.43%
Se	196.026†	6.3	0.0094 mg/L	0.00450	0.0094 mg/L	0.00450	48.01%
Sn	189.927†	0.2	-0.0014 mg/L	0.00055	-0.0014 mg/L	0.00055	40.17%
Sr	407.771†	14.0	0.0004 mg/L	0.00004	0.0004 mg/L	0.00004	11.66%
Ti	337.279†	-36.8	0.0049 mg/L	0.00029	0.0049 mg/L	0.00029	5.88%
Tl	190.801†	2.8	0.0039 mg/L	0.00479	0.0039 mg/L	0.00479	124.08%
V	292.402†	27.3	0.0047 mg/L	0.00047	0.0047 mg/L	0.00047	10.06%
Zn	213.857†	-15.4	0.0026 mg/L	0.00023	0.0026 mg/L	0.00023	9.16%

QC Failed. Continue with analysis.

Sequence No.: 109	Autosampler Location: 92
Sample ID: CG30508-MS1	Date Collected: 7/5/2013 9:05:14 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CG30508-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	883.7	959.2	0.5358 mg/L	0.5358 mg/L	0.5358 mg/L	21:06:59
1	Fe 234.349†	6838.9	7366.5	4.891 mg/L	4.891 mg/L	4.891 mg/L	21:06:59
1	K 766.490†	50605.9	53742.2	29.46 mg/L	29.46 mg/L	29.46 mg/L	21:06:57
1	Li 670.784†	16851.0	18403.3	0.5103 mg/L	0.5103 mg/L	0.5103 mg/L	21:06:59
1	Na 589.592†	490576.8	528429.6	96.26 mg/L	96.26 mg/L	96.26 mg/L	21:06:57
1	Sr 407.771†	124820.4	134503.0	0.1572 mg/L	0.1572 mg/L	0.1572 mg/L	21:06:57
1	Y 371.029	2505279.0	2505279.0	0.928 mg/L	0.928 mg/L	0.928 mg/L	21:07:07
1	Ag 328.068†	42241.5	43677.0	0.2440 mg/L	0.2440 mg/L	0.2440 mg/L	21:07:10
1	Al 237.313†	25388.9	27803.2	3.092 mg/L	3.092 mg/L	3.092 mg/L	21:07:10

1	As	188.979†	605.0	659.0	0.4833	mg/L	0.4833	mg/L	21:07:20
1	B	182.528†	463.5	509.2	0.5465	mg/L	0.5465	mg/L	21:07:20
1	Ba	233.527†	59661.4	64420.2	0.5644	mg/L	0.5644	mg/L	21:07:10
1	Be	313.107†	102415.9	111856.4	0.0495	mg/L	0.0495	mg/L	21:07:07
1	Ca	315.887†	1300957.0	1404486.2	15.34	mg/L	15.34	mg/L	21:07:07
1	Cd	228.802†	7362.2	7778.4	0.2438	mg/L	0.2438	mg/L	21:07:20
1	Co	228.616†	22097.0	24065.4	0.4807	mg/L	0.4807	mg/L	21:07:10
1	Cr	267.716†	52487.2	56022.2	0.4921	mg/L	0.4921	mg/L	21:07:10
1	Cu	324.752†	96124.5	98832.6	0.5364	mg/L	0.5364	mg/L	21:07:10
1	Mg	279.077†	68683.7	74047.0	5.993	mg/L	5.993	mg/L	21:07:10
1	Mn	257.610†	410250.7	426234.2	0.5490	mg/L	0.5490	mg/L	21:07:10
1	Mn	294.920†	192822.7	209221.7	0.5471	mg/L	0.5471	mg/L	21:07:10
1	Mo	202.031†	10597.4	11389.5	0.4827	mg/L	0.4827	mg/L	21:07:20
1	Ni	231.604†	20370.2	21803.8	0.4884	mg/L	0.4884	mg/L	21:07:10
1	P	214.914†	8510.1	9202.1	5.801	mg/L	5.801	mg/L	21:07:10
1	Pb	220.353†	6804.1	7153.6	0.5051	mg/L	0.5051	mg/L	21:07:20
1	Sb	206.836†	1070.5	1106.3	0.5206	mg/L	0.5206	mg/L	21:07:20
1	Se	196.026†	1314.1	1405.9	0.9676	mg/L	0.9676	mg/L	21:07:20
1	Sn	189.927†	2922.4	3121.5	0.4701	mg/L	0.4701	mg/L	21:07:20
1	Ti	337.279†	395048.2	426536.1	0.5028	mg/L	0.5028	mg/L	21:07:10
1	Tl	190.801†	458.7	499.4	0.4818	mg/L	0.4818	mg/L	21:07:20
1	V	292.402†	99722.3	107862.7	0.5025	mg/L	0.5025	mg/L	21:07:10
1	Zn	213.857†	74925.4	79634.5	0.5843	mg/L	0.5843	mg/L	21:07:10
2	B	249.677†	876.1	969.8	0.5417	mg/L	0.5417	mg/L	21:07:03
2	Fe	234.349†	6831.7	7505.5	4.983	mg/L	4.983	mg/L	21:07:03
2	K	766.490†	50534.0	54749.8	30.01	mg/L	30.01	mg/L	21:07:01
2	Li	670.784†	16884.8	18802.3	0.5213	mg/L	0.5213	mg/L	21:07:03
2	Na	589.592†	489147.6	537391.8	97.89	mg/L	97.89	mg/L	21:07:01
2	Sr	407.771†	124502.6	136833.7	0.1599	mg/L	0.1599	mg/L	21:07:01
2	Y	371.029	2456358.0	2456358.0	0.909	mg/L			21:07:22
2	Ag	328.068†	42408.2	44767.3	0.2501	mg/L	0.2501	mg/L	21:07:25
2	Al	237.313†	25601.4	28582.0	3.178	mg/L	3.178	mg/L	21:07:25
2	As	188.979†	603.8	670.6	0.4917	mg/L	0.4917	mg/L	21:07:35
2	B	182.528†	449.8	504.2	0.5411	mg/L	0.5411	mg/L	21:07:35
2	Ba	233.527†	59995.1	66068.2	0.5787	mg/L	0.5787	mg/L	21:07:25
2	Be	313.107†	101228.8	112750.1	0.0499	mg/L	0.0499	mg/L	21:07:22
2	Ca	315.887†	1285560.3	1415490.4	15.46	mg/L	15.46	mg/L	21:07:22
2	Cd	228.802†	7377.7	7953.6	0.2493	mg/L	0.2493	mg/L	21:07:35
2	Co	228.616†	22132.5	24579.0	0.4909	mg/L	0.4909	mg/L	21:07:25
2	Cr	267.716†	52799.0	57492.1	0.5049	mg/L	0.5049	mg/L	21:07:25
2	Cu	324.752†	96528.6	101340.9	0.5499	mg/L	0.5499	mg/L	21:07:25
2	Mg	279.077†	69124.1	76006.1	6.151	mg/L	6.151	mg/L	21:07:25
2	Mn	257.610†	412549.9	437571.5	0.5635	mg/L	0.5635	mg/L	21:07:25
2	Mn	294.920†	194031.5	214691.3	0.5614	mg/L	0.5614	mg/L	21:07:25
2	Mo	202.031†	10592.8	11612.1	0.4921	mg/L	0.4921	mg/L	21:07:35
2	Ni	231.604†	20518.0	22403.8	0.5018	mg/L	0.5018	mg/L	21:07:25
2	P	214.914†	8533.9	9411.0	5.932	mg/L	5.932	mg/L	21:07:25
2	Pb	220.353†	6859.8	7361.0	0.5197	mg/L	0.5197	mg/L	21:07:35
2	Sb	206.836†	1061.7	1119.6	0.5268	mg/L	0.5268	mg/L	21:07:35
2	Se	196.026†	1309.4	1429.0	0.9834	mg/L	0.9834	mg/L	21:07:35
2	Sn	189.927†	2948.4	3212.7	0.4837	mg/L	0.4837	mg/L	21:07:35
2	Ti	337.279†	397584.0	437807.1	0.5159	mg/L	0.5159	mg/L	21:07:25
2	Tl	190.801†	459.6	510.2	0.4922	mg/L	0.4922	mg/L	21:07:35
2	V	292.402†	100282.1	110619.4	0.5152	mg/L	0.5152	mg/L	21:07:25
2	Zn	213.857†	75224.6	81572.3	0.5985	mg/L	0.5985	mg/L	21:07:25

Mean Data: CG30508-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2480818.5	0.918 mg/L	0.0128			1.39%
Ag 328.068†	44222.2	0.2471 mg/L	0.00428	0.2471 mg/L	0.00428	1.73%
Al 237.313†	28192.6	3.135 mg/L	0.0610	3.135 mg/L	0.0610	1.94%
As 188.979†	664.8	0.4875 mg/L	0.00598	0.4875 mg/L	0.00598	1.23%
B 249.677†	964.5	0.5387 mg/L	0.00419	0.5387 mg/L	0.00419	0.78%
B 182.528†	506.7	0.5438 mg/L	0.00381	0.5438 mg/L	0.00381	0.70%
Ba 233.527†	65244.2	0.5716 mg/L	0.01015	0.5716 mg/L	0.01015	1.78%
Be 313.107†	112303.3	0.0497 mg/L	0.00028	0.0497 mg/L	0.00028	0.56%
Ca 315.887†	1409988.3	15.40 mg/L	0.085	15.40 mg/L	0.085	0.55%
Cd 228.802†	7866.0	0.2466 mg/L	0.00387	0.2466 mg/L	0.00387	1.57%
Co 228.616†	24322.2	0.4858 mg/L	0.00725	0.4858 mg/L	0.00725	1.49%
Cr 267.716†	56757.1	0.4985 mg/L	0.00907	0.4985 mg/L	0.00907	1.82%
Cu 324.752†	100086.8	0.5431 mg/L	0.00955	0.5431 mg/L	0.00955	1.76%

Fe 234.349†	7436.0	4.937 mg/L	0.0653	4.937 mg/L	0.0653	1.32%
K 766.490†	54246.0	29.74 mg/L	0.388	29.74 mg/L	0.388	1.31%
Li 670.784†	18602.8	0.5158 mg/L	0.00775	0.5158 mg/L	0.00775	1.50%
Mg 279.077†	75026.5	6.072 mg/L	0.1116	6.072 mg/L	0.1116	1.84%
Mn 257.610†	431902.8	0.5562 mg/L	0.01030	0.5562 mg/L	0.01030	1.85%
Mn 294.920†	211956.5	0.5543 mg/L	0.01009	0.5543 mg/L	0.01009	1.82%
Mo 202.031†	11500.8	0.4874 mg/L	0.00662	0.4874 mg/L	0.00662	1.36%
Na 589.592†	532910.7	97.07 mg/L	1.153	97.07 mg/L	1.153	1.19%
Ni 231.604†	22103.8	0.4951 mg/L	0.00947	0.4951 mg/L	0.00947	1.91%
P 214.914†	9306.6	5.867 mg/L	0.0924	5.867 mg/L	0.0924	1.57%
Pb 220.353†	7257.3	0.5124 mg/L	0.01035	0.5124 mg/L	0.01035	2.02%
Sb 206.836†	1112.9	0.5237 mg/L	0.00438	0.5237 mg/L	0.00438	0.84%
Se 196.026†	1417.4	0.9755 mg/L	0.01119	0.9755 mg/L	0.01119	1.15%
Sn 189.927†	3167.1	0.4769 mg/L	0.00961	0.4769 mg/L	0.00961	2.01%
Sr 407.771†	135668.3	0.1586 mg/L	0.00192	0.1586 mg/L	0.00192	1.21%
Ti 337.279†	432171.6	0.5093 mg/L	0.00930	0.5093 mg/L	0.00930	1.83%
Tl 190.801†	504.8	0.4870 mg/L	0.00734	0.4870 mg/L	0.00734	1.51%
V 292.402†	109241.1	0.5088 mg/L	0.00897	0.5088 mg/L	0.00897	1.76%
Zn 213.857†	80603.4	0.5914 mg/L	0.01000	0.5914 mg/L	0.01000	1.69%

Sequence No.: 110
Sample ID: CG30508-SD1 @5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 93
Date Collected: 7/5/2013 9:09:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	22.0	30.3	0.0181	mg/L	0.0181	mg/L	21:11:01
1	Fe 234.349†	953.7	1026.9	0.6910	mg/L	0.6910	mg/L	21:11:01
1	K 766.490†	2814.6	2232.8	1.391	mg/L	1.391	mg/L	21:10:51
1	Li 670.784†	-475.9	-280.2	-0.0033	mg/L	-0.0033	mg/L	21:10:51
1	Na 589.592†	101515.9	109553.4	20.05	mg/L	20.05	mg/L	21:10:51
1	Sr 407.771†	23391.2	25283.2	0.0298	mg/L	0.0298	mg/L	21:10:51
1	Y 371.029	2491958.1	2491958.1	0.923	mg/L			21:11:17
1	Ag 328.068†	1578.0	-154.7	0.0009	mg/L	0.0009	mg/L	21:11:19
1	Al 237.313†	1042.1	1559.9	0.1860	mg/L	0.1860	mg/L	21:11:19
1	As 188.979†	3.1	10.0	0.0117	mg/L	0.0117	mg/L	21:11:29
1	B 182.528†	7.3	17.5	0.0187	mg/L	0.0187	mg/L	21:11:29
1	Ba 233.527†	2104.4	2377.9	0.0238	mg/L	0.0238	mg/L	21:11:29
1	Be 313.107†	-1184.2	154.5	0.0004	mg/L	0.0004	mg/L	21:11:19
1	Ca 315.887†	223458.0	244081.9	2.696	mg/L	2.696	mg/L	21:11:17
1	Cd 228.802†	155.7	9.7	0.0013	mg/L	0.0013	mg/L	21:11:29
1	Co 228.616†	-193.0	32.6	0.0007	mg/L	0.0007	mg/L	21:11:29
1	Cr 267.716†	600.3	84.5	0.0041	mg/L	0.0041	mg/L	21:11:19
1	Cu 324.752†	5251.2	888.9	0.0092	mg/L	0.0092	mg/L	21:11:19
1	Mg 279.077†	3688.6	3994.7	0.3471	mg/L	0.3471	mg/L	21:11:19
1	Mn 257.610†	28702.1	15037.7	0.0209	mg/L	0.0209	mg/L	21:11:19
1	Mn 294.920†	5690.0	7499.7	0.0211	mg/L	0.0211	mg/L	21:11:19
1	Mo 202.031†	99.2	71.6	0.0054	mg/L	0.0054	mg/L	21:11:29
1	Ni 231.604†	232.8	94.3	0.0037	mg/L	0.0037	mg/L	21:11:19
1	P 214.914†	280.4	331.0	0.2541	mg/L	0.2541	mg/L	21:11:29
1	Pb 220.353†	216.3	52.3	0.0035	mg/L	0.0035	mg/L	21:11:29
1	Sb 206.836†	55.9	12.8	0.0100	mg/L	0.0100	mg/L	21:11:29
1	Se 196.026†	12.2	2.3	0.0065	mg/L	0.0065	mg/L	21:11:29
1	Sn 189.927†	5.4	-23.5	-0.0032	mg/L	-0.0032	mg/L	21:11:29
1	Ti 337.279†	3360.3	4262.0	0.0099	mg/L	0.0099	mg/L	21:11:19
1	Tl 190.801†	-13.3	-9.6	-0.0085	mg/L	-0.0085	mg/L	21:11:29
1	V 292.402†	-211.8	118.7	0.0051	mg/L	0.0051	mg/L	21:11:19
1	Zn 213.857†	4168.8	3373.1	0.0274	mg/L	0.0274	mg/L	21:11:19
2	B 249.677†	26.3	35.0	0.0207	mg/L	0.0207	mg/L	21:11:13
2	Fe 234.349†	953.4	1026.0	0.6905	mg/L	0.6905	mg/L	21:11:13
2	K 766.490†	2763.4	2175.9	1.360	mg/L	1.360	mg/L	21:11:03
2	Li 670.784†	-261.5	-47.7	0.0031	mg/L	0.0031	mg/L	21:11:03
2	Na 589.592†	99740.4	107575.6	19.69	mg/L	19.69	mg/L	21:11:03
2	Sr 407.771†	23118.3	24975.0	0.0295	mg/L	0.0295	mg/L	21:11:03
2	Y 371.029	2493189.7	2493189.7	0.923	mg/L			21:11:32
2	Ag 328.068†	1666.3	-60.0	0.0015	mg/L	0.0015	mg/L	21:11:34
2	Al 237.313†	944.3	1453.5	0.1742	mg/L	0.1742	mg/L	21:11:34
2	As 188.979†	1.2	8.0	0.0102	mg/L	0.0102	mg/L	21:11:44

2	B 182.528†	4.8	14.8	0.0158 mg/L	0.0158 mg/L	21:11:44
2	Ba 233.527†	2054.2	2322.5	0.0234 mg/L	0.0234 mg/L	21:11:44
2	Be 313.107†	-1218.7	117.7	0.0004 mg/L	0.0004 mg/L	21:11:34
2	Ca 315.887†	217740.5	237768.1	2.627 mg/L	2.627 mg/L	21:11:32
2	Cd 228.802†	156.2	10.2	0.0013 mg/L	0.0013 mg/L	21:11:44
2	Co 228.616†	-212.5	11.5	0.0002 mg/L	0.0002 mg/L	21:11:44
2	Cr 267.716†	611.0	95.7	0.0042 mg/L	0.0042 mg/L	21:11:34
2	Cu 324.752†	5132.4	757.4	0.0085 mg/L	0.0085 mg/L	21:11:34
2	Mg 279.077†	3618.8	3917.1	0.3409 mg/L	0.3409 mg/L	21:11:34
2	Mn 257.610†	28509.1	14813.2	0.0206 mg/L	0.0206 mg/L	21:11:34
2	Mn 294.920†	5484.0	7273.5	0.0205 mg/L	0.0205 mg/L	21:11:34
2	Mo 202.031†	83.6	54.7	0.0047 mg/L	0.0047 mg/L	21:11:44
2	Ni 231.604†	202.2	61.0	0.0030 mg/L	0.0030 mg/L	21:11:34
2	P 214.914†	274.6	324.6	0.2501 mg/L	0.2501 mg/L	21:11:44
2	Pb 220.353†	249.5	88.2	0.0060 mg/L	0.0060 mg/L	21:11:44
2	Sb 206.836†	56.2	13.0	0.0101 mg/L	0.0101 mg/L	21:11:44
2	Se 196.026†	15.5	5.9	0.0089 mg/L	0.0089 mg/L	21:11:44
2	Sn 189.927†	-12.9	-43.2	-0.0062 mg/L	-0.0062 mg/L	21:11:44
2	Ti 337.279†	3666.7	4592.2	0.0103 mg/L	0.0103 mg/L	21:11:34
2	Tl 190.801†	-4.5	-0.1	0.0007 mg/L	0.0007 mg/L	21:11:44
2	V 292.402†	-93.5	247.0	0.0057 mg/L	0.0057 mg/L	21:11:34
2	Zn 213.857†	4135.3	3334.6	0.0272 mg/L	0.0272 mg/L	21:11:34

Mean Data: CG30508-SD1 @5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2492573.9	0.923 mg/L		0.0003				0.03%
Ag 328.068†	-107.4	0.0012 mg/L		0.00037	0.0012 mg/L		0.00037	31.02%
Al 237.313†	1506.7	0.1801 mg/L		0.00833	0.1801 mg/L		0.00833	4.62%
As 188.979†	9.0	0.0109 mg/L		0.00105	0.0109 mg/L		0.00105	9.58%
B 249.677†	32.6	0.0194 mg/L		0.00182	0.0194 mg/L		0.00182	9.39%
B 182.528†	16.1	0.0172 mg/L		0.00205	0.0172 mg/L		0.00205	11.92%
Ba 233.527†	2350.2	0.0236 mg/L		0.00034	0.0236 mg/L		0.00034	1.45%
Be 313.107†	136.1	0.0004 mg/L		0.00001	0.0004 mg/L		0.00001	2.62%
Ca 315.887†	240925.0	2.662 mg/L		0.0486	2.662 mg/L		0.0486	1.83%
Cd 228.802†	9.9	0.0013 mg/L		0.00001	0.0013 mg/L		0.00001	0.82%
Co 228.616†	22.0	0.0004 mg/L		0.00030	0.0004 mg/L		0.00030	67.96%
Cr 267.716†	90.1	0.0042 mg/L		0.00007	0.0042 mg/L		0.00007	1.66%
Cu 324.752†	823.1	0.0088 mg/L		0.00050	0.0088 mg/L		0.00050	5.65%
Fe 234.349†	1026.5	0.6908 mg/L		0.00033	0.6908 mg/L		0.00033	0.05%
K 766.490†	2204.4	1.376 mg/L		0.0219	1.376 mg/L		0.0219	1.60%
Li 670.784†	-164.0	-0.0001 mg/L		0.00452	-0.0001 mg/L		0.00452	>999.9%
Mg 279.077†	3955.9	0.3440 mg/L		0.00442	0.3440 mg/L		0.00442	1.29%
Mn 257.610†	14925.5	0.0207 mg/L		0.00020	0.0207 mg/L		0.00020	0.98%
Mn 294.920†	7386.6	0.0208 mg/L		0.00042	0.0208 mg/L		0.00042	2.01%
Mo 202.031†	63.1	0.0051 mg/L		0.00051	0.0051 mg/L		0.00051	10.01%
Na 589.592†	108564.5	19.87 mg/L		0.254	19.87 mg/L		0.254	1.28%
Ni 231.604†	77.6	0.0034 mg/L		0.00053	0.0034 mg/L		0.00053	15.65%
P 214.914†	327.8	0.2521 mg/L		0.00283	0.2521 mg/L		0.00283	1.12%
Pb 220.353†	70.3	0.0048 mg/L		0.00179	0.0048 mg/L		0.00179	37.43%
Sb 206.836†	12.9	0.0101 mg/L		0.00007	0.0101 mg/L		0.00007	0.65%
Se 196.026†	4.1	0.0077 mg/L		0.00171	0.0077 mg/L		0.00171	22.22%
Sn 189.927†	-33.3	-0.0047 mg/L		0.00210	-0.0047 mg/L		0.00210	44.66%
Sr 407.771†	25129.1	0.0297 mg/L		0.00025	0.0297 mg/L		0.00025	0.86%
Ti 337.279†	4427.1	0.0101 mg/L		0.00027	0.0101 mg/L		0.00027	2.71%
Tl 190.801†	-4.8	-0.0039 mg/L		0.00656	-0.0039 mg/L		0.00656	168.11%
V 292.402†	182.9	0.0054 mg/L		0.00041	0.0054 mg/L		0.00041	7.48%
Zn 213.857†	3353.9	0.0273 mg/L		0.00020	0.0273 mg/L		0.00020	0.72%

Sequence No.: 111

Sample ID: CG30508-PDS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 94

Date Collected: 7/5/2013 9:13:21 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30508-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	985.9	1101.2	0.6149 mg/L	0.6149 mg/L	21:15:05
1	Fe 234.349†	7536.1	8361.1	5.551 mg/L	5.551 mg/L	21:15:05

1	K 766.490†	56096.0	61469.6	33.67 mg/L	33.67 mg/L	21:15:03
1	Li 670.784†	19040.7	21377.8	0.5920 mg/L	0.5920 mg/L	21:15:05
1	Na 589.592†	523731.6	581056.7	105.8 mg/L	105.8 mg/L	21:15:03
1	Sr 407.771†	133978.1	148694.9	0.1737 mg/L	0.1737 mg/L	21:15:03
1	Y 371.029	2432552.0	2432552.0	0.901 mg/L		21:15:14
1	Ag 328.068†	44796.0	47875.1	0.2673 mg/L	0.2673 mg/L	21:15:14
1	Al 237.313†	27552.3	31023.7	3.449 mg/L	3.449 mg/L	21:15:14
1	As 188.979†	645.0	722.8	0.5297 mg/L	0.5297 mg/L	21:15:25
1	B 182.528†	496.6	561.0	0.6020 mg/L	0.6020 mg/L	21:15:25
1	Ba 233.527†	64096.4	71267.8	0.6240 mg/L	0.6240 mg/L	21:15:14
1	Be 313.107†	111198.7	124909.8	0.0552 mg/L	0.0552 mg/L	21:15:14
1	Ca 315.887†	1365077.1	1517617.8	16.58 mg/L	16.58 mg/L	21:15:14
1	Cd 228.802†	7934.9	8651.7	0.2711 mg/L	0.2711 mg/L	21:15:25
1	Co 228.616†	23990.3	26879.9	0.5369 mg/L	0.5369 mg/L	21:15:25
1	Cr 267.716†	56453.5	62118.1	0.5453 mg/L	0.5453 mg/L	21:15:14
1	Cu 324.752†	102902.2	109456.8	0.5935 mg/L	0.5935 mg/L	21:15:14
1	Mg 279.077†	72826.9	80861.5	6.542 mg/L	6.542 mg/L	21:15:14
1	Mn 257.610†	446141.2	479309.7	0.6171 mg/L	0.6171 mg/L	21:15:14
1	Mn 294.920†	209967.7	234474.3	0.6130 mg/L	0.6130 mg/L	21:15:14
1	Mo 202.031†	11473.7	12704.1	0.5381 mg/L	0.5381 mg/L	21:15:25
1	Ni 231.604†	21996.9	24266.7	0.5434 mg/L	0.5434 mg/L	21:15:14
1	P 214.914†	8996.8	10016.9	6.311 mg/L	6.311 mg/L	21:15:25
1	Pb 220.353†	7362.6	7993.1	0.5643 mg/L	0.5643 mg/L	21:15:25
1	Sb 206.836†	1153.6	1233.1	0.5798 mg/L	0.5798 mg/L	21:15:25
1	Se 196.026†	1418.3	1563.9	1.076 mg/L	1.076 mg/L	21:15:25
1	Sn 189.927†	3181.2	3503.0	0.5274 mg/L	0.5274 mg/L	21:15:25
1	Ti 337.279†	422366.1	469603.0	0.5530 mg/L	0.5530 mg/L	21:15:14
1	Tl 190.801†	495.3	554.8	0.5350 mg/L	0.5350 mg/L	21:15:25
1	V 292.402†	107288.6	119478.4	0.5562 mg/L	0.5562 mg/L	21:15:14
1	Zn 213.857†	80269.6	87983.7	0.6453 mg/L	0.6453 mg/L	21:15:14
2	B 249.677†	945.5	1049.6	0.5861 mg/L	0.5861 mg/L	21:15:09
2	Fe 234.349†	7492.6	8259.9	5.484 mg/L	5.484 mg/L	21:15:09
2	K 766.490†	54892.7	59745.9	32.74 mg/L	32.74 mg/L	21:15:07
2	Li 670.784†	18821.4	21001.4	0.5817 mg/L	0.5817 mg/L	21:15:09
2	Na 589.592†	514733.9	567432.0	103.4 mg/L	103.4 mg/L	21:15:07
2	Sr 407.771†	131235.2	144722.7	0.1691 mg/L	0.1691 mg/L	21:15:07
2	Y 371.029	2448117.6	2448117.6	0.906 mg/L		21:15:29
2	Ag 328.068†	43047.4	45629.5	0.2549 mg/L	0.2549 mg/L	21:15:29
2	Al 237.313†	26618.9	29799.4	3.313 mg/L	3.313 mg/L	21:15:29
2	As 188.979†	615.8	686.1	0.5030 mg/L	0.5030 mg/L	21:15:39
2	B 182.528†	462.2	519.5	0.5575 mg/L	0.5575 mg/L	21:15:39
2	Ba 233.527†	61983.7	68484.3	0.5998 mg/L	0.5998 mg/L	21:15:29
2	Be 313.107†	106513.4	118955.5	0.0526 mg/L	0.0526 mg/L	21:15:29
2	Ca 315.887†	1356447.3	1498459.0	16.37 mg/L	16.37 mg/L	21:15:29
2	Cd 228.802†	7445.3	8055.4	0.2525 mg/L	0.2525 mg/L	21:15:39
2	Co 228.616†	22458.0	25020.0	0.4997 mg/L	0.4997 mg/L	21:15:39
2	Cr 267.716†	54232.9	59269.5	0.5204 mg/L	0.5204 mg/L	21:15:29
2	Cu 324.752†	99525.7	105004.9	0.5696 mg/L	0.5696 mg/L	21:15:29
2	Mg 279.077†	70768.0	78075.7	6.318 mg/L	6.318 mg/L	21:15:29
2	Mn 257.610†	431928.1	460478.6	0.5929 mg/L	0.5929 mg/L	21:15:29
2	Mn 294.920†	202950.1	225249.4	0.5889 mg/L	0.5889 mg/L	21:15:29
2	Mo 202.031†	10739.8	11813.4	0.5004 mg/L	0.5004 mg/L	21:15:39
2	Ni 231.604†	21217.0	23250.9	0.5207 mg/L	0.5207 mg/L	21:15:29
2	P 214.914†	8495.4	9400.2	5.925 mg/L	5.925 mg/L	21:15:39
2	Pb 220.353†	6908.2	7439.8	0.5252 mg/L	0.5252 mg/L	21:15:39
2	Sb 206.836†	1082.6	1146.6	0.5392 mg/L	0.5392 mg/L	21:15:39
2	Se 196.026†	1319.8	1445.2	0.9945 mg/L	0.9945 mg/L	21:15:39
2	Sn 189.927†	2964.3	3241.3	0.4885 mg/L	0.4885 mg/L	21:15:39
2	Ti 337.279†	406428.6	449037.0	0.5290 mg/L	0.5290 mg/L	21:15:29
2	Tl 190.801†	471.0	524.4	0.5056 mg/L	0.5056 mg/L	21:15:39
2	V 292.402†	103131.9	114134.9	0.5313 mg/L	0.5313 mg/L	21:15:29
2	Zn 213.857†	77837.6	84733.6	0.6216 mg/L	0.6216 mg/L	21:15:29

Mean Data: CG30508-PDS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2440334.8	0.903 mg/L		0.0041			0.45%
Ag 328.068†	46752.3	0.2611 mg/L		0.00880	0.2611 mg/L	0.00880	3.37%
Al 237.313†	30411.5	3.381 mg/L		0.0959	3.381 mg/L	0.0959	2.84%
As 188.979†	704.4	0.5163 mg/L		0.01888	0.5163 mg/L	0.01888	3.66%
B 249.677†	1075.4	0.6005 mg/L		0.02035	0.6005 mg/L	0.02035	3.39%
B 182.528†	540.2	0.5798 mg/L		0.03148	0.5798 mg/L	0.03148	5.43%

Ba	233.527†	69876.0	0.6119 mg/L	0.01715	0.6119 mg/L	0.01715	2.80%
Be	313.107†	121932.6	0.0539 mg/L	0.00185	0.0539 mg/L	0.00185	3.43%
Ca	315.887†	1508038.4	16.47 mg/L	0.148	16.47 mg/L	0.148	0.90%
Cd	228.802†	8353.5	0.2618 mg/L	0.01317	0.2618 mg/L	0.01317	5.03%
Co	228.616†	25949.9	0.5183 mg/L	0.02629	0.5183 mg/L	0.02629	5.07%
Cr	267.716†	60693.8	0.5328 mg/L	0.01758	0.5328 mg/L	0.01758	3.30%
Cu	324.752†	107230.8	0.5816 mg/L	0.01694	0.5816 mg/L	0.01694	2.91%
Fe	234.349†	8310.5	5.518 mg/L	0.0473	5.518 mg/L	0.0473	0.86%
K	766.490†	60607.7	33.20 mg/L	0.664	33.20 mg/L	0.664	2.00%
Li	670.784†	21189.6	0.5869 mg/L	0.00732	0.5869 mg/L	0.00732	1.25%
Mg	279.077†	79468.6	6.430 mg/L	0.1588	6.430 mg/L	0.1588	2.47%
Mn	257.610†	469894.2	0.6050 mg/L	0.01712	0.6050 mg/L	0.01712	2.83%
Mn	294.920†	229861.9	0.6010 mg/L	0.01701	0.6010 mg/L	0.01701	2.83%
Mo	202.031†	12258.7	0.5193 mg/L	0.02666	0.5193 mg/L	0.02666	5.13%
Na	589.592†	574244.3	104.6 mg/L	1.75	104.6 mg/L	1.75	1.68%
Ni	231.604†	23758.8	0.5320 mg/L	0.01605	0.5320 mg/L	0.01605	3.02%
P	214.914†	9708.5	6.118 mg/L	0.2727	6.118 mg/L	0.2727	4.46%
Pb	220.353†	7716.4	0.5448 mg/L	0.02765	0.5448 mg/L	0.02765	5.08%
Sb	206.836†	1189.9	0.5595 mg/L	0.02868	0.5595 mg/L	0.02868	5.13%
Se	196.026†	1504.6	1.035 mg/L	0.0575	1.035 mg/L	0.0575	5.56%
Sn	189.927†	3372.1	0.5079 mg/L	0.02749	0.5079 mg/L	0.02749	5.41%
Sr	407.771†	146708.8	0.1714 mg/L	0.00327	0.1714 mg/L	0.00327	1.91%
Ti	337.279†	459320.0	0.5410 mg/L	0.01697	0.5410 mg/L	0.01697	3.14%
Tl	190.801†	539.6	0.5203 mg/L	0.02078	0.5203 mg/L	0.02078	3.99%
V	292.402†	116806.7	0.5437 mg/L	0.01759	0.5437 mg/L	0.01759	3.23%
Zn	213.857†	86358.7	0.6334 mg/L	0.01677	0.6334 mg/L	0.01677	2.65%

Sequence No.: 112
Sample ID: 1307080-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 95
Date Collected: 7/5/2013 9:17:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307080-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	48.4	60.5	0.0350 mg/L	0.0350 mg/L	0.0350 mg/L	21:19:08
1	Fe 234.349†	28600.1	31908.3	21.22 mg/L	21.22 mg/L	21.22 mg/L	21:19:08
1	K 766.490†	18490.3	19815.6	10.97 mg/L	10.97 mg/L	10.97 mg/L	21:18:58
1	Li 670.784†	-160.8	56.1	0.0060 mg/L	0.0060 mg/L	0.0060 mg/L	21:18:58
1	Na 589.592†	1241206.8	1384592.8	252.0 mg/L	252.0 mg/L	252.0 mg/L	21:18:58
1	Sr 407.771†	417915.2	466284.3	0.5440 mg/L	0.5440 mg/L	0.5440 mg/L	21:18:58
1	Y 371.029	2420482.4	2420482.4	0.896 mg/L	0.896 mg/L	0.896 mg/L	21:19:26
1	Ag 328.068†	1550.8	-134.6	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	21:19:28
1	Al 237.313†	2299.9	2996.9	0.3450 mg/L	0.3450 mg/L	0.3450 mg/L	21:19:28
1	As 188.979†	10.1	17.9	0.0174 mg/L	0.0174 mg/L	0.0174 mg/L	21:19:38
1	B 182.528†	21.9	34.0	0.0363 mg/L	0.0363 mg/L	0.0363 mg/L	21:19:38
1	Ba 233.527†	8432.9	9507.3	0.0860 mg/L	0.0860 mg/L	0.0860 mg/L	21:19:38
1	Be 313.107†	-945.7	382.7	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	21:19:28
1	Ca 315.887†	3328476.4	3716148.8	40.54 mg/L	40.54 mg/L	40.54 mg/L	21:19:26
1	Cd 228.802†	158.6	18.0	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	21:19:38
1	Co 228.616†	21.9	266.2	0.0053 mg/L	0.0053 mg/L	0.0053 mg/L	21:19:38
1	Cr 267.716†	593.5	96.0	0.0042 mg/L	0.0042 mg/L	0.0042 mg/L	21:19:28
1	Cu 324.752†	4288.6	-17.2	0.0043 mg/L	0.0043 mg/L	0.0043 mg/L	21:19:28
1	Mg 279.077†	101854.3	113656.6	9.190 mg/L	9.190 mg/L	9.190 mg/L	21:19:28
1	Mn 257.610†	2419498.2	2683864.8	3.450 mg/L	3.450 mg/L	3.450 mg/L	21:19:26
1	Mn 294.920†	1174534.9	1312005.1	3.423 mg/L	3.423 mg/L	3.423 mg/L	21:19:26
1	Mo 202.031†	235.2	226.5	0.0089 mg/L	0.0089 mg/L	0.0089 mg/L	21:19:38
1	Ni 231.604†	224.8	92.9	0.0037 mg/L	0.0037 mg/L	0.0037 mg/L	21:19:38
1	P 214.914†	1097.8	1252.1	0.8309 mg/L	0.8309 mg/L	0.8309 mg/L	21:19:38
1	Pb 220.353†	122.5	-45.4	-0.0034 mg/L	-0.0034 mg/L	-0.0034 mg/L	21:19:38
1	Sb 206.836†	54.8	13.3	0.0044 mg/L	0.0044 mg/L	0.0044 mg/L	21:19:38
1	Se 196.026†	6.7	-3.4	-0.0016 mg/L	-0.0016 mg/L	-0.0016 mg/L	21:19:38
1	Sn 189.927†	-377.1	-450.2	-0.0430 mg/L	-0.0430 mg/L	-0.0430 mg/L	21:19:38
1	Ti 337.279†	5157.6	6375.2	0.0123 mg/L	0.0123 mg/L	0.0123 mg/L	21:19:28
1	Tl 190.801†	-4.9	-0.7	-0.0114 mg/L	-0.0114 mg/L	-0.0114 mg/L	21:19:38
1	V 292.402†	88.1	446.6	0.0067 mg/L	0.0067 mg/L	0.0067 mg/L	21:19:28
1	Zn 213.857†	4893.2	4314.9	0.0335 mg/L	0.0335 mg/L	0.0335 mg/L	21:19:38
2	B 249.677†	44.1	55.9	0.0324 mg/L	0.0324 mg/L	0.0324 mg/L	21:19:21
2	Fe 234.349†	28456.3	31845.2	21.18 mg/L	21.18 mg/L	21.18 mg/L	21:19:21
2	K 766.490†	18479.0	19866.2	11.00 mg/L	11.00 mg/L	11.00 mg/L	21:19:11

2	Li 670.784†	-33.9	197.7	0.0099 mg/L	0.0099 mg/L	21:19:11
2	Na 589.592†	1255831.6	1405210.4	255.8 mg/L	255.8 mg/L	21:19:11
2	Sr 407.771†	423449.1	473908.8	0.5529 mg/L	0.5529 mg/L	21:19:11
2	Y 371.029	2413082.3	2413082.3	0.893 mg/L		21:19:41
2	Ag 328.068†	1516.2	-168.1	0.0014 mg/L	0.0014 mg/L	21:19:44
2	Al 237.313†	2319.4	3026.6	0.3483 mg/L	0.3483 mg/L	21:19:44
2	As 188.979†	9.0	16.7	0.0165 mg/L	0.0165 mg/L	21:19:54
2	B 182.528†	29.1	42.1	0.0451 mg/L	0.0451 mg/L	21:19:54
2	Ba 233.527†	8419.9	9521.7	0.0861 mg/L	0.0861 mg/L	21:19:54
2	Be 313.107†	-945.2	380.1	0.0005 mg/L	0.0005 mg/L	21:19:44
2	Ca 315.887†	3311575.8	3708621.8	40.45 mg/L	40.45 mg/L	21:19:41
2	Cd 228.802†	155.0	14.5	0.0011 mg/L	0.0011 mg/L	21:19:54
2	Co 228.616†	-8.1	232.7	0.0047 mg/L	0.0047 mg/L	21:19:54
2	Cr 267.716†	536.6	34.4	0.0037 mg/L	0.0037 mg/L	21:19:44
2	Cu 324.752†	4362.4	80.1	0.0048 mg/L	0.0048 mg/L	21:19:44
2	Mg 279.077†	103392.9	115727.4	9.357 mg/L	9.357 mg/L	21:19:44
2	Mn 257.610†	2411138.3	2682787.0	3.448 mg/L	3.448 mg/L	21:19:41
2	Mn 294.920†	1170061.3	1311017.1	3.420 mg/L	3.420 mg/L	21:19:41
2	Mo 202.031†	241.5	234.4	0.0093 mg/L	0.0093 mg/L	21:19:54
2	Ni 231.604†	222.3	90.8	0.0037 mg/L	0.0037 mg/L	21:19:54
2	P 214.914†	1101.2	1259.6	0.8356 mg/L	0.8356 mg/L	21:19:54
2	Pb 220.353†	108.0	-61.2	-0.0045 mg/L	-0.0045 mg/L	21:19:54
2	Sb 206.836†	60.7	20.1	0.0076 mg/L	0.0076 mg/L	21:19:54
2	Se 196.026†	11.8	2.3	0.0024 mg/L	0.0024 mg/L	21:19:54
2	Sn 189.927†	-414.4	-493.2	-0.0494 mg/L	-0.0494 mg/L	21:19:54
2	Ti 337.279†	5198.3	6438.4	0.0124 mg/L	0.0124 mg/L	21:19:44
2	Tl 190.801†	-8.6	-4.8	-0.0154 mg/L	-0.0154 mg/L	21:19:54
2	V 292.402†	182.3	552.3	0.0072 mg/L	0.0072 mg/L	21:19:44
2	Zn 213.857†	4924.8	4367.0	0.0338 mg/L	0.0338 mg/L	21:19:54

Mean Data: 1307080-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2416782.3	0.895	mg/L	0.0019			0.22%
Ag 328.068†	-151.3	0.0015	mg/L	0.00013	0.0015 mg/L	0.00013	8.97%
Al 237.313†	3011.7	0.3467	mg/L	0.00232	0.3467 mg/L	0.00232	0.67%
As 188.979†	17.3	0.0170	mg/L	0.00061	0.0170 mg/L	0.00061	3.57%
B 249.677†	58.2	0.0337	mg/L	0.00182	0.0337 mg/L	0.00182	5.42%
B 182.528†	38.0	0.0407	mg/L	0.00620	0.0407 mg/L	0.00620	15.22%
Ba 233.527†	9514.5	0.0860	mg/L	0.00009	0.0860 mg/L	0.00009	0.10%
Be 313.107†	381.4	0.0005	mg/L	0.00000	0.0005 mg/L	0.00000	0.16%
Ca 315.887†	3712385.3	40.49	mg/L	0.058	40.49 mg/L	0.058	0.14%
Cd 228.802†	16.2	0.0012	mg/L	0.00008	0.0012 mg/L	0.00008	6.65%
Co 228.616†	249.4	0.0050	mg/L	0.00047	0.0050 mg/L	0.00047	9.50%
Cr 267.716†	65.2	0.0040	mg/L	0.00038	0.0040 mg/L	0.00038	9.58%
Cu 324.752†	31.4	0.0046	mg/L	0.00037	0.0046 mg/L	0.00037	8.07%
Fe 234.349†	31876.8	21.20	mg/L	0.030	21.20 mg/L	0.030	0.14%
K 766.490†	19840.9	10.99	mg/L	0.020	10.99 mg/L	0.020	0.18%
Li 670.784†	126.9	0.0079	mg/L	0.00275	0.0079 mg/L	0.00275	34.66%
Mg 279.077†	114692.0	9.273	mg/L	0.1180	9.273 mg/L	0.1180	1.27%
Mn 257.610†	2683325.9	3.449	mg/L	0.0010	3.449 mg/L	0.0010	0.03%
Mn 294.920†	1311511.1	3.422	mg/L	0.0018	3.422 mg/L	0.0018	0.05%
Mo 202.031†	230.4	0.0091	mg/L	0.00024	0.0091 mg/L	0.00024	2.63%
Na 589.592†	1394901.6	253.9	mg/L	2.65	253.9 mg/L	2.65	1.04%
Ni 231.604†	91.8	0.0037	mg/L	0.00003	0.0037 mg/L	0.00003	0.89%
P 214.914†	1255.9	0.8333	mg/L	0.00331	0.8333 mg/L	0.00331	0.40%
Pb 220.353†	-53.3	-0.0039	mg/L	0.00079	-0.0039 mg/L	0.00079	20.07%
Sb 206.836†	16.7	0.0060	mg/L	0.00224	0.0060 mg/L	0.00224	37.17%
Se 196.026†	-0.6	0.0004	mg/L	0.00278	0.0004 mg/L	0.00278	713.84%
Sn 189.927†	-471.7	-0.0462	mg/L	0.00454	-0.0462 mg/L	0.00454	9.82%
Sr 407.771†	470096.6	0.5485	mg/L	0.00629	0.5485 mg/L	0.00629	1.15%
Ti 337.279†	6406.8	0.0124	mg/L	0.00005	0.0124 mg/L	0.00005	0.42%
Tl 190.801†	-2.7	-0.0134	mg/L	0.00281	-0.0134 mg/L	0.00281	20.90%
V 292.402†	499.4	0.0069	mg/L	0.00034	0.0069 mg/L	0.00034	4.92%
Zn 213.857†	4341.0	0.0336	mg/L	0.00027	0.0336 mg/L	0.00027	0.81%

Sequence No.: 113
Sample ID: 1307080-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 96
Date Collected: 7/5/2013 9:21:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307080-03

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	11.3	19.0	0.0118 mg/L	0.0118 mg/L	21:23:22
1	Fe 234.349†	335.0	361.9	0.1227 mg/L	0.1227 mg/L	21:23:22
1	K 766.490†	9880.4	10057.3	5.655 mg/L	5.655 mg/L	21:23:11
1	Li 670.784†	45.6	285.8	0.0123 mg/L	0.0123 mg/L	21:23:11
1	Na 589.592†	326362.1	358742.0	65.38 mg/L	65.38 mg/L	21:23:11
1	Sr 407.771†	278507.0	306477.8	0.3577 mg/L	0.3577 mg/L	21:23:11
1	Y 371.029	2453959.8	2453959.8	0.909 mg/L		21:23:41
1	Ag 328.068†	1433.9	-286.9	0.0002 mg/L	0.0002 mg/L	21:23:43
1	Al 237.313†	1026.7	1560.5	0.1861 mg/L	0.1861 mg/L	21:23:53
1	As 188.979†	-6.0	0.0	0.0044 mg/L	0.0044 mg/L	21:23:53
1	B 182.528†	12.2	22.9	0.0245 mg/L	0.0245 mg/L	21:23:53
1	Ba 233.527†	1567.7	1822.5	0.0190 mg/L	0.0190 mg/L	21:23:53
1	Be 313.107†	-1402.0	-105.1	0.0003 mg/L	0.0003 mg/L	21:23:43
1	Ca 315.887†	6550765.8	7212201.8	78.64 mg/L	78.64 mg/L	21:23:38
1	Cd 228.802†	146.5	2.2	0.0011 mg/L	0.0011 mg/L	21:23:53
1	Co 228.616†	-233.0	-14.7	-0.0003 mg/L	-0.0003 mg/L	21:23:53
1	Cr 267.716†	847.5	366.6	0.0066 mg/L	0.0066 mg/L	21:23:43
1	Cu 324.752†	4231.3	-145.6	0.0036 mg/L	0.0036 mg/L	21:23:43
1	Mg 279.077†	267928.5	294901.3	23.79 mg/L	23.79 mg/L	21:23:41
1	Mn 257.610†	40148.4	28118.2	0.0378 mg/L	0.0378 mg/L	21:23:43
1	Mn 294.920†	10018.9	12360.0	0.0337 mg/L	0.0337 mg/L	21:23:43
1	Mo 202.031†	334.3	332.0	0.0166 mg/L	0.0166 mg/L	21:23:53
1	Ni 231.604†	198.4	60.3	0.0030 mg/L	0.0030 mg/L	21:23:53
1	P 214.914†	726.8	827.0	0.5647 mg/L	0.5647 mg/L	21:23:53
1	Pb 220.353†	95.4	-77.1	-0.0056 mg/L	-0.0056 mg/L	21:23:53
1	Sb 206.836†	51.6	9.0	0.0085 mg/L	0.0085 mg/L	21:23:53
1	Se 196.026†	21.7	13.0	0.0139 mg/L	0.0139 mg/L	21:23:53
1	Sn 189.927†	-583.0	-671.0	-0.0521 mg/L	-0.0521 mg/L	21:23:53
1	Ti 337.279†	1802.9	2604.2	0.0079 mg/L	0.0079 mg/L	21:23:43
1	Tl 190.801†	18.1	24.7	0.0267 mg/L	0.0267 mg/L	21:23:53
1	V 292.402†	-151.1	182.0	0.0056 mg/L	0.0056 mg/L	21:23:43
1	Zn 213.857†	3146.7	2318.1	0.0197 mg/L	0.0197 mg/L	21:23:53
2	B 249.677†	12.6	20.5	0.0127 mg/L	0.0127 mg/L	21:23:34
2	Fe 234.349†	335.4	366.9	0.1240 mg/L	0.1240 mg/L	21:23:34
2	K 766.490†	9840.9	10147.2	5.704 mg/L	5.704 mg/L	21:23:24
2	Li 670.784†	51.4	292.9	0.0125 mg/L	0.0125 mg/L	21:23:24
2	Na 589.592†	328890.9	365979.8	66.70 mg/L	66.70 mg/L	21:23:24
2	Sr 407.771†	281280.3	313339.9	0.3657 mg/L	0.3657 mg/L	21:23:24
2	Y 371.029	2424131.5	2424131.5	0.897 mg/L		21:23:58
2	Ag 328.068†	1399.5	-305.7	0.0001 mg/L	0.0001 mg/L	21:24:01
2	Al 237.313†	1036.6	1585.4	0.1888 mg/L	0.1888 mg/L	21:24:11
2	As 188.979†	-4.0	2.2	0.0059 mg/L	0.0059 mg/L	21:24:11
2	B 182.528†	14.7	26.0	0.0278 mg/L	0.0278 mg/L	21:24:11
2	Ba 233.527†	1576.2	1853.2	0.0193 mg/L	0.0193 mg/L	21:24:11
2	Be 313.107†	-1494.4	-227.1	0.0003 mg/L	0.0003 mg/L	21:24:01
2	Ca 315.887†	6571846.4	7324411.8	79.86 mg/L	79.86 mg/L	21:23:56
2	Cd 228.802†	144.9	2.4	0.0011 mg/L	0.0011 mg/L	21:24:11
2	Co 228.616†	-196.8	22.5	0.0005 mg/L	0.0005 mg/L	21:24:11
2	Cr 267.716†	882.8	417.4	0.0070 mg/L	0.0070 mg/L	21:24:01
2	Cu 324.752†	4256.7	-60.0	0.0041 mg/L	0.0041 mg/L	21:24:01
2	Mg 279.077†	263796.8	293926.4	23.71 mg/L	23.71 mg/L	21:23:58
2	Mn 257.610†	40260.6	28786.9	0.0387 mg/L	0.0387 mg/L	21:24:01
2	Mn 294.920†	10031.1	12509.2	0.0341 mg/L	0.0341 mg/L	21:24:01
2	Mo 202.031†	343.2	346.5	0.0172 mg/L	0.0172 mg/L	21:24:11
2	Ni 231.604†	216.8	83.6	0.0035 mg/L	0.0035 mg/L	21:24:11
2	P 214.914†	704.0	811.5	0.5549 mg/L	0.5549 mg/L	21:24:11
2	Pb 220.353†	43.1	-134.1	-0.0096 mg/L	-0.0096 mg/L	21:24:11
2	Sb 206.836†	56.4	15.0	0.0113 mg/L	0.0113 mg/L	21:24:11
2	Se 196.026†	14.1	4.8	0.0083 mg/L	0.0083 mg/L	21:24:11
2	Sn 189.927†	-573.9	-668.7	-0.0510 mg/L	-0.0510 mg/L	21:24:11
2	Ti 337.279†	1719.6	2535.9	0.0079 mg/L	0.0079 mg/L	21:24:01
2	Tl 190.801†	20.2	27.3	0.0292 mg/L	0.0292 mg/L	21:24:11
2	V 292.402†	-57.2	284.5	0.0061 mg/L	0.0061 mg/L	21:24:01
2	Zn 213.857†	3153.4	2368.2	0.0201 mg/L	0.0201 mg/L	21:24:11

Mean Data: 1307080-03

Mean Corrected

Calib

Sample Page 260 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2439045.6	0.903 mg/L	0.0078			0.86%
Ag 328.068†	-296.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	53.04%
Al 237.313†	1573.0	0.1874 mg/L	0.00195	0.1874 mg/L	0.00195	1.04%
As 188.979†	1.1	0.0052 mg/L	0.00111	0.0052 mg/L	0.00111	21.50%
B 249.677†	19.7	0.0123 mg/L	0.00061	0.0123 mg/L	0.00061	4.93%
B 182.528†	24.5	0.0261 mg/L	0.00230	0.0261 mg/L	0.00230	8.78%
Ba 233.527†	1837.9	0.0191 mg/L	0.00019	0.0191 mg/L	0.00019	0.99%
Be 313.107†	-166.1	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	12.32%
Ca 315.887†	7268306.8	79.25 mg/L	0.865	79.25 mg/L	0.865	1.09%
Cd 228.802†	2.3	0.0011 mg/L	0.00000	0.0011 mg/L	0.00000	0.37%
Co 228.616†	3.9	0.0001 mg/L	0.00053	0.0001 mg/L	0.00053	596.48%
Cr 267.716†	392.0	0.0068 mg/L	0.00031	0.0068 mg/L	0.00031	4.60%
Cu 324.752†	-102.8	0.0039 mg/L	0.00033	0.0039 mg/L	0.00033	8.45%
Fe 234.349†	364.4	0.1234 mg/L	0.00090	0.1234 mg/L	0.00090	0.73%
K 766.490†	10102.3	5.680 mg/L	0.0346	5.680 mg/L	0.0346	0.61%
Li 670.784†	289.3	0.0124 mg/L	0.00014	0.0124 mg/L	0.00014	1.11%
Mg 279.077†	294413.9	23.75 mg/L	0.056	23.75 mg/L	0.056	0.23%
Mn 257.610†	28452.6	0.0382 mg/L	0.00061	0.0382 mg/L	0.00061	1.59%
Mn 294.920†	12434.6	0.0339 mg/L	0.00028	0.0339 mg/L	0.00028	0.81%
Mo 202.031†	339.3	0.0169 mg/L	0.00043	0.0169 mg/L	0.00043	2.56%
Na 589.592†	362360.9	66.04 mg/L	0.931	66.04 mg/L	0.931	1.41%
Ni 231.604†	71.9	0.0033 mg/L	0.00037	0.0033 mg/L	0.00037	11.28%
P 214.914†	819.3	0.5598 mg/L	0.00689	0.5598 mg/L	0.00689	1.23%
Pb 220.353†	-105.6	-0.0076 mg/L	0.00284	-0.0076 mg/L	0.00284	37.39%
Sb 206.836†	12.0	0.0099 mg/L	0.00200	0.0099 mg/L	0.00200	20.22%
Se 196.026†	8.9	0.0111 mg/L	0.00399	0.0111 mg/L	0.00399	36.01%
Sn 189.927†	-669.9	-0.0516 mg/L	0.00078	-0.0516 mg/L	0.00078	1.50%
Sr 407.771†	309908.8	0.3617 mg/L	0.00566	0.3617 mg/L	0.00566	1.56%
Ti 337.279†	2570.0	0.0079 mg/L	0.00006	0.0079 mg/L	0.00006	0.71%
Tl 190.801†	26.0	0.0279 mg/L	0.00178	0.0279 mg/L	0.00178	6.37%
V 292.402†	233.3	0.0058 mg/L	0.00034	0.0058 mg/L	0.00034	5.78%
Zn 213.857†	2343.2	0.0199 mg/L	0.00026	0.0199 mg/L	0.00026	1.29%

Sequence No.: 114
Sample ID: 1307080-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 97
Date Collected: 7/5/2013 9:25:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307080-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	65.9	80.8	0.0463 mg/L	0.0463 mg/L	21:27:43
1	Fe 234.349†	6188.6	6976.2	4.509 mg/L	4.509 mg/L	21:27:43
1	K 766.490†	14415.6	15448.1	8.593 mg/L	8.593 mg/L	21:27:33
1	Li 670.784†	263.6	533.0	0.0191 mg/L	0.0191 mg/L	21:27:33
1	Na 589.592†	1232031.0	1389698.0	253.0 mg/L	253.0 mg/L	21:27:33
1	Sr 407.771†	349916.4	394762.0	0.4606 mg/L	0.4606 mg/L	21:27:33
1	Y 371.029	2393765.5	2393765.5	0.886 mg/L		21:28:03
1	Ag 328.068†	1477.3	-198.2	0.0008 mg/L	0.0008 mg/L	21:28:05
1	Al 237.313†	9467.4	11113.1	1.243 mg/L	1.243 mg/L	21:28:05
1	As 188.979†	-2.2	4.2	0.0074 mg/L	0.0074 mg/L	21:28:16
1	B 182.528†	39.5	54.1	0.0580 mg/L	0.0580 mg/L	21:28:16
1	Ba 233.527†	5298.9	6076.1	0.0561 mg/L	0.0561 mg/L	21:28:16
1	Be 313.107†	-1308.0	-37.9	0.0003 mg/L	0.0003 mg/L	21:28:05
1	Ca 315.887†	7626523.9	8607360.1	93.84 mg/L	93.84 mg/L	21:28:01
1	Cd 228.802†	143.9	3.3	0.0010 mg/L	0.0010 mg/L	21:28:16
1	Co 228.616†	-167.8	52.5	0.0009 mg/L	0.0009 mg/L	21:28:16
1	Cr 267.716†	1027.7	593.4	0.0086 mg/L	0.0086 mg/L	21:28:05
1	Cu 324.752†	4688.1	487.1	0.0071 mg/L	0.0071 mg/L	21:28:05
1	Mg 279.077†	297853.8	336083.6	27.11 mg/L	27.11 mg/L	21:28:03
1	Mn 257.610†	1698140.2	1900045.4	2.445 mg/L	2.445 mg/L	21:28:03
1	Mn 294.920†	817867.9	924183.8	2.412 mg/L	2.412 mg/L	21:28:03
1	Mo 202.031†	349.5	358.4	0.0170 mg/L	0.0170 mg/L	21:28:16
1	Ni 231.604†	273.1	150.1	0.0050 mg/L	0.0050 mg/L	21:28:16
1	P 214.914†	1405.3	1612.8	1.057 mg/L	1.057 mg/L	21:28:16
1	Pb 220.353†	64.1	-109.8	-0.0081 mg/L	-0.0081 mg/L	21:28:16
1	Sb 206.836†	65.6	26.2	0.0152 mg/L	0.0152 mg/L	21:28:16
1	Se 196.026†	1.5	-9.2	-0.0022 mg/L	-0.0022 mg/L	21:28:16
1	Sn 189.927†	-617.2	-725.7	-0.0508 mg/L	-0.0508 mg/L	21:28:16

1	Ti 337.279†	55525.6	63272.8	0.0788	mg/L	0.0788	mg/L	21:28:05
1	Tl 190.801†	16.4	23.3	0.0229	mg/L	0.0229	mg/L	21:28:16
1	V 292.402†	101.3	462.6	0.0067	mg/L	0.0067	mg/L	21:28:05
1	Zn 213.857†	5348.4	4889.6	0.0384	mg/L	0.0384	mg/L	21:28:16
2	B 249.677†	72.4	89.2	0.0509	mg/L	0.0509	mg/L	21:27:56
2	Fe 234.349†	6192.6	7060.0	4.561	mg/L	4.561	mg/L	21:27:56
2	K 766.490†	14408.2	15624.1	8.689	mg/L	8.689	mg/L	21:27:46
2	Li 670.784†	257.4	529.4	0.0190	mg/L	0.0190	mg/L	21:27:46
2	Na 589.592†	1235448.8	1409359.3	256.5	mg/L	256.5	mg/L	21:27:46
2	Sr 407.771†	352213.4	401859.7	0.4689	mg/L	0.4689	mg/L	21:27:46
2	Y 371.029	2366930.6	2366930.6	0.876	mg/L			21:28:21
2	Ag 328.068†	1491.5	-163.1	0.0010	mg/L	0.0010	mg/L	21:28:23
2	Al 237.313†	9257.6	10994.8	1.230	mg/L	1.230	mg/L	21:28:23
2	As 188.979†	-7.7	-2.1	0.0028	mg/L	0.0028	mg/L	21:28:34
2	B 182.528†	33.3	47.6	0.0510	mg/L	0.0510	mg/L	21:28:34
2	Ba 233.527†	5251.4	6089.6	0.0562	mg/L	0.0562	mg/L	21:28:34
2	Be 313.107†	-1377.7	-134.1	0.0003	mg/L	0.0003	mg/L	21:28:23
2	Ca 315.887†	7698732.1	8787325.0	95.80	mg/L	95.80	mg/L	21:28:18
2	Cd 228.802†	149.2	11.3	0.0013	mg/L	0.0013	mg/L	21:28:34
2	Co 228.616†	-136.7	85.8	0.0016	mg/L	0.0016	mg/L	21:28:34
2	Cr 267.716†	1004.3	579.8	0.0085	mg/L	0.0085	mg/L	21:28:23
2	Cu 324.752†	4679.1	536.7	0.0074	mg/L	0.0074	mg/L	21:28:23
2	Mg 279.077†	294123.5	335637.1	27.08	mg/L	27.08	mg/L	21:28:21
2	Mn 257.610†	1680125.1	1901211.3	2.447	mg/L	2.447	mg/L	21:28:21
2	Mn 294.920†	809573.1	925181.0	2.414	mg/L	2.414	mg/L	21:28:21
2	Mo 202.031†	324.9	334.8	0.0160	mg/L	0.0160	mg/L	21:28:34
2	Ni 231.604†	286.3	168.7	0.0054	mg/L	0.0054	mg/L	21:28:34
2	P 214.914†	1399.4	1624.1	1.064	mg/L	1.064	mg/L	21:28:34
2	Pb 220.353†	119.9	-45.3	-0.0036	mg/L	-0.0036	mg/L	21:28:34
2	Sb 206.836†	54.0	13.7	0.0094	mg/L	0.0094	mg/L	21:28:34
2	Se 196.026†	17.7	9.3	0.0104	mg/L	0.0104	mg/L	21:28:34
2	Sn 189.927†	-619.8	-736.6	-0.0512	mg/L	-0.0512	mg/L	21:28:34
2	Ti 337.279†	55360.1	63794.2	0.0794	mg/L	0.0794	mg/L	21:28:23
2	Tl 190.801†	9.9	16.1	0.0160	mg/L	0.0160	mg/L	21:28:34
2	V 292.402†	63.4	420.7	0.0065	mg/L	0.0065	mg/L	21:28:23
2	Zn 213.857†	5321.7	4927.5	0.0387	mg/L	0.0387	mg/L	21:28:34

Mean Data: 1307080-05

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	2380348.0	0.881	mg/L	0.0070				0.80%
Ag 328.068†	-180.6	0.0009	mg/L	0.00014	0.0009	mg/L	0.00014	15.55%
Al 237.313†	11053.9	1.237	mg/L	0.0093	1.237	mg/L	0.0093	0.75%
As 188.979†	1.0	0.0051	mg/L	0.00326	0.0051	mg/L	0.00326	63.74%
B 249.677†	85.0	0.0486	mg/L	0.00329	0.0486	mg/L	0.00329	6.77%
B 182.528†	50.8	0.0545	mg/L	0.00495	0.0545	mg/L	0.00495	9.09%
Ba 233.527†	6082.9	0.0561	mg/L	0.00008	0.0561	mg/L	0.00008	0.15%
Be 313.107†	-86.0	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	9.21%
Ca 315.887†	8697342.6	94.82	mg/L	1.387	94.82	mg/L	1.387	1.46%
Cd 228.802†	7.3	0.0012	mg/L	0.00018	0.0012	mg/L	0.00018	15.20%
Co 228.616†	69.2	0.0012	mg/L	0.00047	0.0012	mg/L	0.00047	37.89%
Cr 267.716†	586.6	0.0085	mg/L	0.00008	0.0085	mg/L	0.00008	0.99%
Cu 324.752†	511.9	0.0072	mg/L	0.00019	0.0072	mg/L	0.00019	2.62%
Fe 234.349†	7018.1	4.535	mg/L	0.0372	4.535	mg/L	0.0372	0.82%
K 766.490†	15536.1	8.641	mg/L	0.0678	8.641	mg/L	0.0678	0.78%
Li 670.784†	531.2	0.0190	mg/L	0.00007	0.0190	mg/L	0.00007	0.37%
Mg 279.077†	335860.4	27.09	mg/L	0.025	27.09	mg/L	0.025	0.09%
Mn 257.610†	1900628.3	2.446	mg/L	0.0011	2.446	mg/L	0.0011	0.04%
Mn 294.920†	924682.4	2.413	mg/L	0.0018	2.413	mg/L	0.0018	0.08%
Mo 202.031†	346.6	0.0165	mg/L	0.00072	0.0165	mg/L	0.00072	4.34%
Na 589.592†	1399528.6	254.8	mg/L	2.53	254.8	mg/L	2.53	0.99%
Ni 231.604†	159.4	0.0052	mg/L	0.00029	0.0052	mg/L	0.00029	5.64%
P 214.914†	1618.4	1.060	mg/L	0.0050	1.060	mg/L	0.0050	0.47%
Pb 220.353†	-77.6	-0.0058	mg/L	0.00321	-0.0058	mg/L	0.00321	55.19%
Sb 206.836†	20.0	0.0123	mg/L	0.00412	0.0123	mg/L	0.00412	33.52%
Se 196.026†	0.0	0.0041	mg/L	0.000894	0.0041	mg/L	0.000894	217.34%
Sn 189.927†	-731.2	-0.0510	mg/L	0.00028	-0.0510	mg/L	0.00028	0.54%
Sr 407.771†	398310.8	0.4648	mg/L	0.00585	0.4648	mg/L	0.00585	1.26%
Ti 337.279†	63533.5	0.0791	mg/L	0.00043	0.0791	mg/L	0.00043	0.54%
Tl 190.801†	19.7	0.0194	mg/L	0.00492	0.0194	mg/L	0.00492	25.28%
V 292.402†	441.6	0.0066	mg/L	0.00015	0.0066	mg/L	0.00015	2.20%
Zn 213.857†	4908.5	0.0386	mg/L	0.00019	0.0386	mg/L	0.00019	0.50%

Sequence No.: 115
Sample ID: 1307081-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 98
Date Collected: 7/5/2013 9:30:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307081-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Conc. Units	Sample Units	Analysis Time
1	B 249.677†	52.7	65.1	0.0375 mg/L	0.0375 mg/L	0.0375 mg/L	0.0375 mg/L	21:32:04
1	Fe 234.349†	117354.8	130491.5	86.76 mg/L	86.76 mg/L	86.76 mg/L	86.76 mg/L	21:31:54
1	K 766.490†	67658.4	74418.0	40.73 mg/L	40.73 mg/L	40.73 mg/L	40.73 mg/L	21:31:54
1	Li 670.784†	9025.6	10272.1	0.2868 mg/L	0.2868 mg/L	0.2868 mg/L	0.2868 mg/L	21:31:54
1	Na 589.592†	110376.1	122258.1	22.36 mg/L	22.36 mg/L	22.36 mg/L	22.36 mg/L	21:31:54
1	Sr 407.771†	412895.2	459067.7	0.5356 mg/L	0.5356 mg/L	0.5356 mg/L	0.5356 mg/L	21:31:54
1	Y 371.029	2428994.8	2428994.8	0.899 mg/L	0.899 mg/L	0.899 mg/L	0.899 mg/L	21:32:25
1	Ag 328.068†	745.7	-1035.9	-0.0017 mg/L	-0.0017 mg/L	-0.0017 mg/L	-0.0017 mg/L	21:32:25
1	Al 237.313†	574682.6	639475.9	70.78 mg/L	70.78 mg/L	70.78 mg/L	70.78 mg/L	21:32:25
1	As 188.979†	26.1	35.6	0.0300 mg/L	0.0300 mg/L	0.0300 mg/L	0.0300 mg/L	21:32:36
1	B 182.528†	33.7	47.1	0.0504 mg/L	0.0504 mg/L	0.0504 mg/L	0.0504 mg/L	21:32:36
1	Ba 233.527†	58215.8	64832.8	0.5680 mg/L	0.5680 mg/L	0.5680 mg/L	0.5680 mg/L	21:32:25
1	Be 313.107†	14185.6	17212.4	0.0072 mg/L	0.0072 mg/L	0.0072 mg/L	0.0072 mg/L	21:32:25
1	Ca 315.887†	13454809.2	14963586.2	163.1 mg/L	163.1 mg/L	163.1 mg/L	163.1 mg/L	21:32:22
1	Cd 228.802†	193.7	56.3	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	21:32:36
1	Co 228.616†	2136.3	2617.3	0.0460 mg/L	0.0460 mg/L	0.0460 mg/L	0.0460 mg/L	21:32:36
1	Cr 267.716†	14745.2	15830.4	0.1414 mg/L	0.1414 mg/L	0.1414 mg/L	0.1414 mg/L	21:32:25
1	Cu 324.752†	15784.2	12749.1	0.0765 mg/L	0.0765 mg/L	0.0765 mg/L	0.0765 mg/L	21:32:25
1	Mg 279.077†	399405.9	444134.8	35.82 mg/L	35.82 mg/L	35.82 mg/L	35.82 mg/L	21:32:25
1	Mn 257.610†	2632590.3	2911360.6	3.728 mg/L	3.728 mg/L	3.728 mg/L	3.728 mg/L	21:32:25
1	Mn 294.920†	1291759.6	1437765.4	3.751 mg/L	3.751 mg/L	3.751 mg/L	3.751 mg/L	21:32:25
1	Mo 202.031†	492.6	511.8	0.0108 mg/L	0.0108 mg/L	0.0108 mg/L	0.0108 mg/L	21:32:36
1	Ni 231.604†	3432.6	3659.0	0.0832 mg/L	0.0832 mg/L	0.0832 mg/L	0.0832 mg/L	21:32:36
1	P 214.914†	9819.4	10946.3	6.902 mg/L	6.902 mg/L	6.902 mg/L	6.902 mg/L	21:32:36
1	Pb 220.353†	2796.6	2927.7	0.1918 mg/L	0.1918 mg/L	0.1918 mg/L	0.1918 mg/L	21:32:36
1	Sb 206.836†	76.8	37.5	-0.0041 mg/L	-0.0041 mg/L	-0.0041 mg/L	-0.0041 mg/L	21:32:36
1	Se 196.026†	-9.7	-21.7	-0.0272 mg/L	-0.0272 mg/L	-0.0272 mg/L	-0.0272 mg/L	21:32:36
1	Sn 189.927†	-728.8	-839.7	-0.0248 mg/L	-0.0248 mg/L	-0.0248 mg/L	-0.0248 mg/L	21:32:36
1	Ti 337.279†	2290678.5	2547848.0	2.979 mg/L	2.979 mg/L	2.979 mg/L	2.979 mg/L	21:32:25
1	Tl 190.801†	28.5	36.5	-0.0132 mg/L	-0.0132 mg/L	-0.0132 mg/L	-0.0132 mg/L	21:32:36
1	V 292.402†	38905.8	43611.4	0.1975 mg/L	0.1975 mg/L	0.1975 mg/L	0.1975 mg/L	21:32:25
1	Zn 213.857†	48216.4	52471.1	0.3842 mg/L	0.3842 mg/L	0.3842 mg/L	0.3842 mg/L	21:32:25
2	B 249.677†	53.1	65.1	0.0375 mg/L	0.0375 mg/L	0.0375 mg/L	0.0375 mg/L	21:32:16
2	Fe 234.349†	115564.3	127525.3	84.78 mg/L	84.78 mg/L	84.78 mg/L	84.78 mg/L	21:32:06
2	K 766.490†	67229.3	73373.6	40.16 mg/L	40.16 mg/L	40.16 mg/L	40.16 mg/L	21:32:06
2	Li 670.784†	8913.3	10072.0	0.2813 mg/L	0.2813 mg/L	0.2813 mg/L	0.2813 mg/L	21:32:06
2	Na 589.592†	109225.0	120056.6	21.96 mg/L	21.96 mg/L	21.96 mg/L	21.96 mg/L	21:32:06
2	Sr 407.771†	407459.0	449584.7	0.5246 mg/L	0.5246 mg/L	0.5246 mg/L	0.5246 mg/L	21:32:06
2	Y 371.029	2447566.5	2447566.5	0.906 mg/L	0.906 mg/L	0.906 mg/L	0.906 mg/L	21:32:43
2	Ag 328.068†	888.2	-885.0	-0.0010 mg/L	-0.0010 mg/L	-0.0010 mg/L	-0.0010 mg/L	21:32:43
2	Al 237.313†	579608.6	640063.0	70.85 mg/L	70.85 mg/L	70.85 mg/L	70.85 mg/L	21:32:43
2	As 188.979†	24.6	33.8	0.0287 mg/L	0.0287 mg/L	0.0287 mg/L	0.0287 mg/L	21:32:53
2	B 182.528†	39.7	53.4	0.0572 mg/L	0.0572 mg/L	0.0572 mg/L	0.0572 mg/L	21:32:53
2	Ba 233.527†	58734.9	64914.4	0.5687 mg/L	0.5687 mg/L	0.5687 mg/L	0.5687 mg/L	21:32:43
2	Be 313.107†	14250.4	17164.1	0.0072 mg/L	0.0072 mg/L	0.0072 mg/L	0.0072 mg/L	21:32:43
2	Ca 315.887†	13609347.6	15020601.6	163.7 mg/L	163.7 mg/L	163.7 mg/L	163.7 mg/L	21:32:39
2	Cd 228.802†	190.8	51.5	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	0.0012 mg/L	21:32:53
2	Co 228.616†	2126.9	2589.0	0.0455 mg/L	0.0455 mg/L	0.0455 mg/L	0.0455 mg/L	21:32:53
2	Cr 267.716†	14970.3	15954.4	0.1425 mg/L	0.1425 mg/L	0.1425 mg/L	0.1425 mg/L	21:32:43
2	Cu 324.752†	15963.9	12814.2	0.0769 mg/L	0.0769 mg/L	0.0769 mg/L	0.0769 mg/L	21:32:43
2	Mg 279.077†	403395.8	445167.8	35.90 mg/L	35.90 mg/L	35.90 mg/L	35.90 mg/L	21:32:43
2	Mn 257.610†	2657560.3	2916703.6	3.735 mg/L	3.735 mg/L	3.735 mg/L	3.735 mg/L	21:32:43
2	Mn 294.920†	1303561.4	1439890.0	3.757 mg/L	3.757 mg/L	3.757 mg/L	3.757 mg/L	21:32:43
2	Mo 202.031†	460.3	472.0	0.0094 mg/L	0.0094 mg/L	0.0094 mg/L	0.0094 mg/L	21:32:53
2	Ni 231.604†	3450.6	3649.9	0.0830 mg/L	0.0830 mg/L	0.0830 mg/L	0.0830 mg/L	21:32:53
2	P 214.914†	9863.0	10911.5	6.880 mg/L	6.880 mg/L	6.880 mg/L	6.880 mg/L	21:32:53
2	Pb 220.353†	2825.3	2935.7	0.1924 mg/L	0.1924 mg/L	0.1924 mg/L	0.1924 mg/L	21:32:53
2	Sb 206.836†	95.3	57.4	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	21:32:53
2	Se 196.026†	-4.0	-15.3	-0.0224 mg/L	-0.0224 mg/L	-0.0224 mg/L	-0.0224 mg/L	21:32:53
2	Sn 189.927†	-743.0	-849.3	-0.0259 mg/L	-0.0259 mg/L	-0.0259 mg/L	-0.0259 mg/L	21:32:53
2	Ti 337.279†	2300692.4	2539571.0	2.969 mg/L	2.969 mg/L	2.969 mg/L	2.969 mg/L	21:32:43

2	Tl 190.801†	23.3	30.5	-0.0179 mg/L	-0.0179 mg/L	21:32:53
2	V 292.402†	39479.2	43915.9	0.1989 mg/L	0.1989 mg/L	21:32:43
2	Zn 213.857†	48723.3	52623.7	0.3854 mg/L	0.3854 mg/L	21:32:43

Mean Data: 1307081-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2438280.7	0.903 mg/L		0.0049			0.54%
Ag 328.068†	-960.4	-0.0014 mg/L		0.00056	-0.0014 mg/L	0.00056	41.07%
Al 237.313†	639769.5	70.81 mg/L		0.046	70.81 mg/L	0.046	0.06%
As 188.979†	34.7	0.0293 mg/L		0.00092	0.0293 mg/L	0.00092	3.14%
B 249.677†	65.1	0.0375 mg/L		0.00001	0.0375 mg/L	0.00001	0.03%
B 182.528†	50.2	0.0538 mg/L		0.00481	0.0538 mg/L	0.00481	8.94%
Ba 233.527†	64873.6	0.5683 mg/L		0.00050	0.5683 mg/L	0.00050	0.09%
Be 313.107†	17188.2	0.0072 mg/L		0.00001	0.0072 mg/L	0.00001	0.18%
Ca 315.887†	14992093.9	163.4 mg/L		0.44	163.4 mg/L	0.44	0.27%
Cd 228.802†	53.9	0.0012 mg/L		0.00008	0.0012 mg/L	0.00008	6.81%
Co 228.616†	2603.1	0.0457 mg/L		0.00039	0.0457 mg/L	0.00039	0.85%
Cr 267.716†	15892.4	0.1419 mg/L		0.00076	0.1419 mg/L	0.00076	0.54%
Cu 324.752†	12781.6	0.0767 mg/L		0.00024	0.0767 mg/L	0.00024	0.31%
Fe 234.349†	129008.4	85.77 mg/L		1.399	85.77 mg/L	1.399	1.63%
K 766.490†	73895.8	40.45 mg/L		0.402	40.45 mg/L	0.402	1.00%
Li 670.784†	10172.0	0.2840 mg/L		0.00389	0.2840 mg/L	0.00389	1.37%
Mg 279.077†	444651.3	35.86 mg/L		0.059	35.86 mg/L	0.059	0.16%
Mn 257.610†	2914032.1	3.731 mg/L		0.0052	3.731 mg/L	0.0052	0.14%
Mn 294.920†	1438827.7	3.754 mg/L		0.0039	3.754 mg/L	0.0039	0.10%
Mo 202.031†	491.9	0.0101 mg/L		0.00099	0.0101 mg/L	0.00099	9.77%
Na 589.592†	121157.4	22.16 mg/L		0.283	22.16 mg/L	0.283	1.28%
Ni 231.604†	3654.4	0.0831 mg/L		0.00015	0.0831 mg/L	0.00015	0.18%
P 214.914†	10928.9	6.891 mg/L		0.0154	6.891 mg/L	0.0154	0.22%
Pb 220.353†	2931.7	0.1921 mg/L		0.00039	0.1921 mg/L	0.00039	0.20%
Sb 206.836†	47.4	0.0008 mg/L		0.00694	0.0008 mg/L	0.00694	847.37%
Se 196.026†	-18.5	-0.0248 mg/L		0.00338	-0.0248 mg/L	0.00338	13.63%
Sn 189.927†	-844.5	-0.0254 mg/L		0.00073	-0.0254 mg/L	0.00073	2.90%
Sr 407.771†	454326.2	0.5301 mg/L		0.00782	0.5301 mg/L	0.00782	1.47%
Ti 337.279†	2543709.5	2.974 mg/L		0.0068	2.974 mg/L	0.0068	0.23%
Tl 190.801†	33.5	-0.0155 mg/L		0.00329	-0.0155 mg/L	0.00329	21.19%
V 292.402†	43763.7	0.1982 mg/L		0.00098	0.1982 mg/L	0.00098	0.49%
Zn 213.857†	52547.4	0.3848 mg/L		0.00086	0.3848 mg/L	0.00086	0.22%

Sequence No.: 116

Sample ID: 1307081-04

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 99

Date Collected: 7/5/2013 9:34:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307081-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	84.1	99.4	0.0566 mg/L	0.0566 mg/L	21:36:27
1	Fe 234.349†	26348.9	29088.0	19.24 mg/L	19.24 mg/L	21:36:27
1	K 766.490†	43814.6	47562.7	26.10 mg/L	26.10 mg/L	21:36:17
1	Li 670.784†	2754.6	3277.2	0.0945 mg/L	0.0945 mg/L	21:36:17
1	Na 589.592†	92782.7	101972.0	18.67 mg/L	18.67 mg/L	21:36:17
1	Sr 407.771†	320709.8	354060.8	0.4132 mg/L	0.4132 mg/L	21:36:17
1	Y 371.029	2446121.8	2446121.8	0.906 mg/L		21:36:46
1	Ag 328.068†	1384.0	-336.9	0.0004 mg/L	0.0004 mg/L	21:36:48
1	Al 237.313†	114359.6	126707.5	14.04 mg/L	14.04 mg/L	21:36:48
1	As 188.979†	6.4	13.7	0.0142 mg/L	0.0142 mg/L	21:36:58
1	B 182.528†	20.6	32.3	0.0345 mg/L	0.0345 mg/L	21:36:58
1	Ba 233.527†	20145.0	22341.4	0.1978 mg/L	0.1978 mg/L	21:36:48
1	Be 313.107†	2104.5	3761.9	0.0019 mg/L	0.0019 mg/L	21:36:48
1	Ca 315.887†	8299528.5	9166309.2	99.93 mg/L	99.93 mg/L	21:36:43
1	Cd 228.802†	154.7	11.8	0.0010 mg/L	0.0010 mg/L	21:36:58
1	Co 228.616†	364.5	644.2	0.0119 mg/L	0.0119 mg/L	21:36:58
1	Cr 267.716†	5391.8	5387.5	0.0504 mg/L	0.0504 mg/L	21:36:48
1	Cu 324.752†	8190.1	4240.7	0.0277 mg/L	0.0277 mg/L	21:36:48
1	Mg 279.077†	130614.5	144222.6	11.65 mg/L	11.65 mg/L	21:36:48
1	Mn 257.610†	672835.3	726879.8	0.9325 mg/L	0.9325 mg/L	21:36:46
1	Mn 294.920†	326397.6	361744.2	0.9449 mg/L	0.9449 mg/L	21:36:48

1	Mo 202.031†	508.1	525.1	0.0218 mg/L	0.0218 mg/L	21:36:58
1	Ni 231.604†	1068.0	1021.3	0.0244 mg/L	0.0244 mg/L	21:36:58
1	P 214.914†	3137.2	3491.2	2.233 mg/L	2.233 mg/L	21:36:58
1	Pb 220.353†	723.6	616.9	0.0405 mg/L	0.0405 mg/L	21:36:58
1	Sb 206.836†	63.3	22.0	0.0088 mg/L	0.0088 mg/L	21:36:58
1	Se 196.026†	-6.6	-18.2	-0.0113 mg/L	-0.0113 mg/L	21:36:58
1	Sn 189.927†	-614.8	-708.1	-0.0444 mg/L	-0.0444 mg/L	21:36:58
1	Ti 337.279†	346726.8	383479.4	0.4525 mg/L	0.4525 mg/L	21:36:48
1	Tl 190.801†	14.9	21.3	0.0120 mg/L	0.0120 mg/L	21:36:58
1	V 292.402†	10474.3	11914.2	0.0583 mg/L	0.0583 mg/L	21:36:48
1	Zn 213.857†	17602.1	18291.0	0.1362 mg/L	0.1362 mg/L	21:36:48
2	B 249.677†	70.1	84.9	0.0485 mg/L	0.0485 mg/L	21:36:39
2	Fe 234.349†	26428.5	29532.5	19.54 mg/L	19.54 mg/L	21:36:39
2	K 766.490†	43629.1	47946.7	26.30 mg/L	26.30 mg/L	21:36:29
2	Li 670.784†	2770.4	3332.1	0.0960 mg/L	0.0960 mg/L	21:36:29
2	Na 589.592†	92456.0	102859.1	18.83 mg/L	18.83 mg/L	21:36:29
2	Sr 407.771†	318139.6	355516.3	0.4149 mg/L	0.4149 mg/L	21:36:29
2	Y 371.029	2416586.1	2416586.1	0.895 mg/L		21:37:04
2	Ag 328.068†	1353.8	-352.0	0.0003 mg/L	0.0003 mg/L	21:37:06
2	Al 237.313†	113264.0	127026.4	14.07 mg/L	14.07 mg/L	21:37:06
2	As 188.979†	-2.7	3.6	0.0069 mg/L	0.0069 mg/L	21:37:16
2	B 182.528†	19.3	31.2	0.0333 mg/L	0.0333 mg/L	21:37:16
2	Ba 233.527†	20068.5	22527.8	0.1994 mg/L	0.1994 mg/L	21:37:06
2	Be 313.107†	2103.2	3788.7	0.0019 mg/L	0.0019 mg/L	21:37:06
2	Ca 315.887†	8329786.9	9312137.8	101.5 mg/L	101.5 mg/L	21:37:01
2	Cd 228.802†	154.6	13.8	0.0011 mg/L	0.0011 mg/L	21:37:16
2	Co 228.616†	341.5	623.5	0.0115 mg/L	0.0115 mg/L	21:37:16
2	Cr 267.716†	5283.3	5338.9	0.0499 mg/L	0.0499 mg/L	21:37:06
2	Cu 324.752†	8081.1	4229.4	0.0277 mg/L	0.0277 mg/L	21:37:06
2	Mg 279.077†	129448.7	144682.3	11.69 mg/L	11.69 mg/L	21:37:06
2	Mn 257.610†	661218.3	722975.8	0.9274 mg/L	0.9274 mg/L	21:37:04
2	Mn 294.920†	323749.9	363189.8	0.9487 mg/L	0.9487 mg/L	21:37:06
2	Mo 202.031†	485.9	507.2	0.0210 mg/L	0.0210 mg/L	21:37:16
2	Ni 231.604†	1078.6	1047.5	0.0250 mg/L	0.0250 mg/L	21:37:16
2	P 214.914†	3152.4	3550.6	2.270 mg/L	2.270 mg/L	21:37:16
2	Pb 220.353†	702.8	603.4	0.0396 mg/L	0.0396 mg/L	21:37:16
2	Sb 206.836†	68.0	28.2	0.0116 mg/L	0.0116 mg/L	21:37:16
2	Se 196.026†	2.5	-8.1	-0.0045 mg/L	-0.0045 mg/L	21:37:16
2	Sn 189.927†	-600.6	-700.6	-0.0423 mg/L	-0.0423 mg/L	21:37:16
2	Ti 337.279†	343692.8	384767.7	0.4540 mg/L	0.4540 mg/L	21:37:06
2	Tl 190.801†	22.0	29.4	0.0198 mg/L	0.0198 mg/L	21:37:16
2	V 292.402†	10653.6	12255.8	0.0598 mg/L	0.0598 mg/L	21:37:06
2	Zn 213.857†	17612.6	18540.4	0.1380 mg/L	0.1380 mg/L	21:37:06

Mean Data: 1307081-04

Analyte	Mean Corrected		Calib	Std.Dev.	Sample			RSD
	Intensity	Conc.			Conc.	Units	Std.Dev.	
Y 371.029	2431354.0	0.900	mg/L	0.0077			0.86%	
Ag 328.068†	-344.5	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	14.73%
Al 237.313†	126867.0	14.05	mg/L	0.025	14.05	mg/L	0.025	0.18%
As 188.979†	8.7	0.0106	mg/L	0.00517	0.0106	mg/L	0.00517	48.84%
B 249.677†	92.1	0.0526	mg/L	0.00571	0.0526	mg/L	0.00571	10.86%
B 182.528†	31.7	0.0339	mg/L	0.00085	0.0339	mg/L	0.00085	2.49%
Ba 233.527†	22434.6	0.1986	mg/L	0.00115	0.1986	mg/L	0.00115	0.58%
Be 313.107†	3775.3	0.0019	mg/L	0.00001	0.0019	mg/L	0.00001	0.41%
Ca 315.887†	9239223.5	100.7	mg/L	1.12	100.7	mg/L	1.12	1.12%
Cd 228.802†	12.8	0.0011	mg/L	0.00004	0.0011	mg/L	0.00004	3.84%
Co 228.616†	633.9	0.0117	mg/L	0.00030	0.0117	mg/L	0.00030	2.52%
Cr 267.716†	5363.2	0.0502	mg/L	0.00030	0.0502	mg/L	0.00030	0.60%
Cu 324.752†	4235.1	0.0277	mg/L	0.00004	0.0277	mg/L	0.00004	0.15%
Fe 234.349†	29310.2	19.39	mg/L	0.208	19.39	mg/L	0.208	1.07%
K 766.490†	47754.7	26.20	mg/L	0.148	26.20	mg/L	0.148	0.56%
Li 670.784†	3304.7	0.0953	mg/L	0.00107	0.0953	mg/L	0.00107	1.12%
Mg 279.077†	144452.5	11.67	mg/L	0.026	11.67	mg/L	0.026	0.22%
Mn 257.610†	724927.8	0.9299	mg/L	0.00360	0.9299	mg/L	0.00360	0.39%
Mn 294.920†	362467.0	0.9468	mg/L	0.00267	0.9468	mg/L	0.00267	0.28%
Mo 202.031†	516.1	0.0214	mg/L	0.00057	0.0214	mg/L	0.00057	2.66%
Na 589.592†	102415.5	18.75	mg/L	0.114	18.75	mg/L	0.114	0.61%
Ni 231.604†	1034.4	0.0247	mg/L	0.00041	0.0247	mg/L	0.00041	1.67%
P 214.914†	3520.9	2.252	mg/L	0.0263	2.252	mg/L	0.0263	1.17%
Pb 220.353†	610.1	0.0401	mg/L	0.00068	0.0401	mg/L	0.00068	1.70%
Sb 206.836†	25.1	0.0102	mg/L	0.00199	0.0102	mg/L	0.00199	19.51%

Se 196.026†	-13.2	-0.0079 mg/L	0.00485	-0.0079 mg/L	0.00485	61.33%
Sn 189.927†	-704.4	-0.0434 mg/L	0.00148	-0.0434 mg/L	0.00148	3.41%
Sr 407.771†	354788.5	0.4140 mg/L	0.00120	0.4140 mg/L	0.00120	0.29%
Ti 337.279†	384123.5	0.4532 mg/L	0.00106	0.4532 mg/L	0.00106	0.23%
Tl 190.801†	25.4	0.0159 mg/L	0.00549	0.0159 mg/L	0.00549	34.52%
V 292.402†	12085.0	0.0590 mg/L	0.00109	0.0590 mg/L	0.00109	1.84%
Zn 213.857†	18415.7	0.1371 mg/L	0.00129	0.1371 mg/L	0.00129	0.94%

Sequence No.: 117
Sample ID: 1307081-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 100
Date Collected: 7/5/2013 9:38:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307081-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	73.4	91.3	0.0522	mg/L	0.0522	mg/L	21:40:47
1	Fe 234.349†	565.0	645.9	0.1579	mg/L	0.1579	mg/L	21:40:47
1	K 766.490†	53301.5	60761.6	33.29	mg/L	33.29	mg/L	21:40:37
1	Li 670.784†	1651.8	2143.9	0.0634	mg/L	0.0634	mg/L	21:40:37
1	Na 589.592†	227442.5	262285.4	47.83	mg/L	47.83	mg/L	21:40:37
1	Sr 407.771†	470079.4	543013.9	0.6335	mg/L	0.6335	mg/L	21:40:37
1	Y 371.029	2337944.3	2337944.3	0.866	mg/L			21:41:07
1	Ag 328.068†	1353.4	-301.6	0.0001	mg/L	0.0001	mg/L	21:41:09
1	Al 237.313†	1467.2	2125.5	0.2486	mg/L	0.2486	mg/L	21:41:19
1	As 188.979†	-2.9	3.3	0.0068	mg/L	0.0068	mg/L	21:41:19
1	B 182.528†	1.8	11.7	0.0124	mg/L	0.0124	mg/L	21:41:19
1	Ba 233.527†	3534.1	4179.9	0.0395	mg/L	0.0395	mg/L	21:41:19
1	Be 313.107†	-1659.9	-479.7	0.0002	mg/L	0.0002	mg/L	21:41:09
1	Ca 315.887†	13689322.4	15817199.4	172.4	mg/L	172.4	mg/L	21:41:05
1	Cd 228.802†	155.4	20.5	0.0016	mg/L	0.0016	mg/L	21:41:19
1	Co 228.616†	-156.4	61.1	0.0012	mg/L	0.0012	mg/L	21:41:19
1	Cr 267.716†	602.9	130.3	0.0046	mg/L	0.0046	mg/L	21:41:09
1	Cu 324.752†	4245.8	102.3	0.0049	mg/L	0.0049	mg/L	21:41:09
1	Mg 279.077†	158559.0	183180.4	14.79	mg/L	14.79	mg/L	21:41:09
1	Mn 257.610†	31553.5	20381.4	0.0278	mg/L	0.0278	mg/L	21:41:09
1	Mn 294.920†	5982.7	8244.1	0.0230	mg/L	0.0230	mg/L	21:41:09
1	Mo 202.031†	926.0	1033.9	0.0464	mg/L	0.0464	mg/L	21:41:19
1	Ni 231.604†	224.1	100.8	0.0039	mg/L	0.0039	mg/L	21:41:19
1	P 214.914†	1536.4	1802.0	1.175	mg/L	1.175	mg/L	21:41:19
1	Pb 220.353†	42.9	-132.5	-0.0094	mg/L	-0.0094	mg/L	21:41:19
1	Sb 206.836†	66.2	28.7	0.0179	mg/L	0.0179	mg/L	21:41:19
1	Se 196.026†	4.4	-5.8	0.0010	mg/L	0.0010	mg/L	21:41:19
1	Sn 189.927†	-737.9	-881.8	-0.0253	mg/L	-0.0253	mg/L	21:41:19
1	Ti 337.279†	6453.7	8075.7	0.0143	mg/L	0.0143	mg/L	21:41:09
1	Tl 190.801†	31.5	41.2	0.0445	mg/L	0.0445	mg/L	21:41:19
1	V 292.402†	280.9	672.8	0.0082	mg/L	0.0082	mg/L	21:41:09
1	Zn 213.857†	3221.1	2576.0	0.0216	mg/L	0.0216	mg/L	21:41:19
2	B 249.677†	71.4	87.5	0.0500	mg/L	0.0500	mg/L	21:40:59
2	Fe 234.349†	577.2	648.7	0.1633	mg/L	0.1633	mg/L	21:40:59
2	K 766.490†	54481.5	61048.3	33.44	mg/L	33.44	mg/L	21:40:49
2	Li 670.784†	1693.7	2158.9	0.0638	mg/L	0.0638	mg/L	21:40:49
2	Na 589.592†	231891.1	262842.7	47.94	mg/L	47.94	mg/L	21:40:49
2	Sr 407.771†	479808.2	544772.6	0.6356	mg/L	0.6356	mg/L	21:40:49
2	Y 371.029	2378627.9	2378627.9	0.881	mg/L			21:41:25
2	Ag 328.068†	1319.5	-366.8	-0.0002	mg/L	-0.0002	mg/L	21:41:28
2	Al 237.313†	1421.9	2045.1	0.2397	mg/L	0.2397	mg/L	21:41:38
2	As 188.979†	-7.7	-2.2	0.0028	mg/L	0.0028	mg/L	21:41:38
2	B 182.528†	-6.4	2.2	0.0023	mg/L	0.0023	mg/L	21:41:38
2	Ba 233.527†	3487.5	4057.2	0.0385	mg/L	0.0385	mg/L	21:41:38
2	Be 313.107†	-1640.3	-424.6	0.0002	mg/L	0.0002	mg/L	21:41:28
2	Ca 315.887†	13753293.1	15619338.5	170.3	mg/L	170.3	mg/L	21:41:23
2	Cd 228.802†	139.3	-0.8	0.0010	mg/L	0.0010	mg/L	21:41:38
2	Co 228.616†	-178.9	38.7	0.0008	mg/L	0.0008	mg/L	21:41:38
2	Cr 267.716†	590.8	104.7	0.0043	mg/L	0.0043	mg/L	21:41:28
2	Cu 324.752†	4244.0	16.3	0.0045	mg/L	0.0045	mg/L	21:41:28
2	Mg 279.077†	162615.4	184653.4	14.91	mg/L	14.91	mg/L	21:41:28
2	Mn 257.610†	32200.3	20492.3	0.0280	mg/L	0.0280	mg/L	21:41:28
2	Mn 294.920†	6067.1	8221.7	0.0230	mg/L	0.0230	mg/L	21:41:28
2	Mo 202.031†	902.6	989.0	0.0445	mg/L	0.0445	mg/L	21:41:38

2	Ni 231.604†	224.7	97.2	0.0039 mg/L	0.0039 mg/L	21:41:38
2	P 214.914†	1513.8	1746.0	1.140 mg/L	1.140 mg/L	21:41:38
2	Pb 220.353†	-4.7	-187.4	-0.0133 mg/L	-0.0133 mg/L	21:41:38
2	Sb 206.836†	59.0	19.1	0.0134 mg/L	0.0134 mg/L	21:41:38
2	Se 196.026†	1.7	-8.9	-0.0012 mg/L	-0.0012 mg/L	21:41:38
2	Sn 189.927†	-728.6	-856.7	-0.0229 mg/L	-0.0229 mg/L	21:41:38
2	Ti 337.279†	7283.8	8890.9	0.0153 mg/L	0.0153 mg/L	21:41:28
2	Tl 190.801†	31.5	40.5	0.0438 mg/L	0.0438 mg/L	21:41:38
2	V 292.402†	90.9	451.5	0.0072 mg/L	0.0072 mg/L	21:41:28
2	Zn 213.857†	3163.2	2446.6	0.0206 mg/L	0.0206 mg/L	21:41:38

Mean Data: 1307081-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2358286.1	0.873 mg/L		0.0107			1.22%
Ag 328.068†	-334.2	-0.0001 mg/L		0.00026	-0.0001 mg/L	0.00026	387.35%
Al 237.313†	2085.3	0.2441 mg/L		0.00629	0.2441 mg/L	0.00629	2.58%
As 188.979†	0.6	0.0048 mg/L		0.00283	0.0048 mg/L	0.00283	58.94%
B 249.677†	89.4	0.0511 mg/L		0.00150	0.0511 mg/L	0.00150	2.93%
B 182.528†	7.0	0.0074 mg/L		0.00716	0.0074 mg/L	0.00716	97.24%
Ba 233.527†	4118.6	0.0390 mg/L		0.00076	0.0390 mg/L	0.00076	1.94%
Be 313.107†	-452.2	0.0002 mg/L		0.00002	0.0002 mg/L	0.00002	9.45%
Ca 315.887†	15718269.0	171.3 mg/L		1.52	171.3 mg/L	1.52	0.89%
Cd 228.802†	9.8	0.0013 mg/L		0.00047	0.0013 mg/L	0.00047	36.02%
Co 228.616†	49.9	0.0010 mg/L		0.00032	0.0010 mg/L	0.00032	31.66%
Cr 267.716†	117.5	0.0044 mg/L		0.00016	0.0044 mg/L	0.00016	3.58%
Cu 324.752†	59.3	0.0047 mg/L		0.00033	0.0047 mg/L	0.00033	6.90%
Fe 234.349†	647.3	0.1606 mg/L		0.00380	0.1606 mg/L	0.00380	2.36%
K 766.490†	60904.9	33.37 mg/L		0.110	33.37 mg/L	0.110	0.33%
Li 670.784†	2151.4	0.0636 mg/L		0.00029	0.0636 mg/L	0.00029	0.46%
Mg 279.077†	183916.9	14.85 mg/L		0.084	14.85 mg/L	0.084	0.57%
Mn 257.610†	20436.8	0.0279 mg/L		0.00010	0.0279 mg/L	0.00010	0.36%
Mn 294.920†	8232.9	0.0230 mg/L		0.00004	0.0230 mg/L	0.00004	0.18%
Mo 202.031†	1011.4	0.0454 mg/L		0.00135	0.0454 mg/L	0.00135	2.97%
Na 589.592†	262564.1	47.89 mg/L		0.072	47.89 mg/L	0.072	0.15%
Ni 231.604†	99.0	0.0039 mg/L		0.00006	0.0039 mg/L	0.00006	1.54%
P 214.914†	1774.0	1.157 mg/L		0.0248	1.157 mg/L	0.0248	2.14%
Pb 220.353†	-160.0	-0.0113 mg/L		0.00274	-0.0113 mg/L	0.00274	24.13%
Sb 206.836†	23.9	0.0157 mg/L		0.00318	0.0157 mg/L	0.00318	20.28%
Se 196.026†	-7.4	-0.0001 mg/L		0.00151	-0.0001 mg/L	0.00151	>999.9%
Sn 189.927†	-869.2	-0.0241 mg/L		0.00169	-0.0241 mg/L	0.00169	7.00%
Sr 407.771†	543893.3	0.6345 mg/L		0.00145	0.6345 mg/L	0.00145	0.23%
Ti 337.279†	8483.3	0.0148 mg/L		0.00067	0.0148 mg/L	0.00067	4.55%
Tl 190.801†	40.9	0.0442 mg/L		0.00046	0.0442 mg/L	0.00046	1.05%
V 292.402†	562.1	0.0077 mg/L		0.00073	0.0077 mg/L	0.00073	9.51%
Zn 213.857†	2511.3	0.0211 mg/L		0.00067	0.0211 mg/L	0.00067	3.18%

Sequence No.: 118

Sample ID: 1307100-04

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 7/5/2013 9:43:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307100-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	139.9	160.9	0.0908 mg/L	0.0908 mg/L	21:45:11
1	Fe 234.349†	79.6	81.1	0.0178 mg/L	0.0178 mg/L	21:45:11
1	K 766.490†	10625.0	10905.7	6.118 mg/L	6.118 mg/L	21:45:01
1	Li 670.784†	-181.3	35.5	0.0054 mg/L	0.0054 mg/L	21:45:01
1	Na 589.592†	79325.5	87047.5	15.95 mg/L	15.95 mg/L	21:45:01
1	Sr 407.771†	108940.4	120133.5	0.1404 mg/L	0.1404 mg/L	21:45:01
1	Y 371.029	2447935.3	2447935.3	0.906 mg/L		21:45:28
1	Ag 328.068†	1560.1	-143.8	0.0010 mg/L	0.0010 mg/L	21:45:30
1	Al 237.313†	804.2	1317.8	0.1592 mg/L	0.1592 mg/L	21:45:40
1	As 188.979†	0.7	7.4	0.0098 mg/L	0.0098 mg/L	21:45:40
1	B 182.528†	70.6	87.4	0.0937 mg/L	0.0937 mg/L	21:45:40
1	Ba 233.527†	1599.9	1862.3	0.0194 mg/L	0.0194 mg/L	21:45:40
1	Be 313.107†	-1301.8	1.7	0.0004 mg/L	0.0004 mg/L	21:45:30
1	Ca 315.887†	2368523.9	2615289.0	28.54 mg/L	28.54 mg/L	21:45:28

1	Cd	228.802†	146.8	2.9	0.0011	mg/L	0.0011	mg/L	21:45:40
1	Co	228.616†	-193.0	28.9	0.0006	mg/L	0.0006	mg/L	21:45:40
1	Cr	267.716†	716.8	224.7	0.0054	mg/L	0.0054	mg/L	21:45:40
1	Cu	324.752†	4546.4	213.5	0.0056	mg/L	0.0056	mg/L	21:45:30
1	Mg	279.077†	52965.0	58437.7	4.735	mg/L	4.735	mg/L	21:45:30
1	Mn	257.610†	176398.5	178564.4	0.2314	mg/L	0.2314	mg/L	21:45:30
1	Mn	294.920†	77029.2	86325.8	0.2266	mg/L	0.2266	mg/L	21:45:30
1	Mo	202.031†	224.6	211.9	0.0115	mg/L	0.0115	mg/L	21:45:40
1	Ni	231.604†	289.6	161.5	0.0052	mg/L	0.0052	mg/L	21:45:40
1	P	214.914†	1077.2	1215.6	0.8081	mg/L	0.8081	mg/L	21:45:40
1	Pb	220.353†	105.7	-65.5	-0.0048	mg/L	-0.0048	mg/L	21:45:40
1	Sb	206.836†	59.3	17.6	0.0125	mg/L	0.0125	mg/L	21:45:40
1	Se	196.026†	3.1	-7.5	-0.0001	mg/L	-0.0001	mg/L	21:45:40
1	Sn	189.927†	-280.5	-338.8	-0.0339	mg/L	-0.0339	mg/L	21:45:40
1	Ti	337.279†	-514.6	52.0	0.0050	mg/L	0.0050	mg/L	21:45:30
1	Tl	190.801†	6.4	11.8	0.0132	mg/L	0.0132	mg/L	21:45:40
1	V	292.402†	354.5	739.4	0.0081	mg/L	0.0081	mg/L	21:45:30
1	Zn	213.857†	3732.6	2973.1	0.0245	mg/L	0.0245	mg/L	21:45:40
2	B	249.677†	133.8	152.9	0.0863	mg/L	0.0863	mg/L	21:45:24
2	Fe	234.349†	81.9	82.8	0.0188	mg/L	0.0188	mg/L	21:45:24
2	K	766.490†	10573.3	10748.8	6.032	mg/L	6.032	mg/L	21:45:14
2	Li	670.784†	-65.1	164.4	0.0090	mg/L	0.0090	mg/L	21:45:14
2	Na	589.592†	78712.6	85628.1	15.69	mg/L	15.69	mg/L	21:45:14
2	Sr	407.771†	108021.0	118099.3	0.1381	mg/L	0.1381	mg/L	21:45:14
2	Y	371.029	2469060.5	2469060.5	0.914	mg/L			21:45:43
2	Ag	328.068†	1586.6	-129.5	0.0011	mg/L	0.0011	mg/L	21:45:45
2	Al	237.313†	817.6	1324.9	0.1600	mg/L	0.1600	mg/L	21:45:55
2	As	188.979†	-1.3	5.2	0.0082	mg/L	0.0082	mg/L	21:45:55
2	B	182.528†	67.4	83.3	0.0893	mg/L	0.0893	mg/L	21:45:55
2	Ba	233.527†	1604.0	1851.7	0.0193	mg/L	0.0193	mg/L	21:45:55
2	Be	313.107†	-1361.4	-51.3	0.0004	mg/L	0.0004	mg/L	21:45:45
2	Ca	315.887†	2395246.1	2622161.6	28.61	mg/L	28.61	mg/L	21:45:43
2	Cd	228.802†	146.7	1.4	0.0011	mg/L	0.0011	mg/L	21:45:55
2	Co	228.616†	-209.9	12.1	0.0003	mg/L	0.0003	mg/L	21:45:55
2	Cr	267.716†	742.3	245.9	0.0055	mg/L	0.0055	mg/L	21:45:55
2	Cu	324.752†	4588.3	216.5	0.0056	mg/L	0.0056	mg/L	21:45:45
2	Mg	279.077†	53277.5	58279.6	4.722	mg/L	4.722	mg/L	21:45:45
2	Mn	257.610†	177716.6	178341.0	0.2311	mg/L	0.2311	mg/L	21:45:45
2	Mn	294.920†	77897.9	86548.9	0.2272	mg/L	0.2272	mg/L	21:45:45
2	Mo	202.031†	224.6	209.8	0.0114	mg/L	0.0114	mg/L	21:45:55
2	Ni	231.604†	294.0	163.6	0.0053	mg/L	0.0053	mg/L	21:45:55
2	P	214.914†	1070.6	1198.2	0.7972	mg/L	0.7972	mg/L	21:45:55
2	Pb	220.353†	112.8	-58.7	-0.0043	mg/L	-0.0043	mg/L	21:45:55
2	Sb	206.836†	52.4	9.5	0.0087	mg/L	0.0087	mg/L	21:45:55
2	Se	196.026†	11.6	1.8	0.0062	mg/L	0.0062	mg/L	21:45:55
2	Sn	189.927†	-334.9	-395.6	-0.0423	mg/L	-0.0423	mg/L	21:45:55
2	Ti	337.279†	-226.6	372.0	0.0053	mg/L	0.0053	mg/L	21:45:45
2	Tl	190.801†	6.0	11.3	0.0127	mg/L	0.0127	mg/L	21:45:55
2	V	292.402†	364.0	746.4	0.0081	mg/L	0.0081	mg/L	21:45:45
2	Zn	213.857†	3745.9	2952.4	0.0244	mg/L	0.0244	mg/L	21:45:55

Mean Data: 1307100-04

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2458497.9	0.910 mg/L	0.0055			0.61%
Ag 328.068†	-136.6	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.48%
Al 237.313†	1321.3	0.1596 mg/L	0.00055	0.1596 mg/L	0.00055	0.35%
As 188.979†	6.3	0.0090 mg/L	0.00114	0.0090 mg/L	0.00114	12.68%
B 249.677†	156.9	0.0886 mg/L	0.00316	0.0886 mg/L	0.00316	3.57%
B 182.528†	85.3	0.0915 mg/L	0.00315	0.0915 mg/L	0.00315	3.44%
Ba 233.527†	1857.0	0.0193 mg/L	0.00007	0.0193 mg/L	0.00007	0.34%
Be 313.107†	-24.8	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.46%
Ca 315.887†	2618725.3	28.58 mg/L	0.053	28.58 mg/L	0.053	0.19%
Cd 228.802†	2.2	0.0011 mg/L	0.00003	0.0011 mg/L	0.00003	3.03%
Co 228.616†	20.5	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	56.23%
Cr 267.716†	235.3	0.0054 mg/L	0.00013	0.0054 mg/L	0.00013	2.40%
Cu 324.752†	215.0	0.0056 mg/L	0.00001	0.0056 mg/L	0.00001	0.21%
Fe 234.349†	81.9	0.0183 mg/L	0.00072	0.0183 mg/L	0.00072	3.93%
K 766.490†	10827.3	6.075 mg/L	0.0605	6.075 mg/L	0.0605	1.00%
Li 670.784†	99.9	0.0072 mg/L	0.00250	0.0072 mg/L	0.00250	34.80%
Mg 279.077†	58358.7	4.728 mg/L	0.0090	4.728 mg/L	0.0090	0.19%
Mn 257.610†	178452.7	0.2313 mg/L	0.00020	0.2313 mg/L	0.00020	0.09%

Mn 294.920†	86437.4	0.2269 mg/L	0.00041	0.2269 mg/L	0.00041	0.18%
Mo 202.031†	210.8	0.0114 mg/L	0.00007	0.0114 mg/L	0.00007	0.57%
Na 589.592†	86337.8	15.82 mg/L	0.183	15.82 mg/L	0.183	1.15%
Ni 231.604†	162.5	0.0053 mg/L	0.00003	0.0053 mg/L	0.00003	0.64%
P 214.914†	1206.9	0.8026 mg/L	0.00770	0.8026 mg/L	0.00770	0.96%
Pb 220.353†	-62.1	-0.0045 mg/L	0.00034	-0.0045 mg/L	0.00034	7.46%
Sb 206.836†	13.6	0.0106 mg/L	0.00268	0.0106 mg/L	0.00268	25.24%
Se 196.026†	-2.8	0.0031 mg/L	0.00448	0.0031 mg/L	0.00448	145.81%
Sn 189.927†	-367.2	-0.0381 mg/L	0.00591	-0.0381 mg/L	0.00591	15.52%
Sr 407.771†	119116.4	0.1393 mg/L	0.00168	0.1393 mg/L	0.00168	1.20%
Ti 337.279†	212.0	0.0051 mg/L	0.00026	0.0051 mg/L	0.00026	5.13%
Tl 190.801†	11.6	0.0130 mg/L	0.00036	0.0130 mg/L	0.00036	2.75%
V 292.402†	742.9	0.0081 mg/L	0.00002	0.0081 mg/L	0.00002	0.27%
Zn 213.857†	2962.8	0.0244 mg/L	0.00011	0.0244 mg/L	0.00011	0.44%

Sequence No.: 119
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 9:47:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	779.6	859.1	0.4801	mg/L	0.4801	mg/L	21:49:24
1	Fe 234.349†	3262.3	3560.8	2.370	mg/L	2.370	mg/L	21:49:24
1	K 766.490†	42911.5	46109.7	25.30	mg/L	25.30	mg/L	21:49:14
1	Li 670.784†	16596.7	18385.5	0.5098	mg/L	0.5098	mg/L	21:49:14
1	Na 589.592†	128184.9	139701.9	25.53	mg/L	25.53	mg/L	21:49:14
1	Sr 407.771†	38244.3	41753.0	0.0491	mg/L	0.0491	mg/L	21:49:14
1	Y 371.029	2469881.2	2469881.2	0.914	mg/L			21:49:40
1	Ag 328.068†	43528.4	45737.1	0.2554	mg/L	0.2554	mg/L	21:49:42
1	Al 237.313†	20023.4	22327.8	2.486	mg/L	2.486	mg/L	21:49:42
1	As 188.979†	593.7	655.9	0.4810	mg/L	0.4810	mg/L	21:49:53
1	B 182.528†	405.9	453.4	0.4866	mg/L	0.4866	mg/L	21:49:53
1	Ba 233.527†	51708.6	56644.9	0.4966	mg/L	0.4966	mg/L	21:49:42
1	Be 313.107†	101871.3	112843.3	0.0499	mg/L	0.0499	mg/L	21:49:42
1	Ca 315.887†	390740.7	429185.4	4.715	mg/L	4.715	mg/L	21:49:40
1	Cd 228.802†	7396.1	7929.2	0.2486	mg/L	0.2486	mg/L	21:49:53
1	Co 228.616†	22094.4	24404.0	0.4875	mg/L	0.4875	mg/L	21:49:42
1	Cr 267.716†	51799.4	56081.1	0.4926	mg/L	0.4926	mg/L	21:49:42
1	Cu 324.752†	88183.3	91633.4	0.4976	mg/L	0.4976	mg/L	21:49:42
1	Mg 279.077†	54908.1	60043.5	4.865	mg/L	4.865	mg/L	21:49:42
1	Mn 257.610†	369531.0	388042.6	0.5004	mg/L	0.5004	mg/L	21:49:42
1	Mn 294.920†	172514.4	189992.1	0.4970	mg/L	0.4970	mg/L	21:49:42
1	Mo 202.031†	10479.0	11423.8	0.4848	mg/L	0.4848	mg/L	21:49:53
1	Ni 231.604†	20190.3	21921.9	0.4910	mg/L	0.4910	mg/L	21:49:42
1	P 214.914†	6866.4	7536.1	4.758	mg/L	4.758	mg/L	21:49:53
1	Pb 220.353†	6418.5	6837.1	0.4829	mg/L	0.4829	mg/L	21:49:53
1	Sb 206.836†	991.7	1036.7	0.4888	mg/L	0.4888	mg/L	21:49:53
1	Se 196.026†	1285.9	1395.3	0.9609	mg/L	0.9609	mg/L	21:49:53
1	Sn 189.927†	3047.1	3302.9	0.4904	mg/L	0.4904	mg/L	21:49:53
1	Ti 337.279†	386387.1	423168.6	0.4988	mg/L	0.4988	mg/L	21:49:42
1	Tl 190.801†	449.6	496.5	0.4803	mg/L	0.4803	mg/L	21:49:53
1	V 292.402†	99082.6	108704.0	0.5064	mg/L	0.5064	mg/L	21:49:42
1	Zn 213.857†	62015.4	66674.0	0.4891	mg/L	0.4891	mg/L	21:49:42
2	B 249.677†	777.4	848.0	0.4739	mg/L	0.4739	mg/L	21:49:36
2	Fe 234.349†	3221.3	3480.4	2.317	mg/L	2.317	mg/L	21:49:36
2	K 766.490†	42715.2	45424.3	24.93	mg/L	24.93	mg/L	21:49:26
2	Li 670.784†	16476.3	18072.3	0.5012	mg/L	0.5012	mg/L	21:49:26
2	Na 589.592†	127631.6	137690.2	25.17	mg/L	25.17	mg/L	21:49:26
2	Sr 407.771†	37977.5	41042.7	0.0482	mg/L	0.0482	mg/L	21:49:26
2	Y 371.029	2495025.6	2495025.6	0.924	mg/L			21:49:55
2	Ag 328.068†	43036.4	44724.7	0.2498	mg/L	0.2498	mg/L	21:49:57
2	Al 237.313†	19589.3	21637.2	2.410	mg/L	2.410	mg/L	21:49:57
2	As 188.979†	597.8	653.8	0.4795	mg/L	0.4795	mg/L	21:50:07
2	B 182.528†	409.9	453.3	0.4865	mg/L	0.4865	mg/L	21:50:07
2	Ba 233.527†	51000.8	55308.9	0.4850	mg/L	0.4850	mg/L	21:49:57
2	Be 313.107†	100863.2	110629.3	0.0490	mg/L	0.0490	mg/L	21:49:57
2	Ca 315.887†	395805.6	430362.2	4.728	mg/L	4.728	mg/L	21:49:55
2	Cd 228.802†	7447.5	7903.4	0.2478	mg/L	0.2478	mg/L	21:50:07

2	Co	228.616†	21904.0	23954.3	0.4785 mg/L	0.4785 mg/L	21:49:57
2	Cr	267.716†	51326.2	54997.9	0.4832 mg/L	0.4832 mg/L	21:49:57
2	Cu	324.752†	87188.0	89584.1	0.4866 mg/L	0.4866 mg/L	21:49:57
2	Mg	279.077†	54099.0	58562.4	4.745 mg/L	4.745 mg/L	21:49:57
2	Mn	257.610†	365593.7	379707.6	0.4897 mg/L	0.4897 mg/L	21:49:57
2	Mn	294.920†	170512.9	185924.1	0.4864 mg/L	0.4864 mg/L	21:49:57
2	Mo	202.031†	10513.7	11345.9	0.4815 mg/L	0.4815 mg/L	21:50:07
2	Ni	231.604†	19946.5	21435.4	0.4802 mg/L	0.4802 mg/L	21:49:57
2	P	214.914†	6899.7	7496.5	4.734 mg/L	4.734 mg/L	21:50:07
2	Pb	220.353†	6493.1	6847.1	0.4836 mg/L	0.4836 mg/L	21:50:07
2	Sb	206.836†	1004.6	1039.7	0.4903 mg/L	0.4903 mg/L	21:50:07
2	Se	196.026†	1293.1	1389.0	0.9565 mg/L	0.9565 mg/L	21:50:07
2	Sn	189.927†	3050.8	3273.4	0.4860 mg/L	0.4860 mg/L	21:50:07
2	Ti	337.279†	382161.3	414335.4	0.4885 mg/L	0.4885 mg/L	21:49:57
2	Tl	190.801†	453.6	495.9	0.4798 mg/L	0.4798 mg/L	21:50:07
2	V	292.402†	98202.7	106659.4	0.4971 mg/L	0.4971 mg/L	21:49:57
2	Zn	213.857†	61460.4	65389.7	0.4798 mg/L	0.4798 mg/L	21:49:57

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2482453.4	0.919 mg/L	0.0066			0.72%
Ag 328.068†	45230.9	0.2526 mg/L	0.00397	0.2526 mg/L	0.00397	1.57%
QC value within limits for Ag 328.068 Recovery = 101.03%						
Al 237.313†	21982.5	2.448 mg/L	0.0541	2.448 mg/L	0.0541	2.21%
QC value within limits for Al 237.313 Recovery = 97.92%						
As 188.979†	654.8	0.4803 mg/L	0.00106	0.4803 mg/L	0.00106	0.22%
QC value within limits for As 188.979 Recovery = 96.05%						
B 249.677†	853.6	0.4770 mg/L	0.00435	0.4770 mg/L	0.00435	0.91%
QC value within limits for B 249.677 Recovery = 95.40%						
B 182.528†	453.4	0.4866 mg/L	0.00007	0.4866 mg/L	0.00007	0.01%
QC value within limits for B 182.528 Recovery = 97.31%						
Ba 233.527†	55976.9	0.4908 mg/L	0.00823	0.4908 mg/L	0.00823	1.68%
QC value within limits for Ba 233.527 Recovery = 98.16%						
Be 313.107†	111736.3	0.0495 mg/L	0.00069	0.0495 mg/L	0.00069	1.39%
QC value within limits for Be 313.107 Recovery = 98.91%						
Ca 315.887†	429773.8	4.721 mg/L	0.0090	4.721 mg/L	0.0090	0.19%
QC value within limits for Ca 315.887 Recovery = 94.43%						
Cd 228.802†	7916.3	0.2482 mg/L	0.00057	0.2482 mg/L	0.00057	0.23%
QC value within limits for Cd 228.802 Recovery = 99.27%						
Co 228.616†	24179.2	0.4830 mg/L	0.00635	0.4830 mg/L	0.00635	1.31%
QC value within limits for Co 228.616 Recovery = 96.60%						
Cr 267.716†	55539.5	0.4879 mg/L	0.00668	0.4879 mg/L	0.00668	1.37%
QC value within limits for Cr 267.716 Recovery = 97.58%						
Cu 324.752†	90608.7	0.4921 mg/L	0.00780	0.4921 mg/L	0.00780	1.59%
QC value within limits for Cu 324.752 Recovery = 98.42%						
Fe 234.349†	3520.6	2.343 mg/L	0.0378	2.343 mg/L	0.0378	1.61%
QC value within limits for Fe 234.349 Recovery = 93.74%						
K 766.490†	45767.0	25.12 mg/L	0.264	25.12 mg/L	0.264	1.05%
QC value within limits for K 766.490 Recovery = 100.47%						
Li 670.784†	18228.9	0.5055 mg/L	0.00609	0.5055 mg/L	0.00609	1.20%
QC value within limits for Li 670.784 Recovery = 101.10%						
Mg 279.077†	59303.0	4.805 mg/L	0.0844	4.805 mg/L	0.0844	1.76%
QC value within limits for Mg 279.077 Recovery = 96.10%						
Mn 257.610†	383875.1	0.4950 mg/L	0.00757	0.4950 mg/L	0.00757	1.53%
QC value within limits for Mn 257.610 Recovery = 99.01%						
Mn 294.920†	187958.1	0.4917 mg/L	0.00750	0.4917 mg/L	0.00750	1.53%
QC value within limits for Mn 294.920 Recovery = 98.34%						
Mo 202.031†	11384.8	0.4831 mg/L	0.00229	0.4831 mg/L	0.00229	0.47%
QC value within limits for Mo 202.031 Recovery = 96.63%						
Na 589.592†	138696.1	25.35 mg/L	0.259	25.35 mg/L	0.259	1.02%
QC value within limits for Na 589.592 Recovery = 101.39%						
Ni 231.604†	21678.6	0.4856 mg/L	0.00767	0.4856 mg/L	0.00767	1.58%
QC value within limits for Ni 231.604 Recovery = 97.12%						
P 214.914†	7516.3	4.746 mg/L	0.0175	4.746 mg/L	0.0175	0.37%
QC value within limits for P 214.914 Recovery = 94.92%						
Pb 220.353†	6842.1	0.4833 mg/L	0.00050	0.4833 mg/L	0.00050	0.10%
QC value within limits for Pb 220.353 Recovery = 96.65%						
Sb 206.836†	1038.2	0.4895 mg/L	0.00105	0.4895 mg/L	0.00105	0.21%
QC value within limits for Sb 206.836 Recovery = 97.91%						
Se 196.026†	1392.1	0.9587 mg/L	0.00306	0.9587 mg/L	0.00306	0.32%
QC value within limits for Se 196.026 Recovery = 95.87%						

Sn 189.927†	3288.2	0.4882 mg/L	0.00309	0.4882 mg/L	0.00309	0.63%
QC value within limits for Sn 189.927 Recovery = 97.64%						
Sr 407.771†	41397.8	0.0486 mg/L	0.00059	0.0486 mg/L	0.00059	1.20%
QC value within limits for Sr 407.771 Recovery = 97.27%						
Ti 337.279†	418752.0	0.4937 mg/L	0.00729	0.4937 mg/L	0.00729	1.48%
QC value within limits for Ti 337.279 Recovery = 98.73%						
Tl 190.801†	496.2	0.4800 mg/L	0.00036	0.4800 mg/L	0.00036	0.08%
QC value within limits for Tl 190.801 Recovery = 96.00%						
V 292.402†	107681.7	0.5017 mg/L	0.00662	0.5017 mg/L	0.00662	1.32%
QC value within limits for V 292.402 Recovery = 100.35%						
Zn 213.857†	66031.8	0.4845 mg/L	0.00662	0.4845 mg/L	0.00662	1.37%
QC value within limits for Zn 213.857 Recovery = 96.89%						
All analyte(s) passed QC.						

Sequence No.: 120
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/5/2013 9:51:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	1.8	8.4	0.0060	mg/L	0.0060 mg/L	21:53:38
1	Fe 234.349†	18.8	13.8	0.0198	mg/L	0.0198 mg/L	21:53:38
1	K 766.490†	872.1	136.1	0.2485	mg/L	0.2485 mg/L	21:53:28
1	Li 670.784†	-242.0	-29.1	0.0036	mg/L	0.0036 mg/L	21:53:28
1	Na 589.592†	879.5	482.3	0.2010	mg/L	0.2010 mg/L	21:53:28
1	Sr 407.771†	-28.9	-102.1	0.0002	mg/L	0.0002 mg/L	21:53:28
1	Y 371.029	2469227.6	2469227.6	0.914	mg/L		21:53:54
1	Ag 328.068†	1533.6	-187.5	0.0007	mg/L	0.0007 mg/L	21:53:57
1	Al 237.313†	-361.2	35.3	0.0173	mg/L	0.0173 mg/L	21:53:57
1	As 188.979†	0.7	7.4	0.0098	mg/L	0.0098 mg/L	21:54:07
1	B 182.528†	-9.7	-1.1	-0.0013	mg/L	-0.0013 mg/L	21:54:07
1	Ba 233.527†	-90.8	-2.3	0.0031	mg/L	0.0031 mg/L	21:54:07
1	Be 313.107†	-1222.1	101.2	0.0004	mg/L	0.0004 mg/L	21:53:57
1	Ca 315.887†	-1990.3	-301.6	0.0326	mg/L	0.0326 mg/L	21:53:57
1	Cd 228.802†	157.5	13.2	0.0014	mg/L	0.0014 mg/L	21:54:07
1	Co 228.616†	-224.9	-4.2	-0.0001	mg/L	-0.0001 mg/L	21:54:07
1	Cr 267.716†	480.7	-40.4	0.0030	mg/L	0.0030 mg/L	21:53:57
1	Cu 324.752†	3869.0	-570.6	0.0013	mg/L	0.0013 mg/L	21:53:57
1	Mg 279.077†	60.5	62.8	0.0302	mg/L	0.0302 mg/L	21:53:57
1	Mn 257.610†	14707.7	15.9	0.0017	mg/L	0.0017 mg/L	21:53:57
1	Mn 294.920†	-1166.4	56.4	0.0017	mg/L	0.0017 mg/L	21:53:57
1	Mo 202.031†	70.5	41.1	0.0043	mg/L	0.0043 mg/L	21:54:07
1	Ni 231.604†	148.3	4.2	0.0017	mg/L	0.0017 mg/L	21:54:07
1	P 214.914†	-29.7	-5.5	0.0435	mg/L	0.0435 mg/L	21:54:07
1	Pb 220.353†	163.3	-3.4	-0.0004	mg/L	-0.0004 mg/L	21:54:07
1	Sb 206.836†	50.3	7.1	0.0076	mg/L	0.0076 mg/L	21:54:07
1	Se 196.026†	26.4	17.9	0.0173	mg/L	0.0173 mg/L	21:54:07
1	Sn 189.927†	20.7	-6.7	-0.0024	mg/L	-0.0024 mg/L	21:54:07
1	Ti 337.279†	-372.0	212.9	0.0051	mg/L	0.0051 mg/L	21:53:57
1	Tl 190.801†	-9.4	-5.5	-0.0042	mg/L	-0.0042 mg/L	21:54:07
1	V 292.402†	-374.4	-61.3	0.0043	mg/L	0.0043 mg/L	21:53:57
1	Zn 213.857†	1050.7	3.9	0.0027	mg/L	0.0027 mg/L	21:54:07
2	B 249.677†	-2.5	3.8	0.0034	mg/L	0.0034 mg/L	21:53:51
2	Fe 234.349†	17.5	11.9	0.0186	mg/L	0.0186 mg/L	21:53:51
2	K 766.490†	909.0	156.3	0.2595	mg/L	0.2595 mg/L	21:53:41
2	Li 670.784†	-321.8	-109.3	0.0014	mg/L	0.0014 mg/L	21:53:41
2	Na 589.592†	792.3	369.4	0.1804	mg/L	0.1804 mg/L	21:53:41
2	Sr 407.771†	-12.3	-83.7	0.0003	mg/L	0.0003 mg/L	21:53:41
2	Y 371.029	2520210.7	2520210.7	0.933	mg/L		21:54:09
2	Ag 328.068†	1581.7	-170.0	0.0008	mg/L	0.0008 mg/L	21:54:11
2	Al 237.313†	-309.0	99.2	0.0243	mg/L	0.0243 mg/L	21:54:11
2	As 188.979†	-1.0	5.6	0.0084	mg/L	0.0084 mg/L	21:54:22
2	B 182.528†	-3.4	5.9	0.0062	mg/L	0.0062 mg/L	21:54:22
2	Ba 233.527†	-80.0	11.2	0.0032	mg/L	0.0032 mg/L	21:54:22
2	Be 313.107†	-1231.6	118.0	0.0004	mg/L	0.0004 mg/L	21:54:11
2	Ca 315.887†	-1903.7	-164.8	0.0341	mg/L	0.0341 mg/L	21:54:11
2	Cd 228.802†	145.7	-2.9	0.0009	mg/L	0.0009 mg/L	21:54:22
2	Co 228.616†	-215.3	11.0	0.0002	mg/L	0.0002 mg/L	21:54:22

2	Cr 267.716†	475.0	-57.1	0.0029 mg/L	0.0029 mg/L	21:54:11
2	Cu 324.752†	3960.2	-558.5	0.0014 mg/L	0.0014 mg/L	21:54:11
2	Mg 279.077†	54.6	55.1	0.0296 mg/L	0.0296 mg/L	21:54:11
2	Mn 257.610†	14805.6	-204.7	0.0014 mg/L	0.0014 mg/L	21:54:11
2	Mn 294.920†	-1207.4	38.3	0.0016 mg/L	0.0016 mg/L	21:54:11
2	Mo 202.031†	36.7	3.4	0.0027 mg/L	0.0027 mg/L	21:54:22
2	Ni 231.604†	157.4	10.7	0.0019 mg/L	0.0019 mg/L	21:54:22
2	P 214.914†	-20.7	4.9	0.0500 mg/L	0.0500 mg/L	21:54:22
2	Pb 220.353†	162.0	-8.4	-0.0007 mg/L	-0.0007 mg/L	21:54:22
2	Sb 206.836†	47.0	2.6	0.0054 mg/L	0.0054 mg/L	21:54:22
2	Se 196.026†	13.4	3.5	0.0074 mg/L	0.0074 mg/L	21:54:22
2	Sn 189.927†	13.7	-14.6	-0.0036 mg/L	-0.0036 mg/L	21:54:22
2	Ti 337.279†	-524.5	57.7	0.0050 mg/L	0.0050 mg/L	21:54:11
2	Tl 190.801†	-3.8	0.7	0.0019 mg/L	0.0019 mg/L	21:54:22
2	V 292.402†	-413.3	-94.7	0.0041 mg/L	0.0041 mg/L	21:54:11
2	Zn 213.857†	1041.9	-28.7	0.0025 mg/L	0.0025 mg/L	21:54:22

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2494719.1	0.924 mg/L	0.0133			1.45%
Ag 328.068†	-178.7	0.0008 mg/L	0.00007	0.0008 mg/L	0.00007	8.78%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	67.3	0.0208 mg/L	0.00500	0.0208 mg/L	0.00500	24.03%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	6.5	0.0091 mg/L	0.00094	0.0091 mg/L	0.00094	10.27%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	6.1	0.0047 mg/L	0.00183	0.0047 mg/L	0.00183	39.15%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	2.4	0.0025 mg/L	0.00527	0.0025 mg/L	0.00527	214.49%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	4.5	0.0032 mg/L	0.00008	0.0032 mg/L	0.00008	2.64%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	109.6	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.23%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-233.2	0.0334 mg/L	0.00106	0.0334 mg/L	0.00106	3.17%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	5.2	0.0012 mg/L	0.00036	0.0012 mg/L	0.00036	30.46%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	3.4	0.0001 mg/L	0.00021	0.0001 mg/L	0.00021	282.08%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-48.8	0.0030 mg/L	0.00010	0.0030 mg/L	0.00010	3.51%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-564.6	0.0014 mg/L	0.00005	0.0014 mg/L	0.00005	3.40%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	12.9	0.0192 mg/L	0.00089	0.0192 mg/L	0.00089	4.64%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K 766.490†	146.2	0.2540 mg/L	0.00779	0.2540 mg/L	0.00779	3.07%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-69.2	0.0025 mg/L	0.00156	0.0025 mg/L	0.00156	61.17%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	58.9	0.0299 mg/L	0.00044	0.0299 mg/L	0.00044	1.46%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-94.4	0.0016 mg/L	0.00020	0.0016 mg/L	0.00020	12.80%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn 294.920†	47.4	0.0016 mg/L	0.00003	0.0016 mg/L	0.00003	2.04%
QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo 202.031†	22.3	0.0035 mg/L	0.00113	0.0035 mg/L	0.00113	32.77%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na 589.592†	425.9	0.1907 mg/L	0.01452	0.1907 mg/L	0.01452	7.62%
QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni 231.604†	7.4	0.0018 mg/L	0.00010	0.0018 mg/L	0.00010	5.61%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.3	0.0468 mg/L	0.00462	0.0468 mg/L	0.00462	9.87%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	-5.9	-0.0006 mg/L	0.00025	-0.0006 mg/L	0.00025	45.08%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	4.9	0.0065 mg/L	0.00152	0.0065 mg/L	0.00152	23.47%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	10.7	0.0124 mg/L	0.00701	0.0124 mg/L	0.00701	56.69%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-10.6	-0.0030 mg/L	0.00083	-0.0030 mg/L	0.00083	27.87%

QC value within limits for Sn 189.927 Recovery = Not calculated
 Sr 407.771† -92.9 0.0003 mg/L 0.00002 0.0003 mg/L 0.00002 5.86%
 QC value within limits for Sr 407.771 Recovery = Not calculated
 Ti 337.279† 135.3 0.0051 mg/L 0.00013 0.0051 mg/L 0.00013 2.53%
 QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated
 Tl 190.801† -2.4 -0.0012 mg/L 0.00432 -0.0012 mg/L 0.00432 369.05%
 QC value within limits for Tl 190.801 Recovery = Not calculated
 V 292.402† -78.0 0.0042 mg/L 0.00012 0.0042 mg/L 0.00012 2.92%
 QC value greater than the upper limit for V 292.402 Recovery = Not calculated
 Zn 213.857† -12.4 0.0026 mg/L 0.00017 0.0026 mg/L 0.00017 6.61%
 QC value within limits for Zn 213.857 Recovery = Not calculated
 QC Failed. Continue with analysis.

Sequence No.: 121 Autosampler Location: 102
 Sample ID: 1307100-05 Date Collected: 7/5/2013 9:55:59 PM
 Analyst: Data Type: Original
 Initial Sample Wt: Initial Sample Vol:
 Dilution: Sample Prep Vol:

Replicate Data: 1307100-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	186.8	212.2	0.1194 mg/L	0.1194 mg/L	21:57:46
1	Fe 234.349†	134.3	141.1	0.0186 mg/L	0.0186 mg/L	21:57:46
1	K 766.490†	19399.7	20544.9	11.37 mg/L	11.37 mg/L	21:57:36
1	Li 670.784†	-15.1	219.0	0.0105 mg/L	0.0105 mg/L	21:57:36
1	Na 589.592†	264120.5	290367.9	52.94 mg/L	52.94 mg/L	21:57:36
1	Sr 407.771†	269469.4	296667.2	0.3463 mg/L	0.3463 mg/L	21:57:36
1	Y 371.029	2452827.3	2452827.3	0.908 mg/L		21:58:03
1	Ag 328.068†	1590.7	-113.5	0.0011 mg/L	0.0011 mg/L	21:58:06
1	Al 237.313†	-164.1	249.7	0.0410 mg/L	0.0410 mg/L	21:58:16
1	As 188.979†	16.2	24.4	0.0222 mg/L	0.0222 mg/L	21:58:16
1	B 182.528†	105.3	125.5	0.1346 mg/L	0.1346 mg/L	21:58:16
1	Ba 233.527†	4368.3	4907.4	0.0459 mg/L	0.0459 mg/L	21:58:16
1	Be 313.107†	-1397.5	-100.9	0.0003 mg/L	0.0003 mg/L	21:58:06
1	Ca 315.887†	4356677.6	4799417.0	52.34 mg/L	52.34 mg/L	21:58:03
1	Cd 228.802†	153.0	9.4	0.0013 mg/L	0.0013 mg/L	21:58:16
1	Co 228.616†	-210.9	9.5	0.0002 mg/L	0.0002 mg/L	21:58:16
1	Cr 267.716†	531.9	19.5	0.0036 mg/L	0.0036 mg/L	21:58:06
1	Cu 324.752†	4014.3	-382.4	0.0023 mg/L	0.0023 mg/L	21:58:06
1	Mg 279.077†	217263.3	239245.3	19.31 mg/L	19.31 mg/L	21:58:06
1	Mn 257.610†	891707.6	965869.4	1.244 mg/L	1.244 mg/L	21:58:03
1	Mn 294.920†	430607.7	475514.4	1.242 mg/L	1.242 mg/L	21:58:06
1	Mo 202.031†	645.3	674.7	0.0312 mg/L	0.0312 mg/L	21:58:16
1	Ni 231.604†	323.4	198.1	0.0061 mg/L	0.0061 mg/L	21:58:16
1	P 214.914†	1156.3	1300.4	0.8610 mg/L	0.8610 mg/L	21:58:16
1	Pb 220.353†	-1.9	-184.2	-0.0131 mg/L	-0.0131 mg/L	21:58:16
1	Sb 206.836†	50.0	7.2	0.0078 mg/L	0.0078 mg/L	21:58:16
1	Se 196.026†	20.0	11.2	0.0127 mg/L	0.0127 mg/L	21:58:16
1	Sn 189.927†	-477.4	-555.0	-0.0512 mg/L	-0.0512 mg/L	21:58:16
1	Ti 337.279†	-148.4	456.4	0.0054 mg/L	0.0054 mg/L	21:58:06
1	Tl 190.801†	7.4	12.9	0.0147 mg/L	0.0147 mg/L	21:58:16
1	V 292.402†	3.0	351.6	0.0066 mg/L	0.0066 mg/L	21:58:06
1	Zn 213.857†	3284.8	2471.8	0.0208 mg/L	0.0208 mg/L	21:58:16
2	B 249.677†	198.2	227.4	0.1278 mg/L	0.1278 mg/L	21:57:59
2	Fe 234.349†	141.3	150.7	0.0248 mg/L	0.0248 mg/L	21:57:59
2	K 766.490†	19856.6	21312.1	11.79 mg/L	11.79 mg/L	21:57:49
2	Li 670.784†	9.4	246.0	0.0112 mg/L	0.0112 mg/L	21:57:49
2	Na 589.592†	269914.1	300335.9	54.76 mg/L	54.76 mg/L	21:57:49
2	Sr 407.771†	276896.3	308526.7	0.3601 mg/L	0.3601 mg/L	21:57:49
2	Y 371.029	2423569.0	2423569.0	0.897 mg/L		21:58:19
2	Ag 328.068†	1451.7	-247.2	0.0004 mg/L	0.0004 mg/L	21:58:21
2	Al 237.313†	-167.9	243.3	0.0403 mg/L	0.0403 mg/L	21:58:31
2	As 188.979†	22.0	31.1	0.0270 mg/L	0.0270 mg/L	21:58:31
2	B 182.528†	104.0	125.4	0.1345 mg/L	0.1345 mg/L	21:58:31
2	Ba 233.527†	4335.0	4928.3	0.0461 mg/L	0.0461 mg/L	21:58:31
2	Be 313.107†	-1386.1	-106.7	0.0003 mg/L	0.0003 mg/L	21:58:21
2	Ca 315.887†	4315603.7	4811558.6	52.47 mg/L	52.47 mg/L	21:58:19
2	Cd 228.802†	145.3	2.9	0.0011 mg/L	0.0011 mg/L	21:58:31
2	Co 228.616†	-187.0	33.4	0.0007 mg/L	0.0007 mg/L	21:58:31
2	Cr 267.716†	518.7	11.9	0.0035 mg/L	0.0035 mg/L	21:58:21

2	Cu	324.752†	4076.3	-259.9	0.0030 mg/L	0.0030 mg/L	21:58:21
2	Mg	279.077†	217217.6	242082.7	19.54 mg/L	19.54 mg/L	21:58:21
2	Mn	257.610†	883612.1	968701.4	1.248 mg/L	1.248 mg/L	21:58:19
2	Mn	294.920†	431109.5	481798.1	1.258 mg/L	1.258 mg/L	21:58:21
2	Mo	202.031†	617.6	652.4	0.0302 mg/L	0.0302 mg/L	21:58:31
2	Ni	231.604†	317.9	196.3	0.0060 mg/L	0.0060 mg/L	21:58:31
2	P	214.914†	1144.3	1302.3	0.8622 mg/L	0.8622 mg/L	21:58:31
2	Pb	220.353†	73.6	-100.1	-0.0071 mg/L	-0.0071 mg/L	21:58:31
2	Sb	206.836†	56.6	15.3	0.0116 mg/L	0.0116 mg/L	21:58:31
2	Se	196.026†	15.5	6.4	0.0094 mg/L	0.0094 mg/L	21:58:31
2	Sn	189.927†	-483.8	-568.5	-0.0531 mg/L	-0.0531 mg/L	21:58:31
2	Ti	337.279†	-334.2	247.3	0.0052 mg/L	0.0052 mg/L	21:58:21
2	Tl	190.801†	12.0	18.2	0.0198 mg/L	0.0198 mg/L	21:58:31
2	V	292.402†	69.0	425.2	0.0069 mg/L	0.0069 mg/L	21:58:21
2	Zn	213.857†	3306.1	2539.2	0.0213 mg/L	0.0213 mg/L	21:58:31

Mean Data: 1307100-05

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2438198.2	0.903	mg/L	0.0077				0.85%
Ag 328.068†	-180.4	0.0008	mg/L	0.00052	0.0008	mg/L	0.00052	67.34%
Al 237.313†	246.5	0.0406	mg/L	0.00050	0.0406	mg/L	0.00050	1.22%
As 188.979†	27.8	0.0246	mg/L	0.00343	0.0246	mg/L	0.00343	13.95%
B 249.677†	219.8	0.1236	mg/L	0.00599	0.1236	mg/L	0.00599	4.85%
B 182.528†	125.4	0.1345	mg/L	0.00004	0.1345	mg/L	0.00004	0.03%
Ba 233.527†	4917.9	0.0460	mg/L	0.00013	0.0460	mg/L	0.00013	0.28%
Be 313.107†	-103.8	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.54%
Ca 315.887†	4805487.8	52.41	mg/L	0.094	52.41	mg/L	0.094	0.18%
Cd 228.802†	6.2	0.0012	mg/L	0.00014	0.0012	mg/L	0.00014	12.06%
Co 228.616†	21.5	0.0005	mg/L	0.00034	0.0005	mg/L	0.00034	74.66%
Cr 267.716†	15.7	0.0035	mg/L	0.00005	0.0035	mg/L	0.00005	1.34%
Cu 324.752†	-321.2	0.0027	mg/L	0.00047	0.0027	mg/L	0.00047	17.48%
Fe 234.349†	145.9	0.0217	mg/L	0.00436	0.0217	mg/L	0.00436	20.08%
K 766.490†	20928.5	11.58	mg/L	0.296	11.58	mg/L	0.296	2.55%
Li 670.784†	232.5	0.0108	mg/L	0.00053	0.0108	mg/L	0.00053	4.85%
Mg 279.077†	240664.0	19.42	mg/L	0.162	19.42	mg/L	0.162	0.83%
Mn 257.610†	967285.4	1.246	mg/L	0.0026	1.246	mg/L	0.0026	0.21%
Mn 294.920†	478656.2	1.250	mg/L	0.0116	1.250	mg/L	0.0116	0.93%
Mo 202.031†	663.6	0.0307	mg/L	0.00067	0.0307	mg/L	0.00067	2.19%
Na 589.592†	295351.9	53.85	mg/L	1.282	53.85	mg/L	1.282	2.38%
Ni 231.604†	197.2	0.0061	mg/L	0.00003	0.0061	mg/L	0.00003	0.49%
P 214.914†	1301.4	0.8616	mg/L	0.00086	0.8616	mg/L	0.00086	0.10%
Pb 220.353†	-142.2	-0.0101	mg/L	0.00419	-0.0101	mg/L	0.00419	41.50%
Sb 206.836†	11.2	0.0097	mg/L	0.00266	0.0097	mg/L	0.00266	27.39%
Se 196.026†	8.8	0.0110	mg/L	0.00232	0.0110	mg/L	0.00232	21.03%
Sn 189.927†	-561.7	-0.0522	mg/L	0.00135	-0.0522	mg/L	0.00135	2.59%
Sr 407.771†	302596.9	0.3532	mg/L	0.00978	0.3532	mg/L	0.00978	2.77%
Ti 337.279†	351.9	0.0053	mg/L	0.00017	0.0053	mg/L	0.00017	3.25%
Tl 190.801†	15.5	0.0173	mg/L	0.00360	0.0173	mg/L	0.00360	20.85%
V 292.402†	388.4	0.0067	mg/L	0.00023	0.0067	mg/L	0.00023	3.38%
Zn 213.857†	2505.5	0.0211	mg/L	0.00035	0.0211	mg/L	0.00035	1.66%

Sequence No.: 122

Sample ID: 1307104-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 7/5/2013 10:00:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307104-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	439.2	495.1	0.2768	mg/L	0.2768	mg/L	22:01:59
1	Fe 234.349†	255.6	277.6	-0.0015	mg/L	-0.0015	mg/L	22:01:59
1	K 766.490†	25863.5	27959.5	15.41	mg/L	15.41	mg/L	22:01:49
1	Li 670.784†	-163.8	53.3	0.0059	mg/L	0.0059	mg/L	22:01:49
1	Na 589.592†	3372433.0	3751897.0	682.8	mg/L	682.8	mg/L	22:01:47
1	Sr 407.771†	548625.9	610364.4	0.7120	mg/L	0.7120	mg/L	22:01:47
1	Y 371.029	2427544.5	2427544.5	0.899	mg/L			22:02:21
1	Ag 328.068†	1435.0	-268.5	0.0003	mg/L	0.0003	mg/L	22:02:23
1	Al 237.313†	1097.1	1651.1	0.1961	mg/L	0.1961	mg/L	22:02:33

1	As	188.979†	-3.3	2.9	0.0065	mg/L	0.0065	mg/L	22:02:33
1	B	182.528†	212.7	246.2	0.2641	mg/L	0.2641	mg/L	22:02:33
1	Ba	233.527†	113938.2	126871.7	1.108	mg/L	1.108	mg/L	22:02:23
1	Be	313.107†	-1379.9	-97.4	0.0003	mg/L	0.0003	mg/L	22:02:23
1	Ca	315.887†	9890676.7	11006851.8	120.0	mg/L	120.0	mg/L	22:02:19
1	Cd	228.802†	192.7	55.3	0.0027	mg/L	0.0027	mg/L	22:02:33
1	Co	228.616†	-195.9	23.8	0.0005	mg/L	0.0005	mg/L	22:02:33
1	Cr	267.716†	585.6	85.4	0.0041	mg/L	0.0041	mg/L	22:02:23
1	Cu	324.752†	5473.3	1287.1	0.0113	mg/L	0.0113	mg/L	22:02:23
1	Mg	279.077†	78390.5	87218.6	7.054	mg/L	7.054	mg/L	22:02:23
1	Mn	257.610†	123997.1	121894.3	0.1585	mg/L	0.1585	mg/L	22:02:23
1	Mn	294.920†	51179.4	58277.6	0.1535	mg/L	0.1535	mg/L	22:02:23
1	Mo	202.031†	354.3	358.3	0.0177	mg/L	0.0177	mg/L	22:02:33
1	Ni	231.604†	201.1	65.7	0.0031	mg/L	0.0031	mg/L	22:02:33
1	P	214.914†	1194.7	1356.4	0.8961	mg/L	0.8961	mg/L	22:02:33
1	Pb	220.353†	54.3	-121.7	-0.0087	mg/L	-0.0087	mg/L	22:02:33
1	Sb	206.836†	66.1	25.7	0.0163	mg/L	0.0163	mg/L	22:02:33
1	Se	196.026†	0.1	-10.9	-0.0024	mg/L	-0.0024	mg/L	22:02:33
1	Sn	189.927†	-655.7	-758.9	-0.0395	mg/L	-0.0395	mg/L	22:02:33
1	Ti	337.279†	1006.0	1739.1	0.0069	mg/L	0.0069	mg/L	22:02:23
1	Tl	190.801†	31.8	40.2	0.0426	mg/L	0.0426	mg/L	22:02:33
1	V	292.402†	-230.8	91.4	0.0052	mg/L	0.0052	mg/L	22:02:23
1	Zn	213.857†	5715.5	5214.0	0.0410	mg/L	0.0410	mg/L	22:02:33
2	B	249.677†	429.4	499.5	0.2793	mg/L	0.2793	mg/L	22:02:14
2	Fe	234.349†	251.9	282.4	-0.0017	mg/L	-0.0017	mg/L	22:02:14
2	K	766.490†	25796.7	28805.6	15.87	mg/L	15.87	mg/L	22:02:04
2	Li	670.784†	-147.6	66.1	0.0063	mg/L	0.0063	mg/L	22:02:04
2	Na	589.592†	3381385.1	3882508.7	706.5	mg/L	706.5	mg/L	22:02:02
2	Sr	407.771†	551380.7	633103.3	0.7385	mg/L	0.7385	mg/L	22:02:02
2	Y	371.029	2352116.5	2352116.5	0.871	mg/L			22:02:38
2	Ag	328.068†	1438.7	-213.1	0.0006	mg/L	0.0006	mg/L	22:02:41
2	Al	237.313†	1046.5	1632.1	0.1940	mg/L	0.1940	mg/L	22:02:51
2	As	188.979†	-11.8	-6.9	-0.0006	mg/L	-0.0006	mg/L	22:02:51
2	B	182.528†	210.0	250.7	0.2690	mg/L	0.2690	mg/L	22:02:51
2	Ba	233.527†	112315.4	129073.6	1.128	mg/L	1.128	mg/L	22:02:41
2	Be	313.107†	-1335.7	-95.9	0.0003	mg/L	0.0003	mg/L	22:02:41
2	Ca	315.887†	9749014.7	11197084.1	122.1	mg/L	122.1	mg/L	22:02:36
2	Cd	228.802†	196.7	66.9	0.0031	mg/L	0.0031	mg/L	22:02:51
2	Co	228.616†	-215.6	-5.7	-0.0001	mg/L	-0.0001	mg/L	22:02:51
2	Cr	267.716†	634.0	161.8	0.0048	mg/L	0.0048	mg/L	22:02:41
2	Cu	324.752†	5448.7	1454.0	0.0122	mg/L	0.0122	mg/L	22:02:41
2	Mg	279.077†	76884.6	88286.4	7.140	mg/L	7.140	mg/L	22:02:41
2	Mn	257.610†	122279.8	124346.6	0.1616	mg/L	0.1616	mg/L	22:02:41
2	Mn	294.920†	50516.1	59342.0	0.1563	mg/L	0.1563	mg/L	22:02:41
2	Mo	202.031†	326.1	338.6	0.0168	mg/L	0.0168	mg/L	22:02:51
2	Ni	231.604†	196.6	67.7	0.0032	mg/L	0.0032	mg/L	22:02:51
2	P	214.914†	1183.3	1385.9	0.9146	mg/L	0.9146	mg/L	22:02:51
2	Pb	220.353†	59.1	-114.3	-0.0082	mg/L	-0.0082	mg/L	22:02:51
2	Sb	206.836†	54.5	14.7	0.0112	mg/L	0.0112	mg/L	22:02:51
2	Se	196.026†	5.2	-5.0	0.0016	mg/L	0.0016	mg/L	22:02:51
2	Sn	189.927†	-639.4	-763.5	-0.0389	mg/L	-0.0389	mg/L	22:02:51
2	Ti	337.279†	1248.9	2054.0	0.0073	mg/L	0.0073	mg/L	22:02:41
2	Tl	190.801†	19.6	27.3	0.0301	mg/L	0.0301	mg/L	22:02:51
2	V	292.402†	-266.6	42.1	0.0049	mg/L	0.0049	mg/L	22:02:41
2	Zn	213.857†	5621.6	5310.1	0.0417	mg/L	0.0417	mg/L	22:02:51

Mean Data: 1307104-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2389830.5	0.885 mg/L	0.0197			2.23%
Ag 328.068†	-240.8	0.0004 mg/L	0.00022	0.0004 mg/L	0.00022	48.77%
Al 237.313†	1641.6	0.1950 mg/L	0.00148	0.1950 mg/L	0.00148	0.76%
As 188.979†	-2.0	0.0029 mg/L	0.00506	0.0029 mg/L	0.00506	172.74%
B 249.677†	497.3	0.2780 mg/L	0.00173	0.2780 mg/L	0.00173	0.62%
B 182.528†	248.4	0.2666 mg/L	0.00341	0.2666 mg/L	0.00341	1.28%
Ba 233.527†	127972.6	1.118 mg/L	0.0136	1.118 mg/L	0.0136	1.21%
Be 313.107†	-96.6	0.0003 mg/L	0.00000	0.0003 mg/L	0.00000	0.14%
Ca 315.887†	11101967.9	121.0 mg/L	1.47	121.0 mg/L	1.47	1.21%
Cd 228.802†	61.1	0.0029 mg/L	0.00026	0.0029 mg/L	0.00026	8.77%
Co 228.616†	9.0	0.0002 mg/L	0.00042	0.0002 mg/L	0.00042	217.48%
Cr 267.716†	123.6	0.0045 mg/L	0.00047	0.0045 mg/L	0.00047	10.52%
Cu 324.752†	1370.5	0.0118 mg/L	0.00064	0.0118 mg/L	0.00064	5.40%

Fe 234.349†	280.0	-0.0016 mg/L	0.00012	-0.0016 mg/L	0.00012	7.13%
K 766.490†	28382.6	15.64 mg/L	0.326	15.64 mg/L	0.326	2.08%
Li 670.784†	59.7	0.0061 mg/L	0.00025	0.0061 mg/L	0.00025	4.08%
Mg 279.077†	87752.5	7.097 mg/L	0.0608	7.097 mg/L	0.0608	0.86%
Mn 257.610†	123120.4	0.1600 mg/L	0.00223	0.1600 mg/L	0.00223	1.39%
Mn 294.920†	58809.8	0.1549 mg/L	0.00196	0.1549 mg/L	0.00196	1.27%
Mo 202.031†	348.4	0.0172 mg/L	0.00060	0.0172 mg/L	0.00060	3.46%
Na 589.592†	3817202.9	694.6 mg/L	16.80	694.6 mg/L	16.80	2.42%
Ni 231.604†	66.7	0.0031 mg/L	0.00003	0.0031 mg/L	0.00003	1.00%
P 214.914†	1371.1	0.9053 mg/L	0.01309	0.9053 mg/L	0.01309	1.45%
Pb 220.353†	-118.0	-0.0085 mg/L	0.00037	-0.0085 mg/L	0.00037	4.34%
Sb 206.836†	20.2	0.0137 mg/L	0.00365	0.0137 mg/L	0.00365	26.53%
Se 196.026†	-7.9	-0.0004 mg/L	0.00284	-0.0004 mg/L	0.00284	665.43%
Sn 189.927†	-761.2	-0.0392 mg/L	0.00042	-0.0392 mg/L	0.00042	1.07%
Sr 407.771†	621733.8	0.7253 mg/L	0.01875	0.7253 mg/L	0.01875	2.58%
Ti 337.279†	1896.6	0.0071 mg/L	0.00026	0.0071 mg/L	0.00026	3.65%
Tl 190.801†	33.7	0.0363 mg/L	0.00885	0.0363 mg/L	0.00885	24.36%
V 292.402†	66.8	0.0051 mg/L	0.00017	0.0051 mg/L	0.00017	3.28%
Zn 213.857†	5262.0	0.0414 mg/L	0.00050	0.0414 mg/L	0.00050	1.21%

Sequence No.: 123
Sample ID: 1307104-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 104
Date Collected: 7/5/2013 10:04:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307104-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	48.8	59.8	0.0345	mg/L	0.0345	mg/L	22:06:17
1	Fe 234.349†	87.0	88.1	0.0542	mg/L	0.0542	mg/L	22:06:17
1	K 766.490†	4099.1	3651.0	2.164	mg/L	2.164	mg/L	22:06:07
1	Li 670.784†	-355.0	-151.5	0.0003	mg/L	0.0003	mg/L	22:06:07
1	Na 589.592†	135874.5	147650.6	26.98	mg/L	26.98	mg/L	22:06:07
1	Sr 407.771†	19653.0	21355.1	0.0253	mg/L	0.0253	mg/L	22:06:07
1	Y 371.029	2477561.6	2477561.6	0.917	mg/L			22:06:34
1	Ag 328.068†	1514.0	-214.6	0.0006	mg/L	0.0006	mg/L	22:06:36
1	Al 237.313†	316.4	775.4	0.0992	mg/L	0.0992	mg/L	22:06:46
1	As 188.979†	-2.4	4.0	0.0073	mg/L	0.0073	mg/L	22:06:46
1	B 182.528†	18.8	30.0	0.0321	mg/L	0.0321	mg/L	22:06:46
1	Ba 233.527†	5883.7	6511.4	0.0599	mg/L	0.0599	mg/L	22:06:46
1	Be 313.107†	-1192.2	138.3	0.0004	mg/L	0.0004	mg/L	22:06:36
1	Ca 315.887†	773259.8	844882.7	9.244	mg/L	9.244	mg/L	22:06:34
1	Cd 228.802†	177.9	34.9	0.0021	mg/L	0.0021	mg/L	22:06:46
1	Co 228.616†	-209.1	13.8	0.0003	mg/L	0.0003	mg/L	22:06:46
1	Cr 267.716†	613.3	102.4	0.0043	mg/L	0.0043	mg/L	22:06:46
1	Cu 324.752†	3884.0	-568.5	0.0013	mg/L	0.0013	mg/L	22:06:36
1	Mg 279.077†	15359.5	16741.4	1.374	mg/L	1.374	mg/L	22:06:36
1	Mn 257.610†	32952.0	19851.8	0.0272	mg/L	0.0272	mg/L	22:06:36
1	Mn 294.920†	7583.2	9599.5	0.0265	mg/L	0.0265	mg/L	22:06:36
1	Mo 202.031†	106.8	80.5	0.0059	mg/L	0.0059	mg/L	22:06:46
1	Ni 231.604†	161.9	18.4	0.0020	mg/L	0.0020	mg/L	22:06:46
1	P 214.914†	1620.9	1794.1	1.170	mg/L	1.170	mg/L	22:06:46
1	Pb 220.353†	131.1	-39.2	-0.0029	mg/L	-0.0029	mg/L	22:06:46
1	Sb 206.836†	48.4	5.0	0.0065	mg/L	0.0065	mg/L	22:06:46
1	Se 196.026†	7.0	-3.2	0.0028	mg/L	0.0028	mg/L	22:06:46
1	Sn 189.927†	-130.2	-171.3	-0.0210	mg/L	-0.0210	mg/L	22:06:46
1	Ti 337.279†	509.1	1174.8	0.0063	mg/L	0.0063	mg/L	22:06:36
1	Tl 190.801†	0.8	5.6	0.0068	mg/L	0.0068	mg/L	22:06:46
1	V 292.402†	-280.5	42.5	0.0048	mg/L	0.0048	mg/L	22:06:36
1	Zn 213.857†	3757.0	2950.5	0.0244	mg/L	0.0244	mg/L	22:06:46
2	B 249.677†	50.5	61.3	0.0354	mg/L	0.0354	mg/L	22:06:30
2	Fe 234.349†	85.0	85.4	0.0525	mg/L	0.0525	mg/L	22:06:30
2	K 766.490†	4035.0	3555.9	2.112	mg/L	2.112	mg/L	22:06:20
2	Li 670.784†	-362.2	-157.0	0.0001	mg/L	0.0001	mg/L	22:06:20
2	Na 589.592†	132502.5	143147.9	26.16	mg/L	26.16	mg/L	22:06:20
2	Sr 407.771†	19002.9	20527.8	0.0243	mg/L	0.0243	mg/L	22:06:20
2	Y 371.029	2491818.9	2491818.9	0.923	mg/L			22:06:48
2	Ag 328.068†	1606.2	-124.1	0.0011	mg/L	0.0011	mg/L	22:06:51
2	Al 237.313†	309.4	765.7	0.0981	mg/L	0.0981	mg/L	22:07:01
2	As 188.979†	-6.2	-0.0	0.0043	mg/L	0.0043	mg/L	22:07:01

2	B 182.528†	16.6	27.6	0.0295 mg/L	0.0295 mg/L	22:07:01
2	Ba 233.527†	5951.0	6547.7	0.0602 mg/L	0.0602 mg/L	22:07:01
2	Be 313.107†	-1140.1	202.2	0.0005 mg/L	0.0005 mg/L	22:06:51
2	Ca 315.887†	773623.8	840453.9	9.195 mg/L	9.195 mg/L	22:06:48
2	Cd 228.802†	175.8	31.6	0.0020 mg/L	0.0020 mg/L	22:07:01
2	Co 228.616†	-213.1	10.8	0.0002 mg/L	0.0002 mg/L	22:07:01
2	Cr 267.716†	604.8	89.3	0.0042 mg/L	0.0042 mg/L	22:07:01
2	Cu 324.752†	3884.9	-591.8	0.0012 mg/L	0.0012 mg/L	22:06:51
2	Mg 279.077†	15384.1	16672.3	1.369 mg/L	1.369 mg/L	22:06:51
2	Mn 257.610†	33008.7	19707.6	0.0270 mg/L	0.0270 mg/L	22:06:51
2	Mn 294.920†	7692.4	9670.5	0.0267 mg/L	0.0267 mg/L	22:06:51
2	Mo 202.031†	91.4	63.2	0.0052 mg/L	0.0052 mg/L	22:07:01
2	Ni 231.604†	173.5	30.0	0.0023 mg/L	0.0023 mg/L	22:07:01
2	P 214.914†	1609.9	1772.1	1.157 mg/L	1.157 mg/L	22:07:01
2	Pb 220.353†	158.1	-10.7	-0.0009 mg/L	-0.0009 mg/L	22:07:01
2	Sb 206.836†	41.7	-2.7	0.0030 mg/L	0.0030 mg/L	22:07:01
2	Se 196.026†	14.2	4.4	0.0081 mg/L	0.0081 mg/L	22:07:01
2	Sn 189.927†	-118.7	-158.0	-0.0191 mg/L	-0.0191 mg/L	22:07:01
2	Ti 337.279†	577.3	1245.6	0.0064 mg/L	0.0064 mg/L	22:06:51
2	Tl 190.801†	0.1	4.9	0.0061 mg/L	0.0061 mg/L	22:07:01
2	V 292.402†	-259.5	67.0	0.0049 mg/L	0.0049 mg/L	22:06:51
2	Zn 213.857†	3817.5	2992.6	0.0247 mg/L	0.0247 mg/L	22:07:01

Mean Data: 1307104-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2484690.2	0.920	mg/L	0.0037				0.41%
Ag 328.068†	-169.3	0.0008	mg/L	0.00035	0.0008	mg/L	0.00035	42.33%
Al 237.313†	770.6	0.0986	mg/L	0.00076	0.0986	mg/L	0.00076	0.77%
As 188.979†	2.0	0.0058	mg/L	0.00208	0.0058	mg/L	0.00208	35.81%
B 249.677†	60.5	0.0349	mg/L	0.00060	0.0349	mg/L	0.00060	1.71%
B 182.528†	28.8	0.0308	mg/L	0.00184	0.0308	mg/L	0.00184	5.96%
Ba 233.527†	6529.6	0.0600	mg/L	0.00022	0.0600	mg/L	0.00022	0.37%
Be 313.107†	170.2	0.0005	mg/L	0.00002	0.0005	mg/L	0.00002	4.36%
Ca 315.887†	842668.3	9.219	mg/L	0.0341	9.219	mg/L	0.0341	0.37%
Cd 228.802†	33.2	0.0020	mg/L	0.00007	0.0020	mg/L	0.00007	3.56%
Co 228.616†	12.3	0.0003	mg/L	0.00004	0.0003	mg/L	0.00004	17.06%
Cr 267.716†	95.9	0.0042	mg/L	0.00008	0.0042	mg/L	0.00008	1.91%
Cu 324.752†	-580.2	0.0013	mg/L	0.00009	0.0013	mg/L	0.00009	6.84%
Fe 234.349†	86.7	0.0533	mg/L	0.00122	0.0533	mg/L	0.00122	2.29%
K 766.490†	3603.5	2.138	mg/L	0.0366	2.138	mg/L	0.0366	1.71%
Li 670.784†	-154.3	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	51.92%
Mg 279.077†	16706.9	1.372	mg/L	0.0039	1.372	mg/L	0.0039	0.29%
Mn 257.610†	19779.7	0.0271	mg/L	0.00013	0.0271	mg/L	0.00013	0.48%
Mn 294.920†	9635.0	0.0266	mg/L	0.00013	0.0266	mg/L	0.00013	0.49%
Mo 202.031†	71.8	0.0056	mg/L	0.00052	0.0056	mg/L	0.00052	9.33%
Na 589.592†	145399.3	26.57	mg/L	0.579	26.57	mg/L	0.579	2.18%
Ni 231.604†	24.2	0.0022	mg/L	0.00018	0.0022	mg/L	0.00018	8.35%
P 214.914†	1783.1	1.164	mg/L	0.0097	1.164	mg/L	0.0097	0.84%
Pb 220.353†	-25.0	-0.0019	mg/L	0.00142	-0.0019	mg/L	0.00142	74.17%
Sb 206.836†	1.2	0.0048	mg/L	0.00252	0.0048	mg/L	0.00252	53.05%
Se 196.026†	0.6	0.0054	mg/L	0.00372	0.0054	mg/L	0.00372	68.29%
Sn 189.927†	-164.6	-0.0201	mg/L	0.00137	-0.0201	mg/L	0.00137	6.80%
Sr 407.771†	20941.5	0.0248	mg/L	0.00068	0.0248	mg/L	0.00068	2.75%
Ti 337.279†	1210.2	0.0063	mg/L	0.00006	0.0063	mg/L	0.00006	0.93%
Tl 190.801†	5.3	0.0064	mg/L	0.00049	0.0064	mg/L	0.00049	7.66%
V 292.402†	54.8	0.0048	mg/L	0.00007	0.0048	mg/L	0.00007	1.46%
Zn 213.857†	2971.5	0.0245	mg/L	0.00022	0.0245	mg/L	0.00022	0.89%

Sequence No.: 124

Sample ID: 1307104-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 7/5/2013 10:08:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307104-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	B 249.677†	256.2	292.1	0.1638 mg/L	0.1638 mg/L	22:10:25
1	Fe 234.349†	325.7	356.4	0.2196 mg/L	0.2196 mg/L	22:10:25

1	K 766.490†	2383.5	1839.5	1.177 mg/L	1.177 mg/L	22:10:15
1	Li 670.784†	-431.6	-245.6	-0.0023 mg/L	-0.0023 mg/L	22:10:15
1	Na 589.592†	176000.8	195737.3	35.73 mg/L	35.73 mg/L	22:10:15
1	Sr 407.771†	64638.6	71992.7	0.0843 mg/L	0.0843 mg/L	22:10:15
1	Y 371.029	2422749.2	2422749.2	0.897 mg/L		22:10:41
1	Ag 328.068†	1508.6	-183.3	0.0008 mg/L	0.0008 mg/L	22:10:43
1	Al 237.313†	986.2	1529.9	0.1828 mg/L	0.1828 mg/L	22:10:53
1	As 188.979†	-11.4	-6.1	0.0000 mg/L	0.0000 mg/L	22:10:53
1	B 182.528†	131.8	156.5	0.1678 mg/L	0.1678 mg/L	22:10:53
1	Ba 233.527†	1670.6	1959.5	0.0202 mg/L	0.0202 mg/L	22:10:53
1	Be 313.107†	-1294.7	-5.4	0.0004 mg/L	0.0004 mg/L	22:10:43
1	Ca 315.887†	1431057.3	1597309.6	17.44 mg/L	17.44 mg/L	22:10:41
1	Cd 228.802†	155.3	14.1	0.0014 mg/L	0.0014 mg/L	22:10:53
1	Co 228.616†	-212.0	5.5	0.0001 mg/L	0.0001 mg/L	22:10:53
1	Cr 267.716†	3653.1	3506.5	0.0340 mg/L	0.0340 mg/L	22:10:43
1	Cu 324.752†	3925.0	-427.1	0.0021 mg/L	0.0021 mg/L	22:10:43
1	Mg 279.077†	59135.1	65924.1	5.338 mg/L	5.338 mg/L	22:10:43
1	Mn 257.610†	28809.5	16046.1	0.0223 mg/L	0.0223 mg/L	22:10:43
1	Mn 294.920†	5196.7	7126.0	0.0201 mg/L	0.0201 mg/L	22:10:43
1	Mo 202.031†	135.5	115.2	0.0074 mg/L	0.0074 mg/L	22:10:53
1	Ni 231.604†	166.1	27.2	0.0022 mg/L	0.0022 mg/L	22:10:53
1	P 214.914†	1141.2	1299.3	0.8606 mg/L	0.8606 mg/L	22:10:53
1	Pb 220.353†	145.7	-19.6	-0.0015 mg/L	-0.0015 mg/L	22:10:53
1	Sb 206.836†	62.4	21.7	0.0141 mg/L	0.0141 mg/L	22:10:53
1	Se 196.026†	13.0	3.5	0.0074 mg/L	0.0074 mg/L	22:10:53
1	Sn 189.927†	-199.1	-251.3	-0.0278 mg/L	-0.0278 mg/L	22:10:53
1	Ti 337.279†	6535.4	7905.8	0.0141 mg/L	0.0141 mg/L	22:10:43
1	Tl 190.801†	-5.1	-0.9	0.0005 mg/L	0.0005 mg/L	22:10:53
1	V 292.402†	-36.9	307.1	0.0061 mg/L	0.0061 mg/L	22:10:43
1	Zn 213.857†	4052.6	3372.7	0.0275 mg/L	0.0275 mg/L	22:10:53
2	B 249.677†	264.7	296.6	0.1663 mg/L	0.1663 mg/L	22:10:37
2	Fe 234.349†	339.2	364.9	0.2252 mg/L	0.2252 mg/L	22:10:37
2	K 766.490†	2396.8	1808.6	1.160 mg/L	1.160 mg/L	22:10:27
2	Li 670.784†	-401.7	-204.5	-0.0012 mg/L	-0.0012 mg/L	22:10:27
2	Na 589.592†	179155.5	195839.2	35.75 mg/L	35.75 mg/L	22:10:27
2	Sr 407.771†	65994.4	72246.2	0.0846 mg/L	0.0846 mg/L	22:10:27
2	Y 371.029	2464894.2	2464894.2	0.913 mg/L		22:10:56
2	Ag 328.068†	1607.4	-103.7	0.0012 mg/L	0.0012 mg/L	22:10:58
2	Al 237.313†	945.3	1466.3	0.1757 mg/L	0.1757 mg/L	22:11:08
2	As 188.979†	-8.4	-2.6	0.0025 mg/L	0.0025 mg/L	22:11:08
2	B 182.528†	136.0	158.6	0.1701 mg/L	0.1701 mg/L	22:11:08
2	Ba 233.527†	1640.9	1895.1	0.0196 mg/L	0.0196 mg/L	22:11:08
2	Be 313.107†	-1315.3	-3.3	0.0004 mg/L	0.0004 mg/L	22:10:58
2	Ca 315.887†	1461981.4	1603917.5	17.52 mg/L	17.52 mg/L	22:10:56
2	Cd 228.802†	161.6	18.1	0.0016 mg/L	0.0016 mg/L	22:11:08
2	Co 228.616†	-207.8	14.0	0.0003 mg/L	0.0003 mg/L	22:11:08
2	Cr 267.716†	3495.7	3264.3	0.0318 mg/L	0.0318 mg/L	22:10:58
2	Cu 324.752†	3867.2	-565.2	0.0014 mg/L	0.0014 mg/L	22:10:58
2	Mg 279.077†	58046.0	63603.5	5.151 mg/L	5.151 mg/L	22:10:58
2	Mn 257.610†	28388.7	15035.9	0.0210 mg/L	0.0210 mg/L	22:10:58
2	Mn 294.920†	5185.7	7014.8	0.0198 mg/L	0.0198 mg/L	22:10:58
2	Mo 202.031†	151.2	129.8	0.0080 mg/L	0.0080 mg/L	22:11:08
2	Ni 231.604†	169.5	27.7	0.0022 mg/L	0.0022 mg/L	22:11:08
2	P 214.914†	1147.1	1284.1	0.8510 mg/L	0.8510 mg/L	22:11:08
2	Pb 220.353†	139.1	-29.7	-0.0023 mg/L	-0.0023 mg/L	22:11:08
2	Sb 206.836†	57.9	15.6	0.0113 mg/L	0.0113 mg/L	22:11:08
2	Se 196.026†	17.7	8.5	0.0108 mg/L	0.0108 mg/L	22:11:08
2	Sn 189.927†	-196.7	-244.9	-0.0268 mg/L	-0.0268 mg/L	22:11:08
2	Ti 337.279†	6126.3	7333.0	0.0135 mg/L	0.0135 mg/L	22:10:58
2	Tl 190.801†	-3.1	1.4	0.0027 mg/L	0.0027 mg/L	22:11:08
2	V 292.402†	-78.4	262.3	0.0059 mg/L	0.0059 mg/L	22:10:58
2	Zn 213.857†	3996.6	3234.0	0.0265 mg/L	0.0265 mg/L	22:11:08

Mean Data: 1307104-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2443821.7	0.905 mg/L		0.0110			1.22%
Ag 328.068†	-143.5	0.0010 mg/L		0.00031	0.0010 mg/L	0.00031	31.64%
Al 237.313†	1498.1	0.1793 mg/L		0.00498	0.1793 mg/L	0.00498	2.78%
As 188.979†	-4.3	0.0012 mg/L		0.00180	0.0012 mg/L	0.00180	147.00%
B 249.677†	294.3	0.1651 mg/L		0.00176	0.1651 mg/L	0.00176	1.06%
B 182.528†	157.5	0.1690 mg/L		0.00162	0.1690 mg/L	0.00162	0.96%

Ba	233.527†	1927.3	0.0199 mg/L	0.00040	0.0199 mg/L	0.00040	1.99%
Be	313.107†	-4.3	0.0004 mg/L	0.00000	0.0004 mg/L	0.00000	0.15%
Ca	315.887†	1600613.6	17.48 mg/L	0.051	17.48 mg/L	0.051	0.29%
Cd	228.802†	16.1	0.0015 mg/L	0.00009	0.0015 mg/L	0.00009	5.88%
Co	228.616†	9.7	0.0002 mg/L	0.00012	0.0002 mg/L	0.00012	65.58%
Cr	267.716†	3385.4	0.0329 mg/L	0.00149	0.0329 mg/L	0.00149	4.53%
Cu	324.752†	-496.2	0.0017 mg/L	0.00053	0.0017 mg/L	0.00053	30.12%
Fe	234.349†	360.6	0.2224 mg/L	0.00392	0.2224 mg/L	0.00392	1.76%
K	766.490†	1824.0	1.168 mg/L	0.0119	1.168 mg/L	0.0119	1.02%
Li	670.784†	-225.1	-0.0017 mg/L	0.00080	-0.0017 mg/L	0.00080	45.91%
Mg	279.077†	64763.8	5.244 mg/L	0.1322	5.244 mg/L	0.1322	2.52%
Mn	257.610†	15541.0	0.0216 mg/L	0.00092	0.0216 mg/L	0.00092	4.25%
Mn	294.920†	7070.4	0.0200 mg/L	0.00020	0.0200 mg/L	0.00020	1.03%
Mo	202.031†	122.5	0.0077 mg/L	0.00044	0.0077 mg/L	0.00044	5.75%
Na	589.592†	195788.3	35.74 mg/L	0.013	35.74 mg/L	0.013	0.04%
Ni	231.604†	27.4	0.0022 mg/L	0.00001	0.0022 mg/L	0.00001	0.38%
P	214.914†	1291.7	0.8558 mg/L	0.00676	0.8558 mg/L	0.00676	0.79%
Pb	220.353†	-24.6	-0.0019 mg/L	0.00050	-0.0019 mg/L	0.00050	26.19%
Sb	206.836†	18.7	0.0127 mg/L	0.00200	0.0127 mg/L	0.00200	15.77%
Se	196.026†	6.0	0.0091 mg/L	0.00238	0.0091 mg/L	0.00238	26.19%
Sn	189.927†	-248.1	-0.0273 mg/L	0.00070	-0.0273 mg/L	0.00070	2.57%
Sr	407.771†	72119.5	0.0845 mg/L	0.00021	0.0845 mg/L	0.00021	0.25%
Ti	337.279†	7619.4	0.0138 mg/L	0.00047	0.0138 mg/L	0.00047	3.43%
Tl	190.801†	0.2	0.0016 mg/L	0.00160	0.0016 mg/L	0.00160	100.46%
V	292.402†	284.7	0.0060 mg/L	0.00014	0.0060 mg/L	0.00014	2.37%
Zn	213.857†	3303.4	0.0270 mg/L	0.00072	0.0270 mg/L	0.00072	2.67%

Sequence No.: 125
Sample ID: 1307104-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 7/5/2013 10:12:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307104-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	158.8	181.3	0.1022 mg/L	0.1022 mg/L	22:14:33
1	Fe 234.349†	24775.7	27274.3	18.17 mg/L	18.17 mg/L	22:14:33
1	K 766.490†	2769.7	2231.9	1.391 mg/L	1.391 mg/L	22:14:33
1	Li 670.784†	-309.6	-105.3	0.0016 mg/L	0.0016 mg/L	22:14:23
1	Na 589.592†	58574.1	64017.5	11.76 mg/L	11.76 mg/L	22:14:23
1	Sr 407.771†	53908.2	59289.0	0.0695 mg/L	0.0695 mg/L	22:14:23
1	Y 371.029	2452983.1	2452983.1	0.908 mg/L		22:14:50
1	Ag 328.068†	1532.2	-178.1	0.0012 mg/L	0.0012 mg/L	22:14:52
1	Al 237.313†	2668.5	3368.8	0.3862 mg/L	0.3862 mg/L	22:14:52
1	As 188.979†	6.1	13.4	0.0141 mg/L	0.0141 mg/L	22:15:02
1	B 182.528†	85.6	103.8	0.1113 mg/L	0.1113 mg/L	22:15:02
1	Ba 233.527†	5967.5	6667.9	0.0612 mg/L	0.0612 mg/L	22:15:02
1	Be 313.107†	-1276.7	32.2	0.0004 mg/L	0.0004 mg/L	22:14:52
1	Ca 315.887†	1373344.8	1514096.8	16.54 mg/L	16.54 mg/L	22:14:50
1	Cd 228.802†	157.8	14.8	0.0012 mg/L	0.0012 mg/L	22:15:02
1	Co 228.616†	-89.9	142.8	0.0029 mg/L	0.0029 mg/L	22:15:02
1	Cr 267.716†	670.6	172.2	0.0049 mg/L	0.0049 mg/L	22:14:52
1	Cu 324.752†	4068.2	-323.3	0.0027 mg/L	0.0027 mg/L	22:14:52
1	Mg 279.077†	44981.7	49526.9	4.018 mg/L	4.018 mg/L	22:14:52
1	Mn 257.610†	780942.3	843840.8	1.083 mg/L	1.083 mg/L	22:14:50
1	Mn 294.920†	383495.2	423607.6	1.106 mg/L	1.106 mg/L	22:14:52
1	Mo 202.031†	137.2	115.2	0.0047 mg/L	0.0047 mg/L	22:15:02
1	Ni 231.604†	250.5	117.8	0.0043 mg/L	0.0043 mg/L	22:15:02
1	P 214.914†	1223.6	1374.4	0.9076 mg/L	0.9076 mg/L	22:15:02
1	Pb 220.353†	147.2	-20.1	-0.0016 mg/L	-0.0016 mg/L	22:15:02
1	Sb 206.836†	52.5	10.0	0.0037 mg/L	0.0037 mg/L	22:15:02
1	Se 196.026†	16.2	6.9	0.0061 mg/L	0.0061 mg/L	22:15:02
1	Sn 189.927†	-206.2	-256.3	-0.0291 mg/L	-0.0291 mg/L	22:15:02
1	Ti 337.279†	4087.3	5120.4	0.0109 mg/L	0.0109 mg/L	22:14:52
1	Tl 190.801†	-1.5	3.1	-0.0064 mg/L	-0.0064 mg/L	22:15:02
1	V 292.402†	380.0	766.7	0.0081 mg/L	0.0081 mg/L	22:14:52
1	Zn 213.857†	4837.4	4181.2	0.0326 mg/L	0.0326 mg/L	22:15:02
2	B 249.677†	157.1	175.7	0.0990 mg/L	0.0990 mg/L	22:14:46
2	Fe 234.349†	24587.1	26466.3	17.63 mg/L	17.63 mg/L	22:14:46
2	K 766.490†	2721.8	2112.7	1.326 mg/L	1.326 mg/L	22:14:46

2	Li 670.784†	-345.0	-135.9	0.0007 mg/L	0.0007 mg/L	22:14:36
2	Na 589.592†	58333.9	62328.6	11.45 mg/L	11.45 mg/L	22:14:36
2	Sr 407.771†	53667.3	57713.2	0.0677 mg/L	0.0677 mg/L	22:14:36
2	Y 371.029	2508616.3	2508616.3	0.929 mg/L		22:15:05
2	Ag 328.068†	1547.6	-198.8	0.0011 mg/L	0.0011 mg/L	22:15:07
2	Al 237.313†	2593.5	3222.9	0.3700 mg/L	0.3700 mg/L	22:15:07
2	As 188.979†	-3.5	2.8	0.0064 mg/L	0.0064 mg/L	22:15:17
2	B 182.528†	89.6	106.0	0.1137 mg/L	0.1137 mg/L	22:15:17
2	Ba 233.527†	5885.1	6433.6	0.0592 mg/L	0.0592 mg/L	22:15:17
2	Be 313.107†	-1246.0	96.4	0.0004 mg/L	0.0004 mg/L	22:15:07
2	Ca 315.887†	1410394.1	1520451.5	16.61 mg/L	16.61 mg/L	22:15:05
2	Cd 228.802†	160.2	13.5	0.0011 mg/L	0.0011 mg/L	22:15:17
2	Co 228.616†	-87.4	147.7	0.0030 mg/L	0.0030 mg/L	22:15:17
2	Cr 267.716†	728.5	218.2	0.0053 mg/L	0.0053 mg/L	22:15:07
2	Cu 324.752†	4096.0	-392.7	0.0023 mg/L	0.0023 mg/L	22:15:07
2	Mg 279.077†	44988.8	48436.1	3.930 mg/L	3.930 mg/L	22:15:07
2	Mn 257.610†	799280.2	844515.1	1.084 mg/L	1.084 mg/L	22:15:05
2	Mn 294.920†	382309.2	412965.9	1.078 mg/L	1.078 mg/L	22:15:07
2	Mo 202.031†	142.6	117.6	0.0049 mg/L	0.0049 mg/L	22:15:17
2	Ni 231.604†	226.4	85.7	0.0035 mg/L	0.0035 mg/L	22:15:17
2	P 214.914†	1204.2	1323.6	0.8758 mg/L	0.8758 mg/L	22:15:17
2	Pb 220.353†	128.8	-43.4	-0.0033 mg/L	-0.0033 mg/L	22:15:17
2	Sb 206.836†	56.1	12.6	0.0051 mg/L	0.0051 mg/L	22:15:17
2	Se 196.026†	13.4	3.5	0.0039 mg/L	0.0039 mg/L	22:15:17
2	Sn 189.927†	-206.3	-251.4	-0.0284 mg/L	-0.0284 mg/L	22:15:17
2	Ti 337.279†	4016.2	4944.1	0.0107 mg/L	0.0107 mg/L	22:15:07
2	Tl 190.801†	-3.0	1.5	-0.0076 mg/L	-0.0076 mg/L	22:15:17
2	V 292.402†	315.7	688.1	0.0077 mg/L	0.0077 mg/L	22:15:07
2	Zn 213.857†	4807.4	4030.7	0.0315 mg/L	0.0315 mg/L	22:15:17

Mean Data: 1307104-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2480799.7	0.918	mg/L	0.0146			1.59%
Ag 328.068†	-188.4	0.0012	mg/L	0.00009	0.0012 mg/L	0.00009	7.70%
Al 237.313†	3295.8	0.3781	mg/L	0.01142	0.3781 mg/L	0.01142	3.02%
As 188.979†	8.1	0.0103	mg/L	0.00542	0.0103 mg/L	0.00542	52.87%
B 249.677†	178.5	0.1006	mg/L	0.00223	0.1006 mg/L	0.00223	2.22%
B 182.528†	104.9	0.1125	mg/L	0.00171	0.1125 mg/L	0.00171	1.52%
Ba 233.527†	6550.8	0.0602	mg/L	0.00144	0.0602 mg/L	0.00144	2.40%
Be 313.107†	64.3	0.0004	mg/L	0.00002	0.0004 mg/L	0.00002	4.92%
Ca 315.887†	1517274.2	16.57	mg/L	0.049	16.57 mg/L	0.049	0.30%
Cd 228.802†	14.1	0.0011	mg/L	0.00002	0.0011 mg/L	0.00002	1.87%
Co 228.616†	145.2	0.0029	mg/L	0.00007	0.0029 mg/L	0.00007	2.37%
Cr 267.716†	195.2	0.0051	mg/L	0.00028	0.0051 mg/L	0.00028	5.57%
Cu 324.752†	-358.0	0.0025	mg/L	0.00026	0.0025 mg/L	0.00026	10.63%
Fe 234.349†	26870.3	17.90	mg/L	0.381	17.90 mg/L	0.381	2.13%
K 766.490†	2172.3	1.358	mg/L	0.0459	1.358 mg/L	0.0459	3.38%
Li 670.784†	-120.6	0.0011	mg/L	0.00059	0.0011 mg/L	0.00059	52.37%
Mg 279.077†	48981.5	3.974	mg/L	0.0622	3.974 mg/L	0.0622	1.56%
Mn 257.610†	844178.0	1.084	mg/L	0.0007	1.084 mg/L	0.0007	0.06%
Mn 294.920†	418286.8	1.092	mg/L	0.0196	1.092 mg/L	0.0196	1.80%
Mo 202.031†	116.4	0.0048	mg/L	0.00013	0.0048 mg/L	0.00013	2.75%
Na 589.592†	63173.1	11.61	mg/L	0.217	11.61 mg/L	0.217	1.87%
Ni 231.604†	101.8	0.0039	mg/L	0.00051	0.0039 mg/L	0.00051	12.98%
P 214.914†	1349.0	0.8917	mg/L	0.02250	0.8917 mg/L	0.02250	2.52%
Pb 220.353†	-31.8	-0.0024	mg/L	0.00116	-0.0024 mg/L	0.00116	47.55%
Sb 206.836†	11.3	0.0044	mg/L	0.00096	0.0044 mg/L	0.00096	21.80%
Se 196.026†	5.2	0.0050	mg/L	0.00157	0.0050 mg/L	0.00157	31.20%
Sn 189.927†	-253.9	-0.0287	mg/L	0.00055	-0.0287 mg/L	0.00055	1.91%
Sr 407.771†	58501.1	0.0686	mg/L	0.00130	0.0686 mg/L	0.00130	1.89%
Ti 337.279†	5032.2	0.0108	mg/L	0.00015	0.0108 mg/L	0.00015	1.35%
Tl 190.801†	2.3	-0.0070	mg/L	0.00085	-0.0070 mg/L	0.00085	12.11%
V 292.402†	727.4	0.0079	mg/L	0.00025	0.0079 mg/L	0.00025	3.15%
Zn 213.857†	4105.9	0.0321	mg/L	0.00076	0.0321 mg/L	0.00076	2.38%

Sequence No.: 126
Sample ID: 1307104-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 107
Date Collected: 7/5/2013 10:16:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307104-05

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	55.8	67.3	0.0388 mg/L	0.0388 mg/L	22:18:43
1	Fe 234.349†	339.2	362.9	0.2225 mg/L	0.2225 mg/L	22:18:43
1	K 766.490†	4909.4	4532.2	2.644 mg/L	2.644 mg/L	22:18:32
1	Li 670.784†	-305.2	-96.9	0.0018 mg/L	0.0018 mg/L	22:18:32
1	Na 589.592†	47464.2	51244.1	9.437 mg/L	9.437 mg/L	22:18:32
1	Sr 407.771†	51488.5	56038.7	0.0657 mg/L	0.0657 mg/L	22:18:32
1	Y 371.029	2478596.8	2478596.8	0.918 mg/L		22:18:59
1	Ag 328.068†	1472.5	-260.5	0.0003 mg/L	0.0003 mg/L	22:19:01
1	Al 237.313†	1980.6	2588.7	0.3005 mg/L	0.3005 mg/L	22:19:11
1	As 188.979†	-10.8	-5.1	0.0006 mg/L	0.0006 mg/L	22:19:11
1	B 182.528†	26.5	38.4	0.0412 mg/L	0.0412 mg/L	22:19:11
1	Ba 233.527†	3850.4	4293.0	0.0405 mg/L	0.0405 mg/L	22:19:11
1	Be 313.107†	-1273.2	50.5	0.0004 mg/L	0.0004 mg/L	22:19:01
1	Ca 315.887†	1537989.8	1677890.4	18.32 mg/L	18.32 mg/L	22:18:59
1	Cd 228.802†	185.4	43.0	0.0023 mg/L	0.0023 mg/L	22:19:11
1	Co 228.616†	-243.5	-23.5	-0.0005 mg/L	-0.0005 mg/L	22:19:11
1	Cr 267.716†	18005.6	19055.3	0.1695 mg/L	0.1695 mg/L	22:19:01
1	Cu 324.752†	4392.4	-16.3	0.0043 mg/L	0.0043 mg/L	22:19:01
1	Mg 279.077†	13224.2	14407.6	1.186 mg/L	1.186 mg/L	22:19:01
1	Mn 257.610†	22873.9	8854.2	0.0130 mg/L	0.0130 mg/L	22:19:11
1	Mn 294.920†	2475.9	4030.4	0.0120 mg/L	0.0120 mg/L	22:19:01
1	Mo 202.031†	145.5	122.7	0.0077 mg/L	0.0077 mg/L	22:19:11
1	Ni 231.604†	180.0	38.1	0.0025 mg/L	0.0025 mg/L	22:19:11
1	P 214.914†	1184.2	1317.5	0.8719 mg/L	0.8719 mg/L	22:19:11
1	Pb 220.353†	194.6	29.9	0.0019 mg/L	0.0019 mg/L	22:19:11
1	Sb 206.836†	50.3	6.9	0.0060 mg/L	0.0060 mg/L	22:19:11
1	Se 196.026†	9.3	-0.8	0.0044 mg/L	0.0044 mg/L	22:19:11
1	Sn 189.927†	-190.3	-236.7	-0.0251 mg/L	-0.0251 mg/L	22:19:11
1	Ti 337.279†	4631.2	5666.6	0.0115 mg/L	0.0115 mg/L	22:19:01
1	Tl 190.801†	-4.1	0.3	0.0017 mg/L	0.0017 mg/L	22:19:11
1	V 292.402†	-364.2	-48.6	0.0051 mg/L	0.0051 mg/L	22:19:01
1	Zn 213.857†	5256.9	4583.2	0.0364 mg/L	0.0364 mg/L	22:19:11
2	B 249.677†	58.9	71.6	0.0411 mg/L	0.0411 mg/L	22:18:55
2	Fe 234.349†	323.5	351.0	0.2144 mg/L	0.2144 mg/L	22:18:55
2	K 766.490†	4971.1	4679.1	2.724 mg/L	2.724 mg/L	22:18:45
2	Li 670.784†	-329.1	-128.3	0.0009 mg/L	0.0009 mg/L	22:18:45
2	Na 589.592†	47093.2	51595.5	9.501 mg/L	9.501 mg/L	22:18:45
2	Sr 407.771†	50875.9	56187.5	0.0659 mg/L	0.0659 mg/L	22:18:45
2	Y 371.029	2442626.2	2442626.2	0.904 mg/L		22:19:14
2	Ag 328.068†	1577.8	-120.5	0.0011 mg/L	0.0011 mg/L	22:19:16
2	Al 237.313†	2032.9	2678.4	0.3104 mg/L	0.3104 mg/L	22:19:26
2	As 188.979†	-7.4	-1.6	0.0032 mg/L	0.0032 mg/L	22:19:26
2	B 182.528†	23.5	35.6	0.0381 mg/L	0.0381 mg/L	22:19:26
2	Ba 233.527†	3874.0	4380.9	0.0413 mg/L	0.0413 mg/L	22:19:26
2	Be 313.107†	-1280.2	22.4	0.0004 mg/L	0.0004 mg/L	22:19:16
2	Ca 315.887†	1524880.4	1688075.4	18.43 mg/L	18.43 mg/L	22:19:14
2	Cd 228.802†	183.4	43.7	0.0024 mg/L	0.0024 mg/L	22:19:26
2	Co 228.616†	-219.5	-0.9	0.0000 mg/L	0.0000 mg/L	22:19:26
2	Cr 267.716†	18416.3	19798.4	0.1760 mg/L	0.1760 mg/L	22:19:16
2	Cu 324.752†	4454.8	123.2	0.0051 mg/L	0.0051 mg/L	22:19:16
2	Mg 279.077†	13588.1	15022.2	1.236 mg/L	1.236 mg/L	22:19:16
2	Mn 257.610†	23087.0	9456.9	0.0138 mg/L	0.0138 mg/L	22:19:26
2	Mn 294.920†	2485.2	4080.4	0.0122 mg/L	0.0122 mg/L	22:19:16
2	Mo 202.031†	154.7	135.2	0.0082 mg/L	0.0082 mg/L	22:19:26
2	Ni 231.604†	188.9	50.8	0.0028 mg/L	0.0028 mg/L	22:19:26
2	P 214.914†	1191.7	1344.8	0.8890 mg/L	0.8890 mg/L	22:19:26
2	Pb 220.353†	182.9	20.1	0.0012 mg/L	0.0012 mg/L	22:19:26
2	Sb 206.836†	59.0	17.4	0.0109 mg/L	0.0109 mg/L	22:19:26
2	Se 196.026†	8.1	-2.0	0.0036 mg/L	0.0036 mg/L	22:19:26
2	Sn 189.927†	-204.9	-255.9	-0.0279 mg/L	-0.0279 mg/L	22:19:26
2	Ti 337.279†	4361.8	5443.0	0.0113 mg/L	0.0113 mg/L	22:19:16
2	Tl 190.801†	-0.9	3.8	0.0050 mg/L	0.0050 mg/L	22:19:26
2	V 292.402†	-191.8	136.2	0.0060 mg/L	0.0060 mg/L	22:19:16
2	Zn 213.857†	5314.0	4730.7	0.0375 mg/L	0.0375 mg/L	22:19:26

Mean Data: 1307104-05

Mean Corrected

Calib

Sample Page 281 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2460611.5	0.911 mg/L	0.0094			1.03%
Ag 328.068†	-190.5	0.0007 mg/L	0.00055	0.0007 mg/L	0.00055	75.67%
Al 237.313†	2633.6	0.3055 mg/L	0.00703	0.3055 mg/L	0.00703	2.30%
As 188.979†	-3.4	0.0019 mg/L	0.00182	0.0019 mg/L	0.00182	94.32%
B 249.677†	69.5	0.0399 mg/L	0.00167	0.0399 mg/L	0.00167	4.17%
B 182.528†	37.0	0.0396 mg/L	0.00216	0.0396 mg/L	0.00216	5.46%
Ba 233.527†	4336.9	0.0409 mg/L	0.00054	0.0409 mg/L	0.00054	1.32%
Be 313.107†	36.5	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.95%
Ca 315.887†	1682982.9	18.38 mg/L	0.078	18.38 mg/L	0.078	0.43%
Cd 228.802†	43.4	0.0024 mg/L	0.00002	0.0024 mg/L	0.00002	0.72%
Co 228.616†	-12.2	-0.0002 mg/L	0.00032	-0.0002 mg/L	0.00032	129.86%
Cr 267.716†	19426.8	0.1727 mg/L	0.00458	0.1727 mg/L	0.00458	2.65%
Cu 324.752†	53.5	0.0047 mg/L	0.00053	0.0047 mg/L	0.00053	11.28%
Fe 234.349†	356.9	0.2184 mg/L	0.00574	0.2184 mg/L	0.00574	2.63%
K 766.490†	4605.6	2.684 mg/L	0.0566	2.684 mg/L	0.0566	2.11%
Li 670.784†	-112.6	0.0014 mg/L	0.00061	0.0014 mg/L	0.00061	45.01%
Mg 279.077†	14714.9	1.211 mg/L	0.0350	1.211 mg/L	0.0350	2.89%
Mn 257.610†	9155.5	0.0134 mg/L	0.00055	0.0134 mg/L	0.00055	4.10%
Mn 294.920†	4055.4	0.0121 mg/L	0.00009	0.0121 mg/L	0.00009	0.76%
Mo 202.031†	128.9	0.0079 mg/L	0.00037	0.0079 mg/L	0.00037	4.70%
Na 589.592†	51419.8	9.469 mg/L	0.0452	9.469 mg/L	0.0452	0.48%
Ni 231.604†	44.4	0.0026 mg/L	0.00020	0.0026 mg/L	0.00020	7.65%
P 214.914†	1331.2	0.8804 mg/L	0.01208	0.8804 mg/L	0.01208	1.37%
Pb 220.353†	25.0	0.0016 mg/L	0.00049	0.0016 mg/L	0.00049	31.12%
Sb 206.836†	12.2	0.0085 mg/L	0.00344	0.0085 mg/L	0.00344	40.63%
Se 196.026†	-1.4	0.0040 mg/L	0.00058	0.0040 mg/L	0.00058	14.26%
Sn 189.927†	-246.3	-0.0265 mg/L	0.00196	-0.0265 mg/L	0.00196	7.40%
Sr 407.771†	56113.1	0.0658 mg/L	0.00012	0.0658 mg/L	0.00012	0.19%
Ti 337.279†	5554.8	0.0114 mg/L	0.00018	0.0114 mg/L	0.00018	1.62%
Tl 190.801†	2.0	0.0034 mg/L	0.00236	0.0034 mg/L	0.00236	69.98%
V 292.402†	43.8	0.0055 mg/L	0.00062	0.0055 mg/L	0.00062	11.21%
Zn 213.857†	4657.0	0.0369 mg/L	0.00077	0.0369 mg/L	0.00077	2.07%

Sequence No.: 127
Sample ID: 1307104-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 108
Date Collected: 7/5/2013 10:21:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307104-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	96.8	114.9	0.0652 mg/L	0.0652 mg/L	22:22:53
1	Fe 234.349†	87.7	91.5	0.0275 mg/L	0.0275 mg/L	22:22:53
1	K 766.490†	13493.5	14294.6	7.965 mg/L	7.965 mg/L	22:22:43
1	Li 670.784†	-344.1	-149.8	0.0003 mg/L	0.0003 mg/L	22:22:43
1	Na 589.592†	175473.3	196046.6	35.78 mg/L	35.78 mg/L	22:22:43
1	Sr 407.771†	106146.0	118810.6	0.1389 mg/L	0.1389 mg/L	22:22:43
1	Y 371.029	2411685.4	2411685.4	0.893 mg/L		22:23:10
1	Ag 328.068†	1604.8	-67.8	0.0014 mg/L	0.0014 mg/L	22:23:12
1	Al 237.313†	388.3	865.3	0.1101 mg/L	0.1101 mg/L	22:23:22
1	As 188.979†	-14.8	-9.9	-0.0029 mg/L	-0.0029 mg/L	22:23:22
1	B 182.528†	44.2	59.1	0.0633 mg/L	0.0633 mg/L	22:23:22
1	Ba 233.527†	12970.4	14623.6	0.1305 mg/L	0.1305 mg/L	22:23:12
1	Be 313.107†	-1250.4	37.6	0.0004 mg/L	0.0004 mg/L	22:23:12
1	Ca 315.887†	2195137.2	2460381.8	26.85 mg/L	26.85 mg/L	22:23:10
1	Cd 228.802†	168.2	29.3	0.0019 mg/L	0.0019 mg/L	22:23:22
1	Co 228.616†	-216.4	-0.5	0.0000 mg/L	0.0000 mg/L	22:23:22
1	Cr 267.716†	26146.3	28717.1	0.2537 mg/L	0.2537 mg/L	22:23:12
1	Cu 324.752†	3988.9	-335.4	0.0026 mg/L	0.0026 mg/L	22:23:12
1	Mg 279.077†	52825.8	59160.4	4.793 mg/L	4.793 mg/L	22:23:12
1	Mn 257.610†	31347.6	19036.1	0.0262 mg/L	0.0262 mg/L	22:23:12
1	Mn 294.920†	6554.8	8673.5	0.0241 mg/L	0.0241 mg/L	22:23:12
1	Mo 202.031†	175.9	161.1	0.0093 mg/L	0.0093 mg/L	22:23:22
1	Ni 231.604†	169.6	31.9	0.0023 mg/L	0.0023 mg/L	22:23:22
1	P 214.914†	1389.9	1583.7	1.039 mg/L	1.039 mg/L	22:23:22
1	Pb 220.353†	121.2	-46.4	-0.0034 mg/L	-0.0034 mg/L	22:23:22
1	Sb 206.836†	55.4	14.2	0.0088 mg/L	0.0088 mg/L	22:23:22
1	Se 196.026†	14.3	5.1	0.0085 mg/L	0.0085 mg/L	22:23:22
1	Sn 189.927†	-282.0	-345.1	-0.0359 mg/L	-0.0359 mg/L	22:23:22

1	Ti 337.279†	-410.2	160.4	0.0051 mg/L	0.0051 mg/L	22:23:12
1	Tl 190.801†	5.4	10.9	0.0122 mg/L	0.0122 mg/L	22:23:22
1	V 292.402†	-288.5	25.1	0.0058 mg/L	0.0058 mg/L	22:23:12
1	Zn 213.857†	3951.6	3280.3	0.0268 mg/L	0.0268 mg/L	22:23:22
2	B 249.677†	89.1	105.3	0.0599 mg/L	0.0599 mg/L	22:23:06
2	Fe 234.349†	108.8	113.8	0.0422 mg/L	0.0422 mg/L	22:23:06
2	K 766.490†	13773.8	14448.5	8.049 mg/L	8.049 mg/L	22:22:56
2	Li 670.784†	-360.3	-163.8	-0.0001 mg/L	-0.0001 mg/L	22:22:56
2	Na 589.592†	177591.0	196355.2	35.84 mg/L	35.84 mg/L	22:22:56
2	Sr 407.771†	107855.6	119472.4	0.1397 mg/L	0.1397 mg/L	22:22:56
2	Y 371.029	2436963.9	2436963.9	0.902 mg/L		22:23:25
2	Ag 328.068†	1523.3	-176.8	0.0008 mg/L	0.0008 mg/L	22:23:27
2	Al 237.313†	398.8	872.4	0.1109 mg/L	0.1109 mg/L	22:23:37
2	As 188.979†	-3.6	2.7	0.0063 mg/L	0.0063 mg/L	22:23:37
2	B 182.528†	46.4	60.9	0.0653 mg/L	0.0653 mg/L	22:23:37
2	Ba 233.527†	13137.1	14657.7	0.1308 mg/L	0.1308 mg/L	22:23:27
2	Be 313.107†	-1348.9	-57.1	0.0004 mg/L	0.0004 mg/L	22:23:27
2	Ca 315.887†	2225906.7	2468983.5	26.94 mg/L	26.94 mg/L	22:23:25
2	Cd 228.802†	173.4	33.1	0.0020 mg/L	0.0020 mg/L	22:23:37
2	Co 228.616†	-222.8	-5.1	-0.0001 mg/L	-0.0001 mg/L	22:23:37
2	Cr 267.716†	26379.1	28671.3	0.2533 mg/L	0.2533 mg/L	22:23:27
2	Cu 324.752†	3890.5	-490.9	0.0018 mg/L	0.0018 mg/L	22:23:27
2	Mg 279.077†	53129.4	58883.1	4.770 mg/L	4.770 mg/L	22:23:27
2	Mn 257.610†	31404.3	18734.7	0.0258 mg/L	0.0258 mg/L	22:23:27
2	Mn 294.920†	6560.2	8603.3	0.0240 mg/L	0.0240 mg/L	22:23:27
2	Mo 202.031†	183.3	167.3	0.0096 mg/L	0.0096 mg/L	22:23:37
2	Ni 231.604†	179.4	40.8	0.0025 mg/L	0.0025 mg/L	22:23:37
2	P 214.914†	1397.1	1575.5	1.034 mg/L	1.034 mg/L	22:23:37
2	Pb 220.353†	117.2	-52.2	-0.0038 mg/L	-0.0038 mg/L	22:23:37
2	Sb 206.836†	56.6	14.8	0.0091 mg/L	0.0091 mg/L	22:23:37
2	Se 196.026†	10.0	0.1	0.0051 mg/L	0.0051 mg/L	22:23:37
2	Sn 189.927†	-277.6	-337.0	-0.0346 mg/L	-0.0346 mg/L	22:23:37
2	Ti 337.279†	-695.8	-151.4	0.0047 mg/L	0.0047 mg/L	22:23:27
2	Tl 190.801†	5.3	10.7	0.0121 mg/L	0.0121 mg/L	22:23:37
2	V 292.402†	-210.3	115.2	0.0062 mg/L	0.0062 mg/L	22:23:27
2	Zn 213.857†	3999.8	3287.8	0.0269 mg/L	0.0269 mg/L	22:23:37

Mean Data: 1307104-06

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Units		
Y 371.029	2424324.7	0.898	mg/L	0.0066				0.74%
Ag 328.068†	-122.3	0.0011	mg/L	0.00043	0.0011 mg/L	0.00043		38.86%
Al 237.313†	868.9	0.1105	mg/L	0.00055	0.1105 mg/L	0.00055		0.50%
As 188.979†	-3.6	0.0017	mg/L	0.00649	0.0017 mg/L	0.00649		373.50%
B 249.677†	110.1	0.0625	mg/L	0.00376	0.0625 mg/L	0.00376		6.02%
B 182.528†	60.0	0.0643	mg/L	0.00141	0.0643 mg/L	0.00141		2.20%
Ba 233.527†	14640.6	0.1307	mg/L	0.00021	0.1307 mg/L	0.00021		0.16%
Be 313.107†	-9.7	0.0004	mg/L	0.00003	0.0004 mg/L	0.00003		7.19%
Ca 315.887†	2464682.6	26.90	mg/L	0.066	26.90 mg/L	0.066		0.25%
Cd 228.802†	31.2	0.0020	mg/L	0.00008	0.0020 mg/L	0.00008		4.21%
Co 228.616†	-2.8	0.0000	mg/L	0.00006	0.0000 mg/L	0.00006		144.53%
Cr 267.716†	28694.2	0.2535	mg/L	0.00028	0.2535 mg/L	0.00028		0.11%
Cu 324.752†	-413.1	0.0022	mg/L	0.00059	0.0022 mg/L	0.00059		27.12%
Fe 234.349†	102.6	0.0349	mg/L	0.01043	0.0349 mg/L	0.01043		29.92%
K 766.490†	14371.6	8.007	mg/L	0.0593	8.007 mg/L	0.0593		0.74%
Li 670.784†	-156.8	0.0001	mg/L	0.00027	0.0001 mg/L	0.00027		194.67%
Mg 279.077†	59021.8	4.781	mg/L	0.0158	4.781 mg/L	0.0158		0.33%
Mn 257.610†	18885.4	0.0260	mg/L	0.00028	0.0260 mg/L	0.00028		1.06%
Mn 294.920†	8638.4	0.0240	mg/L	0.00013	0.0240 mg/L	0.00013		0.54%
Mo 202.031†	164.2	0.0095	mg/L	0.00019	0.0095 mg/L	0.00019		1.99%
Na 589.592†	196200.9	35.81	mg/L	0.040	35.81 mg/L	0.040		0.11%
Ni 231.604†	36.3	0.0024	mg/L	0.00014	0.0024 mg/L	0.00014		5.75%
P 214.914†	1579.6	1.036	mg/L	0.0036	1.036 mg/L	0.0036		0.35%
Pb 220.353†	-49.3	-0.0036	mg/L	0.00029	-0.0036 mg/L	0.00029		7.95%
Sb 206.836†	14.5	0.0089	mg/L	0.00021	0.0089 mg/L	0.00021		2.32%
Se 196.026†	2.6	0.0068	mg/L	0.00242	0.0068 mg/L	0.00242		35.49%
Sn 189.927†	-341.1	-0.0353	mg/L	0.00089	-0.0353 mg/L	0.00089		2.54%
Sr 407.771†	119141.5	0.1393	mg/L	0.00055	0.1393 mg/L	0.00055		0.39%
Ti 337.279†	4.5	0.0049	mg/L	0.00026	0.0049 mg/L	0.00026		5.25%
Tl 190.801†	10.8	0.0122	mg/L	0.00011	0.0122 mg/L	0.00011		0.90%
V 292.402†	70.1	0.0060	mg/L	0.00029	0.0060 mg/L	0.00029		4.84%
Zn 213.857†	3284.0	0.0268	mg/L	0.00004	0.0268 mg/L	0.00004		0.14%

Sequence No.: 128
Sample ID: 1307105-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 109
Date Collected: 7/5/2013 10:25:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307105-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	33.9	43.8	0.0257 mg/L	0.0257 mg/L	22:27:07
1	Fe 234.349†	371.9	402.5	0.1932 mg/L	0.1932 mg/L	22:27:07
1	K 766.490†	15084.6	15783.8	8.776 mg/L	8.776 mg/L	22:26:57
1	Li 670.784†	283.1	547.2	0.0195 mg/L	0.0195 mg/L	22:26:57
1	Na 589.592†	404773.3	445001.0	81.08 mg/L	81.08 mg/L	22:26:57
1	Sr 407.771†	330626.3	363806.4	0.4246 mg/L	0.4246 mg/L	22:26:57
1	Y 371.029	2454218.5	2454218.5	0.909 mg/L		22:27:24
1	Ag 328.068†	1528.3	-183.2	0.0008 mg/L	0.0008 mg/L	22:27:26
1	Al 237.313†	267.0	724.3	0.0935 mg/L	0.0935 mg/L	22:27:36
1	As 188.979†	-7.7	-1.8	0.0031 mg/L	0.0031 mg/L	22:27:36
1	B 182.528†	-0.9	8.6	0.0091 mg/L	0.0091 mg/L	22:27:36
1	Ba 233.527†	7002.7	7804.0	0.0711 mg/L	0.0711 mg/L	22:27:36
1	Be 313.107†	-1323.6	-18.7	0.0004 mg/L	0.0004 mg/L	22:27:26
1	Ca 315.887†	4344654.8	4783465.7	52.17 mg/L	52.17 mg/L	22:27:24
1	Cd 228.802†	155.4	12.0	0.0014 mg/L	0.0014 mg/L	22:27:36
1	Co 228.616†	399.3	681.3	0.0136 mg/L	0.0136 mg/L	22:27:36
1	Cr 267.716†	622.4	118.8	0.0044 mg/L	0.0044 mg/L	22:27:26
1	Cu 324.752†	3811.6	-608.0	0.0011 mg/L	0.0011 mg/L	22:27:26
1	Mg 279.077†	152627.1	167973.2	13.56 mg/L	13.56 mg/L	22:27:26
1	Mn 257.610†	603219.8	647812.2	0.8351 mg/L	0.8351 mg/L	22:27:24
1	Mn 294.920†	286884.8	317068.7	0.8284 mg/L	0.8284 mg/L	22:27:26
1	Mo 202.031†	251.0	240.3	0.0127 mg/L	0.0127 mg/L	22:27:36
1	Ni 231.604†	387.5	268.5	0.0076 mg/L	0.0076 mg/L	22:27:36
1	P 214.914†	1002.8	1130.7	0.7549 mg/L	0.7549 mg/L	22:27:36
1	Pb 220.353†	123.8	-45.9	-0.0033 mg/L	-0.0033 mg/L	22:27:36
1	Sb 206.836†	44.1	0.7	0.0045 mg/L	0.0045 mg/L	22:27:36
1	Se 196.026†	23.0	14.5	0.0149 mg/L	0.0149 mg/L	22:27:36
1	Sn 189.927†	-453.0	-527.8	-0.0473 mg/L	-0.0473 mg/L	22:27:36
1	Ti 337.279†	6159.6	7398.9	0.0135 mg/L	0.0135 mg/L	22:27:26
1	Tl 190.801†	6.9	12.4	0.0141 mg/L	0.0141 mg/L	22:27:36
1	V 292.402†	-232.7	92.2	0.0051 mg/L	0.0051 mg/L	22:27:26
1	Zn 213.857†	3890.4	3136.2	0.0257 mg/L	0.0257 mg/L	22:27:36
2	B 249.677†	26.0	35.0	0.0208 mg/L	0.0208 mg/L	22:27:19
2	Fe 234.349†	389.2	419.2	0.2039 mg/L	0.2039 mg/L	22:27:19
2	K 766.490†	15060.1	15664.6	8.711 mg/L	8.711 mg/L	22:27:09
2	Li 670.784†	340.6	608.4	0.0212 mg/L	0.0212 mg/L	22:27:09
2	Na 589.592†	403001.9	440582.3	80.28 mg/L	80.28 mg/L	22:27:09
2	Sr 407.771†	328354.9	359294.7	0.4193 mg/L	0.4193 mg/L	22:27:09
2	Y 371.029	2467957.3	2467957.3	0.914 mg/L		22:27:39
2	Ag 328.068†	1525.2	-195.9	0.0007 mg/L	0.0007 mg/L	22:27:41
2	Al 237.313†	285.7	743.1	0.0956 mg/L	0.0956 mg/L	22:27:52
2	As 188.979†	-5.6	0.5	0.0047 mg/L	0.0047 mg/L	22:27:52
2	B 182.528†	0.6	10.2	0.0109 mg/L	0.0109 mg/L	22:27:52
2	Ba 233.527†	6981.1	7737.4	0.0705 mg/L	0.0705 mg/L	22:27:52
2	Be 313.107†	-1336.4	-24.6	0.0004 mg/L	0.0004 mg/L	22:27:41
2	Ca 315.887†	4392496.1	4809206.6	52.45 mg/L	52.45 mg/L	22:27:39
2	Cd 228.802†	163.0	19.4	0.0016 mg/L	0.0016 mg/L	22:27:52
2	Co 228.616†	408.2	688.5	0.0138 mg/L	0.0138 mg/L	22:27:52
2	Cr 267.716†	531.8	15.8	0.0035 mg/L	0.0035 mg/L	22:27:41
2	Cu 324.752†	3759.6	-688.2	0.0007 mg/L	0.0007 mg/L	22:27:41
2	Mg 279.077†	155796.8	170507.1	13.77 mg/L	13.77 mg/L	22:27:41
2	Mn 257.610†	609319.9	650792.6	0.8389 mg/L	0.8389 mg/L	22:27:39
2	Mn 294.920†	291589.7	320460.2	0.8372 mg/L	0.8372 mg/L	22:27:41
2	Mo 202.031†	260.1	248.7	0.0130 mg/L	0.0130 mg/L	22:27:52
2	Ni 231.604†	409.8	290.5	0.0081 mg/L	0.0081 mg/L	22:27:52
2	P 214.914†	1005.3	1127.3	0.7528 mg/L	0.7528 mg/L	22:27:52
2	Pb 220.353†	88.7	-85.0	-0.0061 mg/L	-0.0061 mg/L	22:27:52
2	Sb 206.836†	59.5	17.3	0.0123 mg/L	0.0123 mg/L	22:27:52
2	Se 196.026†	16.1	6.7	0.0096 mg/L	0.0096 mg/L	22:27:52
2	Sn 189.927†	-456.9	-529.3	-0.0473 mg/L	-0.0473 mg/L	22:27:52
2	Ti 337.279†	6093.5	7288.8	0.0134 mg/L	0.0134 mg/L	22:27:41

2	Tl 190.801†	8.0	13.5	0.0152 mg/L	0.0152 mg/L	22:27:52
2	V 292.402†	-271.0	51.7	0.0049 mg/L	0.0049 mg/L	22:27:41
2	Zn 213.857†	3866.0	3085.7	0.0253 mg/L	0.0253 mg/L	22:27:52

Mean Data: 1307105-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2461087.9	0.911 mg/L		0.0036			0.39%
Ag 328.068†	-189.6	0.0007 mg/L		0.00005	0.0007 mg/L	0.00005	6.80%
Al 237.313†	733.7	0.0946 mg/L		0.00146	0.0946 mg/L	0.00146	1.55%
As 188.979†	-0.6	0.0039 mg/L		0.00119	0.0039 mg/L	0.00119	30.45%
B 249.677†	39.4	0.0232 mg/L		0.00349	0.0232 mg/L	0.00349	15.01%
B 182.528†	9.4	0.0100 mg/L		0.00123	0.0100 mg/L	0.00123	12.26%
Ba 233.527†	7770.7	0.0708 mg/L		0.00041	0.0708 mg/L	0.00041	0.58%
Be 313.107†	-21.7	0.0004 mg/L		0.00000	0.0004 mg/L	0.00000	0.51%
Ca 315.887†	4796336.1	52.31 mg/L		0.198	52.31 mg/L	0.198	0.38%
Cd 228.802†	15.7	0.0015 mg/L		0.00016	0.0015 mg/L	0.00016	10.95%
Co 228.616†	684.9	0.0137 mg/L		0.00010	0.0137 mg/L	0.00010	0.75%
Cr 267.716†	67.3	0.0040 mg/L		0.00063	0.0040 mg/L	0.00063	15.93%
Cu 324.752†	-648.1	0.0009 mg/L		0.00031	0.0009 mg/L	0.00031	32.96%
Fe 234.349†	410.8	0.1985 mg/L		0.00754	0.1985 mg/L	0.00754	3.80%
K 766.490†	15724.2	8.744 mg/L		0.0459	8.744 mg/L	0.0459	0.53%
Li 670.784†	577.8	0.0203 mg/L		0.00119	0.0203 mg/L	0.00119	5.85%
Mg 279.077†	169240.1	13.66 mg/L		0.144	13.66 mg/L	0.144	1.06%
Mn 257.610†	649302.4	0.8370 mg/L		0.00271	0.8370 mg/L	0.00271	0.32%
Mn 294.920†	318764.4	0.8328 mg/L		0.00625	0.8328 mg/L	0.00625	0.75%
Mo 202.031†	244.5	0.0129 mg/L		0.00025	0.0129 mg/L	0.00025	1.98%
Na 589.592†	442791.7	80.68 mg/L		0.568	80.68 mg/L	0.568	0.70%
Ni 231.604†	279.5	0.0079 mg/L		0.00035	0.0079 mg/L	0.00035	4.41%
P 214.914†	1129.0	0.7538 mg/L		0.00152	0.7538 mg/L	0.00152	0.20%
Pb 220.353†	-65.5	-0.0047 mg/L		0.00195	-0.0047 mg/L	0.00195	41.28%
Sb 206.836†	9.0	0.0084 mg/L		0.00549	0.0084 mg/L	0.00549	65.26%
Se 196.026†	10.6	0.0122 mg/L		0.00375	0.0122 mg/L	0.00375	30.69%
Sn 189.927†	-528.6	-0.0473 mg/L		0.00003	-0.0473 mg/L	0.00003	0.07%
Sr 407.771†	361550.5	0.4219 mg/L		0.00372	0.4219 mg/L	0.00372	0.88%
Ti 337.279†	7343.8	0.0135 mg/L		0.00009	0.0135 mg/L	0.00009	0.67%
Tl 190.801†	13.0	0.0147 mg/L		0.00077	0.0147 mg/L	0.00077	5.23%
V 292.402†	71.9	0.0050 mg/L		0.00013	0.0050 mg/L	0.00013	2.57%
Zn 213.857†	3110.9	0.0255 mg/L		0.00027	0.0255 mg/L	0.00027	1.04%

Sequence No.: 129

Sample ID: 1307105-02

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 110

Date Collected: 7/5/2013 10:29:29 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307105-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	103.1	119.1	0.0676 mg/L	0.0676 mg/L	22:31:18
1	Fe 234.349†	1607.0	1747.9	0.9904 mg/L	0.9904 mg/L	22:31:18
1	K 766.490†	31283.2	33340.8	18.34 mg/L	18.34 mg/L	22:31:08
1	Li 670.784†	-346.6	-142.9	0.0005 mg/L	0.0005 mg/L	22:31:08
1	Na 589.592†	60403.4	65475.6	12.03 mg/L	12.03 mg/L	22:31:08
1	Sr 407.771†	305955.2	334006.2	0.3898 mg/L	0.3898 mg/L	22:31:08
1	Y 371.029	2473670.3	2473670.3	0.916 mg/L		22:31:38
1	Ag 328.068†	1454.2	-277.3	0.0003 mg/L	0.0003 mg/L	22:31:40
1	Al 237.313†	1133.9	1668.6	0.1980 mg/L	0.1980 mg/L	22:31:40
1	As 188.979†	-1.5	5.0	0.0080 mg/L	0.0080 mg/L	22:31:50
1	B 182.528†	31.8	44.3	0.0475 mg/L	0.0475 mg/L	22:31:50
1	Ba 233.527†	6080.6	6736.6	0.0618 mg/L	0.0618 mg/L	22:31:50
1	Be 313.107†	-1472.1	-169.4	0.0003 mg/L	0.0003 mg/L	22:31:40
1	Ca 315.887†	9488813.7	10362845.2	113.0 mg/L	113.0 mg/L	22:31:35
1	Cd 228.802†	145.3	-0.4	0.0010 mg/L	0.0010 mg/L	22:31:50
1	Co 228.616†	16.4	259.7	0.0052 mg/L	0.0052 mg/L	22:31:50
1	Cr 267.716†	587.5	75.2	0.0041 mg/L	0.0041 mg/L	22:31:40
1	Cu 324.752†	4282.6	-126.6	0.0037 mg/L	0.0037 mg/L	22:31:40
1	Mg 279.077†	141705.0	154726.3	12.50 mg/L	12.50 mg/L	22:31:40
1	Mn 257.610†	1666769.1	1803896.1	2.322 mg/L	2.322 mg/L	22:31:38
1	Mn 294.920†	802051.8	877103.9	2.289 mg/L	2.289 mg/L	22:31:38

1	Mo 202.031†	395.2	395.6	0.0191 mg/L	0.0191 mg/L	22:31:50
1	Ni 231.604†	335.1	207.9	0.0063 mg/L	0.0063 mg/L	22:31:50
1	P 214.914†	982.1	1099.4	0.7352 mg/L	0.7352 mg/L	22:31:50
1	Pb 220.353†	28.8	-150.7	-0.0108 mg/L	-0.0108 mg/L	22:31:50
1	Sb 206.836†	61.1	18.9	0.0129 mg/L	0.0129 mg/L	22:31:50
1	Se 196.026†	-0.1	-11.0	-0.0028 mg/L	-0.0028 mg/L	22:31:50
1	Sn 189.927†	-633.1	-720.6	-0.0382 mg/L	-0.0382 mg/L	22:31:50
1	Ti 337.279†	7516.6	8827.2	0.0152 mg/L	0.0152 mg/L	22:31:40
1	Tl 190.801†	19.0	25.5	0.0276 mg/L	0.0276 mg/L	22:31:50
1	V 292.402†	-221.7	106.2	0.0053 mg/L	0.0053 mg/L	22:31:40
1	Zn 213.857†	3307.3	2465.9	0.0207 mg/L	0.0207 mg/L	22:31:50
2	B 249.677†	108.2	125.9	0.0714 mg/L	0.0714 mg/L	22:31:31
2	Fe 234.349†	1622.5	1785.0	1.017 mg/L	1.017 mg/L	22:31:31
2	K 766.490†	31460.3	33923.3	18.66 mg/L	18.66 mg/L	22:31:20
2	Li 670.784†	-254.1	-45.0	0.0032 mg/L	0.0032 mg/L	22:31:20
2	Na 589.592†	60402.7	66222.2	12.16 mg/L	12.16 mg/L	22:31:20
2	Sr 407.771†	306311.6	338185.3	0.3947 mg/L	0.3947 mg/L	22:31:20
2	Y 371.029	2445955.2	2445955.2	0.906 mg/L		22:31:55
2	Ag 328.068†	1530.9	-174.6	0.0008 mg/L	0.0008 mg/L	22:31:58
2	Al 237.313†	1102.0	1647.4	0.1957 mg/L	0.1957 mg/L	22:31:58
2	As 188.979†	-8.7	-3.0	0.0022 mg/L	0.0022 mg/L	22:32:08
2	B 182.528†	30.8	43.6	0.0467 mg/L	0.0467 mg/L	22:32:08
2	Ba 233.527†	6031.2	6757.2	0.0620 mg/L	0.0620 mg/L	22:32:08
2	Be 313.107†	-1420.4	-130.6	0.0003 mg/L	0.0003 mg/L	22:31:58
2	Ca 315.887†	9272900.6	10241815.2	111.7 mg/L	111.7 mg/L	22:31:53
2	Cd 228.802†	144.0	0.0	0.0010 mg/L	0.0010 mg/L	22:32:08
2	Co 228.616†	-13.0	227.5	0.0045 mg/L	0.0045 mg/L	22:32:08
2	Cr 267.716†	631.9	131.6	0.0045 mg/L	0.0045 mg/L	22:31:58
2	Cu 324.752†	4275.1	-82.0	0.0040 mg/L	0.0040 mg/L	22:31:58
2	Mg 279.077†	138561.0	153007.6	12.36 mg/L	12.36 mg/L	22:31:58
2	Mn 257.610†	1645758.4	1801316.4	2.319 mg/L	2.319 mg/L	22:31:55
2	Mn 294.920†	791361.4	875222.1	2.284 mg/L	2.284 mg/L	22:31:55
2	Mo 202.031†	386.2	390.5	0.0189 mg/L	0.0189 mg/L	22:32:08
2	Ni 231.604†	336.5	213.6	0.0064 mg/L	0.0064 mg/L	22:32:08
2	P 214.914†	991.6	1122.1	0.7494 mg/L	0.7494 mg/L	22:32:08
2	Pb 220.353†	52.7	-123.9	-0.0089 mg/L	-0.0089 mg/L	22:32:08
2	Sb 206.836†	54.5	12.3	0.0098 mg/L	0.0098 mg/L	22:32:08
2	Se 196.026†	9.2	-0.7	0.0043 mg/L	0.0043 mg/L	22:32:08
2	Sn 189.927†	-649.2	-746.2	-0.0428 mg/L	-0.0428 mg/L	22:32:08
2	Ti 337.279†	7158.0	8524.3	0.0148 mg/L	0.0148 mg/L	22:31:58
2	Tl 190.801†	19.8	26.6	0.0286 mg/L	0.0286 mg/L	22:32:08
2	V 292.402†	-292.5	25.3	0.0049 mg/L	0.0049 mg/L	22:31:58
2	Zn 213.857†	3296.7	2495.1	0.0209 mg/L	0.0209 mg/L	22:32:08

Mean Data: 1307105-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2459812.8	0.911	mg/L	0.0073				0.80%
Ag 328.068†	-225.9	0.0006	mg/L	0.00040	0.0006	mg/L	0.00040	72.97%
Al 237.313†	1658.0	0.1968	mg/L	0.00166	0.1968	mg/L	0.00166	0.84%
As 188.979†	1.0	0.0051	mg/L	0.00411	0.0051	mg/L	0.00411	80.34%
B 249.677†	122.5	0.0695	mg/L	0.00268	0.0695	mg/L	0.00268	3.86%
B 182.528†	43.9	0.0471	mg/L	0.00056	0.0471	mg/L	0.00056	1.18%
Ba 233.527†	6746.9	0.0619	mg/L	0.00013	0.0619	mg/L	0.00013	0.21%
Be 313.107†	-150.0	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	3.90%
Ca 315.887†	10302330.2	112.3	mg/L	0.93	112.3	mg/L	0.93	0.83%
Cd 228.802†	-0.2	0.0010	mg/L	0.00001	0.0010	mg/L	0.00001	0.90%
Co 228.616†	243.6	0.0049	mg/L	0.00045	0.0049	mg/L	0.00045	9.34%
Cr 267.716†	103.4	0.0043	mg/L	0.00035	0.0043	mg/L	0.00035	8.07%
Cu 324.752†	-104.3	0.0038	mg/L	0.00017	0.0038	mg/L	0.00017	4.41%
Fe 234.349†	1766.4	1.004	mg/L	0.0190	1.004	mg/L	0.0190	1.90%
K 766.490†	33632.0	18.50	mg/L	0.224	18.50	mg/L	0.224	1.21%
Li 670.784†	-94.0	0.0019	mg/L	0.00190	0.0019	mg/L	0.00190	101.93%
Mg 279.077†	153867.0	12.43	mg/L	0.098	12.43	mg/L	0.098	0.79%
Mn 257.610†	1802606.3	2.321	mg/L	0.0024	2.321	mg/L	0.0024	0.10%
Mn 294.920†	876163.0	2.286	mg/L	0.0035	2.286	mg/L	0.0035	0.15%
Mo 202.031†	393.1	0.0190	mg/L	0.00016	0.0190	mg/L	0.00016	0.82%
Na 589.592†	65848.9	12.09	mg/L	0.096	12.09	mg/L	0.096	0.79%
Ni 231.604†	210.7	0.0063	mg/L	0.00009	0.0063	mg/L	0.00009	1.41%
P 214.914†	1110.8	0.7423	mg/L	0.01002	0.7423	mg/L	0.01002	1.35%
Pb 220.353†	-137.3	-0.0098	mg/L	0.00134	-0.0098	mg/L	0.00134	13.62%
Sb 206.836†	15.6	0.0113	mg/L	0.00217	0.0113	mg/L	0.00217	19.13%

Se 196.026†	-5.9	0.0008 mg/L	0.00501	0.0008 mg/L	0.00501	646.53%
Sn 189.927†	-733.4	-0.0405 mg/L	0.00326	-0.0405 mg/L	0.00326	8.04%
Sr 407.771†	336095.7	0.3922 mg/L	0.00345	0.3922 mg/L	0.00345	0.88%
Ti 337.279†	8675.8	0.0150 mg/L	0.00025	0.0150 mg/L	0.00025	1.66%
Tl 190.801†	26.1	0.0281 mg/L	0.00071	0.0281 mg/L	0.00071	2.52%
V 292.402†	65.8	0.0051 mg/L	0.00026	0.0051 mg/L	0.00026	5.14%
Zn 213.857†	2480.5	0.0208 mg/L	0.00015	0.0208 mg/L	0.00015	0.72%

Sequence No.: 130
Sample ID: CG30508-DUP2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 111
Date Collected: 7/5/2013 10:33:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	92.7	107.3	0.0610 mg/L	0.0610 mg/L	22:35:38
1	Fe 234.349†	1595.5	1729.3	0.9818 mg/L	0.9818 mg/L	22:35:38
1	K 766.490†	30520.1	32392.2	17.83 mg/L	17.83 mg/L	22:35:28
1	Li 670.784†	-176.4	43.7	0.0056 mg/L	0.0056 mg/L	22:35:28
1	Na 589.592†	58253.1	62907.7	11.56 mg/L	11.56 mg/L	22:35:28
1	Sr 407.771†	294192.6	320052.0	0.3735 mg/L	0.3735 mg/L	22:35:28
1	Y 371.029	2482251.0	2482251.0	0.919 mg/L		22:35:57
1	Ag 328.068†	1445.8	-291.9	0.0002 mg/L	0.0002 mg/L	22:35:59
1	Al 237.313†	1134.6	1665.0	0.1976 mg/L	0.1976 mg/L	22:35:59
1	As 188.979†	-13.3	-7.8	-0.0013 mg/L	-0.0013 mg/L	22:36:09
1	B 182.528†	24.9	36.6	0.0392 mg/L	0.0392 mg/L	22:36:09
1	Ba 233.527†	5988.9	6613.7	0.0608 mg/L	0.0608 mg/L	22:36:09
1	Be 313.107†	-1289.2	35.2	0.0004 mg/L	0.0004 mg/L	22:35:59
1	Ca 315.887†	9329770.8	10153968.3	110.7 mg/L	110.7 mg/L	22:35:54
1	Cd 228.802†	159.0	14.0	0.0014 mg/L	0.0014 mg/L	22:36:09
1	Co 228.616†	7.5	250.0	0.0050 mg/L	0.0050 mg/L	22:36:09
1	Cr 267.716†	640.1	130.3	0.0045 mg/L	0.0045 mg/L	22:35:59
1	Cu 324.752†	4282.3	-143.1	0.0036 mg/L	0.0036 mg/L	22:35:59
1	Mg 279.077†	138695.6	150916.8	12.19 mg/L	12.19 mg/L	22:35:59
1	Mn 257.610†	1656101.0	1785996.5	2.299 mg/L	2.299 mg/L	22:35:57
1	Mn 294.920†	796819.6	868383.3	2.266 mg/L	2.266 mg/L	22:35:57
1	Mo 202.031†	401.2	400.6	0.0193 mg/L	0.0193 mg/L	22:36:09
1	Ni 231.604†	322.4	192.8	0.0059 mg/L	0.0059 mg/L	22:36:09
1	P 214.914†	675.4	762.0	0.5240 mg/L	0.5240 mg/L	22:36:09
1	Pb 220.353†	59.8	-117.1	-0.0084 mg/L	-0.0084 mg/L	22:36:09
1	Sb 206.836†	54.2	11.2	0.0093 mg/L	0.0093 mg/L	22:36:09
1	Se 196.026†	1.9	-8.9	-0.0013 mg/L	-0.0013 mg/L	22:36:09
1	Sn 189.927†	-633.9	-719.1	-0.0394 mg/L	-0.0394 mg/L	22:36:09
1	Ti 337.279†	8487.5	9855.4	0.0164 mg/L	0.0164 mg/L	22:35:59
1	Tl 190.801†	14.1	20.1	0.0223 mg/L	0.0223 mg/L	22:36:09
1	V 292.402†	-189.5	142.0	0.0054 mg/L	0.0054 mg/L	22:35:59
1	Zn 213.857†	2656.1	1744.8	0.0154 mg/L	0.0154 mg/L	22:36:09
2	B 249.677†	113.9	131.0	0.0742 mg/L	0.0742 mg/L	22:35:50
2	Fe 234.349†	1589.9	1731.2	0.9836 mg/L	0.9836 mg/L	22:35:50
2	K 766.490†	30717.3	32760.1	18.03 mg/L	18.03 mg/L	22:35:40
2	Li 670.784†	-183.6	34.9	0.0054 mg/L	0.0054 mg/L	22:35:40
2	Na 589.592†	58488.1	63455.2	11.66 mg/L	11.66 mg/L	22:35:40
2	Sr 407.771†	296258.7	323778.3	0.3779 mg/L	0.3779 mg/L	22:35:40
2	Y 371.029	2470921.7	2470921.7	0.915 mg/L		22:36:15
2	Ag 328.068†	1508.6	-216.1	0.0006 mg/L	0.0006 mg/L	22:36:17
2	Al 237.313†	1356.3	1913.1	0.2251 mg/L	0.2251 mg/L	22:36:17
2	As 188.979†	-4.5	1.7	0.0056 mg/L	0.0056 mg/L	22:36:27
2	B 182.528†	21.4	33.0	0.0353 mg/L	0.0353 mg/L	22:36:27
2	Ba 233.527†	5932.6	6582.1	0.0605 mg/L	0.0605 mg/L	22:36:27
2	Be 313.107†	-1437.3	-133.1	0.0003 mg/L	0.0003 mg/L	22:36:17
2	Ca 315.887†	9261298.0	10125666.6	110.4 mg/L	110.4 mg/L	22:36:12
2	Cd 228.802†	154.4	9.7	0.0013 mg/L	0.0013 mg/L	22:36:27
2	Co 228.616†	-5.7	235.6	0.0047 mg/L	0.0047 mg/L	22:36:27
2	Cr 267.716†	602.9	92.8	0.0042 mg/L	0.0042 mg/L	22:36:17
2	Cu 324.752†	4292.8	-110.3	0.0038 mg/L	0.0038 mg/L	22:36:17
2	Mg 279.077†	141081.6	154216.9	12.46 mg/L	12.46 mg/L	22:36:17
2	Mn 257.610†	1645948.8	1783161.5	2.296 mg/L	2.296 mg/L	22:36:15
2	Mn 294.920†	791941.8	867026.6	2.263 mg/L	2.263 mg/L	22:36:15
2	Mo 202.031†	409.5	411.7	0.0198 mg/L	0.0198 mg/L	22:36:27

2	Ni 231.604†	338.2	211.7	0.0064 mg/L	0.0064 mg/L	22:36:27
2	P 214.914†	664.6	753.5	0.5186 mg/L	0.5186 mg/L	22:36:27
2	Pb 220.353†	27.2	-152.4	-0.0109 mg/L	-0.0109 mg/L	22:36:27
2	Sb 206.836†	60.4	18.2	0.0125 mg/L	0.0125 mg/L	22:36:27
2	Se 196.026†	5.5	-4.9	0.0015 mg/L	0.0015 mg/L	22:36:27
2	Sn 189.927†	-635.8	-724.3	-0.0404 mg/L	-0.0404 mg/L	22:36:27
2	Ti 337.279†	8639.9	10064.3	0.0166 mg/L	0.0166 mg/L	22:36:17
2	Tl 190.801†	17.9	24.4	0.0265 mg/L	0.0265 mg/L	22:36:27
2	V 292.402†	-239.6	86.3	0.0052 mg/L	0.0052 mg/L	22:36:17
2	Zn 213.857†	2668.5	1771.6	0.0156 mg/L	0.0156 mg/L	22:36:27

Mean Data: CG30508-DUP2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2476586.3	0.917 mg/L		0.0030			0.32%
Ag 328.068†	-254.0	0.0004 mg/L		0.00030	0.0004 mg/L	0.00030	75.03%
Al 237.313†	1789.0	0.2113 mg/L		0.01941	0.2113 mg/L	0.01941	9.19%
As 188.979†	-3.1	0.0021 mg/L		0.00489	0.0021 mg/L	0.00489	229.68%
B 249.677†	119.2	0.0676 mg/L		0.00932	0.0676 mg/L	0.00932	13.78%
B 182.528†	34.8	0.0373 mg/L		0.00276	0.0373 mg/L	0.00276	7.40%
Ba 233.527†	6597.9	0.0606 mg/L		0.00019	0.0606 mg/L	0.00019	0.32%
Be 313.107†	-49.0	0.0004 mg/L		0.00005	0.0004 mg/L	0.00005	14.69%
Ca 315.887†	10139817.5	110.5 mg/L		0.22	110.5 mg/L	0.22	0.20%
Cd 228.802†	11.9	0.0014 mg/L		0.00009	0.0014 mg/L	0.00009	6.85%
Co 228.616†	242.8	0.0048 mg/L		0.00020	0.0048 mg/L	0.00020	4.21%
Cr 267.716†	111.6	0.0044 mg/L		0.00023	0.0044 mg/L	0.00023	5.28%
Cu 324.752†	-126.7	0.0037 mg/L		0.00012	0.0037 mg/L	0.00012	3.34%
Fe 234.349†	1730.3	0.9827 mg/L		0.00122	0.9827 mg/L	0.00122	0.12%
K 766.490†	32576.2	17.93 mg/L		0.142	17.93 mg/L	0.142	0.79%
Li 670.784†	39.3	0.0055 mg/L		0.00017	0.0055 mg/L	0.00017	3.10%
Mg 279.077†	152566.8	12.32 mg/L		0.188	12.32 mg/L	0.188	1.53%
Mn 257.610†	1784579.0	2.297 mg/L		0.0026	2.297 mg/L	0.0026	0.11%
Mn 294.920†	867705.0	2.264 mg/L		0.0025	2.264 mg/L	0.0025	0.11%
Mo 202.031†	406.2	0.0196 mg/L		0.00033	0.0196 mg/L	0.00033	1.69%
Na 589.592†	63181.5	11.61 mg/L		0.070	11.61 mg/L	0.070	0.61%
Ni 231.604†	202.2	0.0062 mg/L		0.00030	0.0062 mg/L	0.00030	4.85%
P 214.914†	757.8	0.5213 mg/L		0.00377	0.5213 mg/L	0.00377	0.72%
Pb 220.353†	-134.7	-0.0096 mg/L		0.00176	-0.0096 mg/L	0.00176	18.30%
Sb 206.836†	14.7	0.0109 mg/L		0.00232	0.0109 mg/L	0.00232	21.27%
Se 196.026†	-6.9	0.0001 mg/L		0.00194	0.0001 mg/L	0.00194	>999.9%
Sn 189.927†	-721.7	-0.0399 mg/L		0.00068	-0.0399 mg/L	0.00068	1.70%
Sr 407.771†	321915.2	0.3757 mg/L		0.00307	0.3757 mg/L	0.00307	0.82%
Ti 337.279†	9959.9	0.0165 mg/L		0.00017	0.0165 mg/L	0.00017	1.04%
Tl 190.801†	22.3	0.0244 mg/L		0.00292	0.0244 mg/L	0.00292	11.97%
V 292.402†	114.2	0.0053 mg/L		0.00018	0.0053 mg/L	0.00018	3.32%
Zn 213.857†	1758.2	0.0155 mg/L		0.00014	0.0155 mg/L	0.00014	0.89%

Sequence No.: 131

Sample ID: CCV1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 7/5/2013 10:38:05 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	815.1	869.7	0.4859 mg/L	0.4859 mg/L	22:39:55
1	Fe 234.349†	3412.0	3606.2	2.401 mg/L	2.401 mg/L	22:39:55
1	K 766.490†	44200.5	45987.5	25.24 mg/L	25.24 mg/L	22:39:45
1	Li 670.784†	17168.9	18416.3	0.5106 mg/L	0.5106 mg/L	22:39:45
1	Na 589.592†	132540.2	139871.3	25.56 mg/L	25.56 mg/L	22:39:45
1	Sr 407.771†	39891.7	42172.0	0.0495 mg/L	0.0495 mg/L	22:39:45
1	Y 371.029	2550716.7	2550716.7	0.944 mg/L		22:40:11
1	Ag 328.068†	43580.1	44283.2	0.2473 mg/L	0.2473 mg/L	22:40:14
1	Al 237.313†	20029.3	21640.1	2.410 mg/L	2.410 mg/L	22:40:14
1	As 188.979†	604.9	647.2	0.4747 mg/L	0.4747 mg/L	22:40:24
1	B 182.528†	413.2	447.1	0.4798 mg/L	0.4798 mg/L	22:40:24
1	Ba 233.527†	51745.3	54891.8	0.4814 mg/L	0.4814 mg/L	22:40:14
1	Be 313.107†	102396.6	109869.1	0.0486 mg/L	0.0486 mg/L	22:40:14
1	Ca 315.887†	405389.8	431155.8	4.736 mg/L	4.736 mg/L	22:40:11

1	Cd 228.802†	7489.8	7772.2	0.2437 mg/L	0.2437 mg/L	22:40:24
1	Co 228.616†	22213.3	23764.1	0.4747 mg/L	0.4747 mg/L	22:40:14
1	Cr 267.716†	51977.7	54474.6	0.4786 mg/L	0.4786 mg/L	22:40:14
1	Cu 324.752†	88581.4	88998.7	0.4834 mg/L	0.4834 mg/L	22:40:14
1	Mg 279.077†	54967.2	58203.1	4.716 mg/L	4.716 mg/L	22:40:14
1	Mn 257.610†	370394.4	376150.0	0.4851 mg/L	0.4851 mg/L	22:40:14
1	Mn 294.920†	173069.8	184601.4	0.4829 mg/L	0.4829 mg/L	22:40:14
1	Mo 202.031†	10572.6	11159.8	0.4736 mg/L	0.4736 mg/L	22:40:24
1	Ni 231.604†	20192.3	21224.2	0.4755 mg/L	0.4755 mg/L	22:40:14
1	P 214.914†	6929.4	7364.9	4.651 mg/L	4.651 mg/L	22:40:24
1	Pb 220.353†	6526.2	6728.7	0.4752 mg/L	0.4752 mg/L	22:40:24
1	Sb 206.836†	1006.5	1018.0	0.4800 mg/L	0.4800 mg/L	22:40:24
1	Se 196.026†	1300.5	1366.2	0.9409 mg/L	0.9409 mg/L	22:40:24
1	Sn 189.927†	3076.6	3228.6	0.4794 mg/L	0.4794 mg/L	22:40:24
1	Ti 337.279†	388094.1	411585.0	0.4853 mg/L	0.4853 mg/L	22:40:14
1	Tl 190.801†	454.7	486.3	0.4704 mg/L	0.4704 mg/L	22:40:24
1	V 292.402†	99747.4	105974.0	0.4938 mg/L	0.4938 mg/L	22:40:14
1	Zn 213.857†	62049.1	64560.3	0.4737 mg/L	0.4737 mg/L	22:40:14
2	B 249.677†	804.9	874.6	0.4887 mg/L	0.4887 mg/L	22:40:08
2	Fe 234.349†	3425.9	3688.0	2.455 mg/L	2.455 mg/L	22:40:08
2	K 766.490†	43579.3	46182.4	25.34 mg/L	25.34 mg/L	22:39:57
2	Li 670.784†	16866.3	18425.9	0.5109 mg/L	0.5109 mg/L	22:39:57
2	Na 589.592†	131109.0	140921.0	25.75 mg/L	25.75 mg/L	22:39:57
2	Sr 407.771†	39359.1	42378.2	0.0498 mg/L	0.0498 mg/L	22:39:57
2	Y 371.029	2504443.3	2504443.3	0.927 mg/L		22:40:26
2	Ag 328.068†	44278.2	45888.8	0.2562 mg/L	0.2562 mg/L	22:40:29
2	Al 237.313†	20121.1	22130.9	2.464 mg/L	2.464 mg/L	22:40:29
2	As 188.979†	606.5	660.8	0.4846 mg/L	0.4846 mg/L	22:40:39
2	B 182.528†	411.0	452.8	0.4859 mg/L	0.4859 mg/L	22:40:39
2	Ba 233.527†	52433.6	56646.5	0.4967 mg/L	0.4967 mg/L	22:40:29
2	Be 313.107†	103546.8	113113.0	0.0501 mg/L	0.0501 mg/L	22:40:29
2	Ca 315.887†	395419.5	428334.5	4.706 mg/L	4.706 mg/L	22:40:26
2	Cd 228.802†	7518.0	7949.1	0.2492 mg/L	0.2492 mg/L	22:40:39
2	Co 228.616†	22546.0	24557.6	0.4905 mg/L	0.4905 mg/L	22:40:29
2	Cr 267.716†	52614.4	56178.2	0.4935 mg/L	0.4935 mg/L	22:40:29
2	Cu 324.752†	89549.3	91775.8	0.4984 mg/L	0.4984 mg/L	22:40:29
2	Mg 279.077†	55751.4	60124.3	4.871 mg/L	4.871 mg/L	22:40:29
2	Mn 257.610†	375003.4	388367.6	0.5008 mg/L	0.5008 mg/L	22:40:29
2	Mn 294.920†	175188.8	190272.9	0.4977 mg/L	0.4977 mg/L	22:40:29
2	Mo 202.031†	10646.9	11446.8	0.4857 mg/L	0.4857 mg/L	22:40:39
2	Ni 231.604†	20460.2	21908.3	0.4907 mg/L	0.4907 mg/L	22:40:29
2	P 214.914†	6995.8	7572.0	4.781 mg/L	4.781 mg/L	22:40:39
2	Pb 220.353†	6526.1	6856.3	0.4843 mg/L	0.4843 mg/L	22:40:39
2	Sb 206.836†	1014.4	1046.2	0.4932 mg/L	0.4932 mg/L	22:40:39
2	Se 196.026†	1324.5	1417.5	0.9761 mg/L	0.9761 mg/L	22:40:39
2	Sn 189.927†	3100.0	3314.0	0.4920 mg/L	0.4920 mg/L	22:40:39
2	Ti 337.279†	392963.0	424429.4	0.5003 mg/L	0.5003 mg/L	22:40:29
2	Tl 190.801†	452.9	493.2	0.4770 mg/L	0.4770 mg/L	22:40:39
2	V 292.402†	100916.1	109186.0	0.5086 mg/L	0.5086 mg/L	22:40:29
2	Zn 213.857†	63190.3	67005.1	0.4916 mg/L	0.4916 mg/L	22:40:29

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2527580.0	0.936 mg/L	0.0121			1.29%
Ag 328.068†	45086.0	0.2518 mg/L	0.00629	0.2518 mg/L	0.00629	2.50%
QC value within limits for Ag 328.068 Recovery = 100.71%						
Al 237.313†	21885.5	2.437 mg/L	0.0385	2.437 mg/L	0.0385	1.58%
QC value within limits for Al 237.313 Recovery = 97.49%						
As 188.979†	654.0	0.4797 mg/L	0.00697	0.4797 mg/L	0.00697	1.45%
QC value within limits for As 188.979 Recovery = 95.93%						
B 249.677†	872.1	0.4873 mg/L	0.00194	0.4873 mg/L	0.00194	0.40%
QC value within limits for B 249.677 Recovery = 97.46%						
B 182.528†	450.0	0.4829 mg/L	0.00433	0.4829 mg/L	0.00433	0.90%
QC value within limits for B 182.528 Recovery = 96.58%						
Ba 233.527†	55769.2	0.4890 mg/L	0.01081	0.4890 mg/L	0.01081	2.21%
QC value within limits for Ba 233.527 Recovery = 97.80%						
Be 313.107†	111491.0	0.0493 mg/L	0.00101	0.0493 mg/L	0.00101	2.04%
QC value within limits for Be 313.107 Recovery = 98.69%						
Ca 315.887†	429745.1	4.721 mg/L	0.0217	4.721 mg/L	0.0217	0.46%
QC value within limits for Ca 315.887 Recovery = 94.42%						
Cd 228.802†	7860.7	0.2464 mg/L	0.00391	0.2464 mg/L	0.00391	1.59%

Co	QC value within limits for Co	228.616	Recovery = 98.58%	0.4826 mg/L	0.01121	2.32%
		24160.9	0.4826 mg/L	0.01121		
Cr	QC value within limits for Cr	267.716	Recovery = 96.52%	0.4860 mg/L	0.01051	2.16%
		55326.4	0.4860 mg/L	0.01051		
Cu	QC value within limits for Cu	324.752	Recovery = 97.20%	0.4909 mg/L	0.01057	2.15%
		90387.3	0.4909 mg/L	0.01057		
Fe	QC value within limits for Fe	234.349	Recovery = 98.18%	2.428 mg/L	0.0384	1.58%
		3647.1	2.428 mg/L	0.0384		
K	QC value within limits for K	766.490	Recovery = 97.11%	25.29 mg/L	0.075	0.30%
		46084.9	25.29 mg/L	0.075		
Li	QC value within limits for Li	670.784	Recovery = 101.16%	0.5108 mg/L	0.00019	0.04%
		18421.1	0.5108 mg/L	0.00019		
Mg	QC value within limits for Mg	279.077	Recovery = 102.16%	4.794 mg/L	0.1095	2.28%
		59163.7	4.794 mg/L	0.1095		
Mn	QC value within limits for Mn	257.610	Recovery = 95.87%	0.4929 mg/L	0.01111	2.25%
		382258.8	0.4929 mg/L	0.01111		
Mn	QC value within limits for Mn	294.920	Recovery = 98.59%	0.4903 mg/L	0.01046	2.13%
		187437.2	0.4903 mg/L	0.01046		
Mo	QC value within limits for Mo	202.031	Recovery = 98.07%	0.4797 mg/L	0.00856	1.78%
		11303.3	0.4797 mg/L	0.00856		
Na	QC value within limits for Na	589.592	Recovery = 95.93%	25.66 mg/L	0.135	0.53%
		140396.2	25.66 mg/L	0.135		
Ni	QC value within limits for Ni	231.604	Recovery = 102.63%	0.4831 mg/L	0.01080	2.23%
		21566.2	0.4831 mg/L	0.01080		
P	QC value within limits for P	214.914	Recovery = 96.62%	4.716 mg/L	0.0916	1.94%
		7468.5	4.716 mg/L	0.0916		
Pb	QC value within limits for Pb	220.353	Recovery = 94.32%	0.4798 mg/L	0.00638	1.33%
		6792.5	0.4798 mg/L	0.00638		
Sb	QC value within limits for Sb	206.836	Recovery = 95.95%	0.4866 mg/L	0.00933	1.92%
		1032.1	0.4866 mg/L	0.00933		
Se	QC value within limits for Se	196.026	Recovery = 97.33%	0.9585 mg/L	0.02485	2.59%
		1391.9	0.9585 mg/L	0.02485		
Sn	QC value within limits for Sn	189.927	Recovery = 95.85%	0.4857 mg/L	0.00893	1.84%
		3271.3	0.4857 mg/L	0.00893		
Sr	QC value within limits for Sr	407.771	Recovery = 97.14%	0.0497 mg/L	0.00017	0.34%
		42275.1	0.0497 mg/L	0.00017		
Ti	QC value within limits for Ti	337.279	Recovery = 99.32%	0.4928 mg/L	0.01060	2.15%
		418007.2	0.4928 mg/L	0.01060		
Tl	QC value within limits for Tl	190.801	Recovery = 98.56%	0.4737 mg/L	0.00470	0.99%
		489.8	0.4737 mg/L	0.00470		
V	QC value within limits for V	292.402	Recovery = 94.74%	0.5012 mg/L	0.01046	2.09%
		107580.0	0.5012 mg/L	0.01046		
Zn	QC value within limits for Zn	213.857	Recovery = 100.24%	0.4826 mg/L	0.01263	2.62%
		65782.7	0.4826 mg/L	0.01263		
	QC value within limits for Zn	213.857	Recovery = 96.53%			

All analyte(s) passed QC.

Sequence No.: 132

Sample ID: CCB1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 7/5/2013 10:42:17 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-4.7	1.5	0.0021 mg/L	0.0021 mg/L	22:44:06
1	Fe 234.349†	27.0	21.6	0.0250 mg/L	0.0250 mg/L	22:44:06
1	K 766.490†	887.3	114.5	0.2367 mg/L	0.2367 mg/L	22:43:56
1	Li 670.784†	-239.4	-15.9	0.0040 mg/L	0.0040 mg/L	22:43:56
1	Na 589.592†	841.1	404.1	0.1867 mg/L	0.1867 mg/L	22:43:56
1	Sr 407.771†	-38.9	-111.5	0.0002 mg/L	0.0002 mg/L	22:43:56
1	Y 371.029	2570482.4	2570482.4	0.952 mg/L		22:44:22
1	Ag 328.068†	1527.4	-260.1	0.0003 mg/L	0.0003 mg/L	22:44:24
1	Al 237.313†	-385.6	25.2	0.0161 mg/L	0.0161 mg/L	22:44:24
1	As 188.979†	-6.8	-0.5	0.0040 mg/L	0.0040 mg/L	22:44:34
1	B 182.528†	-4.6	4.7	0.0049 mg/L	0.0049 mg/L	22:44:34
1	Ba 233.527†	-91.8	0.6	0.0031 mg/L	0.0031 mg/L	22:44:34
1	Be 313.107†	-1238.4	136.8	0.0004 mg/L	0.0004 mg/L	22:44:24
1	Ca 315.887†	-1911.0	-132.5	0.0345 mg/L	0.0345 mg/L	22:44:24
1	Cd 228.802†	160.7	9.8	0.0013 mg/L	0.0013 mg/L	22:44:34

1	Co	228.616†	-225.8	4.5	0.0001	mg/L	0.0001	mg/L	22:44:34
1	Cr	267.716†	503.2	-37.5	0.0031	mg/L	0.0031	mg/L	22:44:24
1	Cu	324.752†	3875.8	-730.2	0.0005	mg/L	0.0005	mg/L	22:44:24
1	Mg	279.077†	3.8	0.5	0.0252	mg/L	0.0252	mg/L	22:44:24
1	Mn	257.610†	14920.0	-394.8	0.0012	mg/L	0.0012	mg/L	22:44:24
1	Mn	294.920†	-1202.0	69.2	0.0017	mg/L	0.0017	mg/L	22:44:24
1	Mo	202.031†	42.3	8.5	0.0029	mg/L	0.0029	mg/L	22:44:34
1	Ni	231.604†	156.4	6.3	0.0018	mg/L	0.0018	mg/L	22:44:34
1	P	214.914†	-19.8	6.2	0.0509	mg/L	0.0509	mg/L	22:44:34
1	Pb	220.353†	201.3	29.4	0.0019	mg/L	0.0019	mg/L	22:44:34
1	Sb	206.836†	49.8	4.5	0.0063	mg/L	0.0063	mg/L	22:44:34
1	Se	196.026†	7.8	-2.7	0.0032	mg/L	0.0032	mg/L	22:44:34
1	Sn	189.927†	33.0	5.4	-0.0006	mg/L	-0.0006	mg/L	22:44:34
1	Ti	337.279†	-422.3	176.1	0.0051	mg/L	0.0051	mg/L	22:44:24
1	Tl	190.801†	-6.8	-2.4	-0.0012	mg/L	-0.0012	mg/L	22:44:34
1	V	292.402†	-333.1	-1.8	0.0046	mg/L	0.0046	mg/L	22:44:24
1	Zn	213.857†	1031.3	-61.8	0.0022	mg/L	0.0022	mg/L	22:44:34
2	B	249.677†	-2.5	3.9	0.0034	mg/L	0.0034	mg/L	22:44:18
2	Fe	234.349†	18.3	12.5	0.0189	mg/L	0.0189	mg/L	22:44:18
2	K	766.490†	857.7	85.0	0.2206	mg/L	0.2206	mg/L	22:44:08
2	Li	670.784†	-321.0	-102.3	0.0016	mg/L	0.0016	mg/L	22:44:08
2	Na	589.592†	867.9	433.9	0.1922	mg/L	0.1922	mg/L	22:44:08
2	Sr	407.771†	97.7	32.2	0.0004	mg/L	0.0004	mg/L	22:44:08
2	Y	371.029	2566022.1	2566022.1	0.950	mg/L			22:44:36
2	Ag	328.068†	1622.0	-157.8	0.0009	mg/L	0.0009	mg/L	22:44:39
2	Al	237.313†	-318.2	95.5	0.0239	mg/L	0.0239	mg/L	22:44:39
2	As	188.979†	-4.8	1.6	0.0055	mg/L	0.0055	mg/L	22:44:49
2	B	182.528†	-6.0	3.2	0.0034	mg/L	0.0034	mg/L	22:44:49
2	Ba	233.527†	-89.5	2.8	0.0032	mg/L	0.0032	mg/L	22:44:49
2	Be	313.107†	-1256.9	114.9	0.0004	mg/L	0.0004	mg/L	22:44:39
2	Ca	315.887†	-1986.4	-215.3	0.0336	mg/L	0.0336	mg/L	22:44:39
2	Cd	228.802†	153.3	2.3	0.0011	mg/L	0.0011	mg/L	22:44:49
2	Co	228.616†	-240.0	-10.8	-0.0002	mg/L	-0.0002	mg/L	22:44:49
2	Cr	267.716†	517.2	-21.8	0.0032	mg/L	0.0032	mg/L	22:44:39
2	Cu	324.752†	3933.1	-662.8	0.0008	mg/L	0.0008	mg/L	22:44:39
2	Mg	279.077†	45.3	44.2	0.0288	mg/L	0.0288	mg/L	22:44:39
2	Mn	257.610†	14954.6	-331.1	0.0013	mg/L	0.0013	mg/L	22:44:39
2	Mn	294.920†	-1180.3	89.9	0.0017	mg/L	0.0017	mg/L	22:44:39
2	Mo	202.031†	63.0	30.4	0.0038	mg/L	0.0038	mg/L	22:44:49
2	Ni	231.604†	155.6	5.8	0.0018	mg/L	0.0018	mg/L	22:44:49
2	P	214.914†	-23.6	2.3	0.0484	mg/L	0.0484	mg/L	22:44:49
2	Pb	220.353†	182.1	9.6	0.0005	mg/L	0.0005	mg/L	22:44:49
2	Sb	206.836†	53.3	8.3	0.0081	mg/L	0.0081	mg/L	22:44:49
2	Se	196.026†	19.8	9.9	0.0118	mg/L	0.0118	mg/L	22:44:49
2	Sn	189.927†	30.2	2.5	-0.0010	mg/L	-0.0010	mg/L	22:44:49
2	Ti	337.279†	-463.0	132.4	0.0051	mg/L	0.0051	mg/L	22:44:39
2	Tl	190.801†	-4.6	-0.1	0.0011	mg/L	0.0011	mg/L	22:44:49
2	V	292.402†	-296.3	36.3	0.0047	mg/L	0.0047	mg/L	22:44:39
2	Zn	213.857†	1062.5	-27.0	0.0025	mg/L	0.0025	mg/L	22:44:49

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2568252.3	0.951 mg/L	0.0012			0.12%
Ag 328.068†	-209.0	0.0006 mg/L	0.00040	0.0006 mg/L	0.00040	64.96%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	60.3	0.0200 mg/L	0.00550	0.0200 mg/L	0.00550	27.45%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	0.5	0.0048 mg/L	0.00104	0.0048 mg/L	0.00104	21.89%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	2.7	0.0028 mg/L	0.00091	0.0028 mg/L	0.00091	32.77%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	3.9	0.0041 mg/L	0.00109	0.0041 mg/L	0.00109	26.39%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	1.7	0.0031 mg/L	0.00001	0.0031 mg/L	0.00001	0.43%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	125.9	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	1.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	-173.9	0.0340 mg/L	0.00064	0.0340 mg/L	0.00064	1.88%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	6.1	0.0012 mg/L	0.00017	0.0012 mg/L	0.00017	13.82%
QC value within limits for Cd 228.802 Recovery = Not calculated						

Co	228.616†	-3.2	0.0001 mg/L	0.00022	-0.0001 mg/L	0.00022	391.87%
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr	267.716†	-29.6	0.0031 mg/L	0.00010	0.0031 mg/L	0.00010	3.09%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	-696.5	0.0007 mg/L	0.00026	0.0007 mg/L	0.00026	38.68%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe	234.349†	17.1	0.0220 mg/L	0.00428	0.0220 mg/L	0.00428	19.49%
	QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K	766.490†	99.7	0.2287 mg/L	0.01135	0.2287 mg/L	0.01135	4.96%
	QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li	670.784†	-59.1	0.0028 mg/L	0.00168	0.0028 mg/L	0.00168	59.48%
	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg	279.077†	22.4	0.0270 mg/L	0.00249	0.0270 mg/L	0.00249	9.22%
	QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						
Mn	257.610†	-362.9	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	4.83%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	79.5	0.0017 mg/L	0.00004	0.0017 mg/L	0.00004	2.21%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	19.4	0.0033 mg/L	0.00066	0.0033 mg/L	0.00066	19.62%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	419.0	0.1895 mg/L	0.00383	0.1895 mg/L	0.00383	2.02%
	QC value greater than the upper limit for Na 589.592 Recovery = Not calculated						
Ni	231.604†	6.0	0.0018 mg/L	0.00001	0.0018 mg/L	0.00001	0.44%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	4.3	0.0496 mg/L	0.00177	0.0496 mg/L	0.00177	3.56%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	19.5	0.0012 mg/L	0.00099	0.0012 mg/L	0.00099	80.31%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	6.4	0.0072 mg/L	0.00124	0.0072 mg/L	0.00124	17.24%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	3.6	0.0075 mg/L	0.00611	0.0075 mg/L	0.00611	81.58%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	3.9	-0.0008 mg/L	0.00030	-0.0008 mg/L	0.00030	37.30%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	-39.6	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	36.86%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	154.3	0.0051 mg/L	0.00004	0.0051 mg/L	0.00004	0.71%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	-1.2	-0.0001 mg/L	0.00159	-0.0001 mg/L	0.00159	>999.9%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	17.3	0.0047 mg/L	0.00013	0.0047 mg/L	0.00013	2.84%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	-44.4	0.0024 mg/L	0.00018	0.0024 mg/L	0.00018	7.70%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 133	Autosampler Location: 112
Sample ID: CG30508-MS2	Date Collected: 7/5/2013 10:46:26 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CG30508-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	899.0	999.5	0.5583 mg/L	0.5583 mg/L	0.5583 mg/L	22:48:11
1	Fe 234.349†	4817.6	5314.7	3.365 mg/L	3.365 mg/L	3.365 mg/L	22:48:11
1	K 766.490†	71161.1	77785.2	42.57 mg/L	42.57 mg/L	42.57 mg/L	22:48:08
1	Li 670.784†	16552.1	18518.7	0.5135 mg/L	0.5135 mg/L	0.5135 mg/L	22:48:11
1	Na 589.592†	180534.2	198934.7	36.31 mg/L	36.31 mg/L	36.31 mg/L	22:48:08
1	Sr 407.771†	318961.0	352247.3	0.4111 mg/L	0.4111 mg/L	0.4111 mg/L	22:48:08
1	Y 371.029	2445306.5	2445306.5	0.905 mg/L	0.905 mg/L	0.905 mg/L	22:48:23
1	Ag 328.068†	40379.9	42737.7	0.2388 mg/L	0.2388 mg/L	0.2388 mg/L	22:48:23
1	Al 237.313†	21336.1	23997.8	2.671 mg/L	2.671 mg/L	2.671 mg/L	22:48:23
1	As 188.979†	615.3	686.3	0.5032 mg/L	0.5032 mg/L	0.5032 mg/L	22:48:33
1	B 182.528†	452.8	509.7	0.5470 mg/L	0.5470 mg/L	0.5470 mg/L	22:48:33
1	Ba 233.527†	55034.0	60886.5	0.5336 mg/L	0.5336 mg/L	0.5336 mg/L	22:48:23
1	Be 313.107†	100627.8	112589.4	0.0498 mg/L	0.0498 mg/L	0.0498 mg/L	22:48:23
1	Ca 315.887†	9232206.2	10199581.5	111.2 mg/L	111.2 mg/L	111.2 mg/L	22:48:20
1	Cd 228.802†	7222.1	7818.3	0.2451 mg/L	0.2451 mg/L	0.2451 mg/L	22:48:33
1	Co 228.616†	21276.3	23743.1	0.4742 mg/L	0.4742 mg/L	0.4742 mg/L	22:48:33

1	Cr 267.716†	50505.0	55220.6	0.4851 mg/L	0.4851 mg/L	22:48:23
1	Cu 324.752†	85948.2	90133.7	0.4895 mg/L	0.4895 mg/L	22:48:23
1	Mg 279.077†	180611.9	199496.8	16.11 mg/L	16.11 mg/L	22:48:23
1	Mn 257.610†	1895828.9	2078021.3	2.674 mg/L	2.674 mg/L	22:48:23
1	Mn 294.920†	915007.8	1012031.2	2.641 mg/L	2.641 mg/L	22:48:23
1	Mo 202.031†	10951.3	12060.6	0.5117 mg/L	0.5117 mg/L	22:48:33
1	Ni 231.604†	19319.8	21182.2	0.4746 mg/L	0.4746 mg/L	22:48:33
1	P 214.914†	7862.5	8711.9	5.495 mg/L	5.495 mg/L	22:48:33
1	Pb 220.353†	6325.5	6804.9	0.4807 mg/L	0.4807 mg/L	22:48:33
1	Sb 206.836†	1046.8	1108.5	0.5223 mg/L	0.5223 mg/L	22:48:33
1	Se 196.026†	1291.2	1415.4	0.9744 mg/L	0.9744 mg/L	22:48:33
1	Sn 189.927†	2455.6	2683.1	0.4645 mg/L	0.4645 mg/L	22:48:33
1	Ti 337.279†	386565.3	427612.0	0.5040 mg/L	0.5040 mg/L	22:48:23
1	Tl 190.801†	464.4	517.8	0.5025 mg/L	0.5025 mg/L	22:48:33
1	V 292.402†	97589.5	108143.7	0.5042 mg/L	0.5042 mg/L	22:48:23
1	Zn 213.857†	60672.0	65871.6	0.4833 mg/L	0.4833 mg/L	22:48:23
2	B 249.677†	919.4	1010.7	0.5645 mg/L	0.5645 mg/L	22:48:15
2	Fe 234.349†	4854.7	5296.1	3.355 mg/L	3.355 mg/L	22:48:15
2	K 766.490†	72045.8	77878.8	42.62 mg/L	42.62 mg/L	22:48:13
2	Li 670.784†	16813.8	18601.6	0.5157 mg/L	0.5157 mg/L	22:48:15
2	Na 589.592†	182447.1	198809.7	36.29 mg/L	36.29 mg/L	22:48:13
2	Sr 407.771†	322486.0	352185.3	0.4110 mg/L	0.4110 mg/L	22:48:13
2	Y 371.029	2472765.2	2472765.2	0.915 mg/L		22:48:40
2	Ag 328.068†	40687.2	42578.1	0.2379 mg/L	0.2379 mg/L	22:48:40
2	Al 237.313†	21606.0	24030.9	2.675 mg/L	2.675 mg/L	22:48:40
2	As 188.979†	609.0	671.9	0.4927 mg/L	0.4927 mg/L	22:48:50
2	B 182.528†	459.8	511.8	0.5492 mg/L	0.5492 mg/L	22:48:50
2	Ba 233.527†	55592.0	60820.9	0.5330 mg/L	0.5330 mg/L	22:48:40
2	Be 313.107†	101920.5	112767.2	0.0499 mg/L	0.0499 mg/L	22:48:40
2	Ca 315.887†	9202347.7	10053727.0	109.6 mg/L	109.6 mg/L	22:48:36
2	Cd 228.802†	7205.6	7711.8	0.2418 mg/L	0.2418 mg/L	22:48:50
2	Co 228.616†	21122.6	23314.3	0.4657 mg/L	0.4657 mg/L	22:48:50
2	Cr 267.716†	50991.3	55132.3	0.4843 mg/L	0.4843 mg/L	22:48:40
2	Cu 324.752†	86734.7	89938.7	0.4885 mg/L	0.4885 mg/L	22:48:40
2	Mg 279.077†	182248.9	199069.5	16.07 mg/L	16.07 mg/L	22:48:40
2	Mn 257.610†	1916531.8	2077381.6	2.674 mg/L	2.674 mg/L	22:48:40
2	Mn 294.920†	925306.6	1012057.5	2.641 mg/L	2.641 mg/L	22:48:40
2	Mo 202.031†	10828.2	11791.9	0.5003 mg/L	0.5003 mg/L	22:48:50
2	Ni 231.604†	19182.3	20795.0	0.4659 mg/L	0.4659 mg/L	22:48:50
2	P 214.914†	7801.0	8548.3	5.392 mg/L	5.392 mg/L	22:48:50
2	Pb 220.353†	6272.5	6669.4	0.4711 mg/L	0.4711 mg/L	22:48:50
2	Sb 206.836†	1029.0	1076.1	0.5071 mg/L	0.5071 mg/L	22:48:50
2	Se 196.026†	1294.4	1403.0	0.9659 mg/L	0.9659 mg/L	22:48:50
2	Sn 189.927†	2446.3	2642.8	0.4575 mg/L	0.4575 mg/L	22:48:50
2	Ti 337.279†	390943.2	427652.4	0.5041 mg/L	0.5041 mg/L	22:48:40
2	Tl 190.801†	459.7	507.0	0.4919 mg/L	0.4919 mg/L	22:48:50
2	V 292.402†	98488.6	107928.7	0.5031 mg/L	0.5031 mg/L	22:48:40
2	Zn 213.857†	61298.7	65812.0	0.4829 mg/L	0.4829 mg/L	22:48:40

Mean Data: CG30508-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2459035.8	0.910	mg/L	0.0072			0.79%
Ag 328.068†	42657.9	0.2384	mg/L	0.00063	0.2384 mg/L	0.00063	0.26%
Al 237.313†	24014.4	2.673	mg/L	0.0026	2.673 mg/L	0.0026	0.10%
As 188.979†	679.1	0.4979	mg/L	0.00741	0.4979 mg/L	0.00741	1.49%
B 249.677†	1005.1	0.5614	mg/L	0.00441	0.5614 mg/L	0.00441	0.78%
B 182.528†	510.8	0.5481	mg/L	0.00156	0.5481 mg/L	0.00156	0.28%
Ba 233.527†	60853.7	0.5333	mg/L	0.00040	0.5333 mg/L	0.00040	0.08%
Be 313.107†	112678.3	0.0499	mg/L	0.00006	0.0499 mg/L	0.00006	0.11%
Ca 315.887†	10126654.3	110.4	mg/L	1.12	110.4 mg/L	1.12	1.02%
Cd 228.802†	7765.1	0.2434	mg/L	0.00235	0.2434 mg/L	0.00235	0.97%
Co 228.616†	23528.7	0.4700	mg/L	0.00607	0.4700 mg/L	0.00607	1.29%
Cr 267.716†	55176.4	0.4847	mg/L	0.00055	0.4847 mg/L	0.00055	0.11%
Cu 324.752†	90036.2	0.4890	mg/L	0.00074	0.4890 mg/L	0.00074	0.15%
Fe 234.349†	5305.4	3.360	mg/L	0.0068	3.360 mg/L	0.0068	0.20%
K 766.490†	77832.0	42.59	mg/L	0.036	42.59 mg/L	0.036	0.08%
Li 670.784†	18560.1	0.5146	mg/L	0.00161	0.5146 mg/L	0.00161	0.31%
Mg 279.077†	199283.1	16.09	mg/L	0.024	16.09 mg/L	0.024	0.15%
Mn 257.610†	2077701.4	2.674	mg/L	0.0006	2.674 mg/L	0.0006	0.02%
Mn 294.920†	1012044.4	2.641	mg/L	0.0000	2.641 mg/L	0.0000	0.00%
Mo 202.031†	11926.2	0.5060	mg/L	0.00807	0.5060 mg/L	0.00807	1.59%

Na 589.592†	198872.2	36.30 mg/L	0.016	36.30 mg/L	0.016	0.04%
Ni 231.604†	20988.6	0.4703 mg/L	0.00612	0.4703 mg/L	0.00612	1.30%
P 214.914†	8630.1	5.443 mg/L	0.0724	5.443 mg/L	0.0724	1.33%
Pb 220.353†	6737.2	0.4759 mg/L	0.00678	0.4759 mg/L	0.00678	1.43%
Sb 206.836†	1092.3	0.5147 mg/L	0.01077	0.5147 mg/L	0.01077	2.09%
Se 196.026†	1409.2	0.9702 mg/L	0.00598	0.9702 mg/L	0.00598	0.62%
Sn 189.927†	2663.0	0.4610 mg/L	0.00492	0.4610 mg/L	0.00492	1.07%
Sr 407.771†	352216.3	0.4110 mg/L	0.00005	0.4110 mg/L	0.00005	0.01%
Ti 337.279†	427632.2	0.5040 mg/L	0.00003	0.5040 mg/L	0.00003	0.01%
Tl 190.801†	512.4	0.4972 mg/L	0.00745	0.4972 mg/L	0.00745	1.50%
V 292.402†	108036.2	0.5036 mg/L	0.00081	0.5036 mg/L	0.00081	0.16%
Zn 213.857†	65841.8	0.4831 mg/L	0.00027	0.4831 mg/L	0.00027	0.06%

Sequence No.: 134
Sample ID: CG30508-SD2 @5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 113
Date Collected: 7/5/2013 10:50:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	29.6	37.1	0.0219	mg/L	0.0219	mg/L	22:52:21
1	Fe 234.349†	489.5	499.2	0.2939	mg/L	0.2939	mg/L	22:52:21
1	K 766.490†	9546.9	9051.8	5.107	mg/L	5.107	mg/L	22:52:11
1	Li 670.784†	-357.2	-133.6	0.0008	mg/L	0.0008	mg/L	22:52:11
1	Na 589.592†	17898.1	18023.4	3.393	mg/L	3.393	mg/L	22:52:11
1	Sr 407.771†	88093.1	91000.4	0.1065	mg/L	0.1065	mg/L	22:52:11
1	Y 371.029	2612715.0	2612715.0	0.967	mg/L			22:52:38
1	Ag 328.068†	1560.5	-251.9	0.0004	mg/L	0.0004	mg/L	22:52:40
1	Al 237.313†	44.5	476.4	0.0661	mg/L	0.0661	mg/L	22:52:50
1	As 188.979†	-4.9	1.5	0.0055	mg/L	0.0055	mg/L	22:52:50
1	B 182.528†	3.5	13.1	0.0140	mg/L	0.0140	mg/L	22:52:50
1	Ba 233.527†	1614.0	1765.6	0.0185	mg/L	0.0185	mg/L	22:52:50
1	Be 313.107†	-1324.4	68.8	0.0004	mg/L	0.0004	mg/L	22:52:40
1	Ca 315.887†	2675410.2	2767725.6	30.20	mg/L	30.20	mg/L	22:52:38
1	Cd 228.802†	152.3	-1.5	0.0010	mg/L	0.0010	mg/L	22:52:50
1	Co 228.616†	-147.0	89.8	0.0018	mg/L	0.0018	mg/L	22:52:50
1	Cr 267.716†	573.0	26.1	0.0036	mg/L	0.0036	mg/L	22:52:50
1	Cu 324.752†	4077.5	-587.5	0.0012	mg/L	0.0012	mg/L	22:52:40
1	Mg 279.077†	39676.5	41014.2	3.331	mg/L	3.331	mg/L	22:52:40
1	Mn 257.610†	492661.7	493243.2	0.6362	mg/L	0.6362	mg/L	22:52:40
1	Mn 294.920†	230033.2	239141.6	0.6252	mg/L	0.6252	mg/L	22:52:40
1	Mo 202.031†	213.9	185.2	0.0103	mg/L	0.0103	mg/L	22:52:50
1	Ni 231.604†	206.2	55.1	0.0029	mg/L	0.0029	mg/L	22:52:50
1	P 214.914†	244.2	279.5	0.2219	mg/L	0.2219	mg/L	22:52:50
1	Pb 220.353†	95.9	-83.0	-0.0060	mg/L	-0.0060	mg/L	22:52:50
1	Sb 206.836†	55.7	9.7	0.0087	mg/L	0.0087	mg/L	22:52:50
1	Se 196.026†	8.5	-2.2	0.0035	mg/L	0.0035	mg/L	22:52:50
1	Sn 189.927†	-317.7	-357.7	-0.0357	mg/L	-0.0357	mg/L	22:52:50
1	Ti 337.279†	1794.4	2474.9	0.0078	mg/L	0.0078	mg/L	22:52:40
1	Tl 190.801†	0.8	5.7	0.0071	mg/L	0.0071	mg/L	22:52:50
1	V 292.402†	-304.7	33.3	0.0048	mg/L	0.0048	mg/L	22:52:40
1	Zn 213.857†	1482.6	387.3	0.0055	mg/L	0.0055	mg/L	22:52:50
2	B 249.677†	22.7	29.9	0.0179	mg/L	0.0179	mg/L	22:52:34
2	Fe 234.349†	476.7	484.9	0.2867	mg/L	0.2867	mg/L	22:52:34
2	K 766.490†	9257.3	8729.6	4.932	mg/L	4.932	mg/L	22:52:24
2	Li 670.784†	-343.9	-119.1	0.0012	mg/L	0.0012	mg/L	22:52:24
2	Na 589.592†	17579.8	17651.0	3.325	mg/L	3.325	mg/L	22:52:24
2	Sr 407.771†	85655.7	88269.4	0.1033	mg/L	0.1033	mg/L	22:52:24
2	Y 371.029	2618964.4	2618964.4	0.970	mg/L			22:52:52
2	Ag 328.068†	1571.7	-244.2	0.0004	mg/L	0.0004	mg/L	22:52:55
2	Al 237.313†	26.3	457.5	0.0640	mg/L	0.0640	mg/L	22:53:05
2	As 188.979†	-9.2	-2.8	0.0023	mg/L	0.0023	mg/L	22:53:05
2	B 182.528†	-2.3	7.2	0.0076	mg/L	0.0076	mg/L	22:53:05
2	Ba 233.527†	1545.3	1690.7	0.0179	mg/L	0.0179	mg/L	22:53:05
2	Be 313.107†	-1312.8	84.1	0.0004	mg/L	0.0004	mg/L	22:52:55
2	Ca 315.887†	2553964.9	2635874.7	28.76	mg/L	28.76	mg/L	22:52:52
2	Cd 228.802†	159.0	4.9	0.0012	mg/L	0.0012	mg/L	22:53:05
2	Co 228.616†	-174.9	61.4	0.0012	mg/L	0.0012	mg/L	22:53:05
2	Cr 267.716†	566.4	17.9	0.0036	mg/L	0.0036	mg/L	22:53:05

2	Cu	324.752†	4073.4	-601.9	0.0012 mg/L	0.0012 mg/L	22:52:55
2	Mg	279.077†	37993.2	39180.3	3.183 mg/L	3.183 mg/L	22:52:55
2	Mn	257.610†	471634.6	470341.8	0.6067 mg/L	0.6067 mg/L	22:52:55
2	Mn	294.920†	220225.0	228458.6	0.5973 mg/L	0.5973 mg/L	22:52:55
2	Mo	202.031†	199.7	170.0	0.0097 mg/L	0.0097 mg/L	22:53:05
2	Ni	231.604†	215.2	63.9	0.0031 mg/L	0.0031 mg/L	22:53:05
2	P	214.914†	238.1	272.7	0.2176 mg/L	0.2176 mg/L	22:53:05
2	Pb	220.353†	93.3	-85.9	-0.0062 mg/L	-0.0062 mg/L	22:53:05
2	Sb	206.836†	60.2	14.3	0.0109 mg/L	0.0109 mg/L	22:53:05
2	Se	196.026†	9.2	-1.4	0.0040 mg/L	0.0040 mg/L	22:53:05
2	Sn	189.927†	-307.4	-346.3	-0.0349 mg/L	-0.0349 mg/L	22:53:05
2	Ti	337.279†	1548.1	2216.4	0.0075 mg/L	0.0075 mg/L	22:52:55
2	Tl	190.801†	3.9	8.8	0.0101 mg/L	0.0101 mg/L	22:53:05
2	V	292.402†	-262.9	77.2	0.0050 mg/L	0.0050 mg/L	22:52:55
2	Zn	213.857†	1460.9	361.2	0.0053 mg/L	0.0053 mg/L	22:53:05

Mean Data: CG30508-SD2 @5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2615839.7	0.968 mg/L		0.0016			0.17%
Ag 328.068†	-248.0	0.0004 mg/L		0.00003	0.0004 mg/L	0.00003	7.37%
Al 237.313†	467.0	0.0650 mg/L		0.00148	0.0650 mg/L	0.00148	2.28%
As 188.979†	-0.6	0.0039 mg/L		0.00224	0.0039 mg/L	0.00224	57.21%
B 249.677†	33.5	0.0199 mg/L		0.00285	0.0199 mg/L	0.00285	14.31%
B 182.528†	10.1	0.0108 mg/L		0.00454	0.0108 mg/L	0.00454	42.13%
Ba 233.527†	1728.2	0.0182 mg/L		0.00046	0.0182 mg/L	0.00046	2.54%
Be 313.107†	76.5	0.0004 mg/L		0.00000	0.0004 mg/L	0.00000	1.16%
Ca 315.887†	2701800.1	29.48 mg/L		1.016	29.48 mg/L	1.016	3.45%
Cd 228.802†	1.7	0.0011 mg/L		0.00014	0.0011 mg/L	0.00014	13.58%
Co 228.616†	75.6	0.0015 mg/L		0.00040	0.0015 mg/L	0.00040	26.44%
Cr 267.716†	22.0	0.0036 mg/L		0.00005	0.0036 mg/L	0.00005	1.42%
Cu 324.752†	-594.7	0.0012 mg/L		0.00005	0.0012 mg/L	0.00005	4.51%
Fe 234.349†	492.1	0.2903 mg/L		0.00509	0.2903 mg/L	0.00509	1.75%
K 766.490†	8890.7	5.020 mg/L		0.1242	5.020 mg/L	0.1242	2.47%
Li 670.784†	-126.4	0.0010 mg/L		0.00028	0.0010 mg/L	0.00028	29.02%
Mg 279.077†	40097.3	3.257 mg/L		0.1045	3.257 mg/L	0.1045	3.21%
Mn 257.610†	481792.5	0.6215 mg/L		0.02083	0.6215 mg/L	0.02083	3.35%
Mn 294.920†	233800.1	0.6112 mg/L		0.01970	0.6112 mg/L	0.01970	3.22%
Mo 202.031†	177.6	0.0100 mg/L		0.00046	0.0100 mg/L	0.00046	4.56%
Na 589.592†	17837.2	3.359 mg/L		0.0479	3.359 mg/L	0.0479	1.43%
Ni 231.604†	59.5	0.0030 mg/L		0.00014	0.0030 mg/L	0.00014	4.66%
P 214.914†	276.1	0.2198 mg/L		0.00303	0.2198 mg/L	0.00303	1.38%
Pb 220.353†	-84.5	-0.0061 mg/L		0.00015	-0.0061 mg/L	0.00015	2.42%
Sb 206.836†	12.0	0.0098 mg/L		0.00151	0.0098 mg/L	0.00151	15.39%
Se 196.026†	-1.8	0.0037 mg/L		0.00037	0.0037 mg/L	0.00037	9.86%
Sn 189.927†	-352.0	-0.0353 mg/L		0.00056	-0.0353 mg/L	0.00056	1.60%
Sr 407.771†	89634.9	0.1049 mg/L		0.00225	0.1049 mg/L	0.00225	2.15%
Ti 337.279†	2345.7	0.0076 mg/L		0.00021	0.0076 mg/L	0.00021	2.79%
Tl 190.801†	7.2	0.0086 mg/L		0.00216	0.0086 mg/L	0.00216	25.04%
V 292.402†	55.2	0.0049 mg/L		0.00013	0.0049 mg/L	0.00013	2.74%
Zn 213.857†	374.3	0.0054 mg/L		0.00014	0.0054 mg/L	0.00014	2.52%

Sequence No.: 135

Sample ID: CG30508-PDS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 114

Date Collected: 7/5/2013 10:54:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CG30508-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	931.2	1003.9	0.5607 mg/L	0.5607 mg/L	22:56:25
1	Fe 234.349†	4939.8	5284.6	3.340 mg/L	3.340 mg/L	22:56:25
1	K 766.490†	73438.8	77847.8	42.60 mg/L	42.60 mg/L	22:56:23
1	Li 670.784†	16698.1	18122.1	0.5026 mg/L	0.5026 mg/L	22:56:25
1	Na 589.592†	184278.1	196913.8	35.94 mg/L	35.94 mg/L	22:56:23
1	Sr 407.771†	341202.0	365415.4	0.4264 mg/L	0.4264 mg/L	22:56:23
1	Y 371.029	2521570.5	2521570.5	0.934 mg/L		22:56:38
1	Ag 328.068†	40488.8	41505.3	0.2320 mg/L	0.2320 mg/L	22:56:38
1	Al 237.313†	21240.9	23183.0	2.581 mg/L	2.581 mg/L	22:56:38

1	As	188.979†	605.3	655.1	0.4805	mg/L	0.4805	mg/L	22:56:48
1	B	182.528†	467.6	510.4	0.5478	mg/L	0.5478	mg/L	22:56:48
1	Ba	233.527†	55986.1	60067.8	0.5265	mg/L	0.5265	mg/L	22:56:38
1	Be	313.107†	101190.8	109830.7	0.0486	mg/L	0.0486	mg/L	22:56:38
1	Ca	315.887†	9786008.8	10484373.6	114.3	mg/L	114.3	mg/L	22:56:34
1	Cd	228.802†	7188.4	7540.9	0.2364	mg/L	0.2364	mg/L	22:56:48
1	Co	228.616†	21114.8	22859.3	0.4566	mg/L	0.4566	mg/L	22:56:48
1	Cr	267.716†	50793.6	53842.4	0.4731	mg/L	0.4731	mg/L	22:56:38
1	Cu	324.752†	86602.4	87963.2	0.4779	mg/L	0.4779	mg/L	22:56:38
1	Mg	279.077†	192329.9	206015.0	16.63	mg/L	16.63	mg/L	22:56:38
1	Mn	257.610†	2025775.9	2153881.7	2.772	mg/L	2.772	mg/L	22:56:38
1	Mn	294.920†	979078.8	1050094.0	2.740	mg/L	2.740	mg/L	22:56:38
1	Mo	202.031†	10824.2	11558.7	0.4904	mg/L	0.4904	mg/L	22:56:48
1	Ni	231.604†	19215.5	20425.0	0.4577	mg/L	0.4577	mg/L	22:56:48
1	P	214.914†	8143.3	8749.9	5.519	mg/L	5.519	mg/L	22:56:48
1	Pb	220.353†	6280.2	6545.0	0.4623	mg/L	0.4623	mg/L	22:56:48
1	Sb	206.836†	1048.7	1075.5	0.5068	mg/L	0.5068	mg/L	22:56:48
1	Se	196.026†	1279.8	1360.0	0.9364	mg/L	0.9364	mg/L	22:56:48
1	Sn	189.927†	2444.2	2588.9	0.4525	mg/L	0.4525	mg/L	22:56:48
1	Ti	337.279†	376029.3	403411.8	0.4758	mg/L	0.4758	mg/L	22:56:38
1	Tl	190.801†	452.3	489.3	0.4749	mg/L	0.4749	mg/L	22:56:48
1	V	292.402†	98078.8	105407.6	0.4915	mg/L	0.4915	mg/L	22:56:38
1	Zn	213.857†	61904.5	65164.9	0.4782	mg/L	0.4782	mg/L	22:56:38
2	B	249.677†	934.4	1018.0	0.5685	mg/L	0.5685	mg/L	22:56:29
2	Fe	234.349†	4888.2	5285.0	3.335	mg/L	3.335	mg/L	22:56:29
2	K	766.490†	73179.1	78402.2	42.90	mg/L	42.90	mg/L	22:56:27
2	Li	670.784†	16561.4	18164.1	0.5037	mg/L	0.5037	mg/L	22:56:29
2	Na	589.592†	183989.2	198698.0	36.27	mg/L	36.27	mg/L	22:56:27
2	Sr	407.771†	339336.1	367278.1	0.4286	mg/L	0.4286	mg/L	22:56:27
2	Y	371.029	2495064.8	2495064.8	0.924	mg/L			22:56:54
2	Ag	328.068†	40083.5	41527.3	0.2321	mg/L	0.2321	mg/L	22:56:54
2	Al	237.313†	20989.2	23152.4	2.577	mg/L	2.577	mg/L	22:56:54
2	As	188.979†	611.1	668.2	0.4900	mg/L	0.4900	mg/L	22:57:04
2	B	182.528†	465.4	513.4	0.5509	mg/L	0.5509	mg/L	22:57:04
2	Ba	233.527†	55127.4	59775.2	0.5239	mg/L	0.5239	mg/L	22:56:54
2	Be	313.107†	99972.1	109662.9	0.0485	mg/L	0.0485	mg/L	22:56:54
2	Ca	315.887†	9955935.6	10779686.3	117.5	mg/L	117.5	mg/L	22:56:51
2	Cd	228.802†	7212.2	7648.5	0.2398	mg/L	0.2398	mg/L	22:57:04
2	Co	228.616†	21256.4	23252.9	0.4645	mg/L	0.4645	mg/L	22:57:04
2	Cr	267.716†	49958.3	53516.2	0.4703	mg/L	0.4703	mg/L	22:56:54
2	Cu	324.752†	85684.9	87955.5	0.4778	mg/L	0.4778	mg/L	22:56:54
2	Mg	279.077†	189391.8	205022.9	16.55	mg/L	16.55	mg/L	22:56:54
2	Mn	257.610†	2001003.4	2150116.2	2.767	mg/L	2.767	mg/L	22:56:54
2	Mn	294.920†	966277.5	1047377.2	2.733	mg/L	2.733	mg/L	22:56:54
2	Mo	202.031†	10898.3	11762.0	0.4991	mg/L	0.4991	mg/L	22:57:04
2	Ni	231.604†	19275.0	20708.2	0.4640	mg/L	0.4640	mg/L	22:57:04
2	P	214.914†	8193.6	8897.1	5.611	mg/L	5.611	mg/L	22:57:04
2	Pb	220.353†	6272.3	6608.0	0.4668	mg/L	0.4668	mg/L	22:57:04
2	Sb	206.836†	1035.4	1073.0	0.5058	mg/L	0.5058	mg/L	22:57:04
2	Se	196.026†	1290.1	1385.7	0.9541	mg/L	0.9541	mg/L	22:57:04
2	Sn	189.927†	2450.9	2623.9	0.4596	mg/L	0.4596	mg/L	22:57:04
2	Ti	337.279†	371201.8	402464.8	0.4747	mg/L	0.4747	mg/L	22:56:54
2	Tl	190.801†	464.0	507.0	0.4922	mg/L	0.4922	mg/L	22:57:04
2	V	292.402†	96662.4	104990.2	0.4897	mg/L	0.4897	mg/L	22:56:54
2	Zn	213.857†	61303.9	65219.2	0.4786	mg/L	0.4786	mg/L	22:56:54

Mean Data: CG30508-PDS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2508317.6	0.929	mg/L	0.0069				0.75%
Ag 328.068†	41516.3	0.2320	mg/L	0.00009	0.2320	mg/L	0.00009	0.04%
Al 237.313†	23167.7	2.579	mg/L	0.0024	2.579	mg/L	0.0024	0.09%
As 188.979†	661.6	0.4852	mg/L	0.00677	0.4852	mg/L	0.00677	1.39%
B 249.677†	1011.0	0.5646	mg/L	0.00554	0.5646	mg/L	0.00554	0.98%
B 182.528†	511.9	0.5494	mg/L	0.00224	0.5494	mg/L	0.00224	0.41%
Ba 233.527†	59921.5	0.5252	mg/L	0.00180	0.5252	mg/L	0.00180	0.34%
Be 313.107†	109746.8	0.0486	mg/L	0.00005	0.0486	mg/L	0.00005	0.11%
Ca 315.887†	10632029.9	115.9	mg/L	2.28	115.9	mg/L	2.28	1.96%
Cd 228.802†	7594.7	0.2381	mg/L	0.00238	0.2381	mg/L	0.00238	1.00%
Co 228.616†	23056.1	0.4606	mg/L	0.00557	0.4606	mg/L	0.00557	1.21%
Cr 267.716†	53679.3	0.4717	mg/L	0.00201	0.4717	mg/L	0.00201	0.43%
Cu 324.752†	87959.3	0.4778	mg/L	0.00003	0.4778	mg/L	0.00003	0.01%

Fe 234.349†	5284.8	3.337 mg/L	0.0036	3.337 mg/L	0.0036	0.11%
K 766.490†	78125.0	42.75 mg/L	0.214	42.75 mg/L	0.214	0.50%
Li 670.784†	18143.1	0.5031 mg/L	0.00082	0.5031 mg/L	0.00082	0.16%
Mg 279.077†	205518.9	16.59 mg/L	0.057	16.59 mg/L	0.057	0.34%
Mn 257.610†	2151999.0	2.770 mg/L	0.0034	2.770 mg/L	0.0034	0.12%
Mn 294.920†	1048735.6	2.736 mg/L	0.0050	2.736 mg/L	0.0050	0.18%
Mo 202.031†	11660.3	0.4948 mg/L	0.00611	0.4948 mg/L	0.00611	1.23%
Na 589.592†	197805.9	36.10 mg/L	0.230	36.10 mg/L	0.230	0.64%
Ni 231.604†	20566.6	0.4608 mg/L	0.00447	0.4608 mg/L	0.00447	0.97%
P 214.914†	8823.5	5.565 mg/L	0.0651	5.565 mg/L	0.0651	1.17%
Pb 220.353†	6576.5	0.4645 mg/L	0.00316	0.4645 mg/L	0.00316	0.68%
Sb 206.836†	1074.3	0.5063 mg/L	0.00074	0.5063 mg/L	0.00074	0.15%
Se 196.026†	1372.8	0.9453 mg/L	0.01246	0.9453 mg/L	0.01246	1.32%
Sn 189.927†	2606.4	0.4561 mg/L	0.00507	0.4561 mg/L	0.00507	1.11%
Sr 407.771†	366346.8	0.4275 mg/L	0.00154	0.4275 mg/L	0.00154	0.36%
Ti 337.279†	402938.3	0.4752 mg/L	0.00078	0.4752 mg/L	0.00078	0.16%
Tl 190.801†	498.2	0.4836 mg/L	0.01225	0.4836 mg/L	0.01225	2.53%
V 292.402†	105198.9	0.4906 mg/L	0.00126	0.4906 mg/L	0.00126	0.26%
Zn 213.857†	65192.1	0.4784 mg/L	0.00025	0.4784 mg/L	0.00025	0.05%

Sequence No.: 136
Sample ID: 1307105-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 115
Date Collected: 7/5/2013 10:58:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307105-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	31.5	40.7	0.0240	mg/L	0.0240	mg/L	23:00:36
1	Fe 234.349†	706.2	761.2	0.4276	mg/L	0.4276	mg/L	23:00:36
1	K 766.490†	14744.2	15215.0	8.466	mg/L	8.466	mg/L	23:00:26
1	Li 670.784†	270.7	530.0	0.0190	mg/L	0.0190	mg/L	23:00:26
1	Na 589.592†	232292.2	252114.8	45.98	mg/L	45.98	mg/L	23:00:26
1	Sr 407.771†	344517.1	374557.4	0.4371	mg/L	0.4371	mg/L	23:00:26
1	Y 371.029	2483939.0	2483939.0	0.920	mg/L			23:00:52
1	Ag 328.068†	1448.2	-290.4	0.0002	mg/L	0.0002	mg/L	23:00:54
1	Al 237.313†	2994.8	3686.9	0.4214	mg/L	0.4214	mg/L	23:01:05
1	As 188.979†	-14.4	-9.0	-0.0022	mg/L	-0.0022	mg/L	23:01:05
1	B 182.528†	-2.7	6.7	0.0071	mg/L	0.0071	mg/L	23:01:05
1	Ba 233.527†	4290.4	4762.4	0.0446	mg/L	0.0446	mg/L	23:01:05
1	Be 313.107†	-1311.2	12.2	0.0004	mg/L	0.0004	mg/L	23:00:54
1	Ca 315.887†	4644261.5	5052046.0	55.09	mg/L	55.09	mg/L	23:00:52
1	Cd 228.802†	152.1	6.3	0.0012	mg/L	0.0012	mg/L	23:01:05
1	Co 228.616†	-98.3	134.9	0.0027	mg/L	0.0027	mg/L	23:01:05
1	Cr 267.716†	669.9	162.2	0.0048	mg/L	0.0048	mg/L	23:00:54
1	Cu 324.752†	4092.7	-352.5	0.0025	mg/L	0.0025	mg/L	23:00:54
1	Mg 279.077†	128347.4	139561.5	11.27	mg/L	11.27	mg/L	23:00:54
1	Mn 257.610†	456198.5	479997.8	0.6191	mg/L	0.6191	mg/L	23:00:54
1	Mn 294.920†	212319.0	232208.0	0.6071	mg/L	0.6071	mg/L	23:00:54
1	Mo 202.031†	374.8	371.6	0.0182	mg/L	0.0182	mg/L	23:01:05
1	Ni 231.604†	294.5	162.2	0.0053	mg/L	0.0053	mg/L	23:01:05
1	P 214.914†	642.9	726.2	0.5015	mg/L	0.5015	mg/L	23:01:05
1	Pb 220.353†	109.6	-62.9	-0.0046	mg/L	-0.0046	mg/L	23:01:05
1	Sb 206.836†	64.1	21.8	0.0144	mg/L	0.0144	mg/L	23:01:05
1	Se 196.026†	13.7	3.9	0.0076	mg/L	0.0076	mg/L	23:01:05
1	Sn 189.927†	-466.5	-536.5	-0.0468	mg/L	-0.0468	mg/L	23:01:05
1	Ti 337.279†	16908.0	19005.6	0.0271	mg/L	0.0271	mg/L	23:00:54
1	Tl 190.801†	8.9	14.5	0.0161	mg/L	0.0161	mg/L	23:01:05
1	V 292.402†	74.6	429.4	0.0067	mg/L	0.0067	mg/L	23:00:54
1	Zn 213.857†	2597.5	1679.1	0.0150	mg/L	0.0150	mg/L	23:01:05
2	B 249.677†	29.1	37.6	0.0222	mg/L	0.0222	mg/L	23:00:48
2	Fe 234.349†	711.6	753.9	0.4222	mg/L	0.4222	mg/L	23:00:48
2	K 766.490†	14761.2	14961.7	8.328	mg/L	8.328	mg/L	23:00:38
2	Li 670.784†	266.0	519.9	0.0187	mg/L	0.0187	mg/L	23:00:38
2	Na 589.592†	233405.5	249028.2	45.42	mg/L	45.42	mg/L	23:00:38
2	Sr 407.771†	346006.3	369806.4	0.4315	mg/L	0.4315	mg/L	23:00:38
2	Y 371.029	2526719.6	2526719.6	0.935	mg/L			23:01:07
2	Ag 328.068†	1553.8	-204.2	0.0007	mg/L	0.0007	mg/L	23:01:10
2	Al 237.313†	3040.6	3680.8	0.4207	mg/L	0.4207	mg/L	23:01:20
2	As 188.979†	-5.6	0.6	0.0048	mg/L	0.0048	mg/L	23:01:20

2	B 182.528†	-3.3	6.0	0.0064 mg/L	0.0064 mg/L	23:01:20
2	Ba 233.527†	4353.8	4751.2	0.0445 mg/L	0.0445 mg/L	23:01:20
2	Be 313.107†	-1312.2	35.3	0.0004 mg/L	0.0004 mg/L	23:01:10
2	Ca 315.887†	4751742.5	5081436.2	55.41 mg/L	55.41 mg/L	23:01:07
2	Cd 228.802†	149.9	1.2	0.0010 mg/L	0.0010 mg/L	23:01:20
2	Co 228.616†	-89.7	145.9	0.0029 mg/L	0.0029 mg/L	23:01:20
2	Cr 267.716†	678.6	159.1	0.0048 mg/L	0.0048 mg/L	23:01:10
2	Cu 324.752†	4219.6	-292.2	0.0029 mg/L	0.0029 mg/L	23:01:10
2	Mg 279.077†	134361.4	143627.4	11.60 mg/L	11.60 mg/L	23:01:10
2	Mn 257.610†	475746.8	492495.6	0.6352 mg/L	0.6352 mg/L	23:01:10
2	Mn 294.920†	221498.1	238111.3	0.6225 mg/L	0.6225 mg/L	23:01:10
2	Mo 202.031†	377.6	367.8	0.0181 mg/L	0.0181 mg/L	23:01:20
2	Ni 231.604†	316.7	180.5	0.0057 mg/L	0.0057 mg/L	23:01:20
2	P 214.914†	648.2	720.0	0.4977 mg/L	0.4977 mg/L	23:01:20
2	Pb 220.353†	76.3	-100.6	-0.0073 mg/L	-0.0073 mg/L	23:01:20
2	Sb 206.836†	54.3	10.3	0.0090 mg/L	0.0090 mg/L	23:01:20
2	Se 196.026†	15.9	6.1	0.0091 mg/L	0.0091 mg/L	23:01:20
2	Sn 189.927†	-464.6	-525.9	-0.0450 mg/L	-0.0450 mg/L	23:01:20
2	Ti 337.279†	18932.0	20857.9	0.0292 mg/L	0.0292 mg/L	23:01:10
2	Tl 190.801†	11.2	16.8	0.0183 mg/L	0.0183 mg/L	23:01:20
2	V 292.402†	87.0	441.3	0.0067 mg/L	0.0067 mg/L	23:01:10
2	Zn 213.857†	2653.5	1691.1	0.0151 mg/L	0.0151 mg/L	23:01:20

Mean Data: 1307105-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2505329.3	0.928	mg/L	0.0112			1.21%
Ag 328.068†	-247.3	0.0004	mg/L	0.00034	0.0004 mg/L	0.00034	80.96%
Al 237.313†	3683.9	0.4210	mg/L	0.00048	0.4210 mg/L	0.00048	0.11%
As 188.979†	-4.2	0.0013	mg/L	0.00496	0.0013 mg/L	0.00496	376.19%
B 249.677†	39.2	0.0231	mg/L	0.00123	0.0231 mg/L	0.00123	5.33%
B 182.528†	6.3	0.0067	mg/L	0.00049	0.0067 mg/L	0.00049	7.36%
Ba 233.527†	4756.8	0.0446	mg/L	0.00007	0.0446 mg/L	0.00007	0.16%
Be 313.107†	23.8	0.0004	mg/L	0.00001	0.0004 mg/L	0.00001	1.76%
Ca 315.887†	5066741.1	55.25	mg/L	0.226	55.25 mg/L	0.226	0.41%
Cd 228.802†	3.7	0.0011	mg/L	0.00011	0.0011 mg/L	0.00011	10.26%
Co 228.616†	140.4	0.0028	mg/L	0.00015	0.0028 mg/L	0.00015	5.48%
Cr 267.716†	160.7	0.0048	mg/L	0.00002	0.0048 mg/L	0.00002	0.40%
Cu 324.752†	-322.4	0.0027	mg/L	0.00023	0.0027 mg/L	0.00023	8.58%
Fe 234.349†	757.5	0.4249	mg/L	0.00380	0.4249 mg/L	0.00380	0.90%
K 766.490†	15088.4	8.397	mg/L	0.0976	8.397 mg/L	0.0976	1.16%
Li 670.784†	525.0	0.0189	mg/L	0.00020	0.0189 mg/L	0.00020	1.04%
Mg 279.077†	141594.5	11.44	mg/L	0.232	11.44 mg/L	0.232	2.03%
Mn 257.610†	486246.7	0.6272	mg/L	0.01137	0.6272 mg/L	0.01137	1.81%
Mn 294.920†	235159.7	0.6148	mg/L	0.01089	0.6148 mg/L	0.01089	1.77%
Mo 202.031†	369.7	0.0181	mg/L	0.00012	0.0181 mg/L	0.00012	0.64%
Na 589.592†	250571.5	45.70	mg/L	0.397	45.70 mg/L	0.397	0.87%
Ni 231.604†	171.4	0.0055	mg/L	0.00029	0.0055 mg/L	0.00029	5.28%
P 214.914†	723.1	0.4996	mg/L	0.00274	0.4996 mg/L	0.00274	0.55%
Pb 220.353†	-81.8	-0.0059	mg/L	0.00188	-0.0059 mg/L	0.00188	31.61%
Sb 206.836†	16.0	0.0117	mg/L	0.00383	0.0117 mg/L	0.00383	32.67%
Se 196.026†	5.0	0.0084	mg/L	0.00104	0.0084 mg/L	0.00104	12.47%
Sn 189.927†	-531.2	-0.0459	mg/L	0.00125	-0.0459 mg/L	0.00125	2.73%
Sr 407.771†	372181.9	0.4343	mg/L	0.00392	0.4343 mg/L	0.00392	0.90%
Ti 337.279†	19931.7	0.0282	mg/L	0.00153	0.0282 mg/L	0.00153	5.43%
Tl 190.801†	15.6	0.0172	mg/L	0.00159	0.0172 mg/L	0.00159	9.26%
V 292.402†	435.3	0.0067	mg/L	0.00003	0.0067 mg/L	0.00003	0.50%
Zn 213.857†	1685.1	0.0150	mg/L	0.00006	0.0150 mg/L	0.00006	0.40%

Sequence No.: 137

Sample ID: 1307105-04

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 116

Date Collected: 7/5/2013 11:02:58 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307105-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	38.2	48.7	0.0284 mg/L	0.0284 mg/L	23:04:52
1	Fe 234.349†	328.4	356.2	0.1568 mg/L	0.1568 mg/L	23:04:52

1	K 766.490†	16266.5	17158.4	9.525 mg/L	9.525 mg/L	23:04:42
1	Li 670.784†	311.2	579.5	0.0204 mg/L	0.0204 mg/L	23:04:42
1	Na 589.592†	440864.6	486725.1	88.67 mg/L	88.67 mg/L	23:04:42
1	Sr 407.771†	365641.6	404004.4	0.4714 mg/L	0.4714 mg/L	23:04:42
1	Y 371.029	2444128.2	2444128.2	0.905 mg/L		23:05:09
1	Ag 328.068†	1533.2	-170.8	0.0008 mg/L	0.0008 mg/L	23:05:11
1	Al 237.313†	487.4	969.1	0.1206 mg/L	0.1206 mg/L	23:05:21
1	As 188.979†	-12.3	-7.0	-0.0007 mg/L	-0.0007 mg/L	23:05:21
1	B 182.528†	4.5	14.6	0.0155 mg/L	0.0155 mg/L	23:05:21
1	Ba 233.527†	7545.3	8435.4	0.0766 mg/L	0.0766 mg/L	23:05:21
1	Be 313.107†	-1369.4	-75.3	0.0003 mg/L	0.0003 mg/L	23:05:11
1	Ca 315.887†	4603493.1	5089251.1	55.50 mg/L	55.50 mg/L	23:05:09
1	Cd 228.802†	158.2	15.8	0.0015 mg/L	0.0015 mg/L	23:05:21
1	Co 228.616†	527.0	824.2	0.0165 mg/L	0.0165 mg/L	23:05:21
1	Cr 267.716†	635.2	135.8	0.0046 mg/L	0.0046 mg/L	23:05:11
1	Cu 324.752†	3827.1	-573.5	0.0013 mg/L	0.0013 mg/L	23:05:11
1	Mg 279.077†	162054.9	179085.4	14.46 mg/L	14.46 mg/L	23:05:11
1	Mn 257.610†	676730.9	731790.9	0.9431 mg/L	0.9431 mg/L	23:05:09
1	Mn 294.920†	328401.1	364252.3	0.9514 mg/L	0.9514 mg/L	23:05:11
1	Mo 202.031†	315.6	312.8	0.0158 mg/L	0.0158 mg/L	23:05:21
1	Ni 231.604†	419.1	305.1	0.0084 mg/L	0.0084 mg/L	23:05:21
1	P 214.914†	850.8	967.3	0.6526 mg/L	0.6526 mg/L	23:05:21
1	Pb 220.353†	83.0	-90.4	-0.0065 mg/L	-0.0065 mg/L	23:05:21
1	Sb 206.836†	54.1	11.9	0.0098 mg/L	0.0098 mg/L	23:05:21
1	Se 196.026†	14.4	5.0	0.0084 mg/L	0.0084 mg/L	23:05:21
1	Sn 189.927†	-471.9	-550.8	-0.0486 mg/L	-0.0486 mg/L	23:05:21
1	Ti 337.279†	8862.7	10414.1	0.0171 mg/L	0.0171 mg/L	23:05:11
1	Tl 190.801†	7.8	13.4	0.0152 mg/L	0.0152 mg/L	23:05:21
1	V 292.402†	-214.9	110.8	0.0052 mg/L	0.0052 mg/L	23:05:11
1	Zn 213.857†	2569.4	1694.1	0.0151 mg/L	0.0151 mg/L	23:05:21
2	B 249.677†	34.5	44.2	0.0259 mg/L	0.0259 mg/L	23:05:04
2	Fe 234.349†	323.4	346.6	0.1498 mg/L	0.1498 mg/L	23:05:04
2	K 766.490†	16030.3	16699.1	9.275 mg/L	9.275 mg/L	23:04:54
2	Li 670.784†	371.5	641.6	0.0221 mg/L	0.0221 mg/L	23:04:54
2	Na 589.592†	433342.2	473050.7	86.18 mg/L	86.18 mg/L	23:04:54
2	Sr 407.771†	357766.3	390875.0	0.4561 mg/L	0.4561 mg/L	23:04:54
2	Y 371.029	2471800.1	2471800.1	0.915 mg/L		23:05:24
2	Ag 328.068†	1498.9	-227.3	0.0005 mg/L	0.0005 mg/L	23:05:27
2	Al 237.313†	539.4	1019.9	0.1262 mg/L	0.1262 mg/L	23:05:37
2	As 188.979†	-5.2	1.0	0.0051 mg/L	0.0051 mg/L	23:05:37
2	B 182.528†	4.9	14.9	0.0159 mg/L	0.0159 mg/L	23:05:37
2	Ba 233.527†	7442.7	8230.0	0.0748 mg/L	0.0748 mg/L	23:05:37
2	Be 313.107†	-1248.2	74.0	0.0004 mg/L	0.0004 mg/L	23:05:27
2	Ca 315.887†	4689270.2	5126029.9	55.90 mg/L	55.90 mg/L	23:05:24
2	Cd 228.802†	158.2	13.8	0.0014 mg/L	0.0014 mg/L	23:05:37
2	Co 228.616†	515.6	805.2	0.0161 mg/L	0.0161 mg/L	23:05:37
2	Cr 267.716†	593.5	82.4	0.0041 mg/L	0.0041 mg/L	23:05:27
2	Cu 324.752†	3741.3	-714.6	0.0006 mg/L	0.0006 mg/L	23:05:27
2	Mg 279.077†	158753.5	173472.8	14.01 mg/L	14.01 mg/L	23:05:27
2	Mn 257.610†	689166.8	737007.8	0.9498 mg/L	0.9498 mg/L	23:05:24
2	Mn 294.920†	322467.5	353705.5	0.9239 mg/L	0.9239 mg/L	23:05:27
2	Mo 202.031†	254.8	242.5	0.0128 mg/L	0.0128 mg/L	23:05:37
2	Ni 231.604†	411.6	291.7	0.0081 mg/L	0.0081 mg/L	23:05:37
2	P 214.914†	821.6	924.9	0.6261 mg/L	0.6261 mg/L	23:05:37
2	Pb 220.353†	131.4	-38.5	-0.0028 mg/L	-0.0028 mg/L	23:05:37
2	Sb 206.836†	47.8	4.4	0.0063 mg/L	0.0063 mg/L	23:05:37
2	Se 196.026†	21.9	13.0	0.0139 mg/L	0.0139 mg/L	23:05:37
2	Sn 189.927†	-491.3	-566.2	-0.0506 mg/L	-0.0506 mg/L	23:05:37
2	Ti 337.279†	8453.6	9857.4	0.0164 mg/L	0.0164 mg/L	23:05:27
2	Tl 190.801†	14.9	21.1	0.0227 mg/L	0.0227 mg/L	23:05:37
2	V 292.402†	-280.9	41.4	0.0049 mg/L	0.0049 mg/L	23:05:27
2	Zn 213.857†	2557.9	1649.7	0.0148 mg/L	0.0148 mg/L	23:05:37

Mean Data: 1307105-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2457964.2	0.910 mg/L		0.0072			0.80%
Ag 328.068†	-199.1	0.0007 mg/L		0.00022	0.0007 mg/L	0.00022	32.66%
Al 237.313†	994.5	0.1234 mg/L		0.00398	0.1234 mg/L	0.00398	3.22%
As 188.979†	-3.0	0.0022 mg/L		0.00409	0.0022 mg/L	0.00409	186.66%
B 249.677†	46.4	0.0271 mg/L		0.00179	0.0271 mg/L	0.00179	6.60%
B 182.528†	14.7	0.0157 mg/L		0.00029	0.0157 mg/L	0.00029	1.84%

Ba	233.527†	8332.7	0.0757 mg/L	0.00127	0.0757 mg/L	0.00127	1.67%
Be	313.107†	-0.6	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	12.31%
Ca	315.887†	5107640.5	55.70 mg/L	0.283	55.70 mg/L	0.283	0.51%
Cd	228.802†	14.8	0.0015 mg/L	0.00004	0.0015 mg/L	0.00004	2.93%
Co	228.616†	814.7	0.0163 mg/L	0.00027	0.0163 mg/L	0.00027	1.65%
Cr	267.716†	109.1	0.0043 mg/L	0.00033	0.0043 mg/L	0.00033	7.61%
Cu	324.752†	-644.1	0.0010 mg/L	0.00054	0.0010 mg/L	0.00054	56.36%
Fe	234.349†	351.4	0.1533 mg/L	0.00497	0.1533 mg/L	0.00497	3.24%
K	766.490†	16928.7	9.400 mg/L	0.1770	9.400 mg/L	0.1770	1.88%
Li	670.784†	610.5	0.0212 mg/L	0.00121	0.0212 mg/L	0.00121	5.69%
Mg	279.077†	176279.1	14.23 mg/L	0.320	14.23 mg/L	0.320	2.25%
Mn	257.610†	734399.4	0.9465 mg/L	0.00475	0.9465 mg/L	0.00475	0.50%
Mn	294.920†	358978.9	0.9377 mg/L	0.01945	0.9377 mg/L	0.01945	2.07%
Mo	202.031†	277.7	0.0143 mg/L	0.00211	0.0143 mg/L	0.00211	14.77%
Na	589.592†	479887.9	87.43 mg/L	1.759	87.43 mg/L	1.759	2.01%
Ni	231.604†	298.4	0.0083 mg/L	0.00021	0.0083 mg/L	0.00021	2.57%
P	214.914†	946.1	0.6393 mg/L	0.01876	0.6393 mg/L	0.01876	2.93%
Pb	220.353†	-64.4	-0.0047 mg/L	0.00258	-0.0047 mg/L	0.00258	55.32%
Sb	206.836†	8.1	0.0081 mg/L	0.00252	0.0081 mg/L	0.00252	31.27%
Se	196.026†	9.0	0.0112 mg/L	0.00389	0.0112 mg/L	0.00389	34.90%
Sn	189.927†	-558.5	-0.0496 mg/L	0.00143	-0.0496 mg/L	0.00143	2.88%
Sr	407.771†	397439.7	0.4638 mg/L	0.01082	0.4638 mg/L	0.01082	2.33%
Ti	337.279†	10135.7	0.0167 mg/L	0.00046	0.0167 mg/L	0.00046	2.75%
Tl	190.801†	17.2	0.0189 mg/L	0.00531	0.0189 mg/L	0.00531	28.07%
V	292.402†	76.1	0.0051 mg/L	0.00025	0.0051 mg/L	0.00025	5.01%
Zn	213.857†	1671.9	0.0149 mg/L	0.00023	0.0149 mg/L	0.00023	1.53%

Sequence No.: 138
Sample ID: CG30508-F. BLK.
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 117
Date Collected: 7/5/2013 11:07:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CG30508-F. BLK.

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-3.1	3.4	0.0032 mg/L	0.0032 mg/L	23:09:04
1	Fe 234.349†	11.7	5.1	0.0139 mg/L	0.0139 mg/L	23:09:04
1	K 766.490†	1267.9	461.5	0.4259 mg/L	0.4259 mg/L	23:08:54
1	Li 670.784†	-433.6	-201.9	-0.0011 mg/L	-0.0011 mg/L	23:08:54
1	Na 589.592†	1087.6	617.7	0.2256 mg/L	0.2256 mg/L	23:08:54
1	Sr 407.771†	110.9	41.4	0.0004 mg/L	0.0004 mg/L	23:08:54
1	Y 371.029	2676701.2	2676701.2	0.991 mg/L		23:09:20
1	Ag 328.068†	1619.8	-230.7	0.0005 mg/L	0.0005 mg/L	23:09:23
1	Al 237.313†	-338.8	88.5	0.0231 mg/L	0.0231 mg/L	23:09:23
1	As 188.979†	4.1	10.8	0.0123 mg/L	0.0123 mg/L	23:09:33
1	B 182.528†	-8.7	0.8	0.0007 mg/L	0.0007 mg/L	23:09:33
1	Ba 233.527†	-67.3	29.1	0.0034 mg/L	0.0034 mg/L	23:09:33
1	Be 313.107†	-1307.4	118.8	0.0004 mg/L	0.0004 mg/L	23:09:23
1	Ca 315.887†	1033.8	2918.8	0.0678 mg/L	0.0678 mg/L	23:09:23
1	Cd 228.802†	149.2	-8.5	0.0007 mg/L	0.0007 mg/L	23:09:33
1	Co 228.616†	-201.0	38.9	0.0008 mg/L	0.0008 mg/L	23:09:33
1	Cr 267.716†	536.1	-25.3	0.0032 mg/L	0.0032 mg/L	23:09:23
1	Cu 324.752†	4052.0	-714.0	0.0006 mg/L	0.0006 mg/L	23:09:23
1	Mg 279.077†	103.2	100.7	0.0333 mg/L	0.0333 mg/L	23:09:23
1	Mn 257.610†	15860.6	-67.7	0.0016 mg/L	0.0016 mg/L	23:09:23
1	Mn 294.920†	-666.9	659.3	0.0032 mg/L	0.0032 mg/L	23:09:23
1	Mo 202.031†	36.3	0.7	0.0025 mg/L	0.0025 mg/L	23:09:33
1	Ni 231.604†	162.9	6.3	0.0018 mg/L	0.0018 mg/L	23:09:23
1	P 214.914†	324.0	354.1	0.2687 mg/L	0.2687 mg/L	23:09:33
1	Pb 220.353†	154.9	-25.8	-0.0020 mg/L	-0.0020 mg/L	23:09:33
1	Sb 206.836†	48.4	1.0	0.0047 mg/L	0.0047 mg/L	23:09:33
1	Se 196.026†	10.5	-0.3	0.0048 mg/L	0.0048 mg/L	23:09:33
1	Sn 189.927†	18.6	-10.6	-0.0029 mg/L	-0.0029 mg/L	23:09:33
1	Ti 337.279†	-547.0	67.9	0.0050 mg/L	0.0050 mg/L	23:09:23
1	Tl 190.801†	-9.9	-5.1	-0.0038 mg/L	-0.0038 mg/L	23:09:33
1	V 292.402†	-258.7	87.2	0.0050 mg/L	0.0050 mg/L	23:09:23
1	Zn 213.857†	1228.2	93.9	0.0034 mg/L	0.0034 mg/L	23:09:33
2	B 249.677†	-5.3	1.1	0.0019 mg/L	0.0019 mg/L	23:09:17
2	Fe 234.349†	7.1	0.4	0.0108 mg/L	0.0108 mg/L	23:09:17
2	K 766.490†	1389.6	587.6	0.4946 mg/L	0.4946 mg/L	23:09:07

2	Li 670.784†	-247.8	-15.0	0.0040 mg/L	0.0040 mg/L	23:09:07
2	Na 589.592†	1039.5	571.6	0.2172 mg/L	0.2172 mg/L	23:09:07
2	Sr 407.771†	61.4	-8.5	0.0004 mg/L	0.0004 mg/L	23:09:07
2	Y 371.029	2670593.7	2670593.7	0.989 mg/L		23:09:35
2	Ag 328.068†	1660.7	-185.5	0.0007 mg/L	0.0007 mg/L	23:09:37
2	Al 237.313†	-296.5	130.5	0.0278 mg/L	0.0278 mg/L	23:09:37
2	As 188.979†	1.8	8.5	0.0105 mg/L	0.0105 mg/L	23:09:48
2	B 182.528†	-8.5	0.9	0.0009 mg/L	0.0009 mg/L	23:09:48
2	Ba 233.527†	-98.1	-2.2	0.0031 mg/L	0.0031 mg/L	23:09:48
2	Be 313.107†	-1249.3	174.5	0.0005 mg/L	0.0005 mg/L	23:09:37
2	Ca 315.887†	1235.1	3124.7	0.0700 mg/L	0.0700 mg/L	23:09:37
2	Cd 228.802†	144.3	-13.1	0.0006 mg/L	0.0006 mg/L	23:09:48
2	Co 228.616†	-198.7	40.8	0.0008 mg/L	0.0008 mg/L	23:09:48
2	Cr 267.716†	451.2	-109.9	0.0024 mg/L	0.0024 mg/L	23:09:37
2	Cu 324.752†	4039.3	-717.5	0.0005 mg/L	0.0005 mg/L	23:09:37
2	Mg 279.077†	137.3	135.4	0.0361 mg/L	0.0361 mg/L	23:09:37
2	Mn 257.610†	15961.5	70.9	0.0018 mg/L	0.0018 mg/L	23:09:37
2	Mn 294.920†	-691.2	633.2	0.0032 mg/L	0.0032 mg/L	23:09:37
2	Mo 202.031†	53.7	18.4	0.0033 mg/L	0.0033 mg/L	23:09:48
2	Ni 231.604†	144.8	-11.6	0.0014 mg/L	0.0014 mg/L	23:09:37
2	P 214.914†	326.0	356.8	0.2704 mg/L	0.2704 mg/L	23:09:48
2	Pb 220.353†	171.4	-8.7	-0.0008 mg/L	-0.0008 mg/L	23:09:48
2	Sb 206.836†	49.3	2.0	0.0052 mg/L	0.0052 mg/L	23:09:48
2	Se 196.026†	16.4	5.7	0.0089 mg/L	0.0089 mg/L	23:09:48
2	Sn 189.927†	27.2	-1.8	-0.0016 mg/L	-0.0016 mg/L	23:09:48
2	Ti 337.279†	-561.0	52.4	0.0050 mg/L	0.0050 mg/L	23:09:37
2	Tl 190.801†	-6.8	-2.1	-0.0009 mg/L	-0.0009 mg/L	23:09:48
2	V 292.402†	-460.8	-117.8	0.0040 mg/L	0.0040 mg/L	23:09:37
2	Zn 213.857†	1168.7	36.6	0.0029 mg/L	0.0029 mg/L	23:09:48

Mean Data: CG30508-F. BLK.

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2673647.5	0.990	mg/L	0.0016			0.16%
Ag 328.068†	-208.1	0.0006	mg/L	0.00018	0.0006 mg/L	0.00018	28.44%
Al 237.313†	109.5	0.0255	mg/L	0.00329	0.0255 mg/L	0.00329	12.90%
As 188.979†	9.6	0.0114	mg/L	0.00122	0.0114 mg/L	0.00122	10.68%
B 249.677†	2.3	0.0025	mg/L	0.00089	0.0025 mg/L	0.00089	34.90%
B 182.528†	0.9	0.0008	mg/L	0.00012	0.0008 mg/L	0.00012	15.37%
Ba 233.527†	13.5	0.0032	mg/L	0.00019	0.0032 mg/L	0.00019	5.93%
Be 313.107†	146.6	0.0004	mg/L	0.00002	0.0004 mg/L	0.00002	3.88%
Ca 315.887†	3021.8	0.0689	mg/L	0.00158	0.0689 mg/L	0.00158	2.29%
Cd 228.802†	-10.8	0.0007	mg/L	0.00010	0.0007 mg/L	0.00010	15.08%
Co 228.616†	39.9	0.0008	mg/L	0.00003	0.0008 mg/L	0.00003	3.31%
Cr 267.716†	-67.6	0.0028	mg/L	0.00052	0.0028 mg/L	0.00052	18.61%
Cu 324.752†	-715.8	0.0006	mg/L	0.00001	0.0006 mg/L	0.00001	2.46%
Fe 234.349†	2.7	0.0124	mg/L	0.00218	0.0124 mg/L	0.00218	17.62%
K 766.490†	524.6	0.4602	mg/L	0.04858	0.4602 mg/L	0.04858	10.56%
Li 670.784†	-108.5	0.0015	mg/L	0.00363	0.0015 mg/L	0.00363	247.53%
Mg 279.077†	118.1	0.0347	mg/L	0.00198	0.0347 mg/L	0.00198	5.69%
Mn 257.610†	1.6	0.0017	mg/L	0.00013	0.0017 mg/L	0.00013	7.49%
Mn 294.920†	646.3	0.0032	mg/L	0.00005	0.0032 mg/L	0.00005	1.51%
Mo 202.031†	9.6	0.0029	mg/L	0.00053	0.0029 mg/L	0.00053	18.22%
Na 589.592†	594.7	0.2214	mg/L	0.00593	0.2214 mg/L	0.00593	2.68%
Ni 231.604†	-2.6	0.0016	mg/L	0.00028	0.0016 mg/L	0.00028	17.99%
P 214.914†	355.4	0.2695	mg/L	0.00121	0.2695 mg/L	0.00121	0.45%
Pb 220.353†	-17.3	-0.0014	mg/L	0.00085	-0.0014 mg/L	0.00085	62.54%
Sb 206.836†	1.5	0.0049	mg/L	0.00034	0.0049 mg/L	0.00034	6.88%
Se 196.026†	2.7	0.0069	mg/L	0.00290	0.0069 mg/L	0.00290	42.06%
Sn 189.927†	-6.2	-0.0023	mg/L	0.00092	-0.0023 mg/L	0.00092	40.19%
Sr 407.771†	16.4	0.0004	mg/L	0.00004	0.0004 mg/L	0.00004	10.63%
Ti 337.279†	60.2	0.0050	mg/L	0.00001	0.0050 mg/L	0.00001	0.26%
Tl 190.801†	-3.6	-0.0024	mg/L	0.00210	-0.0024 mg/L	0.00210	89.27%
V 292.402†	-15.3	0.0045	mg/L	0.00065	0.0045 mg/L	0.00065	14.52%
Zn 213.857†	65.3	0.0032	mg/L	0.00030	0.0032 mg/L	0.00030	9.37%

Sequence No.: 139
Sample ID: CF30510-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 118
Date Collected: 7/5/2013 11:11:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-13.3	-7.5	-0.0029	mg/L	-0.0029	mg/L 23:13:10
1	Fe 234.349†	10.3	4.0	0.0132	mg/L	0.0132	mg/L 23:13:10
1	K 766.490†	984.2	216.0	0.2920	mg/L	0.2920	mg/L 23:13:00
1	Li 670.784†	-138.8	89.8	0.0069	mg/L	0.0069	mg/L 23:13:00
1	Na 589.592†	863.5	427.4	0.1910	mg/L	0.1910	mg/L 23:13:00
1	Sr 407.771†	194.4	133.6	0.0005	mg/L	0.0005	mg/L 23:13:00
1	Y 371.029	2571271.2	2571271.2	0.952	mg/L		23:13:26
1	Ag 328.068†	1612.1	-171.7	0.0008	mg/L	0.0008	mg/L 23:13:29
1	Al 237.313†	-256.4	161.1	0.0312	mg/L	0.0312	mg/L 23:13:29
1	As 188.979†	1.2	7.9	0.0101	mg/L	0.0101	mg/L 23:13:39
1	B 182.528†	-9.3	-0.2	-0.0003	mg/L	-0.0003	mg/L 23:13:39
1	Ba 233.527†	-74.6	18.7	0.0033	mg/L	0.0033	mg/L 23:13:39
1	Be 313.107†	-1268.9	105.1	0.0004	mg/L	0.0004	mg/L 23:13:29
1	Ca 315.887†	-806.0	1028.9	0.0472	mg/L	0.0472	mg/L 23:13:29
1	Cd 228.802†	158.6	7.6	0.0012	mg/L	0.0012	mg/L 23:13:39
1	Co 228.616†	-266.1	-37.8	-0.0007	mg/L	-0.0007	mg/L 23:13:39
1	Cr 267.716†	476.2	-66.0	0.0028	mg/L	0.0028	mg/L 23:13:29
1	Cu 324.752†	3979.9	-622.1	0.0011	mg/L	0.0011	mg/L 23:13:29
1	Mg 279.077†	75.4	75.7	0.0313	mg/L	0.0313	mg/L 23:13:29
1	Mn 257.610†	16171.3	914.9	0.0029	mg/L	0.0029	mg/L 23:13:29
1	Mn 294.920†	-622.6	678.3	0.0033	mg/L	0.0033	mg/L 23:13:29
1	Mo 202.031†	53.3	20.1	0.0034	mg/L	0.0034	mg/L 23:13:39
1	Ni 231.604†	162.6	12.8	0.0019	mg/L	0.0019	mg/L 23:13:29
1	P 214.914†	32.4	61.1	0.0852	mg/L	0.0852	mg/L 23:13:39
1	Pb 220.353†	165.7	-8.1	-0.0007	mg/L	-0.0007	mg/L 23:13:39
1	Sb 206.836†	48.1	2.7	0.0055	mg/L	0.0055	mg/L 23:13:39
1	Se 196.026†	10.8	0.5	0.0054	mg/L	0.0054	mg/L 23:13:39
1	Sn 189.927†	141.6	119.4	0.0163	mg/L	0.0163	mg/L 23:13:39
1	Ti 337.279†	-379.2	221.5	0.0052	mg/L	0.0052	mg/L 23:13:29
1	Tl 190.801†	-12.5	-8.3	-0.0069	mg/L	-0.0069	mg/L 23:13:39
1	V 292.402†	-195.4	143.0	0.0052	mg/L	0.0052	mg/L 23:13:29
1	Zn 213.857†	1209.3	124.9	0.0036	mg/L	0.0036	mg/L 23:13:39
2	B 249.677†	-16.4	-10.7	-0.0047	mg/L	-0.0047	mg/L 23:13:23
2	Fe 234.349†	39.8	34.9	0.0338	mg/L	0.0338	mg/L 23:13:23
2	K 766.490†	993.2	223.6	0.2962	mg/L	0.2962	mg/L 23:13:13
2	Li 670.784†	-376.4	-159.1	0.0001	mg/L	0.0001	mg/L 23:13:13
2	Na 589.592†	881.0	444.2	0.1940	mg/L	0.1940	mg/L 23:13:13
2	Sr 407.771†	13.3	-56.6	0.0003	mg/L	0.0003	mg/L 23:13:13
2	Y 371.029	2575721.8	2575721.8	0.954	mg/L		23:13:41
2	Ag 328.068†	1636.8	-148.7	0.0010	mg/L	0.0010	mg/L 23:13:43
2	Al 237.313†	-236.7	182.2	0.0335	mg/L	0.0335	mg/L 23:13:43
2	As 188.979†	-5.1	1.3	0.0053	mg/L	0.0053	mg/L 23:13:54
2	B 182.528†	-9.6	-0.5	-0.0006	mg/L	-0.0006	mg/L 23:13:54
2	Ba 233.527†	-104.2	-12.2	0.0030	mg/L	0.0030	mg/L 23:13:54
2	Be 313.107†	-1373.3	-2.1	0.0004	mg/L	0.0004	mg/L 23:13:43
2	Ca 315.887†	-789.1	1048.1	0.0474	mg/L	0.0474	mg/L 23:13:43
2	Cd 228.802†	162.5	11.4	0.0014	mg/L	0.0014	mg/L 23:13:54
2	Co 228.616†	-224.7	6.2	0.0001	mg/L	0.0001	mg/L 23:13:54
2	Cr 267.716†	531.4	-9.0	0.0033	mg/L	0.0033	mg/L 23:13:43
2	Cu 324.752†	4005.5	-602.5	0.0012	mg/L	0.0012	mg/L 23:13:43
2	Mg 279.077†	59.1	58.5	0.0299	mg/L	0.0299	mg/L 23:13:43
2	Mn 257.610†	16115.6	827.2	0.0027	mg/L	0.0027	mg/L 23:13:43
2	Mn 294.920†	-569.1	735.5	0.0034	mg/L	0.0034	mg/L 23:13:43
2	Mo 202.031†	36.6	2.4	0.0026	mg/L	0.0026	mg/L 23:13:54
2	Ni 231.604†	191.9	43.2	0.0026	mg/L	0.0026	mg/L 23:13:43
2	P 214.914†	25.5	53.8	0.0806	mg/L	0.0806	mg/L 23:13:54
2	Pb 220.353†	166.2	-7.8	-0.0007	mg/L	-0.0007	mg/L 23:13:54
2	Sb 206.836†	44.5	-1.2	0.0037	mg/L	0.0037	mg/L 23:13:54
2	Se 196.026†	18.4	8.4	0.0108	mg/L	0.0108	mg/L 23:13:54
2	Sn 189.927†	141.0	118.5	0.0162	mg/L	0.0162	mg/L 23:13:54
2	Ti 337.279†	-307.6	297.2	0.0052	mg/L	0.0052	mg/L 23:13:43
2	Tl 190.801†	-14.3	-10.2	-0.0088	mg/L	-0.0088	mg/L 23:13:54
2	V 292.402†	-444.7	-118.0	0.0040	mg/L	0.0040	mg/L 23:13:43
2	Zn 213.857†	1194.6	107.3	0.0035	mg/L	0.0035	mg/L 23:13:54

Mean Data: CF30510-BLK1

Mean Corrected

Calib

Sample Page 302 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2573496.5	0.953 mg/L	0.0012			0.12%
Ag 328.068†	-160.2	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	10.19%
Al 237.313†	171.6	0.0323 mg/L	0.00165	0.0323 mg/L	0.00165	5.11%
As 188.979†	4.6	0.0077 mg/L	0.00339	0.0077 mg/L	0.00339	43.87%
B 249.677†	-9.1	-0.0038 mg/L	0.00126	-0.0038 mg/L	0.00126	33.25%
B 182.528†	-0.3	-0.0005 mg/L	0.00020	-0.0005 mg/L	0.00020	44.73%
Ba 233.527†	3.2	0.0032 mg/L	0.00019	0.0032 mg/L	0.00019	6.03%
Be 313.107†	51.5	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	8.25%
Ca 315.887†	1038.5	0.0473 mg/L	0.00014	0.0473 mg/L	0.00014	0.30%
Cd 228.802†	9.5	0.0013 mg/L	0.00008	0.0013 mg/L	0.00008	6.37%
Co 228.616†	-15.8	-0.0003 mg/L	0.00062	-0.0003 mg/L	0.00062	201.36%
Cr 267.716†	-37.5	0.0031 mg/L	0.00035	0.0031 mg/L	0.00035	11.47%
Cu 324.752†	-612.3	0.0011 mg/L	0.00008	0.0011 mg/L	0.00008	6.75%
Fe 234.349†	19.5	0.0235 mg/L	0.01456	0.0235 mg/L	0.01456	61.84%
K 766.490†	219.8	0.2941 mg/L	0.00295	0.2941 mg/L	0.00295	1.00%
Li 670.784†	-34.7	0.0035 mg/L	0.00484	0.0035 mg/L	0.00484	138.35%
Mg 279.077†	67.1	0.0306 mg/L	0.00098	0.0306 mg/L	0.00098	3.21%
Mn 257.610†	871.0	0.0028 mg/L	0.00008	0.0028 mg/L	0.00008	2.96%
Mn 294.920†	706.9	0.0034 mg/L	0.00011	0.0034 mg/L	0.00011	3.14%
Mo 202.031†	11.2	0.0030 mg/L	0.00053	0.0030 mg/L	0.00053	17.83%
Na 589.592†	435.8	0.1925 mg/L	0.00216	0.1925 mg/L	0.00216	1.12%
Ni 231.604†	28.0	0.0022 mg/L	0.00048	0.0022 mg/L	0.00048	21.32%
P 214.914†	57.4	0.0829 mg/L	0.00324	0.0829 mg/L	0.00324	3.91%
Pb 220.353†	-8.0	-0.0007 mg/L	0.00001	-0.0007 mg/L	0.00001	1.72%
Sb 206.836†	0.7	0.0046 mg/L	0.00128	0.0046 mg/L	0.00128	28.05%
Se 196.026†	4.4	0.0081 mg/L	0.00382	0.0081 mg/L	0.00382	47.39%
Sn 189.927†	119.0	0.0162 mg/L	0.00009	0.0162 mg/L	0.00009	0.58%
Sr 407.771†	38.5	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	38.01%
Ti 337.279†	259.4	0.0052 mg/L	0.00006	0.0052 mg/L	0.00006	1.20%
Tl 190.801†	-9.3	-0.0078 mg/L	0.00132	-0.0078 mg/L	0.00132	16.83%
V 292.402†	12.5	0.0046 mg/L	0.00085	0.0046 mg/L	0.00085	18.27%
Zn 213.857†	116.1	0.0035 mg/L	0.00010	0.0035 mg/L	0.00010	2.70%

Sequence No.: 140
Sample ID: CF30510-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 119
Date Collected: 7/5/2013 11:15:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	807.8	833.4	0.4660 mg/L	0.4660 mg/L	23:17:12
1	Fe 234.349†	84024.9	86006.3	57.29 mg/L	57.29 mg/L	23:17:12
1	K 766.490†	23670.0	23412.2	12.93 mg/L	12.93 mg/L	23:17:12
1	Li 670.784†	1199.5	1463.5	0.0447 mg/L	0.0447 mg/L	23:17:12
1	Na 589.592†	15749.7	15642.7	2.959 mg/L	2.959 mg/L	23:17:12
1	Sr 407.771†	457997.9	468764.6	0.5469 mg/L	0.5469 mg/L	23:17:09
1	Y 371.029	2638600.6	2638600.6	0.977 mg/L		23:17:21
1	Ag 328.068†	67972.9	67716.1	0.3786 mg/L	0.3786 mg/L	23:17:24
1	Al 237.313†	341473.0	349983.4	38.75 mg/L	38.75 mg/L	23:17:24
1	As 188.979†	1083.6	1115.8	0.8156 mg/L	0.8156 mg/L	23:17:34
1	B 182.528†	419.9	439.4	0.4715 mg/L	0.4715 mg/L	23:17:34
1	Ba 233.527†	227577.2	233059.1	2.034 mg/L	2.034 mg/L	23:17:24
1	Be 313.107†	1678670.9	1719829.9	0.7565 mg/L	0.7565 mg/L	23:17:21
1	Ca 315.887†	3732750.2	3822950.6	41.70 mg/L	41.70 mg/L	23:17:21
1	Cd 228.802†	23847.7	24252.9	0.7574 mg/L	0.7574 mg/L	23:17:24
1	Co 228.616†	27227.6	28113.7	0.5592 mg/L	0.5592 mg/L	23:17:34
1	Cr 267.716†	105583.3	107515.4	0.9411 mg/L	0.9411 mg/L	23:17:24
1	Cu 324.752†	158857.1	157813.1	0.8550 mg/L	0.8550 mg/L	23:17:24
1	Mg 279.077†	205884.7	210753.0	17.01 mg/L	17.01 mg/L	23:17:24
1	Mn 257.610†	1547693.8	1568243.0	2.006 mg/L	2.006 mg/L	23:17:21
1	Mn 294.920†	757868.8	777133.9	2.028 mg/L	2.028 mg/L	23:17:24
1	Mo 202.031†	14653.9	14964.8	0.6250 mg/L	0.6250 mg/L	23:17:34
1	Ni 231.604†	30733.1	31302.3	0.7004 mg/L	0.7004 mg/L	23:17:24
1	P 214.914†	4018.9	4141.1	2.628 mg/L	2.628 mg/L	23:17:34
1	Pb 220.353†	7910.5	7915.5	0.5518 mg/L	0.5518 mg/L	23:17:34
1	Sb 206.836†	679.4	647.6	0.2888 mg/L	0.2888 mg/L	23:17:34
1	Se 196.026†	1109.3	1124.6	0.7643 mg/L	0.7643 mg/L	23:17:34
1	Sn 189.927†	5015.2	5104.5	0.7799 mg/L	0.7799 mg/L	23:17:34

1	Ti 337.279†	1424452.7	1458778.1	1.708 mg/L	1.708 mg/L	23:17:21
1	Tl 190.801†	823.7	848.0	0.7891 mg/L	0.7891 mg/L	23:17:34
1	V 292.402†	137390.9	140990.1	0.6540 mg/L	0.6540 mg/L	23:17:24
1	Zn 213.857†	233770.6	238156.7	1.747 mg/L	1.747 mg/L	23:17:24
2	B 249.677†	810.1	843.2	0.4715 mg/L	0.4715 mg/L	23:17:16
2	Fe 234.349†	83012.1	85731.3	57.10 mg/L	57.10 mg/L	23:17:16
2	K 766.490†	23352.1	23301.1	12.87 mg/L	12.87 mg/L	23:17:16
2	Li 670.784†	1138.4	1411.4	0.0432 mg/L	0.0432 mg/L	23:17:16
2	Na 589.592†	15452.8	15480.5	2.930 mg/L	2.930 mg/L	23:17:16
2	Sr 407.771†	463275.1	478417.8	0.5582 mg/L	0.5582 mg/L	23:17:14
2	Y 371.029	2615157.4	2615157.4	0.968 mg/L		23:17:37
2	Ag 328.068†	67868.3	68231.8	0.3814 mg/L	0.3814 mg/L	23:17:40
2	Al 237.313†	341857.4	353514.0	39.14 mg/L	39.14 mg/L	23:17:40
2	As 188.979†	1085.2	1127.4	0.8241 mg/L	0.8241 mg/L	23:17:50
2	B 182.528†	416.9	440.2	0.4724 mg/L	0.4724 mg/L	23:17:50
2	Ba 233.527†	227834.3	235413.1	2.054 mg/L	2.054 mg/L	23:17:40
2	Be 313.107†	1664160.8	1720247.5	0.7567 mg/L	0.7567 mg/L	23:17:37
2	Ca 315.887†	3690627.2	3813697.8	41.60 mg/L	41.60 mg/L	23:17:37
2	Cd 228.802†	23808.3	24431.1	0.7630 mg/L	0.7630 mg/L	23:17:40
2	Co 228.616†	27330.5	28469.8	0.5663 mg/L	0.5663 mg/L	23:17:50
2	Cr 267.716†	105472.2	108369.5	0.9485 mg/L	0.9485 mg/L	23:17:40
2	Cu 324.752†	159192.6	159617.3	0.8647 mg/L	0.8647 mg/L	23:17:40
2	Mg 279.077†	205870.0	212627.0	17.16 mg/L	17.16 mg/L	23:17:40
2	Mn 257.610†	1534483.6	1568801.4	2.007 mg/L	2.007 mg/L	23:17:37
2	Mn 294.920†	758630.1	784874.7	2.048 mg/L	2.048 mg/L	23:17:40
2	Mo 202.031†	14680.5	15126.7	0.6318 mg/L	0.6318 mg/L	23:17:50
2	Ni 231.604†	30911.6	31768.6	0.7108 mg/L	0.7108 mg/L	23:17:40
2	P 214.914†	4015.2	4174.1	2.648 mg/L	2.648 mg/L	23:17:50
2	Pb 220.353†	7892.6	7969.7	0.5556 mg/L	0.5556 mg/L	23:17:50
2	Sb 206.836†	674.0	648.3	0.2892 mg/L	0.2892 mg/L	23:17:50
2	Se 196.026†	1115.1	1140.8	0.7755 mg/L	0.7755 mg/L	23:17:50
2	Sn 189.927†	5033.2	5169.2	0.7894 mg/L	0.7894 mg/L	23:17:50
2	Ti 337.279†	1412193.9	1459188.1	1.708 mg/L	1.708 mg/L	23:17:37
2	Tl 190.801†	832.7	864.8	0.8056 mg/L	0.8056 mg/L	23:17:50
2	V 292.402†	137447.2	142309.0	0.6601 mg/L	0.6601 mg/L	23:17:40
2	Zn 213.857†	234171.2	240715.6	1.765 mg/L	1.765 mg/L	23:17:40

Mean Data: CF30510-BS1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2626879.0	0.973	mg/L	0.0061				0.63%
Ag 328.068†	67974.0	0.3800	mg/L	0.00202	0.3800	mg/L	0.00202	0.53%
Al 237.313†	351748.7	38.94	mg/L	0.276	38.94	mg/L	0.276	0.71%
As 188.979†	1121.6	0.8198	mg/L	0.00596	0.8198	mg/L	0.00596	0.73%
B 249.677†	838.3	0.4687	mg/L	0.00388	0.4687	mg/L	0.00388	0.83%
B 182.528†	439.8	0.4719	mg/L	0.00062	0.4719	mg/L	0.00062	0.13%
Ba 233.527†	234236.1	2.044	mg/L	0.0145	2.044	mg/L	0.0145	0.71%
Be 313.107†	1720038.7	0.7566	mg/L	0.00013	0.7566	mg/L	0.00013	0.02%
Ca 315.887†	3818324.2	41.65	mg/L	0.071	41.65	mg/L	0.071	0.17%
Cd 228.802†	24342.0	0.7602	mg/L	0.00394	0.7602	mg/L	0.00394	0.52%
Co 228.616†	28291.7	0.5627	mg/L	0.00504	0.5627	mg/L	0.00504	0.90%
Cr 267.716†	107942.5	0.9448	mg/L	0.00527	0.9448	mg/L	0.00527	0.56%
Cu 324.752†	158715.2	0.8598	mg/L	0.00686	0.8598	mg/L	0.00686	0.80%
Fe 234.349†	85868.8	57.19	mg/L	0.130	57.19	mg/L	0.130	0.23%
K 766.490†	23356.6	12.90	mg/L	0.043	12.90	mg/L	0.043	0.33%
Li 670.784†	1437.4	0.0440	mg/L	0.00101	0.0440	mg/L	0.00101	2.30%
Mg 279.077†	211690.0	17.09	mg/L	0.107	17.09	mg/L	0.107	0.62%
Mn 257.610†	1568522.2	2.007	mg/L	0.0005	2.007	mg/L	0.0005	0.03%
Mn 294.920†	781004.3	2.038	mg/L	0.0143	2.038	mg/L	0.0143	0.70%
Mo 202.031†	15045.7	0.6284	mg/L	0.00485	0.6284	mg/L	0.00485	0.77%
Na 589.592†	15561.6	2.945	mg/L	0.0209	2.945	mg/L	0.0209	0.71%
Ni 231.604†	31535.5	0.7056	mg/L	0.00736	0.7056	mg/L	0.00736	1.04%
P 214.914†	4157.6	2.638	mg/L	0.0145	2.638	mg/L	0.0145	0.55%
Pb 220.353†	7942.6	0.5537	mg/L	0.00266	0.5537	mg/L	0.00266	0.48%
Sb 206.836†	647.9	0.2890	mg/L	0.00026	0.2890	mg/L	0.00026	0.09%
Se 196.026†	1132.7	0.7699	mg/L	0.00789	0.7699	mg/L	0.00789	1.02%
Sn 189.927†	5136.8	0.7847	mg/L	0.00672	0.7847	mg/L	0.00672	0.86%
Sr 407.771†	473591.2	0.5526	mg/L	0.00796	0.5526	mg/L	0.00796	1.44%
Ti 337.279†	1458983.1	1.708	mg/L	0.0003	1.708	mg/L	0.0003	0.02%
Tl 190.801†	856.4	0.7973	mg/L	0.01163	0.7973	mg/L	0.01163	1.46%
V 292.402†	141649.6	0.6571	mg/L	0.00432	0.6571	mg/L	0.00432	0.66%
Zn 213.857†	239436.1	1.756	mg/L	0.0133	1.756	mg/L	0.0133	0.76%

Sequence No.: 141
Sample ID: CF30510-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 120
Date Collected: 7/5/2013 11:19:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	776.7	801.9	0.4485 mg/L	0.4485 mg/L	23:21:10
1	Fe 234.349†	77436.0	79294.8	52.81 mg/L	52.81 mg/L	23:21:10
1	K 766.490†	22505.4	22229.7	12.29 mg/L	12.29 mg/L	23:21:10
1	Li 670.784†	1020.4	1280.6	0.0396 mg/L	0.0396 mg/L	23:21:10
1	Na 589.592†	15039.4	14922.0	2.828 mg/L	2.828 mg/L	23:21:10
1	Sr 407.771†	442424.5	453012.6	0.5286 mg/L	0.5286 mg/L	23:21:07
1	Y 371.029	2637494.2	2637494.2	0.976 mg/L		23:21:19
1	Ag 328.068†	67470.1	67230.4	0.3758 mg/L	0.3758 mg/L	23:21:22
1	Al 237.313†	329996.6	338377.1	37.46 mg/L	37.46 mg/L	23:21:22
1	As 188.979†	1055.2	1087.3	0.7949 mg/L	0.7949 mg/L	23:21:32
1	B 182.528†	419.3	438.9	0.4710 mg/L	0.4710 mg/L	23:21:32
1	Ba 233.527†	220797.0	226213.4	1.974 mg/L	1.974 mg/L	23:21:22
1	Be 313.107†	1676746.7	1718580.1	0.7559 mg/L	0.7559 mg/L	23:21:19
1	Ca 315.887†	3551724.5	3639166.6	39.70 mg/L	39.70 mg/L	23:21:19
1	Cd 228.802†	25127.4	25573.8	0.7987 mg/L	0.7987 mg/L	23:21:32
1	Co 228.616†	27322.2	28222.2	0.5614 mg/L	0.5614 mg/L	23:21:32
1	Cr 267.716†	105439.6	107413.5	0.9402 mg/L	0.9402 mg/L	23:21:22
1	Cu 324.752†	160692.4	159760.9	0.8654 mg/L	0.8654 mg/L	23:21:22
1	Mg 279.077†	199124.0	203917.8	16.46 mg/L	16.46 mg/L	23:21:22
1	Mn 257.610†	1472836.5	1492246.8	1.910 mg/L	1.910 mg/L	23:21:19
1	Mn 294.920†	718950.4	737603.3	1.925 mg/L	1.925 mg/L	23:21:22
1	Mo 202.031†	15038.7	15365.1	0.6426 mg/L	0.6426 mg/L	23:21:32
1	Ni 231.604†	30944.0	31531.4	0.7055 mg/L	0.7055 mg/L	23:21:22
1	P 214.914†	3767.6	3885.4	2.467 mg/L	2.467 mg/L	23:21:32
1	Pb 220.353†	7540.0	7539.6	0.5256 mg/L	0.5256 mg/L	23:21:32
1	Sb 206.836†	706.9	676.1	0.3036 mg/L	0.3036 mg/L	23:21:32
1	Se 196.026†	1071.4	1086.3	0.7390 mg/L	0.7390 mg/L	23:21:32
1	Sn 189.927†	4922.4	5011.7	0.7650 mg/L	0.7650 mg/L	23:21:32
1	Ti 337.279†	1389022.2	1423105.7	1.666 mg/L	1.666 mg/L	23:21:19
1	Tl 190.801†	850.7	876.0	0.8191 mg/L	0.8191 mg/L	23:21:32
1	V 292.402†	135625.0	139240.6	0.6464 mg/L	0.6464 mg/L	23:21:22
1	Zn 213.857†	230840.8	235256.7	1.725 mg/L	1.725 mg/L	23:21:22
2	B 249.677†	778.3	803.2	0.4492 mg/L	0.4492 mg/L	23:21:14
2	Fe 234.349†	77790.8	79617.9	53.03 mg/L	53.03 mg/L	23:21:14
2	K 766.490†	22531.6	22244.9	12.30 mg/L	12.30 mg/L	23:21:14
2	Li 670.784†	1092.1	1353.5	0.0417 mg/L	0.0417 mg/L	23:21:14
2	Na 589.592†	15031.7	14906.3	2.825 mg/L	2.825 mg/L	23:21:14
2	Sr 407.771†	439734.3	450030.3	0.5251 mg/L	0.5251 mg/L	23:21:12
2	Y 371.029	2638826.2	2638826.2	0.977 mg/L		23:21:35
2	Ag 328.068†	67538.8	67265.8	0.3760 mg/L	0.3760 mg/L	23:21:38
2	Al 237.313†	330706.8	338933.6	37.53 mg/L	37.53 mg/L	23:21:38
2	As 188.979†	1054.5	1085.9	0.7939 mg/L	0.7939 mg/L	23:21:48
2	B 182.528†	414.5	433.8	0.4655 mg/L	0.4655 mg/L	23:21:48
2	Ba 233.527†	221257.0	226570.1	1.977 mg/L	1.977 mg/L	23:21:38
2	Be 313.107†	1677861.8	1718854.8	0.7561 mg/L	0.7561 mg/L	23:21:35
2	Ca 315.887†	3559694.1	3645488.1	39.77 mg/L	39.77 mg/L	23:21:35
2	Cd 228.802†	24957.2	25386.5	0.7929 mg/L	0.7929 mg/L	23:21:48
2	Co 228.616†	27099.8	27980.4	0.5566 mg/L	0.5566 mg/L	23:21:48
2	Cr 267.716†	105422.5	107341.6	0.9396 mg/L	0.9396 mg/L	23:21:38
2	Cu 324.752†	160604.1	159587.4	0.8645 mg/L	0.8645 mg/L	23:21:38
2	Mg 279.077†	199315.4	204010.7	16.47 mg/L	16.47 mg/L	23:21:38
2	Mn 257.610†	1475711.3	1494428.1	1.912 mg/L	1.912 mg/L	23:21:35
2	Mn 294.920†	719173.1	737459.7	1.925 mg/L	1.925 mg/L	23:21:38
2	Mo 202.031†	14960.9	15277.7	0.6388 mg/L	0.6388 mg/L	23:21:48
2	Ni 231.604†	30833.0	31401.9	0.7026 mg/L	0.7026 mg/L	23:21:38
2	P 214.914†	3757.0	3872.7	2.460 mg/L	2.460 mg/L	23:21:48
2	Pb 220.353†	7523.7	7518.9	0.5242 mg/L	0.5242 mg/L	23:21:48
2	Sb 206.836†	708.6	677.5	0.3042 mg/L	0.3042 mg/L	23:21:48
2	Se 196.026†	1060.9	1075.0	0.7312 mg/L	0.7312 mg/L	23:21:48
2	Sn 189.927†	4824.8	4909.2	0.7498 mg/L	0.7498 mg/L	23:21:48
2	Ti 337.279†	1390123.7	1423515.2	1.666 mg/L	1.666 mg/L	23:21:35

2	Tl 190.801†	858.3	883.3	0.8260 mg/L	0.8260 mg/L	23:21:48
2	V 292.402†	135686.3	139233.3	0.6463 mg/L	0.6463 mg/L	23:21:38
2	Zn 213.857†	231138.5	235442.1	1.727 mg/L	1.727 mg/L	23:21:38

Mean Data: CF30510-BSD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2638160.2	0.977 mg/L		0.0003			0.04%
Ag 328.068†	67248.1	0.3759 mg/L		0.00014	0.3759 mg/L	0.00014	0.04%
Al 237.313†	338655.3	37.49 mg/L		0.044	37.49 mg/L	0.044	0.12%
As 188.979†	1086.6	0.7944 mg/L		0.00069	0.7944 mg/L	0.00069	0.09%
B 249.677†	802.5	0.4489 mg/L		0.00050	0.4489 mg/L	0.00050	0.11%
B 182.528†	436.4	0.4683 mg/L		0.00388	0.4683 mg/L	0.00388	0.83%
Ba 233.527†	226391.7	1.976 mg/L		0.0022	1.976 mg/L	0.0022	0.11%
Be 313.107†	1718717.4	0.7560 mg/L		0.00009	0.7560 mg/L	0.00009	0.01%
Ca 315.887†	3642327.3	39.73 mg/L		0.049	39.73 mg/L	0.049	0.12%
Cd 228.802†	25480.1	0.7958 mg/L		0.00414	0.7958 mg/L	0.00414	0.52%
Co 228.616†	28101.3	0.5590 mg/L		0.00342	0.5590 mg/L	0.00342	0.61%
Cr 267.716†	107377.6	0.9399 mg/L		0.00045	0.9399 mg/L	0.00045	0.05%
Cu 324.752†	159674.1	0.8649 mg/L		0.00066	0.8649 mg/L	0.00066	0.08%
Fe 234.349†	79456.4	52.92 mg/L		0.152	52.92 mg/L	0.152	0.29%
K 766.490†	22237.3	12.29 mg/L		0.006	12.29 mg/L	0.006	0.05%
Li 670.784†	1317.1	0.0406 mg/L		0.00142	0.0406 mg/L	0.00142	3.48%
Mg 279.077†	203964.3	16.46 mg/L		0.005	16.46 mg/L	0.005	0.03%
Mn 257.610†	1493337.4	1.911 mg/L		0.0019	1.911 mg/L	0.0019	0.10%
Mn 294.920†	737531.5	1.925 mg/L		0.0003	1.925 mg/L	0.0003	0.01%
Mo 202.031†	15321.4	0.6407 mg/L		0.00264	0.6407 mg/L	0.00264	0.41%
Na 589.592†	14914.2	2.827 mg/L		0.0020	2.827 mg/L	0.0020	0.07%
Ni 231.604†	31466.6	0.7041 mg/L		0.00205	0.7041 mg/L	0.00205	0.29%
P 214.914†	3879.1	2.464 mg/L		0.0056	2.464 mg/L	0.0056	0.23%
Pb 220.353†	7529.3	0.5249 mg/L		0.00105	0.5249 mg/L	0.00105	0.20%
Sb 206.836†	676.8	0.3039 mg/L		0.00040	0.3039 mg/L	0.00040	0.13%
Se 196.026†	1080.7	0.7351 mg/L		0.00552	0.7351 mg/L	0.00552	0.75%
Sn 189.927†	4960.4	0.7574 mg/L		0.01070	0.7574 mg/L	0.01070	1.41%
Sr 407.771†	451521.5	0.5268 mg/L		0.00246	0.5268 mg/L	0.00246	0.47%
Ti 337.279†	1423310.4	1.666 mg/L		0.0003	1.666 mg/L	0.0003	0.02%
Tl 190.801†	879.7	0.8225 mg/L		0.00490	0.8225 mg/L	0.00490	0.60%
V 292.402†	139237.0	0.6464 mg/L		0.00006	0.6464 mg/L	0.00006	0.01%
Zn 213.857†	235349.4	1.726 mg/L		0.0010	1.726 mg/L	0.0010	0.06%

Sequence No.: 142
Sample ID: 1307090-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 121
Date Collected: 7/5/2013 11:23:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-40.0	-32.7	-0.0168 mg/L	-0.0168 mg/L	23:25:12
1	Fe 234.349†	468362.4	459108.5	306.1 mg/L	306.1 mg/L	23:25:10
1	K 766.490†	15886.9	14755.4	8.216 mg/L	8.216 mg/L	23:25:12
1	Li 670.784†	4123.2	4277.4	0.1220 mg/L	0.1220 mg/L	23:25:12
1	Na 589.592†	6167.0	5565.6	1.126 mg/L	1.126 mg/L	23:25:12
1	Sr 407.771†	148331.0	145331.8	0.1698 mg/L	0.1698 mg/L	23:25:10
1	Y 371.029	2755437.5	2755437.5	1.02 mg/L		23:25:23
1	Ag 328.068†	667.3	-1211.1	0.0028 mg/L	0.0028 mg/L	23:25:25
1	Al 237.313†	740962.8	726764.1	80.44 mg/L	80.44 mg/L	23:25:23
1	As 188.979†	85.5	90.4	0.0698 mg/L	0.0698 mg/L	23:25:35
1	B 182.528†	34.8	43.7	0.0468 mg/L	0.0468 mg/L	23:25:35
1	Ba 233.527†	53085.4	52134.4	0.4573 mg/L	0.4573 mg/L	23:25:25
1	Be 313.107†	13574.6	14744.6	0.0061 mg/L	0.0061 mg/L	23:25:25
1	Ca 315.887†	2250985.2	2208418.5	24.11 mg/L	24.11 mg/L	23:25:23
1	Cd 228.802†	500.3	331.4	0.0062 mg/L	0.0062 mg/L	23:25:35
1	Co 228.616†	3444.7	3618.5	0.0650 mg/L	0.0650 mg/L	23:25:35
1	Cr 267.716†	34546.7	33298.4	0.2937 mg/L	0.2937 mg/L	23:25:25
1	Cu 324.752†	3253542.8	3184503.6	17.14 mg/L	17.14 mg/L	23:25:23
1	Mg 279.077†	372807.8	365443.9	29.48 mg/L	29.48 mg/L	23:25:25
1	Mn 257.610†	3510394.8	3425014.8	4.339 mg/L	4.339 mg/L	23:25:23
1	Mn 294.920†	1764352.1	1730850.0	4.515 mg/L	4.515 mg/L	23:25:23

1	Mo 202.031†	1222.0	1161.9	-0.0903 mg/L	-0.0903 mg/L	23:25:35
1	Ni 231.604†	10604.8	10237.3	0.2299 mg/L	0.2299 mg/L	23:25:35
1	P 214.914†	8699.0	8554.3	5.227 mg/L	5.227 mg/L	23:25:25
1	Pb 220.353†	71099.2	69513.3	4.874 mg/L	4.874 mg/L	23:25:25
1	Sb 206.836†	126.3	75.9	-0.0498 mg/L	-0.0498 mg/L	23:25:35
1	Se 196.026†	-64.7	-74.3	-0.1071 mg/L	-0.1071 mg/L	23:25:35
1	Sn 189.927†	105.3	73.9	0.0244 mg/L	0.0244 mg/L	23:25:35
1	Ti 337.279†	3039595.8	2980203.4	3.483 mg/L	3.483 mg/L	23:25:23
1	Tl 190.801†	-22.8	-17.6	-0.2003 mg/L	-0.2003 mg/L	23:25:35
1	V 292.402†	52625.9	51935.2	0.2322 mg/L	0.2322 mg/L	23:25:25
1	Zn 213.857†	820664.3	803316.1	5.876 mg/L	5.876 mg/L	23:25:23
2	B 249.677†	-34.8	-27.5	-0.0140 mg/L	-0.0140 mg/L	23:25:16
2	Fe 234.349†	472557.7	461422.1	307.7 mg/L	307.7 mg/L	23:25:14
2	K 766.490†	15901.9	14709.6	8.191 mg/L	8.191 mg/L	23:25:16
2	Li 670.784†	4091.5	4230.7	0.1207 mg/L	0.1207 mg/L	23:25:16
2	Na 589.592†	6074.7	5452.0	1.105 mg/L	1.105 mg/L	23:25:16
2	Sr 407.771†	149861.8	146262.0	0.1709 mg/L	0.1709 mg/L	23:25:14
2	Y 371.029	2766179.3	2766179.3	1.02 mg/L	1.02 mg/L	23:25:39
2	Ag 328.068†	728.8	-1153.5	0.0031 mg/L	0.0031 mg/L	23:25:41
2	Al 237.313†	743064.5	725995.7	80.36 mg/L	80.36 mg/L	23:25:39
2	As 188.979†	98.6	102.9	0.0789 mg/L	0.0789 mg/L	23:25:51
2	B 182.528†	28.0	36.9	0.0395 mg/L	0.0395 mg/L	23:25:51
2	Ba 233.527†	53548.6	52384.6	0.4595 mg/L	0.4595 mg/L	23:25:41
2	Be 313.107†	13556.4	14675.2	0.0060 mg/L	0.0060 mg/L	23:25:41
2	Ca 315.887†	2258730.4	2207412.7	24.09 mg/L	24.09 mg/L	23:25:39
2	Cd 228.802†	507.1	336.2	0.0063 mg/L	0.0063 mg/L	23:25:51
2	Co 228.616†	3450.5	3611.0	0.0648 mg/L	0.0648 mg/L	23:25:51
2	Cr 267.716†	34628.5	33246.7	0.2932 mg/L	0.2932 mg/L	23:25:41
2	Cu 324.752†	3266492.9	3184763.8	17.14 mg/L	17.14 mg/L	23:25:39
2	Mg 279.077†	375583.8	366735.3	29.59 mg/L	29.59 mg/L	23:25:41
2	Mn 257.610†	3521806.4	3422795.0	4.336 mg/L	4.336 mg/L	23:25:39
2	Mn 294.920†	1770480.5	1730117.8	4.513 mg/L	4.513 mg/L	23:25:39
2	Mo 202.031†	1220.3	1155.6	-0.0908 mg/L	-0.0908 mg/L	23:25:51
2	Ni 231.604†	10601.2	10193.5	0.2289 mg/L	0.2289 mg/L	23:25:51
2	P 214.914†	8875.5	8693.6	5.314 mg/L	5.314 mg/L	23:25:41
2	Pb 220.353†	71543.3	69676.3	4.885 mg/L	4.885 mg/L	23:25:41
2	Sb 206.836†	123.9	73.1	-0.0516 mg/L	-0.0516 mg/L	23:25:51
2	Se 196.026†	-78.9	-88.0	-0.1168 mg/L	-0.1168 mg/L	23:25:51
2	Sn 189.927†	76.2	45.1	0.0202 mg/L	0.0202 mg/L	23:25:51
2	Ti 337.279†	3048869.9	2977688.5	3.480 mg/L	3.480 mg/L	23:25:39
2	Tl 190.801†	-14.3	-9.1	-0.1930 mg/L	-0.1930 mg/L	23:25:51
2	V 292.402†	52792.9	51897.9	0.2320 mg/L	0.2320 mg/L	23:25:41
2	Zn 213.857†	823200.9	802669.0	5.871 mg/L	5.871 mg/L	23:25:39

Mean Data: 1307090-01

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2760808.4	1.02	mg/L	0.003				
Ag 328.068†	-1182.3	0.0029	mg/L	0.00025	0.0029	mg/L	0.00025	8.58%
Al 237.313†	726379.9	80.40	mg/L	0.060	80.40	mg/L	0.060	0.07%
As 188.979†	96.7	0.0743	mg/L	0.00642	0.0743	mg/L	0.00642	8.64%
B 249.677†	-30.1	-0.0154	mg/L	0.00204	-0.0154	mg/L	0.00204	13.26%
B 182.528†	40.3	0.0432	mg/L	0.00512	0.0432	mg/L	0.00512	11.86%
Ba 233.527†	52259.5	0.4584	mg/L	0.00154	0.4584	mg/L	0.00154	0.34%
Be 313.107†	14709.9	0.0060	mg/L	0.00002	0.0060	mg/L	0.00002	0.35%
Ca 315.887†	2207915.6	24.10	mg/L	0.008	24.10	mg/L	0.008	0.03%
Cd 228.802†	333.7	0.0062	mg/L	0.00008	0.0062	mg/L	0.00008	1.37%
Co 228.616†	3614.7	0.0649	mg/L	0.00010	0.0649	mg/L	0.00010	0.16%
Cr 267.716†	33272.6	0.2935	mg/L	0.00032	0.2935	mg/L	0.00032	0.11%
Cu 324.752†	3184633.7	17.14	mg/L	0.001	17.14	mg/L	0.001	0.01%
Fe 234.349†	460265.3	306.9	mg/L	1.09	306.9	mg/L	1.09	0.36%
K 766.490†	14732.5	8.203	mg/L	0.0176	8.203	mg/L	0.0176	0.22%
Li 670.784†	4254.0	0.1214	mg/L	0.00091	0.1214	mg/L	0.00091	0.75%
Mg 279.077†	366089.6	29.53	mg/L	0.074	29.53	mg/L	0.074	0.25%
Mn 257.610†	3423904.9	4.337	mg/L	0.0023	4.337	mg/L	0.0023	0.05%
Mn 294.920†	1730483.9	4.514	mg/L	0.0014	4.514	mg/L	0.0014	0.03%
Mo 202.031†	1158.8	-0.0906	mg/L	0.00036	-0.0906	mg/L	0.00036	0.40%
Na 589.592†	5508.8	1.116	mg/L	0.0146	1.116	mg/L	0.0146	1.31%
Ni 231.604†	10215.4	0.2294	mg/L	0.00069	0.2294	mg/L	0.00069	0.30%
P 214.914†	8624.0	5.271	mg/L	0.0616	5.271	mg/L	0.0616	1.17%
Pb 220.353†	69594.8	4.880	mg/L	0.0081	4.880	mg/L	0.0081	0.17%
Sb 206.836†	74.5	-0.0507	mg/L	0.00124	-0.0507	mg/L	0.00124	2.44%

Se 196.026†	-81.2	-0.1120 mg/L	0.00684	-0.1120 mg/L	0.00684	6.11%
Sn 189.927†	59.5	0.0223 mg/L	0.00302	0.0223 mg/L	0.00302	13.55%
Sr 407.771†	145796.9	0.1704 mg/L	0.00077	0.1704 mg/L	0.00077	0.45%
Ti 337.279†	2978946.0	3.482 mg/L	0.0021	3.482 mg/L	0.0021	0.06%
Tl 190.801†	-13.3	-0.1967 mg/L	0.00513	-0.1967 mg/L	0.00513	2.61%
V 292.402†	51916.5	0.2321 mg/L	0.00012	0.2321 mg/L	0.00012	0.05%
Zn 213.857†	802992.6	5.874 mg/L	0.0034	5.874 mg/L	0.0034	0.06%

Sequence No.: 143
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/5/2013 11:29:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	831.6	873.3	0.4880 mg/L	0.4880 mg/L	23:30:53
1	Fe 234.349†	3545.8	3689.3	2.456 mg/L	2.456 mg/L	23:30:53
1	K 766.490†	44705.1	45782.5	25.13 mg/L	25.13 mg/L	23:30:43
1	Li 670.784†	17680.8	18666.0	0.5175 mg/L	0.5175 mg/L	23:30:43
1	Na 589.592†	134091.3	139296.3	25.46 mg/L	25.46 mg/L	23:30:43
1	Sr 407.771†	40750.8	42407.8	0.0498 mg/L	0.0498 mg/L	23:30:43
1	Y 371.029	2591183.9	2591183.9	0.959 mg/L		23:31:11
1	Ag 328.068†	43823.7	43816.4	0.2447 mg/L	0.2447 mg/L	23:31:11
1	Al 237.313†	20660.3	21966.6	2.446 mg/L	2.446 mg/L	23:31:21
1	As 188.979†	627.2	660.5	0.4844 mg/L	0.4844 mg/L	23:31:21
1	B 182.528†	426.9	454.5	0.4878 mg/L	0.4878 mg/L	23:31:21
1	Ba 233.527†	53001.0	55345.0	0.4853 mg/L	0.4853 mg/L	23:31:11
1	Be 313.107†	104206.9	110062.7	0.0487 mg/L	0.0487 mg/L	23:31:11
1	Ca 315.887†	411463.2	430782.5	4.732 mg/L	4.732 mg/L	23:31:11
1	Cd 228.802†	7665.3	7831.2	0.2455 mg/L	0.2455 mg/L	23:31:21
1	Co 228.616†	23061.3	24280.8	0.4850 mg/L	0.4850 mg/L	23:31:21
1	Cr 267.716†	53060.5	54743.7	0.4809 mg/L	0.4809 mg/L	23:31:11
1	Cu 324.752†	91356.3	90426.5	0.4911 mg/L	0.4911 mg/L	23:31:11
1	Mg 279.077†	56111.9	58487.3	4.739 mg/L	4.739 mg/L	23:31:11
1	Mn 257.610†	377449.2	377378.4	0.4866 mg/L	0.4866 mg/L	23:31:11
1	Mn 294.920†	175723.1	184505.1	0.4827 mg/L	0.4827 mg/L	23:31:11
1	Mo 202.031†	10994.3	11424.5	0.4848 mg/L	0.4848 mg/L	23:31:21
1	Ni 231.604†	20788.2	21511.4	0.4819 mg/L	0.4819 mg/L	23:31:11
1	P 214.914†	7218.9	7552.1	4.768 mg/L	4.768 mg/L	23:31:21
1	Pb 220.353†	6779.0	6884.3	0.4862 mg/L	0.4862 mg/L	23:31:21
1	Sb 206.836†	1033.7	1029.7	0.4856 mg/L	0.4856 mg/L	23:31:21
1	Se 196.026†	1338.7	1384.6	0.9535 mg/L	0.9535 mg/L	23:31:21
1	Sn 189.927†	3187.5	3293.4	0.4890 mg/L	0.4890 mg/L	23:31:21
1	Ti 337.279†	395913.5	413317.8	0.4873 mg/L	0.4873 mg/L	23:31:11
1	Tl 190.801†	469.1	493.8	0.4777 mg/L	0.4777 mg/L	23:31:21
1	V 292.402†	101383.2	106029.6	0.4942 mg/L	0.4942 mg/L	23:31:11
1	Zn 213.857†	64351.7	65934.4	0.4838 mg/L	0.4838 mg/L	23:31:11
2	B 249.677†	843.2	897.6	0.5015 mg/L	0.5015 mg/L	23:31:05
2	Fe 234.349†	3529.9	3723.9	2.479 mg/L	2.479 mg/L	23:31:05
2	K 766.490†	44433.7	46143.5	25.32 mg/L	25.32 mg/L	23:30:55
2	Li 670.784†	17315.0	18535.5	0.5139 mg/L	0.5139 mg/L	23:30:55
2	Na 589.592†	132981.7	140066.8	25.60 mg/L	25.60 mg/L	23:30:55
2	Sr 407.771†	40422.0	42650.9	0.0501 mg/L	0.0501 mg/L	23:30:55
2	Y 371.029	2555653.9	2555653.9	0.946 mg/L		23:31:25
2	Ag 328.068†	43401.3	44005.1	0.2458 mg/L	0.2458 mg/L	23:31:25
2	Al 237.313†	20329.7	21916.6	2.441 mg/L	2.441 mg/L	23:31:35
2	As 188.979†	616.6	658.4	0.4829 mg/L	0.4829 mg/L	23:31:35
2	B 182.528†	425.3	459.0	0.4926 mg/L	0.4926 mg/L	23:31:35
2	Ba 233.527†	52219.8	55287.5	0.4848 mg/L	0.4848 mg/L	23:31:25
2	Be 313.107†	102830.3	110117.9	0.0487 mg/L	0.0487 mg/L	23:31:25
2	Ca 315.887†	404838.9	429744.3	4.721 mg/L	4.721 mg/L	23:31:25
2	Cd 228.802†	7566.9	7838.3	0.2457 mg/L	0.2457 mg/L	23:31:35
2	Co 228.616†	22695.9	24228.7	0.4840 mg/L	0.4840 mg/L	23:31:35
2	Cr 267.716†	52177.6	54579.6	0.4795 mg/L	0.4795 mg/L	23:31:25
2	Cu 324.752†	90107.5	90430.5	0.4911 mg/L	0.4911 mg/L	23:31:25
2	Mg 279.077†	55062.8	58191.7	4.715 mg/L	4.715 mg/L	23:31:25
2	Mn 257.610†	371883.4	376966.0	0.4861 mg/L	0.4861 mg/L	23:31:25
2	Mn 294.920†	173394.4	184590.5	0.4829 mg/L	0.4829 mg/L	23:31:25
2	Mo 202.031†	10772.8	11349.7	0.4816 mg/L	0.4816 mg/L	23:31:35

2	Ni 231.604†	20488.0	21495.5	0.4815 mg/L	0.4815 mg/L	23:31:25
2	P 214.914†	7103.9	7535.1	4.758 mg/L	4.758 mg/L	23:31:35
2	Pb 220.353†	6661.3	6858.1	0.4844 mg/L	0.4844 mg/L	23:31:35
2	Sb 206.836†	1017.9	1027.9	0.4848 mg/L	0.4848 mg/L	23:31:35
2	Se 196.026†	1332.7	1397.6	0.9625 mg/L	0.9625 mg/L	23:31:35
2	Sn 189.927†	3125.2	3273.6	0.4861 mg/L	0.4861 mg/L	23:31:35
2	Ti 337.279†	389695.6	412483.7	0.4863 mg/L	0.4863 mg/L	23:31:25
2	Tl 190.801†	468.6	500.1	0.4837 mg/L	0.4837 mg/L	23:31:35
2	V 292.402†	99542.2	105553.1	0.4920 mg/L	0.4920 mg/L	23:31:25
2	Zn 213.857†	63236.1	65687.9	0.4819 mg/L	0.4819 mg/L	23:31:25

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2573418.9	0.953 mg/L	0.0093			0.98%
Ag 328.068†	43910.8	0.2453 mg/L	0.00074	0.2453 mg/L	0.00074	0.30%
QC value within limits for Ag 328.068 Recovery = 98.11%						
Al 237.313†	21941.6	2.443 mg/L	0.0039	2.443 mg/L	0.0039	0.16%
QC value within limits for Al 237.313 Recovery = 97.74%						
As 188.979†	659.4	0.4836 mg/L	0.00108	0.4836 mg/L	0.00108	0.22%
QC value within limits for As 188.979 Recovery = 96.72%						
B 249.677†	885.5	0.4947 mg/L	0.00956	0.4947 mg/L	0.00956	1.93%
QC value within limits for B 249.677 Recovery = 98.95%						
B 182.528†	456.8	0.4902 mg/L	0.00339	0.4902 mg/L	0.00339	0.69%
QC value within limits for B 182.528 Recovery = 98.04%						
Ba 233.527†	55316.2	0.4851 mg/L	0.00035	0.4851 mg/L	0.00035	0.07%
QC value within limits for Ba 233.527 Recovery = 97.01%						
Be 313.107†	110090.3	0.0487 mg/L	0.00002	0.0487 mg/L	0.00002	0.04%
QC value within limits for Be 313.107 Recovery = 97.46%						
Ca 315.887†	430263.4	4.727 mg/L	0.0080	4.727 mg/L	0.0080	0.17%
QC value within limits for Ca 315.887 Recovery = 94.53%						
Cd 228.802†	7834.7	0.2456 mg/L	0.00016	0.2456 mg/L	0.00016	0.06%
QC value within limits for Cd 228.802 Recovery = 98.25%						
Co 228.616†	24254.8	0.4845 mg/L	0.00074	0.4845 mg/L	0.00074	0.15%
QC value within limits for Co 228.616 Recovery = 96.90%						
Cr 267.716†	54661.6	0.4802 mg/L	0.00101	0.4802 mg/L	0.00101	0.21%
QC value within limits for Cr 267.716 Recovery = 96.05%						
Cu 324.752†	90428.5	0.4911 mg/L	0.00002	0.4911 mg/L	0.00002	0.00%
QC value within limits for Cu 324.752 Recovery = 98.23%						
Fe 234.349†	3706.6	2.468 mg/L	0.0163	2.468 mg/L	0.0163	0.66%
QC value within limits for Fe 234.349 Recovery = 98.70%						
K 766.490†	45963.0	25.22 mg/L	0.139	25.22 mg/L	0.139	0.55%
QC value within limits for K 766.490 Recovery = 100.89%						
Li 670.784†	18600.8	0.5157 mg/L	0.00254	0.5157 mg/L	0.00254	0.49%
QC value within limits for Li 670.784 Recovery = 103.14%						
Mg 279.077†	58339.5	4.727 mg/L	0.0168	4.727 mg/L	0.0168	0.36%
QC value within limits for Mg 279.077 Recovery = 94.54%						
Mn 257.610†	377172.2	0.4864 mg/L	0.00038	0.4864 mg/L	0.00038	0.08%
QC value within limits for Mn 257.610 Recovery = 97.28%						
Mn 294.920†	184547.8	0.4828 mg/L	0.00016	0.4828 mg/L	0.00016	0.03%
QC value within limits for Mn 294.920 Recovery = 96.56%						
Mo 202.031†	11387.1	0.4832 mg/L	0.00225	0.4832 mg/L	0.00225	0.47%
QC value within limits for Mo 202.031 Recovery = 96.65%						
Na 589.592†	139681.5	25.53 mg/L	0.099	25.53 mg/L	0.099	0.39%
QC value within limits for Na 589.592 Recovery = 102.11%						
Ni 231.604†	21503.4	0.4817 mg/L	0.00026	0.4817 mg/L	0.00026	0.05%
QC value within limits for Ni 231.604 Recovery = 96.34%						
P 214.914†	7543.6	4.763 mg/L	0.0075	4.763 mg/L	0.0075	0.16%
QC value within limits for P 214.914 Recovery = 95.26%						
Pb 220.353†	6871.2	0.4853 mg/L	0.00131	0.4853 mg/L	0.00131	0.27%
QC value within limits for Pb 220.353 Recovery = 97.06%						
Sb 206.836†	1028.8	0.4852 mg/L	0.00059	0.4852 mg/L	0.00059	0.12%
QC value within limits for Sb 206.836 Recovery = 97.04%						
Se 196.026†	1391.1	0.9580 mg/L	0.00634	0.9580 mg/L	0.00634	0.66%
QC value within limits for Se 196.026 Recovery = 95.80%						
Sn 189.927†	3283.5	0.4875 mg/L	0.00207	0.4875 mg/L	0.00207	0.42%
QC value within limits for Sn 189.927 Recovery = 97.51%						
Sr 407.771†	42529.4	0.0500 mg/L	0.00020	0.0500 mg/L	0.00020	0.40%
QC value within limits for Sr 407.771 Recovery = 99.91%						
Ti 337.279†	412900.8	0.4868 mg/L	0.00069	0.4868 mg/L	0.00069	0.14%
QC value within limits for Ti 337.279 Recovery = 97.37%						
Tl 190.801†	496.9	0.4807 mg/L	0.00429	0.4807 mg/L	0.00429	0.89%

QC value within limits for Tl 190.801 Recovery = 96.14%
V 292.402† 105791.3 0.4931 mg/L 0.00157 0.4931 mg/L 0.00157 0.32%
QC value within limits for V 292.402 Recovery = 98.62%
Zn 213.857† 65811.2 0.4828 mg/L 0.00128 0.4828 mg/L 0.00128 0.27%
QC value within limits for Zn 213.857 Recovery = 96.57%
All analyte(s) passed QC.

Sequence No.: 144 Autosampler Location: 1
Sample ID: CCB1 Date Collected: 7/5/2013 11:33:13 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Conc. Units	Sample	Analysis Time
1	B 249.677†	-3.5	2.8	0.0028 mg/L		0.0028 mg/L		23:35:05
1	Fe 234.349†	20.0	14.1	0.0200 mg/L		0.0200 mg/L		23:35:05
1	K 766.490†	852.2	73.1	0.2142 mg/L		0.2142 mg/L		23:34:55
1	Li 670.784†	-252.9	-28.8	0.0037 mg/L		0.0037 mg/L		23:34:55
1	Na 589.592†	474.0	15.9	0.1161 mg/L		0.1161 mg/L		23:34:55
1	Sr 407.771†	0.8	-69.7	0.0003 mg/L		0.0003 mg/L		23:34:55
1	Y 371.029	2583435.5	2583435.5	0.956 mg/L				23:35:21
1	Ag 328.068†	1658.0	-131.7	0.0010 mg/L		0.0010 mg/L		23:35:24
1	Al 237.313†	-363.6	50.3	0.0189 mg/L		0.0189 mg/L		23:35:24
1	As 188.979†	-4.2	2.2	0.0060 mg/L		0.0060 mg/L		23:35:34
1	B 182.528†	-4.1	5.2	0.0055 mg/L		0.0055 mg/L		23:35:34
1	Ba 233.527†	-88.8	4.2	0.0032 mg/L		0.0032 mg/L		23:35:34
1	Be 313.107†	-1236.9	144.8	0.0004 mg/L		0.0004 mg/L		23:35:24
1	Ca 315.887†	-1819.8	-27.1	0.0356 mg/L		0.0356 mg/L		23:35:24
1	Cd 228.802†	151.3	-0.8	0.0010 mg/L		0.0010 mg/L		23:35:34
1	Co 228.616†	-209.7	22.5	0.0005 mg/L		0.0005 mg/L		23:35:34
1	Cr 267.716†	558.9	18.1	0.0035 mg/L		0.0035 mg/L		23:35:24
1	Cu 324.752†	4862.2	280.7	0.0059 mg/L		0.0059 mg/L		23:35:24
1	Mg 279.077†	66.4	65.9	0.0305 mg/L		0.0305 mg/L		23:35:24
1	Mn 257.610†	14983.2	-407.3	0.0012 mg/L		0.0012 mg/L		23:35:24
1	Mn 294.920†	-979.2	308.5	0.0023 mg/L		0.0023 mg/L		23:35:24
1	Mo 202.031†	77.4	45.0	0.0044 mg/L		0.0044 mg/L		23:35:34
1	Ni 231.604†	182.6	32.9	0.0024 mg/L		0.0024 mg/L		23:35:24
1	P 214.914†	-18.2	8.1	0.0519 mg/L		0.0519 mg/L		23:35:34
1	Pb 220.353†	168.8	-5.6	-0.0005 mg/L		-0.0005 mg/L		23:35:34
1	Sb 206.836†	49.6	4.0	0.0061 mg/L		0.0061 mg/L		23:35:34
1	Se 196.026†	19.7	9.7	0.0117 mg/L		0.0117 mg/L		23:35:34
1	Sn 189.927†	39.5	12.0	0.0004 mg/L		0.0004 mg/L		23:35:34
1	Ti 337.279†	-578.9	14.5	0.0049 mg/L		0.0049 mg/L		23:35:24
1	Tl 190.801†	-3.5	1.1	0.0022 mg/L		0.0022 mg/L		23:35:34
1	V 292.402†	-289.7	45.4	0.0048 mg/L		0.0048 mg/L		23:35:24
1	Zn 213.857†	1319.0	233.6	0.0044 mg/L		0.0044 mg/L		23:35:34
2	B 249.677†	-6.8	-0.6	0.0009 mg/L		0.0009 mg/L		23:35:18
2	Fe 234.349†	8.0	1.6	0.0117 mg/L		0.0117 mg/L		23:35:18
2	K 766.490†	874.4	100.6	0.2291 mg/L		0.2291 mg/L		23:35:08
2	Li 670.784†	-275.0	-53.2	0.0030 mg/L		0.0030 mg/L		23:35:08
2	Na 589.592†	458.9	2.2	0.1136 mg/L		0.1136 mg/L		23:35:08
2	Sr 407.771†	118.4	53.7	0.0004 mg/L		0.0004 mg/L		23:35:08
2	Y 371.029	2571662.6	2571662.6	0.952 mg/L				23:35:36
2	Ag 328.068†	1654.5	-127.4	0.0011 mg/L		0.0011 mg/L		23:35:38
2	Al 237.313†	-233.8	184.8	0.0338 mg/L		0.0338 mg/L		23:35:38
2	As 188.979†	-1.9	4.7	0.0078 mg/L		0.0078 mg/L		23:35:49
2	B 182.528†	-7.7	1.5	0.0015 mg/L		0.0015 mg/L		23:35:49
2	Ba 233.527†	-94.2	-1.9	0.0031 mg/L		0.0031 mg/L		23:35:49
2	Be 313.107†	-1258.7	116.0	0.0004 mg/L		0.0004 mg/L		23:35:38
2	Ca 315.887†	-1706.8	82.9	0.0368 mg/L		0.0368 mg/L		23:35:38
2	Cd 228.802†	152.0	0.6	0.0010 mg/L		0.0010 mg/L		23:35:49
2	Co 228.616†	-214.6	16.3	0.0003 mg/L		0.0003 mg/L		23:35:49
2	Cr 267.716†	446.0	-97.8	0.0025 mg/L		0.0025 mg/L		23:35:38
2	Cu 324.752†	4960.6	407.3	0.0066 mg/L		0.0066 mg/L		23:35:38
2	Mg 279.077†	-12.4	-16.4	0.0239 mg/L		0.0239 mg/L		23:35:38
2	Mn 257.610†	15062.0	-252.8	0.0014 mg/L		0.0014 mg/L		23:35:38
2	Mn 294.920†	-1023.3	257.6	0.0022 mg/L		0.0022 mg/L		23:35:38
2	Mo 202.031†	66.1	33.4	0.0039 mg/L		0.0039 mg/L		23:35:49
2	Ni 231.604†	152.8	2.4	0.0017 mg/L		0.0017 mg/L		23:35:38

2	P 214.914†	-13.2	13.2	0.0551 mg/L	0.0551 mg/L	23:35:49
2	Pb 220.353†	189.4	16.8	0.0010 mg/L	0.0010 mg/L	23:35:49
2	Sb 206.836†	45.2	-0.4	0.0041 mg/L	0.0041 mg/L	23:35:49
2	Se 196.026†	11.3	0.9	0.0057 mg/L	0.0057 mg/L	23:35:49
2	Sn 189.927†	24.3	-3.8	-0.0019 mg/L	-0.0019 mg/L	23:35:49
2	Ti 337.279†	-404.0	195.5	0.0051 mg/L	0.0051 mg/L	23:35:38
2	Tl 190.801†	-10.0	-5.7	-0.0044 mg/L	-0.0044 mg/L	23:35:49
2	V 292.402†	-322.4	9.7	0.0046 mg/L	0.0046 mg/L	23:35:38
2	Zn 213.857†	1295.3	215.0	0.0043 mg/L	0.0043 mg/L	23:35:49

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2577549.0	0.954 mg/L		0.0031			0.32%
Ag 328.068†	-129.5	0.0011 mg/L		0.00002	0.0011 mg/L	0.00002	1.54%
QC value within limits for Ag 328.068			Recovery = Not calculated				
Al 237.313†	117.5	0.0264 mg/L		0.01053	0.0264 mg/L	0.01053	39.94%
QC value within limits for Al 237.313			Recovery = Not calculated				
As 188.979†	3.4	0.0069 mg/L		0.00127	0.0069 mg/L	0.00127	18.49%
QC value within limits for As 188.979			Recovery = Not calculated				
B 249.677†	1.1	0.0019 mg/L		0.00134	0.0019 mg/L	0.00134	71.36%
QC value within limits for B 249.677			Recovery = Not calculated				
B 182.528†	3.4	0.0035 mg/L		0.00284	0.0035 mg/L	0.00284	80.99%
QC value within limits for B 182.528			Recovery = Not calculated				
Ba 233.527†	1.1	0.0031 mg/L		0.00004	0.0031 mg/L	0.00004	1.21%
QC value greater than the upper limit for Ba 233.527			Recovery = Not calculated				
Be 313.107†	130.4	0.0004 mg/L		0.00001	0.0004 mg/L	0.00001	2.08%
QC value within limits for Be 313.107			Recovery = Not calculated				
Ca 315.887†	27.9	0.0362 mg/L		0.00085	0.0362 mg/L	0.00085	2.34%
QC value greater than the upper limit for Ca 315.887			Recovery = Not calculated				
Cd 228.802†	-0.1	0.0010 mg/L		0.00003	0.0010 mg/L	0.00003	3.07%
QC value within limits for Cd 228.802			Recovery = Not calculated				
Co 228.616†	19.4	0.0004 mg/L		0.00009	0.0004 mg/L	0.00009	22.21%
QC value within limits for Co 228.616			Recovery = Not calculated				
Cr 267.716†	-39.8	0.0030 mg/L		0.00071	0.0030 mg/L	0.00071	23.48%
QC value within limits for Cr 267.716			Recovery = Not calculated				
Cu 324.752†	344.0	0.0063 mg/L		0.00048	0.0063 mg/L	0.00048	7.70%
QC value within limits for Cu 324.752			Recovery = Not calculated				
Fe 234.349†	7.9	0.0158 mg/L		0.00588	0.0158 mg/L	0.00588	37.13%
QC value within limits for Fe 234.349			Recovery = Not calculated				
K 766.490†	86.8	0.2216 mg/L		0.01058	0.2216 mg/L	0.01058	4.78%
QC value greater than the upper limit for K 766.490			Recovery = Not calculated				
Li 670.784†	-41.0	0.0033 mg/L		0.00047	0.0033 mg/L	0.00047	14.28%
QC value within limits for Li 670.784			Recovery = Not calculated				
Mg 279.077†	24.7	0.0272 mg/L		0.00469	0.0272 mg/L	0.00469	17.26%
QC value greater than the upper limit for Mg 279.077			Recovery = Not calculated				
Mn 257.610†	-330.0	0.0013 mg/L		0.00014	0.0013 mg/L	0.00014	11.22%
QC value within limits for Mn 257.610			Recovery = Not calculated				
Mn 294.920†	283.1	0.0023 mg/L		0.00009	0.0023 mg/L	0.00009	4.17%
QC value within limits for Mn 294.920			Recovery = Not calculated				
Mo 202.031†	39.2	0.0042 mg/L		0.00035	0.0042 mg/L	0.00035	8.40%
QC value greater than the upper limit for Mo 202.031			Recovery = Not calculated				
Na 589.592†	9.0	0.1149 mg/L		0.00175	0.1149 mg/L	0.00175	1.52%
QC value within limits for Na 589.592			Recovery = Not calculated				
Ni 231.604†	17.7	0.0020 mg/L		0.00048	0.0020 mg/L	0.00048	23.77%
QC value greater than the upper limit for Ni 231.604			Recovery = Not calculated				
P 214.914†	10.6	0.0535 mg/L		0.00226	0.0535 mg/L	0.00226	4.23%
QC value greater than the upper limit for P 214.914			Recovery = Not calculated				
Pb 220.353†	5.6	0.0003 mg/L		0.00111	0.0003 mg/L	0.00111	445.17%
QC value within limits for Pb 220.353			Recovery = Not calculated				
Sb 206.836†	1.8	0.0051 mg/L		0.00144	0.0051 mg/L	0.00144	28.37%
QC value within limits for Sb 206.836			Recovery = Not calculated				
Se 196.026†	5.3	0.0087 mg/L		0.00427	0.0087 mg/L	0.00427	49.11%
QC value within limits for Se 196.026			Recovery = Not calculated				
Sn 189.927†	4.1	-0.0008 mg/L		0.00165	-0.0008 mg/L	0.00165	209.71%
QC value within limits for Sn 189.927			Recovery = Not calculated				
Sr 407.771†	-8.0	0.0004 mg/L		0.00010	0.0004 mg/L	0.00010	28.41%
QC value within limits for Sr 407.771			Recovery = Not calculated				
Ti 337.279†	105.0	0.0050 mg/L		0.00015	0.0050 mg/L	0.00015	2.97%
QC value greater than the upper limit for Ti 337.279			Recovery = Not calculated				
Tl 190.801†	-2.3	-0.0011 mg/L		0.00469	-0.0011 mg/L	0.00469	425.99%
QC value within limits for Tl 190.801			Recovery = Not calculated				

V 292.402† 27.5 0.0047 mg/L 0.00012 0.0047 mg/L 0.00012 2.61%
 QC value greater than the upper limit for V 292.402 Recovery = Not calculated
 Zn 213.857† 224.3 0.0043 mg/L 0.00009 0.0043 mg/L 0.00009 2.17%
 QC value within limits for Zn 213.857 Recovery = Not calculated
 QC Failed. Continue with analysis.

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Sequence No.: 145	Autosampler Location: 122
Sample ID: 1307090-02	Date Collected: 7/5/2013 11:37:26 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: 1307090-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-36.6	-30.4	-0.0155 mg/L		-0.0155 mg/L	23:39:06
1	Fe 234.349†	437380.7	440242.4	293.6 mg/L		293.6 mg/L	23:39:04
1	K 766.490†	15832.0	15117.9	8.413 mg/L		8.413 mg/L	23:39:06
1	Li 670.784†	4129.9	4392.6	0.1252 mg/L		0.1252 mg/L	23:39:06
1	Na 589.592†	5937.5	5496.7	1.113 mg/L		1.113 mg/L	23:39:06
1	Sr 407.771†	144900.8	145780.6	0.1703 mg/L		0.1703 mg/L	23:39:04
1	Y 371.029	2683436.8	2683436.8	0.993 mg/L			23:39:17
1	Ag 328.068†	833.0	-1026.7	0.0035 mg/L		0.0035 mg/L	23:39:19
1	Al 237.313†	700178.2	705200.6	78.06 mg/L		78.06 mg/L	23:39:17
1	As 188.979†	76.1	83.3	0.0646 mg/L		0.0646 mg/L	23:39:29
1	B 182.528†	34.5	44.3	0.0474 mg/L		0.0474 mg/L	23:39:29
1	Ba 233.527†	60983.1	61480.1	0.5388 mg/L		0.5388 mg/L	23:39:19
1	Be 313.107†	12416.8	13936.3	0.0059 mg/L		0.0059 mg/L	23:39:19
1	Ca 315.887†	2102254.1	2117916.8	23.12 mg/L		23.12 mg/L	23:39:17
1	Cd 228.802†	444.3	288.2	0.0050 mg/L		0.0050 mg/L	23:39:29
1	Co 228.616†	3230.6	3493.6	0.0640 mg/L		0.0640 mg/L	23:39:29
1	Cr 267.716†	31839.3	31481.9	0.2778 mg/L		0.2778 mg/L	23:39:19
1	Cu 324.752†	3103415.6	3118965.8	16.78 mg/L		16.78 mg/L	23:39:17
1	Mg 279.077†	329109.9	331264.9	26.73 mg/L		26.73 mg/L	23:39:19
1	Mn 257.610†	4829725.8	4845327.9	6.169 mg/L		6.169 mg/L	23:39:17
1	Mn 294.920†	2417571.6	2434759.0	6.351 mg/L		6.351 mg/L	23:39:17
1	Mo 202.031†	1269.9	1242.3	-0.0830 mg/L		-0.0830 mg/L	23:39:29
1	Ni 231.604†	9801.7	9707.9	0.2181 mg/L		0.2181 mg/L	23:39:29
1	P 214.914†	8245.1	8326.2	5.088 mg/L		5.088 mg/L	23:39:19
1	Pb 220.353†	49265.9	49406.8	3.458 mg/L		3.458 mg/L	23:39:19
1	Sb 206.836†	110.2	63.1	-0.0520 mg/L		-0.0520 mg/L	23:39:29
1	Se 196.026†	-68.8	-80.1	-0.1086 mg/L		-0.1086 mg/L	23:39:29
1	Sn 189.927†	16.9	-12.3	0.0111 mg/L		0.0111 mg/L	23:39:29
1	Ti 337.279†	2336864.7	2352810.3	2.751 mg/L		2.751 mg/L	23:39:17
1	Tl 190.801†	-25.4	-20.8	-0.1958 mg/L		-0.1958 mg/L	23:39:29
1	V 292.402†	47754.4	48415.9	0.2180 mg/L		0.2180 mg/L	23:39:19
1	Zn 213.857†	718191.9	721756.5	5.277 mg/L		5.277 mg/L	23:39:17
2	B 249.677†	-30.8	-24.4	-0.0122 mg/L		-0.0122 mg/L	23:39:11
2	Fe 234.349†	437737.9	438997.0	292.7 mg/L		292.7 mg/L	23:39:09
2	K 766.490†	15920.7	15148.8	8.430 mg/L		8.430 mg/L	23:39:11
2	Li 670.784†	3988.3	4235.4	0.1209 mg/L		0.1209 mg/L	23:39:11
2	Na 589.592†	6026.6	5564.3	1.126 mg/L		1.126 mg/L	23:39:11
2	Sr 407.771†	145046.3	145395.1	0.1699 mg/L		0.1699 mg/L	23:39:09
2	Y 371.029	2693247.0	2693247.0	0.997 mg/L			23:39:33
2	Ag 328.068†	710.3	-1152.8	0.0028 mg/L		0.0028 mg/L	23:39:35
2	Al 237.313†	703462.7	705927.4	78.14 mg/L		78.14 mg/L	23:39:33
2	As 188.979†	81.5	88.3	0.0683 mg/L		0.0683 mg/L	23:39:46
2	B 182.528†	30.4	40.0	0.0429 mg/L		0.0429 mg/L	23:39:46
2	Ba 233.527†	61654.9	61930.2	0.5427 mg/L		0.5427 mg/L	23:39:35
2	Be 313.107†	12510.3	13984.5	0.0059 mg/L		0.0059 mg/L	23:39:35
2	Ca 315.887†	2114234.5	2122224.2	23.17 mg/L		23.17 mg/L	23:39:33
2	Cd 228.802†	437.6	279.8	0.0048 mg/L		0.0048 mg/L	23:39:46
2	Co 228.616†	3228.3	3479.4	0.0638 mg/L		0.0638 mg/L	23:39:46
2	Cr 267.716†	31992.5	31518.8	0.2782 mg/L		0.2782 mg/L	23:39:35
2	Cu 324.752†	3123390.5	3127620.1	16.83 mg/L		16.83 mg/L	23:39:33
2	Mg 279.077†	331980.3	332936.9	26.86 mg/L		26.86 mg/L	23:39:35
2	Mn 257.610†	4847735.6	4845682.1	6.170 mg/L		6.170 mg/L	23:39:33
2	Mn 294.920†	2426886.8	2435237.3	6.352 mg/L		6.352 mg/L	23:39:33
2	Mo 202.031†	1300.3	1268.1	-0.0821 mg/L		-0.0821 mg/L	23:39:46
2	Ni 231.604†	9889.7	9760.2	0.2193 mg/L		0.2193 mg/L	23:39:46
2	P 214.914†	8333.6	8384.8	5.124 mg/L		5.124 mg/L	23:39:35

2	Pb 220.353†	49757.2	49719.0	3.480 mg/L	3.480 mg/L	23:39:35
2	Sb 206.836†	128.3	80.9	-0.0435 mg/L	-0.0435 mg/L	23:39:46
2	Se 196.026†	-64.0	-75.1	-0.1050 mg/L	-0.1050 mg/L	23:39:46
2	Sn 189.927†	55.7	26.5	0.0168 mg/L	0.0168 mg/L	23:39:46
2	Ti 337.279†	2346759.9	2354166.2	2.753 mg/L	2.753 mg/L	23:39:33
2	Tl 190.801†	-19.7	-15.0	-0.1897 mg/L	-0.1897 mg/L	23:39:46
2	V 292.402†	48168.0	48655.5	0.2191 mg/L	0.2191 mg/L	23:39:35
2	Zn 213.857†	720460.1	721398.2	5.274 mg/L	5.274 mg/L	23:39:33

Mean Data: 1307090-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2688341.9	0.995 mg/L	0.0026			0.26%
Ag 328.068†	-1089.7	0.0031 mg/L	0.00051	0.0031 mg/L	0.00051	16.36%
Al 237.313†	705564.0	78.10 mg/L	0.057	78.10 mg/L	0.057	0.07%
As 188.979†	85.8	0.0665 mg/L	0.00259	0.0665 mg/L	0.00259	3.90%
B 249.677†	-27.4	-0.0139 mg/L	0.00233	-0.0139 mg/L	0.00233	16.79%
B 182.528†	42.2	0.0452 mg/L	0.00323	0.0452 mg/L	0.00323	7.15%
Ba 233.527†	61705.1	0.5407 mg/L	0.00277	0.5407 mg/L	0.00277	0.51%
Be 313.107†	13960.4	0.0059 mg/L	0.00001	0.0059 mg/L	0.00001	0.25%
Ca 315.887†	2120070.5	23.14 mg/L	0.033	23.14 mg/L	0.033	0.14%
Cd 228.802†	284.0	0.0049 mg/L	0.00018	0.0049 mg/L	0.00018	3.60%
Co 228.616†	3486.5	0.0639 mg/L	0.00020	0.0639 mg/L	0.00020	0.32%
Cr 267.716†	31500.3	0.2780 mg/L	0.00023	0.2780 mg/L	0.00023	0.08%
Cu 324.752†	3123292.9	16.81 mg/L	0.033	16.81 mg/L	0.033	0.20%
Fe 234.349†	439619.7	293.1 mg/L	0.59	293.1 mg/L	0.59	0.20%
K 766.490†	15133.4	8.422 mg/L	0.0119	8.422 mg/L	0.0119	0.14%
Li 670.784†	4314.0	0.1230 mg/L	0.00305	0.1230 mg/L	0.00305	2.48%
Mg 279.077†	332100.9	26.80 mg/L	0.095	26.80 mg/L	0.095	0.36%
Mn 257.610†	4845505.0	6.169 mg/L	0.0005	6.169 mg/L	0.0005	0.01%
Mn 294.920†	2434998.2	6.352 mg/L	0.0009	6.352 mg/L	0.0009	0.01%
Mo 202.031†	1255.2	-0.0826 mg/L	0.00068	-0.0826 mg/L	0.00068	0.82%
Na 589.592†	5530.5	1.119 mg/L	0.0087	1.119 mg/L	0.0087	0.78%
Ni 231.604†	9734.1	0.2187 mg/L	0.00083	0.2187 mg/L	0.00083	0.38%
P 214.914†	8355.5	5.106 mg/L	0.0256	5.106 mg/L	0.0256	0.50%
Pb 220.353†	49562.9	3.469 mg/L	0.0155	3.469 mg/L	0.0155	0.45%
Sb 206.836†	72.0	-0.0478 mg/L	0.00605	-0.0478 mg/L	0.00605	12.66%
Se 196.026†	-77.6	-0.1068 mg/L	0.00254	-0.1068 mg/L	0.00254	2.38%
Sn 189.927†	7.1	0.0140 mg/L	0.00408	0.0140 mg/L	0.00408	29.26%
Sr 407.771†	145587.9	0.1701 mg/L	0.00032	0.1701 mg/L	0.00032	0.19%
Ti 337.279†	2353488.2	2.752 mg/L	0.0011	2.752 mg/L	0.0011	0.04%
Tl 190.801†	-17.9	-0.1928 mg/L	0.00433	-0.1928 mg/L	0.00433	2.25%
V 292.402†	48535.7	0.2186 mg/L	0.00078	0.2186 mg/L	0.00078	0.36%
Zn 213.857†	721577.4	5.276 mg/L	0.0019	5.276 mg/L	0.0019	0.04%

Sequence No.: 146
Sample ID: CF30510-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 123
Date Collected: 7/5/2013 11:42:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-47.2	-40.3	-0.0211 mg/L	-0.0211 mg/L	23:44:33
1	Fe 234.349†	417383.5	413869.9	276.0 mg/L	276.0 mg/L	23:44:31
1	K 766.490†	15132.6	14187.6	7.906 mg/L	7.906 mg/L	23:44:33
1	Li 670.784†	3675.3	3880.0	0.1111 mg/L	0.1111 mg/L	23:44:33
1	Na 589.592†	5755.5	5227.4	1.064 mg/L	1.064 mg/L	23:44:33
1	Sr 407.771†	137082.4	135860.1	0.1588 mg/L	0.1588 mg/L	23:44:31
1	Y 371.029	2723921.5	2723921.5	1.01 mg/L		23:44:43
1	Ag 328.068†	734.4	-1137.0	0.0024 mg/L	0.0024 mg/L	23:44:46
1	Al 237.313†	698332.4	692895.5	76.69 mg/L	76.69 mg/L	23:44:43
1	As 188.979†	76.0	82.0	0.0637 mg/L	0.0637 mg/L	23:44:56
1	B 182.528†	22.5	31.8	0.0341 mg/L	0.0341 mg/L	23:44:56
1	Ba 233.527†	45938.3	45649.3	0.4008 mg/L	0.4008 mg/L	23:44:46
1	Be 313.107†	12527.7	13860.4	0.0059 mg/L	0.0059 mg/L	23:44:46
1	Ca 315.887†	2114466.5	2098576.6	22.91 mg/L	22.91 mg/L	23:44:43
1	Cd 228.802†	450.6	287.7	0.0053 mg/L	0.0053 mg/L	23:44:56
1	Co 228.616†	3147.2	3362.6	0.0618 mg/L	0.0618 mg/L	23:44:56

1	Cr 267.716†	29993.5	29175.2	0.2577 mg/L	0.2577 mg/L	23:44:46
1	Cu 324.752†	3116854.1	3085863.9	16.61 mg/L	16.61 mg/L	23:44:43
1	Mg 279.077†	329537.0	326764.9	26.37 mg/L	26.37 mg/L	23:44:46
1	Mn 257.610†	4619123.9	4564242.1	5.811 mg/L	5.811 mg/L	23:44:43
1	Mn 294.920†	2311851.1	2293759.5	5.983 mg/L	5.983 mg/L	23:44:43
1	Mo 202.031†	1191.9	1146.0	-0.0835 mg/L	-0.0835 mg/L	23:44:56
1	Ni 231.604†	9762.6	9522.5	0.2140 mg/L	0.2140 mg/L	23:44:56
1	P 214.914†	8216.8	8174.8	4.995 mg/L	4.995 mg/L	23:44:46
1	Pb 220.353†	47995.4	47410.0	3.317 mg/L	3.317 mg/L	23:44:46
1	Sb 206.836†	124.3	75.4	-0.0411 mg/L	-0.0411 mg/L	23:44:56
1	Se 196.026†	-62.7	-73.1	-0.1003 mg/L	-0.1003 mg/L	23:44:56
1	Sn 189.927†	23.9	-5.7	0.0119 mg/L	0.0119 mg/L	23:44:56
1	Ti 337.279†	2199858.3	2181995.2	2.552 mg/L	2.552 mg/L	23:44:43
1	Tl 190.801†	-33.6	-28.5	-0.1928 mg/L	-0.1928 mg/L	23:44:56
1	V 292.402†	47233.0	47184.4	0.2127 mg/L	0.2127 mg/L	23:44:46
1	Zn 213.857†	719291.3	712102.5	5.207 mg/L	5.207 mg/L	23:44:43
2	B 249.677†	-62.7	-55.2	-0.0294 mg/L	-0.0294 mg/L	23:44:37
2	Fe 234.349†	414554.3	408261.5	272.2 mg/L	272.2 mg/L	23:44:35
2	K 766.490†	14994.4	13949.2	7.776 mg/L	7.776 mg/L	23:44:37
2	Li 670.784†	3816.3	3994.0	0.1142 mg/L	0.1142 mg/L	23:44:37
2	Na 589.592†	5665.0	5099.3	1.041 mg/L	1.041 mg/L	23:44:37
2	Sr 407.771†	136005.8	133873.0	0.1565 mg/L	0.1565 mg/L	23:44:35
2	Y 371.029	2742622.9	2742622.9	1.02 mg/L		23:45:00
2	Ag 328.068†	766.0	-1110.7	0.0025 mg/L	0.0025 mg/L	23:45:02
2	Al 237.313†	702428.0	692207.3	76.62 mg/L	76.62 mg/L	23:45:00
2	As 188.979†	81.8	87.2	0.0675 mg/L	0.0675 mg/L	23:45:12
2	B 182.528†	23.1	32.3	0.0345 mg/L	0.0345 mg/L	23:45:12
2	Ba 233.527†	46573.3	45964.1	0.4036 mg/L	0.4036 mg/L	23:45:02
2	Be 313.107†	12597.8	13844.8	0.0059 mg/L	0.0059 mg/L	23:45:02
2	Ca 315.887†	2123406.6	2093084.2	22.85 mg/L	22.85 mg/L	23:45:00
2	Cd 228.802†	449.6	283.8	0.0052 mg/L	0.0052 mg/L	23:45:12
2	Co 228.616†	3118.6	3313.1	0.0609 mg/L	0.0609 mg/L	23:45:12
2	Cr 267.716†	30434.3	29406.6	0.2598 mg/L	0.2598 mg/L	23:45:02
2	Cu 324.752†	3136072.1	3083715.8	16.59 mg/L	16.59 mg/L	23:45:00
2	Mg 279.077†	333196.8	328141.0	26.48 mg/L	26.48 mg/L	23:45:02
2	Mn 257.610†	4645959.7	4559438.9	5.806 mg/L	5.806 mg/L	23:45:00
2	Mn 294.920†	2324865.8	2290945.4	5.976 mg/L	5.976 mg/L	23:45:00
2	Mo 202.031†	1169.0	1115.4	-0.0842 mg/L	-0.0842 mg/L	23:45:12
2	Ni 231.604†	9716.4	9411.1	0.2115 mg/L	0.2115 mg/L	23:45:12
2	P 214.914†	8288.6	8190.0	5.005 mg/L	5.005 mg/L	23:45:02
2	Pb 220.353†	48630.4	47710.9	3.338 mg/L	3.338 mg/L	23:45:02
2	Sb 206.836†	125.3	75.6	-0.0400 mg/L	-0.0400 mg/L	23:45:12
2	Se 196.026†	-50.6	-60.8	-0.0911 mg/L	-0.0911 mg/L	23:45:12
2	Sn 189.927†	18.6	-11.0	0.0111 mg/L	0.0111 mg/L	23:45:12
2	Ti 337.279†	2213962.9	2181011.6	2.551 mg/L	2.551 mg/L	23:45:00
2	Tl 190.801†	-23.4	-18.2	-0.1805 mg/L	-0.1805 mg/L	23:45:12
2	V 292.402†	47815.3	47438.5	0.2139 mg/L	0.2139 mg/L	23:45:02
2	Zn 213.857†	723473.9	711358.2	5.202 mg/L	5.202 mg/L	23:45:00

Mean Data: CF30510-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2733272.2	1.01	mg/L	0.005				0.48%
Ag 328.068†	-1123.8	0.0024	mg/L	0.00004	0.0024	mg/L	0.00004	1.51%
Al 237.313†	692551.4	76.66	mg/L	0.054	76.66	mg/L	0.054	0.07%
As 188.979†	84.6	0.0656	mg/L	0.00269	0.0656	mg/L	0.00269	4.09%
B 249.677†	-47.8	-0.0252	mg/L	0.00587	-0.0252	mg/L	0.00587	23.25%
B 182.528†	32.1	0.0343	mg/L	0.00035	0.0343	mg/L	0.00035	1.02%
Ba 233.527†	45806.7	0.4022	mg/L	0.00194	0.4022	mg/L	0.00194	0.48%
Be 313.107†	13852.6	0.0059	mg/L	0.00000	0.0059	mg/L	0.00000	0.08%
Ca 315.887†	2095830.4	22.88	mg/L	0.042	22.88	mg/L	0.042	0.18%
Cd 228.802†	285.8	0.0053	mg/L	0.00004	0.0053	mg/L	0.00004	0.81%
Co 228.616†	3337.9	0.0614	mg/L	0.00070	0.0614	mg/L	0.00070	1.14%
Cr 267.716†	29290.9	0.2587	mg/L	0.00143	0.2587	mg/L	0.00143	0.55%
Cu 324.752†	3084789.8	16.60	mg/L	0.008	16.60	mg/L	0.008	0.05%
Fe 234.349†	411065.7	274.1	mg/L	2.64	274.1	mg/L	2.64	0.96%
K 766.490†	14068.4	7.841	mg/L	0.0919	7.841	mg/L	0.0919	1.17%
Li 670.784†	3937.0	0.1127	mg/L	0.00222	0.1127	mg/L	0.00222	1.97%
Mg 279.077†	327452.9	26.42	mg/L	0.078	26.42	mg/L	0.078	0.30%
Mn 257.610†	4561840.5	5.809	mg/L	0.0038	5.809	mg/L	0.0038	0.06%
Mn 294.920†	2292352.4	5.980	mg/L	0.0052	5.980	mg/L	0.0052	0.09%
Mo 202.031†	1130.7	-0.0838	mg/L	0.00048	-0.0838	mg/L	0.00048	0.57%

Na 589.592†	5163.4	1.053 mg/L	0.0165	1.053 mg/L	0.0165	1.57%
Ni 231.604†	9466.8	0.2127 mg/L	0.00176	0.2127 mg/L	0.00176	0.83%
P 214.914†	8182.4	5.000 mg/L	0.0068	5.000 mg/L	0.0068	0.14%
Pb 220.353†	47560.4	3.328 mg/L	0.0150	3.328 mg/L	0.0150	0.45%
Sb 206.836†	75.5	-0.0406 mg/L	0.00078	-0.0406 mg/L	0.00078	1.92%
Se 196.026†	-66.9	-0.0957 mg/L	0.00652	-0.0957 mg/L	0.00652	6.81%
Sn 189.927†	-8.3	0.0115 mg/L	0.00059	0.0115 mg/L	0.00059	5.13%
Sr 407.771†	134866.5	0.1576 mg/L	0.00164	0.1576 mg/L	0.00164	1.04%
Ti 337.279†	2181503.4	2.551 mg/L	0.0008	2.551 mg/L	0.0008	0.03%
Tl 190.801†	-23.4	-0.1866 mg/L	0.00865	-0.1866 mg/L	0.00865	4.64%
V 292.402†	47311.5	0.2133 mg/L	0.00081	0.2133 mg/L	0.00081	0.38%
Zn 213.857†	711730.3	5.205 mg/L	0.0037	5.205 mg/L	0.0037	0.07%

Sequence No.: 147
Sample ID: CF30510-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 124
Date Collected: 7/5/2013 11:48:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	564.6	576.0	0.3224	mg/L	0.3224	mg/L	23:50:00
1	Fe 234.349†	522317.3	526801.4	351.3	mg/L	351.3	mg/L	23:49:58
1	K 766.490†	52265.4	51896.9	28.46	mg/L	28.46	mg/L	23:50:00
1	Li 670.784†	19905.9	20312.7	0.5628	mg/L	0.5628	mg/L	23:50:00
1	Na 589.592†	114646.6	115152.6	21.06	mg/L	21.06	mg/L	23:49:58
1	Sr 407.771†	195952.8	197567.1	0.2307	mg/L	0.2307	mg/L	23:49:58
1	Y 371.029	2678009.9	2678009.9	0.991	mg/L			23:50:11
1	Ag 328.068†	34646.6	33079.3	0.1940	mg/L	0.1940	mg/L	23:50:13
1	Al 237.313†	853281.6	861048.6	95.31	mg/L	95.31	mg/L	23:50:11
1	As 188.979†	583.4	595.0	0.4365	mg/L	0.4365	mg/L	23:50:23
1	B 182.528†	332.6	345.0	0.3702	mg/L	0.3702	mg/L	23:50:23
1	Ba 233.527†	96429.9	97356.1	0.8513	mg/L	0.8513	mg/L	23:50:13
1	Be 313.107†	99340.5	101632.7	0.0444	mg/L	0.0444	mg/L	23:50:13
1	Ca 315.887†	2790896.1	2816767.9	30.74	mg/L	30.74	mg/L	23:50:11
1	Cd 228.802†	6415.6	6311.7	0.1921	mg/L	0.1921	mg/L	23:50:23
1	Co 228.616†	22039.3	22470.5	0.4435	mg/L	0.4435	mg/L	23:50:23
1	Cr 267.716†	79996.0	80117.6	0.7021	mg/L	0.7021	mg/L	23:50:13
1	Cu 324.752†	3827489.3	3855595.4	20.75	mg/L	20.75	mg/L	23:50:11
1	Mg 279.077†	443996.1	447810.1	36.12	mg/L	36.12	mg/L	23:50:13
1	Mn 257.610†	5830539.8	5864598.6	7.467	mg/L	7.467	mg/L	23:50:11
1	Mn 294.920†	2930163.4	2956689.4	7.712	mg/L	7.712	mg/L	23:50:11
1	Mo 202.031†	9620.8	9667.6	0.2440	mg/L	0.2440	mg/L	23:50:13
1	Ni 231.604†	28038.9	28122.0	0.6291	mg/L	0.6291	mg/L	23:50:13
1	P 214.914†	15568.9	15729.8	9.681	mg/L	9.681	mg/L	23:50:13
1	Pb 220.353†	63533.8	63897.9	4.475	mg/L	4.475	mg/L	23:50:13
1	Sb 206.836†	367.8	323.1	0.0529	mg/L	0.0529	mg/L	23:50:23
1	Se 196.026†	932.1	929.2	0.5716	mg/L	0.5716	mg/L	23:50:23
1	Sn 189.927†	2612.3	2605.5	0.4032	mg/L	0.4032	mg/L	23:50:23
1	Ti 337.279†	2504322.0	2526474.1	2.954	mg/L	2.954	mg/L	23:50:11
1	Tl 190.801†	353.4	361.2	0.1391	mg/L	0.1391	mg/L	23:50:23
1	V 292.402†	140627.2	142184.6	0.6499	mg/L	0.6499	mg/L	23:50:13
1	Zn 213.857†	911275.7	917965.5	6.710	mg/L	6.710	mg/L	23:50:11
2	B 249.677†	561.8	580.4	0.3249	mg/L	0.3249	mg/L	23:50:05
2	Fe 234.349†	527122.5	538545.3	359.1	mg/L	359.1	mg/L	23:50:03
2	K 766.490†	51609.2	51910.4	28.46	mg/L	28.46	mg/L	23:50:05
2	Li 670.784†	19662.6	20324.6	0.5631	mg/L	0.5631	mg/L	23:50:05
2	Na 589.592†	115868.1	117900.8	21.56	mg/L	21.56	mg/L	23:50:03
2	Sr 407.771†	197337.1	201545.4	0.2354	mg/L	0.2354	mg/L	23:50:03
2	Y 371.029	2643711.9	2643711.9	0.979	mg/L			23:50:27
2	Ag 328.068†	34269.2	33147.1	0.1946	mg/L	0.1946	mg/L	23:50:30
2	Al 237.313†	843012.7	861722.2	95.38	mg/L	95.38	mg/L	23:50:27
2	As 188.979†	584.5	603.8	0.4429	mg/L	0.4429	mg/L	23:50:40
2	B 182.528†	335.8	352.7	0.3785	mg/L	0.3785	mg/L	23:50:40
2	Ba 233.527†	95066.2	97224.5	0.8502	mg/L	0.8502	mg/L	23:50:30
2	Be 313.107†	98055.5	101619.6	0.0444	mg/L	0.0444	mg/L	23:50:30
2	Ca 315.887†	2759140.4	2820842.4	30.78	mg/L	30.78	mg/L	23:50:27
2	Cd 228.802†	6380.6	6359.9	0.1935	mg/L	0.1935	mg/L	23:50:40
2	Co 228.616†	21976.6	22694.9	0.4479	mg/L	0.4479	mg/L	23:50:40
2	Cr 267.716†	78984.1	80130.5	0.7022	mg/L	0.7022	mg/L	23:50:30

2	Cu	324.752†	3795626.7	3873124.3	20.84 mg/L	20.84 mg/L	23:50:27
2	Mg	279.077†	436594.2	446057.4	35.98 mg/L	35.98 mg/L	23:50:30
2	Mn	257.610†	5769064.0	5878082.0	7.483 mg/L	7.483 mg/L	23:50:27
2	Mn	294.920†	2897494.7	2961653.3	7.725 mg/L	7.725 mg/L	23:50:27
2	Mo	202.031†	9477.1	9646.6	0.2414 mg/L	0.2414 mg/L	23:50:30
2	Ni	231.604†	27634.4	28075.5	0.6281 mg/L	0.6281 mg/L	23:50:30
2	P	214.914†	15293.7	15652.3	9.632 mg/L	9.632 mg/L	23:50:30
2	Pb	220.353†	62470.0	63642.5	4.457 mg/L	4.457 mg/L	23:50:30
2	Sb	206.836†	375.3	335.6	0.0565 mg/L	0.0565 mg/L	23:50:40
2	Se	196.026†	943.9	953.5	0.5867 mg/L	0.5867 mg/L	23:50:40
2	Sn	189.927†	2595.6	2622.6	0.4058 mg/L	0.4058 mg/L	23:50:40
2	Ti	337.279†	2478667.7	2533032.4	2.961 mg/L	2.961 mg/L	23:50:27
2	Tl	190.801†	347.8	360.1	0.1333 mg/L	0.1333 mg/L	23:50:40
2	V	292.402†	138804.0	142161.9	0.6498 mg/L	0.6498 mg/L	23:50:30
2	Zn	213.857†	901452.9	919853.7	6.724 mg/L	6.724 mg/L	23:50:27

Mean Data: CF30510-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2660860.9	0.985 mg/L	0.0090			0.91%
Ag 328.068†	33113.2	0.1943 mg/L	0.00040	0.1943 mg/L	0.00040	0.21%
Al 237.313†	861385.4	95.34 mg/L	0.053	95.34 mg/L	0.053	0.06%
As 188.979†	599.4	0.4397 mg/L	0.00452	0.4397 mg/L	0.00452	1.03%
B 249.677†	578.2	0.3237 mg/L	0.00175	0.3237 mg/L	0.00175	0.54%
B 182.528†	348.8	0.3743 mg/L	0.00585	0.3743 mg/L	0.00585	1.56%
Ba 233.527†	97290.3	0.8508 mg/L	0.00081	0.8508 mg/L	0.00081	0.10%
Be 313.107†	101626.1	0.0444 mg/L	0.00001	0.0444 mg/L	0.00001	0.01%
Ca 315.887†	2818805.1	30.76 mg/L	0.031	30.76 mg/L	0.031	0.10%
Cd 228.802†	6335.8	0.1928 mg/L	0.00097	0.1928 mg/L	0.00097	0.50%
Co 228.616†	22582.7	0.4457 mg/L	0.00316	0.4457 mg/L	0.00316	0.71%
Cr 267.716†	80124.1	0.7021 mg/L	0.00008	0.7021 mg/L	0.00008	0.01%
Cu 324.752†	3864359.8	20.79 mg/L	0.067	20.79 mg/L	0.067	0.32%
Fe 234.349†	532673.4	355.2 mg/L	5.54	355.2 mg/L	5.54	1.56%
K 766.490†	51903.6	28.46 mg/L	0.005	28.46 mg/L	0.005	0.02%
Li 670.784†	20318.6	0.5629 mg/L	0.00023	0.5629 mg/L	0.00023	0.04%
Mg 279.077†	446933.8	36.05 mg/L	0.100	36.05 mg/L	0.100	0.28%
Mn 257.610†	5871340.3	7.475 mg/L	0.0110	7.475 mg/L	0.0110	0.15%
Mn 294.920†	2959171.4	7.719 mg/L	0.0092	7.719 mg/L	0.0092	0.12%
Mo 202.031†	9657.1	0.2427 mg/L	0.00184	0.2427 mg/L	0.00184	0.76%
Na 589.592†	116526.7	21.31 mg/L	0.354	21.31 mg/L	0.354	1.66%
Ni 231.604†	28098.7	0.6286 mg/L	0.00073	0.6286 mg/L	0.00073	0.12%
P 214.914†	15691.1	9.657 mg/L	0.0350	9.657 mg/L	0.0350	0.36%
Pb 220.353†	63770.2	4.466 mg/L	0.0128	4.466 mg/L	0.0128	0.29%
Sb 206.836†	329.3	0.0547 mg/L	0.00253	0.0547 mg/L	0.00253	4.63%
Se 196.026†	941.3	0.5792 mg/L	0.01067	0.5792 mg/L	0.01067	1.84%
Sn 189.927†	2614.0	0.4045 mg/L	0.00181	0.4045 mg/L	0.00181	0.45%
Sr 407.771†	199556.2	0.2330 mg/L	0.00328	0.2330 mg/L	0.00328	1.41%
Ti 337.279†	2529753.3	2.958 mg/L	0.0054	2.958 mg/L	0.0054	0.18%
Tl 190.801†	360.7	0.1362 mg/L	0.00410	0.1362 mg/L	0.00410	3.01%
V 292.402†	142173.3	0.6499 mg/L	0.00010	0.6499 mg/L	0.00010	0.02%
Zn 213.857†	918909.6	6.717 mg/L	0.0095	6.717 mg/L	0.0095	0.14%

Sequence No.: 148

Sample ID: CF30510-SD1 @5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 125

Date Collected: 7/5/2013 11:53:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30510-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-9.8	-3.6	-0.0007 mg/L	-0.0007 mg/L	23:55:36
1	Fe 234.349†	133085.7	137053.4	91.39 mg/L	91.39 mg/L	23:55:26
1	K 766.490†	5293.3	4633.6	2.700 mg/L	2.700 mg/L	23:55:26
1	Li 670.784†	877.0	1138.8	0.0357 mg/L	0.0357 mg/L	23:55:26
1	Na 589.592†	2035.4	1616.5	0.4073 mg/L	0.4073 mg/L	23:55:26
1	Sr 407.771†	43400.3	44625.8	0.0524 mg/L	0.0524 mg/L	23:55:26
1	Y 371.029	2622709.8	2622709.8	0.971 mg/L		23:55:54
1	Ag 328.068†	1447.3	-374.7	0.0020 mg/L	0.0020 mg/L	23:55:56
1	Al 237.313†	206365.7	212959.2	23.58 mg/L	23.58 mg/L	23:55:54

1	As	188.979†	16.1	23.3	0.0212	mg/L	0.0212	mg/L	23:56:06
1	B	182.528†	5.6	15.3	0.0163	mg/L	0.0163	mg/L	23:56:06
1	Ba	233.527†	18072.2	18709.0	0.1661	mg/L	0.1661	mg/L	23:55:56
1	Be	313.107†	2781.1	4302.2	0.0021	mg/L	0.0021	mg/L	23:55:56
1	Ca	315.887†	624836.1	645372.0	7.070	mg/L	7.070	mg/L	23:55:54
1	Cd	228.802†	236.1	84.1	0.0021	mg/L	0.0021	mg/L	23:56:06
1	Co	228.616†	819.4	1085.7	0.0200	mg/L	0.0200	mg/L	23:56:06
1	Cr	267.716†	9852.2	9580.2	0.0869	mg/L	0.0869	mg/L	23:55:56
1	Cu	324.752†	918465.6	941092.2	5.068	mg/L	5.068	mg/L	23:55:54
1	Mg	279.077†	98948.1	101899.7	8.240	mg/L	8.240	mg/L	23:55:56
1	Mn	257.610†	1474586.4	1502551.5	1.914	mg/L	1.914	mg/L	23:55:54
1	Mn	294.920†	724280.5	747243.1	1.950	mg/L	1.950	mg/L	23:55:54
1	Mo	202.031†	387.5	363.1	-0.0242	mg/L	-0.0242	mg/L	23:56:06
1	Ni	231.604†	3103.2	3037.9	0.0694	mg/L	0.0694	mg/L	23:56:06
1	P	214.914†	2493.0	2594.5	1.619	mg/L	1.619	mg/L	23:55:56
1	Pb	220.353†	15081.8	15350.1	1.074	mg/L	1.074	mg/L	23:55:56
1	Sb	206.836†	69.2	23.5	-0.0115	mg/L	-0.0115	mg/L	23:56:06
1	Se	196.026†	-11.5	-22.7	-0.0288	mg/L	-0.0288	mg/L	23:56:06
1	Sn	189.927†	17.5	-11.3	0.0013	mg/L	0.0013	mg/L	23:56:06
1	Ti	337.279†	691952.6	713237.1	0.8374	mg/L	0.8374	mg/L	23:55:54
1	Tl	190.801†	-5.0	-0.3	-0.0542	mg/L	-0.0542	mg/L	23:56:06
1	V	292.402†	13960.5	14725.7	0.0695	mg/L	0.0695	mg/L	23:55:56
1	Zn	213.857†	220113.9	225542.1	1.651	mg/L	1.651	mg/L	23:55:56
2	B	249.677†	-25.2	-19.2	-0.0094	mg/L	-0.0094	mg/L	23:55:49
2	Fe	234.349†	131385.9	134365.7	89.60	mg/L	89.60	mg/L	23:55:39
2	K	766.490†	5228.2	4529.2	2.643	mg/L	2.643	mg/L	23:55:39
2	Li	670.784†	831.4	1085.9	0.0343	mg/L	0.0343	mg/L	23:55:39
2	Na	589.592†	2086.9	1654.6	0.4143	mg/L	0.4143	mg/L	23:55:39
2	Sr	407.771†	42895.0	43799.5	0.0514	mg/L	0.0514	mg/L	23:55:39
2	Y	371.029	2641002.9	2641002.9	0.978	mg/L			23:56:09
2	Ag	328.068†	1390.5	-443.1	0.0016	mg/L	0.0016	mg/L	23:56:11
2	Al	237.313†	202635.5	207672.1	23.00	mg/L	23.00	mg/L	23:56:09
2	As	188.979†	19.9	27.0	0.0239	mg/L	0.0239	mg/L	23:56:22
2	B	182.528†	4.5	14.2	0.0151	mg/L	0.0151	mg/L	23:56:22
2	Ba	233.527†	17662.1	18160.6	0.1614	mg/L	0.1614	mg/L	23:56:11
2	Be	313.107†	2666.1	4164.7	0.0020	mg/L	0.0020	mg/L	23:56:11
2	Ca	315.887†	613310.0	629126.7	6.893	mg/L	6.893	mg/L	23:56:09
2	Cd	228.802†	237.2	83.6	0.0021	mg/L	0.0021	mg/L	23:56:22
2	Co	228.616†	747.5	1006.3	0.0184	mg/L	0.0184	mg/L	23:56:22
2	Cr	267.716†	9686.0	9339.9	0.0848	mg/L	0.0848	mg/L	23:56:11
2	Cu	324.752†	900453.8	916119.1	4.933	mg/L	4.933	mg/L	23:56:09
2	Mg	279.077†	96632.4	98825.5	7.992	mg/L	7.992	mg/L	23:56:11
2	Mn	257.610†	1447024.2	1463844.0	1.865	mg/L	1.865	mg/L	23:56:09
2	Mn	294.920†	710744.0	728232.2	1.901	mg/L	1.901	mg/L	23:56:09
2	Mo	202.031†	400.7	373.9	-0.0228	mg/L	-0.0228	mg/L	23:56:22
2	Ni	231.604†	2977.3	2886.9	0.0660	mg/L	0.0660	mg/L	23:56:22
2	P	214.914†	2425.1	2507.3	1.566	mg/L	1.566	mg/L	23:56:11
2	Pb	220.353†	14651.0	14802.0	1.036	mg/L	1.036	mg/L	23:56:11
2	Sb	206.836†	71.6	25.4	-0.0101	mg/L	-0.0101	mg/L	23:56:22
2	Se	196.026†	-18.7	-30.1	-0.0335	mg/L	-0.0335	mg/L	23:56:22
2	Sn	189.927†	9.8	-19.3	0.0000	mg/L	0.0000	mg/L	23:56:22
2	Ti	337.279†	677939.8	693969.9	0.8149	mg/L	0.8149	mg/L	23:56:09
2	Tl	190.801†	-14.0	-9.5	-0.0620	mg/L	-0.0620	mg/L	23:56:22
2	V	292.402†	13455.6	14109.7	0.0667	mg/L	0.0667	mg/L	23:56:11
2	Zn	213.857†	214937.1	218677.4	1.601	mg/L	1.601	mg/L	23:56:11

Mean Data: CF30510-SD1 @5

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	2631856.3	0.974	mg/L	0.0048				0.49%
Ag 328.068†	-408.9	0.0018	mg/L	0.00030	0.0018	mg/L	0.00030	16.82%
Al 237.313†	210315.6	23.29	mg/L	0.414	23.29	mg/L	0.414	1.78%
As 188.979†	25.1	0.0226	mg/L	0.00191	0.0226	mg/L	0.00191	8.49%
B 249.677†	-11.4	-0.0051	mg/L	0.00615	-0.0051	mg/L	0.00615	121.37%
B 182.528†	14.7	0.0157	mg/L	0.00081	0.0157	mg/L	0.00081	5.17%
Ba 233.527†	18434.8	0.1637	mg/L	0.00338	0.1637	mg/L	0.00338	2.06%
Be 313.107†	4233.5	0.0021	mg/L	0.00004	0.0021	mg/L	0.00004	1.90%
Ca 315.887†	637249.4	6.981	mg/L	0.1252	6.981	mg/L	0.1252	1.79%
Cd 228.802†	83.9	0.0021	mg/L	0.00001	0.0021	mg/L	0.00001	0.42%
Co 228.616†	1046.0	0.0192	mg/L	0.00109	0.0192	mg/L	0.00109	5.67%
Cr 267.716†	9460.1	0.0859	mg/L	0.00148	0.0859	mg/L	0.00148	1.72%
Cu 324.752†	928605.7	5.000	mg/L	0.0950	5.000	mg/L	0.0950	1.90%

Fe 234.349†	135709.6	90.50 mg/L	1.267	90.50 mg/L	1.267	1.40%
K 766.490†	4581.4	2.671 mg/L	0.0402	2.671 mg/L	0.0402	1.51%
Li 670.784†	1112.3	0.0350 mg/L	0.00103	0.0350 mg/L	0.00103	2.93%
Mg 279.077†	100362.6	8.116 mg/L	0.1752	8.116 mg/L	0.1752	2.16%
Mn 257.610†	1483197.7	1.889 mg/L	0.0349	1.889 mg/L	0.0349	1.85%
Mn 294.920†	737737.6	1.925 mg/L	0.0351	1.925 mg/L	0.0351	1.82%
Mo 202.031†	368.5	-0.0235 mg/L	0.00105	-0.0235 mg/L	0.00105	4.46%
Na 589.592†	1635.5	0.4108 mg/L	0.00490	0.4108 mg/L	0.00490	1.19%
Ni 231.604†	2962.4	0.0677 mg/L	0.00238	0.0677 mg/L	0.00238	3.52%
P 214.914†	2550.9	1.593 mg/L	0.0376	1.593 mg/L	0.0376	2.36%
Pb 220.353†	15076.0	1.055 mg/L	0.0272	1.055 mg/L	0.0272	2.58%
Sb 206.836†	24.4	-0.0108 mg/L	0.00101	-0.0108 mg/L	0.00101	9.40%
Se 196.026†	-26.4	-0.0312 mg/L	0.00331	-0.0312 mg/L	0.00331	10.63%
Sn 189.927†	-15.3	0.0006 mg/L	0.00091	0.0006 mg/L	0.00091	142.56%
Sr 407.771†	44212.7	0.0519 mg/L	0.00068	0.0519 mg/L	0.00068	1.31%
Ti 337.279†	703603.5	0.8261 mg/L	0.01590	0.8261 mg/L	0.01590	1.92%
Tl 190.801†	-4.9	-0.0581 mg/L	0.00551	-0.0581 mg/L	0.00551	9.49%
V 292.402†	14417.7	0.0681 mg/L	0.00193	0.0681 mg/L	0.00193	2.83%
Zn 213.857†	222109.7	1.626 mg/L	0.0355	1.626 mg/L	0.0355	2.18%

Sequence No.: 149

Autosampler Location: 126

Sample ID: CF30510-PDS1

Date Collected: 7/5/2013 11:57:59 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CF30510-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	779.1	785.0	0.4389	mg/L	0.4389	mg/L	23:59:41
1	Fe 234.349†	452781.9	452397.8	301.6	mg/L	301.6	mg/L	23:59:39
1	K 766.490†	60343.2	59475.1	32.59	mg/L	32.59	mg/L	23:59:41
1	Li 670.784†	22113.1	22330.2	0.6182	mg/L	0.6182	mg/L	23:59:41
1	Na 589.592†	136941.5	136347.7	24.92	mg/L	24.92	mg/L	23:59:39
1	Sr 407.771†	187409.5	187182.7	0.2186	mg/L	0.2186	mg/L	23:59:39
1	Y 371.029	2703288.3	2703288.3	1.00	mg/L			23:59:52
1	Ag 328.068†	41778.5	39878.5	0.2304	mg/L	0.2304	mg/L	23:59:54
1	Al 237.313†	749727.6	749533.2	82.96	mg/L	82.96	mg/L	23:59:52
1	As 188.979†	688.0	694.1	0.5085	mg/L	0.5085	mg/L	00:00:05
1	B 182.528†	439.7	448.9	0.4817	mg/L	0.4817	mg/L	00:00:05
1	Ba 233.527†	114717.8	114719.3	1.003	mg/L	1.003	mg/L	23:59:54
1	Be 313.107†	115810.8	117152.3	0.0512	mg/L	0.0512	mg/L	23:59:54
1	Ca 315.887†	2617323.7	2617018.2	28.56	mg/L	28.56	mg/L	23:59:52
1	Cd 228.802†	7640.2	7474.8	0.2293	mg/L	0.2293	mg/L	00:00:05
1	Co 228.616†	25613.2	25833.7	0.5102	mg/L	0.5102	mg/L	00:00:05
1	Cr 267.716†	84847.1	84210.1	0.7378	mg/L	0.7378	mg/L	23:59:54
1	Cu 324.752†	3322416.4	3314844.8	17.84	mg/L	17.84	mg/L	23:59:52
1	Mg 279.077†	394780.1	394447.7	31.82	mg/L	31.82	mg/L	23:59:54
1	Mn 257.610†	5329555.9	5309042.1	6.764	mg/L	6.764	mg/L	23:59:52
1	Mn 294.920†	2669319.0	2668426.9	6.960	mg/L	6.960	mg/L	23:59:52
1	Mo 202.031†	11972.7	11926.8	0.3638	mg/L	0.3638	mg/L	00:00:05
1	Ni 231.604†	29764.8	29582.0	0.6618	mg/L	0.6618	mg/L	23:59:54
1	P 214.914†	15451.9	15466.1	9.546	mg/L	9.546	mg/L	23:59:54
1	Pb 220.353†	57221.1	56991.3	3.992	mg/L	3.992	mg/L	23:59:54
1	Sb 206.836†	1078.2	1029.4	0.3979	mg/L	0.3979	mg/L	00:00:05
1	Se 196.026†	1224.6	1212.7	0.7759	mg/L	0.7759	mg/L	00:00:05
1	Sn 189.927†	3100.1	3068.2	0.4704	mg/L	0.4704	mg/L	00:00:05
1	Ti 337.279†	2791615.9	2789909.3	3.261	mg/L	3.261	mg/L	23:59:52
1	Tl 190.801†	437.7	442.1	0.2473	mg/L	0.2473	mg/L	00:00:05
1	V 292.402†	149444.8	149668.6	0.6853	mg/L	0.6853	mg/L	23:59:54
1	Zn 213.857†	806350.5	804533.1	5.881	mg/L	5.881	mg/L	23:59:52
2	B 249.677†	801.4	803.7	0.4493	mg/L	0.4493	mg/L	23:59:46
2	Fe 234.349†	458997.1	456599.1	304.4	mg/L	304.4	mg/L	23:59:44
2	K 766.490†	60192.9	59061.4	32.36	mg/L	32.36	mg/L	23:59:46
2	Li 670.784†	22016.2	22137.1	0.6129	mg/L	0.6129	mg/L	23:59:46
2	Na 589.592†	138599.0	137397.2	25.11	mg/L	25.11	mg/L	23:59:44
2	Sr 407.771†	189875.8	188816.0	0.2205	mg/L	0.2205	mg/L	23:59:44
2	Y 371.029	2715180.5	2715180.5	1.01	mg/L			00:00:08
2	Ag 328.068†	42251.9	40166.6	0.2321	mg/L	0.2321	mg/L	00:00:11
2	Al 237.313†	753805.7	750309.1	83.05	mg/L	83.05	mg/L	00:00:08
2	As 188.979†	692.9	695.9	0.5099	mg/L	0.5099	mg/L	00:00:21

2	B 182.528†	447.2	454.4	0.4877 mg/L	0.4877 mg/L	00:00:21
2	Ba 233.527†	116567.8	116057.5	1.014 mg/L	1.014 mg/L	00:00:11
2	Be 313.107†	117971.0	118794.5	0.0519 mg/L	0.0519 mg/L	00:00:11
2	Ca 315.887†	2627189.7	2615378.7	28.54 mg/L	28.54 mg/L	00:00:08
2	Cd 228.802†	7697.2	7498.1	0.2300 mg/L	0.2300 mg/L	00:00:21
2	Co 228.616†	25845.8	25953.0	0.5125 mg/L	0.5125 mg/L	00:00:21
2	Cr 267.716†	85886.6	84873.0	0.7436 mg/L	0.7436 mg/L	00:00:11
2	Cu 324.752†	3335162.9	3312985.2	17.83 mg/L	17.83 mg/L	00:00:08
2	Mg 279.077†	399756.8	397670.8	32.08 mg/L	32.08 mg/L	00:00:11
2	Mn 257.610†	5357422.1	5313439.6	6.769 mg/L	6.769 mg/L	00:00:08
2	Mn 294.920†	2683479.3	2670831.8	6.967 mg/L	6.967 mg/L	00:00:08
2	Mo 202.031†	12057.1	11958.3	0.3648 mg/L	0.3648 mg/L	00:00:21
2	Ni 231.604†	30293.3	29977.4	0.6706 mg/L	0.6706 mg/L	00:00:11
2	P 214.914†	15665.7	15611.2	9.637 mg/L	9.637 mg/L	00:00:11
2	Pb 220.353†	58042.9	57558.4	4.032 mg/L	4.032 mg/L	00:00:11
2	Sb 206.836†	1112.1	1058.5	0.4107 mg/L	0.4107 mg/L	00:00:21
2	Se 196.026†	1247.7	1230.3	0.7873 mg/L	0.7873 mg/L	00:00:21
2	Sn 189.927†	3169.3	3123.4	0.4786 mg/L	0.4786 mg/L	00:00:21
2	Ti 337.279†	2809334.4	2795318.7	3.268 mg/L	3.268 mg/L	00:00:08
2	Tl 190.801†	433.4	435.9	0.2396 mg/L	0.2396 mg/L	00:00:21
2	V 292.402†	151501.3	151060.3	0.6917 mg/L	0.6917 mg/L	00:00:11
2	Zn 213.857†	809466.7	804104.3	5.878 mg/L	5.878 mg/L	00:00:08

Mean Data: CF30510-PDS1

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2709234.4	1.00 mg/L	0.003			0.31%
Ag 328.068†	40022.6	0.2313 mg/L	0.00118	0.2313 mg/L	0.00118	0.51%
Al 237.313†	749921.1	83.01 mg/L	0.061	83.01 mg/L	0.061	0.07%
As 188.979†	695.0	0.5092 mg/L	0.00096	0.5092 mg/L	0.00096	0.19%
B 249.677†	794.3	0.4441 mg/L	0.00737	0.4441 mg/L	0.00737	1.66%
B 182.528†	451.7	0.4847 mg/L	0.00419	0.4847 mg/L	0.00419	0.86%
Ba 233.527†	115388.4	1.008 mg/L	0.0082	1.008 mg/L	0.0082	0.82%
Be 313.107†	117973.4	0.0516 mg/L	0.00051	0.0516 mg/L	0.00051	0.99%
Ca 315.887†	2616198.4	28.55 mg/L	0.013	28.55 mg/L	0.013	0.04%
Cd 228.802†	7486.4	0.2296 mg/L	0.00048	0.2296 mg/L	0.00048	0.21%
Co 228.616†	25893.3	0.5113 mg/L	0.00168	0.5113 mg/L	0.00168	0.33%
Cr 267.716†	84541.5	0.7407 mg/L	0.00409	0.7407 mg/L	0.00409	0.55%
Cu 324.752†	3313915.0	17.83 mg/L	0.007	17.83 mg/L	0.007	0.04%
Fe 234.349†	454498.4	303.0 mg/L	1.98	303.0 mg/L	1.98	0.65%
K 766.490†	59268.3	32.47 mg/L	0.159	32.47 mg/L	0.159	0.49%
Li 670.784†	22233.7	0.6156 mg/L	0.00375	0.6156 mg/L	0.00375	0.61%
Mg 279.077†	396059.2	31.95 mg/L	0.184	31.95 mg/L	0.184	0.57%
Mn 257.610†	5311240.8	6.766 mg/L	0.0036	6.766 mg/L	0.0036	0.05%
Mn 294.920†	2669629.3	6.964 mg/L	0.0044	6.964 mg/L	0.0044	0.06%
Mo 202.031†	11942.6	0.3643 mg/L	0.00069	0.3643 mg/L	0.00069	0.19%
Na 589.592†	136872.5	25.02 mg/L	0.135	25.02 mg/L	0.135	0.54%
Ni 231.604†	29779.7	0.6662 mg/L	0.00624	0.6662 mg/L	0.00624	0.94%
P 214.914†	15538.7	9.591 mg/L	0.0643	9.591 mg/L	0.0643	0.67%
Pb 220.353†	57274.9	4.012 mg/L	0.0283	4.012 mg/L	0.0283	0.70%
Sb 206.836†	1044.0	0.4043 mg/L	0.00901	0.4043 mg/L	0.00901	2.23%
Se 196.026†	1221.5	0.7816 mg/L	0.00811	0.7816 mg/L	0.00811	1.04%
Sn 189.927†	3095.8	0.4745 mg/L	0.00578	0.4745 mg/L	0.00578	1.22%
Sr 407.771†	187999.4	0.2196 mg/L	0.00135	0.2196 mg/L	0.00135	0.61%
Ti 337.279†	2792614.0	3.264 mg/L	0.0045	3.264 mg/L	0.0045	0.14%
Tl 190.801†	439.0	0.2434 mg/L	0.00546	0.2434 mg/L	0.00546	2.24%
V 292.402†	150364.5	0.6885 mg/L	0.00450	0.6885 mg/L	0.00450	0.65%
Zn 213.857†	804318.7	5.880 mg/L	0.0024	5.880 mg/L	0.0024	0.04%

Sequence No.: 150

Sample ID: 1307090-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 127

Date Collected: 7/6/2013 12:03:28 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307090-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-16.1	-9.4	-0.0039 mg/L	-0.0039 mg/L	00:05:15
1	Fe 234.349†	328592.4	324850.1	216.6 mg/L	216.6 mg/L	00:05:13

1	K 766.490†	13400.0	12429.8	6.948 mg/L	6.948 mg/L	00:05:15
1	Li 670.784†	3444.3	3640.8	0.1045 mg/L	0.1045 mg/L	00:05:15
1	Na 589.592†	4991.0	4454.5	0.9237 mg/L	0.9237 mg/L	00:05:15
1	Sr 407.771†	143777.5	142072.5	0.1660 mg/L	0.1660 mg/L	00:05:13
1	Y 371.029	2732094.1	2732094.1	1.01 mg/L		00:05:26
1	Ag 328.068†	933.1	-942.7	0.0020 mg/L	0.0020 mg/L	00:05:26
1	Al 237.313†	763945.4	755691.3	83.64 mg/L	83.64 mg/L	00:05:26
1	As 188.979†	70.9	76.8	0.0599 mg/L	0.0599 mg/L	00:05:36
1	B 182.528†	17.0	26.4	0.0282 mg/L	0.0282 mg/L	00:05:36
1	Ba 233.527†	45083.1	44667.6	0.3923 mg/L	0.3923 mg/L	00:05:26
1	Be 313.107†	12140.2	13440.2	0.0056 mg/L	0.0056 mg/L	00:05:26
1	Ca 315.887†	2352381.8	2327515.4	25.40 mg/L	25.40 mg/L	00:05:26
1	Cd 228.802†	407.6	243.9	0.0049 mg/L	0.0049 mg/L	00:05:36
1	Co 228.616†	2547.5	2760.3	0.0493 mg/L	0.0493 mg/L	00:05:36
1	Cr 267.716†	24934.3	24084.7	0.2134 mg/L	0.2134 mg/L	00:05:26
1	Cu 324.752†	2259728.4	2229236.9	12.00 mg/L	12.00 mg/L	00:05:26
1	Mg 279.077†	291673.4	288354.2	23.27 mg/L	23.27 mg/L	00:05:26
1	Mn 257.610†	3685739.8	3627767.6	4.620 mg/L	4.620 mg/L	00:05:26
1	Mn 294.920†	1839723.0	1820141.2	4.748 mg/L	4.748 mg/L	00:05:26
1	Mo 202.031†	879.1	833.2	-0.0620 mg/L	-0.0620 mg/L	00:05:36
1	Ni 231.604†	7518.2	7274.7	0.1638 mg/L	0.1638 mg/L	00:05:36
1	P 214.914†	8112.3	8047.2	4.963 mg/L	4.963 mg/L	00:05:36
1	Pb 220.353†	45143.6	44448.3	3.109 mg/L	3.109 mg/L	00:05:26
1	Sb 206.836†	106.6	57.5	-0.0323 mg/L	-0.0323 mg/L	00:05:36
1	Se 196.026†	-44.7	-55.1	-0.0761 mg/L	-0.0761 mg/L	00:05:36
1	Sn 189.927†	-78.6	-107.0	-0.0015 mg/L	-0.0015 mg/L	00:05:36
1	Ti 337.279†	2416737.4	2389883.6	2.794 mg/L	2.794 mg/L	00:05:26
1	Tl 190.801†	-16.3	-11.3	-0.1403 mg/L	-0.1403 mg/L	00:05:36
1	V 292.402†	45398.1	45230.3	0.2036 mg/L	0.2036 mg/L	00:05:26
1	Zn 213.857†	581591.0	573834.1	4.199 mg/L	4.199 mg/L	00:05:26
2	B 249.677†	-32.3	-25.6	-0.0129 mg/L	-0.0129 mg/L	00:05:20
2	Fe 234.349†	329210.9	327303.9	218.2 mg/L	218.2 mg/L	00:05:18
2	K 766.490†	13438.4	12543.0	7.010 mg/L	7.010 mg/L	00:05:20
2	Li 670.784†	3606.7	3821.5	0.1095 mg/L	0.1095 mg/L	00:05:20
2	Na 589.592†	5092.6	4583.5	0.9472 mg/L	0.9472 mg/L	00:05:20
2	Sr 407.771†	144034.0	143132.1	0.1673 mg/L	0.1673 mg/L	00:05:18
2	Y 371.029	2716716.3	2716716.3	1.01 mg/L		00:05:40
2	Ag 328.068†	1052.5	-818.8	0.0027 mg/L	0.0027 mg/L	00:05:40
2	Al 237.313†	759476.6	755523.3	83.63 mg/L	83.63 mg/L	00:05:40
2	As 188.979†	66.0	72.3	0.0567 mg/L	0.0567 mg/L	00:05:50
2	B 182.528†	21.8	31.3	0.0335 mg/L	0.0335 mg/L	00:05:50
2	Ba 233.527†	44898.3	44736.1	0.3929 mg/L	0.3929 mg/L	00:05:40
2	Be 313.107†	11968.6	13337.6	0.0056 mg/L	0.0056 mg/L	00:05:40
2	Ca 315.887†	2338779.1	2327155.3	25.40 mg/L	25.40 mg/L	00:05:40
2	Cd 228.802†	395.3	234.0	0.0046 mg/L	0.0046 mg/L	00:05:50
2	Co 228.616†	2564.0	2791.0	0.0499 mg/L	0.0499 mg/L	00:05:50
2	Cr 267.716†	24595.7	23887.5	0.2116 mg/L	0.2116 mg/L	00:05:40
2	Cu 324.752†	2251149.8	2233353.3	12.02 mg/L	12.02 mg/L	00:05:40
2	Mg 279.077†	289676.0	288000.5	23.24 mg/L	23.24 mg/L	00:05:40
2	Mn 257.610†	3665224.6	3627996.5	4.620 mg/L	4.620 mg/L	00:05:40
2	Mn 294.920†	1827874.5	1818656.4	4.744 mg/L	4.744 mg/L	00:05:40
2	Mo 202.031†	883.1	842.1	-0.0620 mg/L	-0.0620 mg/L	00:05:50
2	Ni 231.604†	7500.1	7298.8	0.1644 mg/L	0.1644 mg/L	00:05:50
2	P 214.914†	8073.2	8053.6	4.966 mg/L	4.966 mg/L	00:05:50
2	Pb 220.353†	44600.8	44161.2	3.089 mg/L	3.089 mg/L	00:05:40
2	Sb 206.836†	103.1	54.7	-0.0340 mg/L	-0.0340 mg/L	00:05:50
2	Se 196.026†	-43.4	-54.1	-0.0757 mg/L	-0.0757 mg/L	00:05:50
2	Sn 189.927†	-69.7	-98.6	-0.0003 mg/L	-0.0003 mg/L	00:05:50
2	Ti 337.279†	2402682.5	2389434.1	2.794 mg/L	2.794 mg/L	00:05:40
2	Tl 190.801†	-9.7	-4.9	-0.1351 mg/L	-0.1351 mg/L	00:05:50
2	V 292.402†	44899.0	44988.1	0.2025 mg/L	0.2025 mg/L	00:05:40
2	Zn 213.857†	577781.6	573301.2	4.195 mg/L	4.195 mg/L	00:05:40

Mean Data: 1307090-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2724405.2	1.01	mg/L	0.004			0.40%
Ag 328.068†	-880.7	0.0024	mg/L	0.00051	0.0024 mg/L	0.00051	21.68%
Al 237.313†	755607.3	83.63	mg/L	0.013	83.63 mg/L	0.013	0.02%
As 188.979†	74.5	0.0583	mg/L	0.00231	0.0583 mg/L	0.00231	3.96%
B 249.677†	-17.5	-0.0084	mg/L	0.00635	-0.0084 mg/L	0.00635	75.41%
B 182.528†	28.8	0.0308	mg/L	0.00371	0.0308 mg/L	0.00371	12.04%

Ba	233.527†	44701.9	0.3926 mg/L	0.00042	0.3926 mg/L	0.00042	0.11%
Be	313.107†	13388.9	0.0056 mg/L	0.00003	0.0056 mg/L	0.00003	0.57%
Ca	315.887†	2327335.3	25.40 mg/L	0.003	25.40 mg/L	0.003	0.01%
Cd	228.802†	238.9	0.0048 mg/L	0.00024	0.0048 mg/L	0.00024	5.01%
Co	228.616†	2775.6	0.0496 mg/L	0.00043	0.0496 mg/L	0.00043	0.88%
Cr	267.716†	23986.1	0.2125 mg/L	0.00122	0.2125 mg/L	0.00122	0.57%
Cu	324.752†	2231295.1	12.01 mg/L	0.016	12.01 mg/L	0.016	0.13%
Fe	234.349†	326077.0	217.4 mg/L	1.16	217.4 mg/L	1.16	0.53%
K	766.490†	12486.4	6.979 mg/L	0.0436	6.979 mg/L	0.0436	0.62%
Li	670.784†	3731.1	0.1070 mg/L	0.00351	0.1070 mg/L	0.00351	3.28%
Mg	279.077†	288177.4	23.26 mg/L	0.020	23.26 mg/L	0.020	0.09%
Mn	257.610†	3627882.1	4.620 mg/L	0.0001	4.620 mg/L	0.0001	0.00%
Mn	294.920†	1819398.8	4.746 mg/L	0.0027	4.746 mg/L	0.0027	0.06%
Mo	202.031†	837.6	-0.0620 mg/L	0.00001	-0.0620 mg/L	0.00001	0.01%
Na	589.592†	4519.0	0.9354 mg/L	0.01659	0.9354 mg/L	0.01659	1.77%
Ni	231.604†	7286.7	0.1641 mg/L	0.00038	0.1641 mg/L	0.00038	0.23%
P	214.914†	8050.4	4.965 mg/L	0.0027	4.965 mg/L	0.0027	0.05%
Pb	220.353†	44304.8	3.099 mg/L	0.0143	3.099 mg/L	0.0143	0.46%
Sb	206.836†	56.1	-0.0332 mg/L	0.00125	-0.0332 mg/L	0.00125	3.77%
Se	196.026†	-54.6	-0.0759 mg/L	0.00025	-0.0759 mg/L	0.00025	0.33%
Sn	189.927†	-102.8	-0.0009 mg/L	0.00088	-0.0009 mg/L	0.00088	95.29%
Sr	407.771†	142602.3	0.1666 mg/L	0.00087	0.1666 mg/L	0.00087	0.52%
Ti	337.279†	2389658.9	2.794 mg/L	0.0004	2.794 mg/L	0.0004	0.01%
Tl	190.801†	-8.1	-0.1377 mg/L	0.00371	-0.1377 mg/L	0.00371	2.69%
V	292.402†	45109.2	0.2030 mg/L	0.00078	0.2030 mg/L	0.00078	0.38%
Zn	213.857†	573567.6	4.197 mg/L	0.0028	4.197 mg/L	0.0028	0.07%

Sequence No.: 151
Sample ID: 1307090-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 128
Date Collected: 7/6/2013 12:08:58 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-16.8	-10.5	-0.0045 mg/L	-0.0045 mg/L	00:10:42
1	Fe 234.349†	314347.5	317843.0	211.9 mg/L	211.9 mg/L	00:10:40
1	K 766.490†	11974.7	11290.2	6.327 mg/L	6.327 mg/L	00:10:42
1	Li 670.784†	2737.3	3003.4	0.0870 mg/L	0.0870 mg/L	00:10:42
1	Na 589.592†	4305.6	3873.9	0.8181 mg/L	0.8181 mg/L	00:10:42
1	Sr 407.771†	125483.2	126810.7	0.1482 mg/L	0.1482 mg/L	00:10:40
1	Y 371.029	2671273.6	2671273.6	0.989 mg/L		00:10:52
1	Ag 328.068†	856.4	-999.2	0.0016 mg/L	0.0016 mg/L	00:10:54
1	Al 237.313†	571402.7	578199.4	64.00 mg/L	64.00 mg/L	00:10:52
1	As 188.979†	56.8	64.0	0.0507 mg/L	0.0507 mg/L	00:11:05
1	B 182.528†	21.2	31.0	0.0332 mg/L	0.0332 mg/L	00:11:05
1	Ba 233.527†	39099.9	39632.5	0.3484 mg/L	0.3484 mg/L	00:10:54
1	Be 313.107†	9650.0	11195.6	0.0047 mg/L	0.0047 mg/L	00:10:54
1	Ca 315.887†	1902671.3	1925745.4	21.02 mg/L	21.02 mg/L	00:10:52
1	Cd 228.802†	372.0	217.1	0.0042 mg/L	0.0042 mg/L	00:11:05
1	Co 228.616†	2069.7	2334.5	0.0410 mg/L	0.0410 mg/L	00:11:05
1	Cr 267.716†	22960.9	22650.5	0.2009 mg/L	0.2009 mg/L	00:10:54
1	Cu 324.752†	2200349.4	2220061.6	11.95 mg/L	11.95 mg/L	00:10:52
1	Mg 279.077†	243644.3	246355.4	19.88 mg/L	19.88 mg/L	00:10:52
1	Mn 257.610†	2097940.9	2105242.5	2.662 mg/L	2.662 mg/L	00:10:52
1	Mn 294.920†	1054196.8	1067274.4	2.785 mg/L	2.785 mg/L	00:10:52
1	Mo 202.031†	878.7	852.6	-0.0602 mg/L	-0.0602 mg/L	00:10:54
1	Ni 231.604†	7023.8	6944.0	0.1565 mg/L	0.1565 mg/L	00:10:54
1	P 214.914†	7303.0	7411.5	4.565 mg/L	4.565 mg/L	00:10:54
1	Pb 220.353†	41871.7	42156.1	2.952 mg/L	2.952 mg/L	00:10:54
1	Sb 206.836†	113.4	66.8	-0.0265 mg/L	-0.0265 mg/L	00:11:05
1	Se 196.026†	-40.2	-51.5	-0.0727 mg/L	-0.0727 mg/L	00:11:05
1	Sn 189.927†	-28.0	-57.6	0.0031 mg/L	0.0031 mg/L	00:11:05
1	Ti 337.279†	2258940.2	2284727.9	2.672 mg/L	2.672 mg/L	00:10:52
1	Tl 190.801†	-18.2	-13.6	-0.1397 mg/L	-0.1397 mg/L	00:11:05
1	V 292.402†	38129.5	38902.6	0.1750 mg/L	0.1750 mg/L	00:10:54
1	Zn 213.857†	557646.2	562713.8	4.117 mg/L	4.117 mg/L	00:10:52
2	B 249.677†	-19.4	-13.4	-0.0061 mg/L	-0.0061 mg/L	00:10:47
2	Fe 234.349†	310410.0	318501.0	212.4 mg/L	212.4 mg/L	00:10:45
2	K 766.490†	11946.8	11440.6	6.409 mg/L	6.409 mg/L	00:10:47

2	Li 670.784†	2715.5	3021.9	0.0875 mg/L	0.0875 mg/L	00:10:47
2	Na 589.592†	4346.0	3979.7	0.8373 mg/L	0.8373 mg/L	00:10:47
2	Sr 407.771†	124044.7	127210.2	0.1487 mg/L	0.1487 mg/L	00:10:45
2	Y 371.029	2632363.7	2632363.7	0.975 mg/L		00:11:08
2	Ag 328.068†	952.7	-887.6	0.0022 mg/L	0.0022 mg/L	00:11:10
2	Al 237.313†	562327.3	577427.4	63.92 mg/L	63.92 mg/L	00:11:08
2	As 188.979†	56.5	64.6	0.0511 mg/L	0.0511 mg/L	00:11:20
2	B 182.528†	20.3	30.4	0.0326 mg/L	0.0326 mg/L	00:11:20
2	Ba 233.527†	38649.2	39754.5	0.3495 mg/L	0.3495 mg/L	00:11:10
2	Be 313.107†	9433.8	11117.9	0.0047 mg/L	0.0047 mg/L	00:11:10
2	Ca 315.887†	1867043.5	1917625.6	20.94 mg/L	20.94 mg/L	00:11:08
2	Cd 228.802†	367.6	218.2	0.0042 mg/L	0.0042 mg/L	00:11:20
2	Co 228.616†	2116.1	2413.1	0.0426 mg/L	0.0426 mg/L	00:11:20
2	Cr 267.716†	22651.6	22676.3	0.2011 mg/L	0.2011 mg/L	00:11:10
2	Cu 324.752†	2167709.5	2219456.8	11.95 mg/L	11.95 mg/L	00:11:08
2	Mg 279.077†	239126.9	245361.7	19.80 mg/L	19.80 mg/L	00:11:08
2	Mn 257.610†	2066685.2	2104527.3	2.661 mg/L	2.661 mg/L	00:11:08
2	Mn 294.920†	1037369.6	1065764.3	2.781 mg/L	2.781 mg/L	00:11:08
2	Mo 202.031†	842.2	828.3	-0.0613 mg/L	-0.0613 mg/L	00:11:10
2	Ni 231.604†	6926.6	6949.3	0.1566 mg/L	0.1566 mg/L	00:11:10
2	P 214.914†	7154.3	7368.0	4.538 mg/L	4.538 mg/L	00:11:10
2	Pb 220.353†	41159.6	42051.3	2.944 mg/L	2.944 mg/L	00:11:10
2	Sb 206.836†	93.5	48.1	-0.0354 mg/L	-0.0354 mg/L	00:11:20
2	Se 196.026†	-47.3	-59.5	-0.0782 mg/L	-0.0782 mg/L	00:11:20
2	Sn 189.927†	-49.6	-80.2	-0.0003 mg/L	-0.0003 mg/L	00:11:20
2	Ti 337.279†	2229972.8	2288767.0	2.676 mg/L	2.676 mg/L	00:11:08
2	Tl 190.801†	-14.6	-10.2	-0.1367 mg/L	-0.1367 mg/L	00:11:20
2	V 292.402†	37434.4	38759.3	0.1744 mg/L	0.1744 mg/L	00:11:10
2	Zn 213.857†	549243.9	562426.9	4.115 mg/L	4.115 mg/L	00:11:08

Mean Data: 1307090-04

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2651818.7	0.982	mg/L	0.0102			1.04%
Ag 328.068†	-943.4	0.0019	mg/L	0.00045	0.0019 mg/L	0.00045	23.58%
Al 237.313†	577813.4	63.96	mg/L	0.060	63.96 mg/L	0.060	0.09%
As 188.979†	64.3	0.0509	mg/L	0.00027	0.0509 mg/L	0.00027	0.53%
B 249.677†	-11.9	-0.0053	mg/L	0.00115	-0.0053 mg/L	0.00115	21.67%
B 182.528†	30.7	0.0329	mg/L	0.00043	0.0329 mg/L	0.00043	1.31%
Ba 233.527†	39693.5	0.3490	mg/L	0.00075	0.3490 mg/L	0.00075	0.22%
Be 313.107†	11156.7	0.0047	mg/L	0.00002	0.0047 mg/L	0.00002	0.53%
Ca 315.887†	1921685.5	20.98	mg/L	0.063	20.98 mg/L	0.063	0.30%
Cd 228.802†	217.6	0.0042	mg/L	0.00002	0.0042 mg/L	0.00002	0.47%
Co 228.616†	2373.8	0.0418	mg/L	0.00110	0.0418 mg/L	0.00110	2.64%
Cr 267.716†	22663.4	0.2010	mg/L	0.00016	0.2010 mg/L	0.00016	0.08%
Cu 324.752†	2219759.2	11.95	mg/L	0.002	11.95 mg/L	0.002	0.02%
Fe 234.349†	318172.0	212.2	mg/L	0.31	212.2 mg/L	0.31	0.15%
K 766.490†	11365.4	6.368	mg/L	0.0580	6.368 mg/L	0.0580	0.91%
Li 670.784†	3012.7	0.0873	mg/L	0.00036	0.0873 mg/L	0.00036	0.41%
Mg 279.077†	245858.5	19.84	mg/L	0.057	19.84 mg/L	0.057	0.29%
Mn 257.610†	2104884.9	2.662	mg/L	0.0007	2.662 mg/L	0.0007	0.03%
Mn 294.920†	1066519.4	2.783	mg/L	0.0028	2.783 mg/L	0.0028	0.10%
Mo 202.031†	840.4	-0.0607	mg/L	0.00076	-0.0607 mg/L	0.00076	1.26%
Na 589.592†	3926.8	0.8277	mg/L	0.01361	0.8277 mg/L	0.01361	1.64%
Ni 231.604†	6946.7	0.1565	mg/L	0.00008	0.1565 mg/L	0.00008	0.05%
P 214.914†	7389.7	4.551	mg/L	0.0192	4.551 mg/L	0.0192	0.42%
Pb 220.353†	42103.7	2.948	mg/L	0.0052	2.948 mg/L	0.0052	0.18%
Sb 206.836†	57.4	-0.0309	mg/L	0.00629	-0.0309 mg/L	0.00629	20.32%
Se 196.026†	-55.5	-0.0754	mg/L	0.00392	-0.0754 mg/L	0.00392	5.19%
Sn 189.927†	-68.9	0.0014	mg/L	0.00240	0.0014 mg/L	0.00240	176.47%
Sr 407.771†	127010.5	0.1485	mg/L	0.00033	0.1485 mg/L	0.00033	0.22%
Ti 337.279†	2286747.5	2.674	mg/L	0.0033	2.674 mg/L	0.0033	0.12%
Tl 190.801†	-11.9	-0.1382	mg/L	0.00214	-0.1382 mg/L	0.00214	1.55%
V 292.402†	38831.0	0.1747	mg/L	0.00048	0.1747 mg/L	0.00048	0.27%
Zn 213.857†	562570.3	4.116	mg/L	0.0015	4.116 mg/L	0.0015	0.04%

Sequence No.: 152
Sample ID: 1307090-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 129
Date Collected: 7/6/2013 12:14:28 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-05

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	-27.1	-21.0	-0.0104 mg/L	-0.0104 mg/L	00:16:11
1	Fe 234.349†	280689.1	284974.1	190.0 mg/L	190.0 mg/L	00:16:09
1	K 766.490†	12031.9	11398.0	6.386 mg/L	6.386 mg/L	00:16:11
1	Li 670.784†	3104.3	3387.4	0.0976 mg/L	0.0976 mg/L	00:16:11
1	Na 589.592†	4159.4	3743.3	0.7943 mg/L	0.7943 mg/L	00:16:11
1	Sr 407.771†	120932.7	122711.1	0.1434 mg/L	0.1434 mg/L	00:16:09
1	Y 371.029	2660358.9	2660358.9	0.985 mg/L		00:16:21
1	Ag 328.068†	921.9	-929.1	0.0014 mg/L	0.0014 mg/L	00:16:23
1	Al 237.313†	670482.8	681164.8	75.40 mg/L	75.40 mg/L	00:16:21
1	As 188.979†	74.4	82.2	0.0639 mg/L	0.0639 mg/L	00:16:33
1	B 182.528†	16.8	26.6	0.0285 mg/L	0.0285 mg/L	00:16:33
1	Ba 233.527†	43214.6	43972.4	0.3862 mg/L	0.3862 mg/L	00:16:23
1	Be 313.107†	10687.5	12288.9	0.0052 mg/L	0.0052 mg/L	00:16:23
1	Ca 315.887†	1749037.7	1777655.9	19.41 mg/L	19.41 mg/L	00:16:21
1	Cd 228.802†	363.1	209.6	0.0043 mg/L	0.0043 mg/L	00:16:33
1	Co 228.616†	1988.7	2260.9	0.0397 mg/L	0.0397 mg/L	00:16:33
1	Cr 267.716†	23353.4	23144.2	0.2052 mg/L	0.2052 mg/L	00:16:23
1	Cu 324.752†	1765497.0	1787688.4	9.624 mg/L	9.624 mg/L	00:16:21
1	Mg 279.077†	240292.1	243962.7	19.69 mg/L	19.69 mg/L	00:16:21
1	Mn 257.610†	1667552.8	1676977.0	2.116 mg/L	2.116 mg/L	00:16:21
1	Mn 294.920†	838501.7	852654.5	2.225 mg/L	2.225 mg/L	00:16:21
1	Mo 202.031†	752.8	728.4	-0.0491 mg/L	-0.0491 mg/L	00:16:23
1	Ni 231.604†	6331.8	6270.5	0.1415 mg/L	0.1415 mg/L	00:16:23
1	P 214.914†	8103.4	8254.4	5.117 mg/L	5.117 mg/L	00:16:23
1	Pb 220.353†	50157.0	50741.8	3.556 mg/L	3.556 mg/L	00:16:23
1	Sb 206.836†	112.7	66.6	-0.0204 mg/L	-0.0204 mg/L	00:16:33
1	Se 196.026†	-41.8	-53.4	-0.0695 mg/L	-0.0695 mg/L	00:16:33
1	Sn 189.927†	-33.6	-63.4	0.0012 mg/L	0.0012 mg/L	00:16:33
1	Ti 337.279†	2185376.6	2219410.6	2.595 mg/L	2.595 mg/L	00:16:21
1	Tl 190.801†	-14.2	-9.7	-0.1228 mg/L	-0.1228 mg/L	00:16:33
1	V 292.402†	41543.4	42526.9	0.1921 mg/L	0.1921 mg/L	00:16:23
1	Zn 213.857†	452603.4	458378.2	3.354 mg/L	3.354 mg/L	00:16:21
2	B 249.677†	-28.8	-22.8	-0.0114 mg/L	-0.0114 mg/L	00:16:16
2	Fe 234.349†	279741.4	284254.3	189.5 mg/L	189.5 mg/L	00:16:14
2	K 766.490†	12082.8	11460.1	6.420 mg/L	6.420 mg/L	00:16:16
2	Li 670.784†	3210.1	3497.6	0.1006 mg/L	0.1006 mg/L	00:16:16
2	Na 589.592†	4306.8	3896.7	0.8222 mg/L	0.8222 mg/L	00:16:16
2	Sr 407.771†	120372.2	122246.5	0.1429 mg/L	0.1429 mg/L	00:16:14
2	Y 371.029	2658089.5	2658089.5	0.984 mg/L		00:16:37
2	Ag 328.068†	994.5	-854.6	0.0018 mg/L	0.0018 mg/L	00:16:39
2	Al 237.313†	669696.7	680947.2	75.37 mg/L	75.37 mg/L	00:16:37
2	As 188.979†	60.7	68.3	0.0538 mg/L	0.0538 mg/L	00:16:49
2	B 182.528†	21.8	31.8	0.0340 mg/L	0.0340 mg/L	00:16:49
2	Ba 233.527†	43115.9	43909.5	0.3857 mg/L	0.3857 mg/L	00:16:39
2	Be 313.107†	10601.1	12210.4	0.0052 mg/L	0.0052 mg/L	00:16:39
2	Ca 315.887†	1744945.1	1775013.3	19.38 mg/L	19.38 mg/L	00:16:37
2	Cd 228.802†	351.4	198.0	0.0040 mg/L	0.0040 mg/L	00:16:49
2	Co 228.616†	1951.1	2224.5	0.0390 mg/L	0.0390 mg/L	00:16:49
2	Cr 267.716†	23088.4	22895.2	0.2030 mg/L	0.2030 mg/L	00:16:39
2	Cu 324.752†	1764232.2	1787933.5	9.625 mg/L	9.625 mg/L	00:16:37
2	Mg 279.077†	239361.6	243225.5	19.63 mg/L	19.63 mg/L	00:16:37
2	Mn 257.610†	1666604.0	1677458.3	2.117 mg/L	2.117 mg/L	00:16:37
2	Mn 294.920†	837122.1	851979.6	2.223 mg/L	2.223 mg/L	00:16:37
2	Mo 202.031†	708.8	684.3	-0.0509 mg/L	-0.0509 mg/L	00:16:39
2	Ni 231.604†	6251.7	6194.7	0.1398 mg/L	0.1398 mg/L	00:16:39
2	P 214.914†	7958.2	8113.9	5.029 mg/L	5.029 mg/L	00:16:39
2	Pb 220.353†	49863.4	50486.9	3.538 mg/L	3.538 mg/L	00:16:39
2	Sb 206.836†	103.5	57.4	-0.0246 mg/L	-0.0246 mg/L	00:16:49
2	Se 196.026†	-26.7	-38.1	-0.0590 mg/L	-0.0590 mg/L	00:16:49
2	Sn 189.927†	-58.7	-88.9	-0.0026 mg/L	-0.0026 mg/L	00:16:49
2	Ti 337.279†	2181578.1	2217445.1	2.593 mg/L	2.593 mg/L	00:16:37
2	Tl 190.801†	-7.2	-2.5	-0.1156 mg/L	-0.1156 mg/L	00:16:49
2	V 292.402†	41273.4	42288.5	0.1909 mg/L	0.1909 mg/L	00:16:39
2	Zn 213.857†	451658.6	457810.5	3.349 mg/L	3.349 mg/L	00:16:37

Mean Data: 1307090-05

Mean Corrected

Calib

Sample Page 323 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2659224.2	0.985 mg/L	0.0006			0.06%
Ag 328.068†	-891.9	0.0016 mg/L	0.00028	0.0016 mg/L	0.00028	17.52%
Al 237.313†	681056.0	75.38 mg/L	0.017	75.38 mg/L	0.017	0.02%
As 188.979†	75.3	0.0588 mg/L	0.00713	0.0588 mg/L	0.00713	12.11%
B 249.677†	-21.9	-0.0109 mg/L	0.00070	-0.0109 mg/L	0.00070	6.40%
B 182.528†	29.2	0.0312 mg/L	0.00391	0.0312 mg/L	0.00391	12.51%
Ba 233.527†	43940.9	0.3860 mg/L	0.00039	0.3860 mg/L	0.00039	0.10%
Be 313.107†	12249.7	0.0052 mg/L	0.00002	0.0052 mg/L	0.00002	0.47%
Ca 315.887†	1776334.6	19.40 mg/L	0.020	19.40 mg/L	0.020	0.10%
Cd 228.802†	203.8	0.0041 mg/L	0.00025	0.0041 mg/L	0.00025	6.03%
Co 228.616†	2242.7	0.0393 mg/L	0.00051	0.0393 mg/L	0.00051	1.30%
Cr 267.716†	23019.7	0.2041 mg/L	0.00154	0.2041 mg/L	0.00154	0.75%
Cu 324.752†	1787811.0	9.624 mg/L	0.0009	9.624 mg/L	0.0009	0.01%
Fe 234.349†	284614.2	189.8 mg/L	0.34	189.8 mg/L	0.34	0.18%
K 766.490†	11429.1	6.403 mg/L	0.0239	6.403 mg/L	0.0239	0.37%
Li 670.784†	3442.5	0.0991 mg/L	0.00214	0.0991 mg/L	0.00214	2.16%
Mg 279.077†	243594.1	19.66 mg/L	0.042	19.66 mg/L	0.042	0.21%
Mn 257.610†	1677217.7	2.117 mg/L	0.0005	2.117 mg/L	0.0005	0.02%
Mn 294.920†	852317.1	2.224 mg/L	0.0012	2.224 mg/L	0.0012	0.06%
Mo 202.031†	706.4	-0.0500 mg/L	0.00128	-0.0500 mg/L	0.00128	2.56%
Na 589.592†	3820.0	0.8083 mg/L	0.01973	0.8083 mg/L	0.01973	2.44%
Ni 231.604†	6232.6	0.1406 mg/L	0.00120	0.1406 mg/L	0.00120	0.85%
P 214.914†	8184.1	5.073 mg/L	0.0622	5.073 mg/L	0.0622	1.23%
Pb 220.353†	50614.3	3.547 mg/L	0.0127	3.547 mg/L	0.0127	0.36%
Sb 206.836†	62.0	-0.0225 mg/L	0.00296	-0.0225 mg/L	0.00296	13.17%
Se 196.026†	-45.7	-0.0643 mg/L	0.00747	-0.0643 mg/L	0.00747	11.63%
Sn 189.927†	-76.2	-0.0007 mg/L	0.00268	-0.0007 mg/L	0.00268	385.94%
Sr 407.771†	122478.8	0.1432 mg/L	0.00038	0.1432 mg/L	0.00038	0.27%
Ti 337.279†	2218427.8	2.594 mg/L	0.0016	2.594 mg/L	0.0016	0.06%
Tl 190.801†	-6.1	-0.1192 mg/L	0.00513	-0.1192 mg/L	0.00513	4.30%
V 292.402†	42407.7	0.1915 mg/L	0.00079	0.1915 mg/L	0.00079	0.41%
Zn 213.857†	458094.4	3.352 mg/L	0.0029	3.352 mg/L	0.0029	0.09%

Sequence No.: 153
Sample ID: 1307090-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 130
Date Collected: 7/6/2013 12:18:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-2.4	4.0	0.0036 mg/L	0.0036 mg/L	00:20:09
1	Fe 234.349†	429811.5	432926.4	288.7 mg/L	288.7 mg/L	00:20:07
1	K 766.490†	15382.9	14676.8	8.173 mg/L	8.173 mg/L	00:20:09
1	Li 670.784†	3580.8	3842.4	0.1101 mg/L	0.1101 mg/L	00:20:09
1	Na 589.592†	5604.0	5165.0	1.053 mg/L	1.053 mg/L	00:20:09
1	Sr 407.771†	150194.7	151215.0	0.1767 mg/L	0.1767 mg/L	00:20:07
1	Y 371.029	2681559.9	2681559.9	0.993 mg/L		00:20:20
1	Ag 328.068†	1088.7	-768.5	0.0048 mg/L	0.0048 mg/L	00:20:22
1	Al 237.313†	692841.3	698303.7	77.29 mg/L	77.29 mg/L	00:20:20
1	As 188.979†	79.7	86.9	0.0673 mg/L	0.0673 mg/L	00:20:32
1	B 182.528†	26.8	36.5	0.0391 mg/L	0.0391 mg/L	00:20:32
1	Ba 233.527†	47006.2	47444.6	0.4165 mg/L	0.4165 mg/L	00:20:22
1	Be 313.107†	12143.0	13669.2	0.0057 mg/L	0.0057 mg/L	00:20:22
1	Ca 315.887†	2273967.7	2292358.6	25.02 mg/L	25.02 mg/L	00:20:20
1	Cd 228.802†	422.7	266.8	0.0044 mg/L	0.0044 mg/L	00:20:32
1	Co 228.616†	3550.0	3817.6	0.0695 mg/L	0.0695 mg/L	00:20:32
1	Cr 267.716†	30324.7	29978.7	0.2647 mg/L	0.2647 mg/L	00:20:22
1	Cu 324.752†	3268526.3	3287462.1	17.69 mg/L	17.69 mg/L	00:20:20
1	Mg 279.077†	343493.1	345984.4	27.92 mg/L	27.92 mg/L	00:20:22
1	Mn 257.610†	5227713.2	5249608.4	6.690 mg/L	6.690 mg/L	00:20:20
1	Mn 294.920†	2614760.0	2635082.8	6.873 mg/L	6.873 mg/L	00:20:20
1	Mo 202.031†	1208.8	1181.6	-0.0900 mg/L	-0.0900 mg/L	00:20:32
1	Ni 231.604†	10091.2	10006.4	0.2248 mg/L	0.2248 mg/L	00:20:32
1	P 214.914†	8772.8	8863.6	5.415 mg/L	5.415 mg/L	00:20:22
1	Pb 220.353†	49500.7	49678.1	3.476 mg/L	3.476 mg/L	00:20:22
1	Sb 206.836†	124.8	77.8	-0.0437 mg/L	-0.0437 mg/L	00:20:32
1	Se 196.026†	-63.9	-75.3	-0.1043 mg/L	-0.1043 mg/L	00:20:32
1	Sn 189.927†	35.7	6.6	0.0150 mg/L	0.0150 mg/L	00:20:32

1	Ti 337.279†	2723624.9	2744025.9	3.208 mg/L	3.208 mg/L	00:20:20
1	Tl 190.801†	-20.5	-15.8	-0.1880 mg/L	-0.1880 mg/L	00:20:32
1	V 292.402†	48332.5	49031.8	0.2198 mg/L	0.2198 mg/L	00:20:22
1	Zn 213.857†	715645.5	719697.6	5.261 mg/L	5.261 mg/L	00:20:20
2	B 249.677†	-22.0	-15.4	-0.0072 mg/L	-0.0072 mg/L	00:20:14
2	Fe 234.349†	424103.8	422479.3	281.7 mg/L	281.7 mg/L	00:20:12
2	K 766.490†	15095.9	14220.4	7.924 mg/L	7.924 mg/L	00:20:14
2	Li 670.784†	3577.5	3799.4	0.1089 mg/L	0.1089 mg/L	00:20:14
2	Na 589.592†	5611.5	5110.4	1.043 mg/L	1.043 mg/L	00:20:14
2	Sr 407.771†	148182.7	147546.9	0.1724 mg/L	0.1724 mg/L	00:20:12
2	Y 371.029	2711377.6	2711377.6	1.00 mg/L		00:20:36
2	Ag 328.068†	1081.4	-787.9	0.0045 mg/L	0.0045 mg/L	00:20:38
2	Al 237.313†	698364.3	696131.0	77.05 mg/L	77.05 mg/L	00:20:36
2	As 188.979†	82.4	88.7	0.0686 mg/L	0.0686 mg/L	00:20:49
2	B 182.528†	32.7	42.2	0.0452 mg/L	0.0452 mg/L	00:20:49
2	Ba 233.527†	47419.8	47335.9	0.4155 mg/L	0.4155 mg/L	00:20:38
2	Be 313.107†	12142.7	13534.4	0.0056 mg/L	0.0056 mg/L	00:20:38
2	Ca 315.887†	2292887.9	2286017.6	24.95 mg/L	24.95 mg/L	00:20:36
2	Cd 228.802†	424.1	263.5	0.0044 mg/L	0.0044 mg/L	00:20:49
2	Co 228.616†	3525.8	3754.2	0.0683 mg/L	0.0683 mg/L	00:20:49
2	Cr 267.716†	30438.5	29756.2	0.2628 mg/L	0.2628 mg/L	00:20:38
2	Cu 324.752†	3291721.8	3274363.2	17.62 mg/L	17.62 mg/L	00:20:36
2	Mg 279.077†	344992.6	343673.2	27.73 mg/L	27.73 mg/L	00:20:38
2	Mn 257.610†	5265564.2	5229407.1	6.666 mg/L	6.666 mg/L	00:20:36
2	Mn 294.920†	2634551.7	2625835.0	6.849 mg/L	6.849 mg/L	00:20:36
2	Mo 202.031†	1260.8	1220.1	-0.0869 mg/L	-0.0869 mg/L	00:20:49
2	Ni 231.604†	9982.7	9786.6	0.2199 mg/L	0.2199 mg/L	00:20:49
2	P 214.914†	8805.0	8798.5	5.375 mg/L	5.375 mg/L	00:20:38
2	Pb 220.353†	49469.6	49098.7	3.436 mg/L	3.436 mg/L	00:20:38
2	Sb 206.836†	122.3	74.0	-0.0435 mg/L	-0.0435 mg/L	00:20:49
2	Se 196.026†	-64.5	-75.1	-0.1028 mg/L	-0.1028 mg/L	00:20:49
2	Sn 189.927†	14.4	-15.0	0.0118 mg/L	0.0118 mg/L	00:20:49
2	Ti 337.279†	2741976.2	2732137.2	3.194 mg/L	3.194 mg/L	00:20:36
2	Tl 190.801†	-29.4	-24.5	-0.1923 mg/L	-0.1923 mg/L	00:20:49
2	V 292.402†	48595.3	48758.3	0.2186 mg/L	0.2186 mg/L	00:20:38
2	Zn 213.857†	722114.4	718214.6	5.251 mg/L	5.251 mg/L	00:20:36

Mean Data: 1307090-06

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2696468.7	0.998	mg/L	0.0078			0.78%
Ag 328.068†	-778.2	0.0046	mg/L	0.00020	0.0046 mg/L	0.00020	4.29%
Al 237.313†	697217.4	77.17	mg/L	0.170	77.17 mg/L	0.170	0.22%
As 188.979†	87.8	0.0679	mg/L	0.00095	0.0679 mg/L	0.00095	1.40%
B 249.677†	-5.7	-0.0018	mg/L	0.00765	-0.0018 mg/L	0.00765	423.05%
B 182.528†	39.3	0.0421	mg/L	0.00429	0.0421 mg/L	0.00429	10.19%
Ba 233.527†	47390.3	0.4160	mg/L	0.00067	0.4160 mg/L	0.00067	0.16%
Be 313.107†	13601.8	0.0056	mg/L	0.00004	0.0056 mg/L	0.00004	0.71%
Ca 315.887†	2289188.1	24.99	mg/L	0.049	24.99 mg/L	0.049	0.20%
Cd 228.802†	265.1	0.0044	mg/L	0.00001	0.0044 mg/L	0.00001	0.24%
Co 228.616†	3785.9	0.0689	mg/L	0.00088	0.0689 mg/L	0.00088	1.27%
Cr 267.716†	29867.4	0.2638	mg/L	0.00137	0.2638 mg/L	0.00137	0.52%
Cu 324.752†	3280912.6	17.66	mg/L	0.050	17.66 mg/L	0.050	0.28%
Fe 234.349†	427702.8	285.2	mg/L	4.93	285.2 mg/L	4.93	1.73%
K 766.490†	14448.6	8.049	mg/L	0.1759	8.049 mg/L	0.1759	2.19%
Li 670.784†	3820.9	0.1095	mg/L	0.00084	0.1095 mg/L	0.00084	0.76%
Mg 279.077†	344828.8	27.82	mg/L	0.132	27.82 mg/L	0.132	0.47%
Mn 257.610†	5239507.8	6.678	mg/L	0.0173	6.678 mg/L	0.0173	0.26%
Mn 294.920†	2630458.9	6.861	mg/L	0.0171	6.861 mg/L	0.0171	0.25%
Mo 202.031†	1200.9	-0.0884	mg/L	0.00218	-0.0884 mg/L	0.00218	2.46%
Na 589.592†	5137.7	1.048	mg/L	0.0070	1.048 mg/L	0.0070	0.67%
Ni 231.604†	9896.5	0.2223	mg/L	0.00346	0.2223 mg/L	0.00346	1.56%
P 214.914†	8831.1	5.395	mg/L	0.0283	5.395 mg/L	0.0283	0.53%
Pb 220.353†	49388.4	3.456	mg/L	0.0288	3.456 mg/L	0.0288	0.83%
Sb 206.836†	75.9	-0.0436	mg/L	0.00015	-0.0436 mg/L	0.00015	0.34%
Se 196.026†	-75.2	-0.1035	mg/L	0.00106	-0.1035 mg/L	0.00106	1.02%
Sn 189.927†	-4.2	0.0134	mg/L	0.00229	0.0134 mg/L	0.00229	17.05%
Sr 407.771†	149381.0	0.1745	mg/L	0.00302	0.1745 mg/L	0.00302	1.73%
Ti 337.279†	2738081.6	3.201	mg/L	0.0098	3.201 mg/L	0.0098	0.31%
Tl 190.801†	-20.1	-0.1902	mg/L	0.00299	-0.1902 mg/L	0.00299	1.57%
V 292.402†	48895.0	0.2192	mg/L	0.00084	0.2192 mg/L	0.00084	0.39%
Zn 213.857†	718956.1	5.256	mg/L	0.0074	5.256 mg/L	0.0074	0.14%

Sequence No.: 154
Sample ID: 1307090-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 131
Date Collected: 7/6/2013 12:23:57 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-46.8	-40.6	-0.0213 mg/L	-0.0213 mg/L	00:25:41
1	Fe 234.349†	510411.5	513612.5	342.5 mg/L	342.5 mg/L	00:25:39
1	K 766.490†	16832.5	16120.5	8.960 mg/L	8.960 mg/L	00:25:41
1	Li 670.784†	4045.3	4306.3	0.1228 mg/L	0.1228 mg/L	00:25:41
1	Na 589.592†	6252.3	5811.9	1.171 mg/L	1.171 mg/L	00:25:41
1	Sr 407.771†	158511.1	159436.7	0.1863 mg/L	0.1863 mg/L	00:25:39
1	Y 371.029	2684166.5	2684166.5	0.994 mg/L		00:25:52
1	Ag 328.068†	588.0	-1273.4	0.0033 mg/L	0.0033 mg/L	00:25:54
1	Al 237.313†	712983.3	717894.6	79.46 mg/L	79.46 mg/L	00:25:52
1	As 188.979†	74.2	81.3	0.0632 mg/L	0.0632 mg/L	00:26:04
1	B 182.528†	36.6	46.4	0.0497 mg/L	0.0497 mg/L	00:26:04
1	Ba 233.527†	48758.3	49161.7	0.4314 mg/L	0.4314 mg/L	00:25:54
1	Be 313.107†	13037.6	14557.6	0.0060 mg/L	0.0060 mg/L	00:25:54
1	Ca 315.887†	2327375.6	2343877.8	25.58 mg/L	25.58 mg/L	00:25:52
1	Cd 228.802†	449.8	293.6	0.0044 mg/L	0.0044 mg/L	00:26:04
1	Co 228.616†	3555.8	3819.9	0.0690 mg/L	0.0690 mg/L	00:26:04
1	Cr 267.716†	34368.1	34017.9	0.3000 mg/L	0.3000 mg/L	00:25:54
1	Cu 324.752†	3198926.7	3214227.9	17.30 mg/L	17.30 mg/L	00:25:52
1	Mg 279.077†	371707.5	374040.1	30.18 mg/L	30.18 mg/L	00:25:54
1	Mn 257.610†	5166473.2	5182870.0	6.592 mg/L	6.592 mg/L	00:25:52
1	Mn 294.920†	2592142.7	2609765.6	6.807 mg/L	6.807 mg/L	00:25:52
1	Mo 202.031†	1397.1	1369.9	-0.0878 mg/L	-0.0878 mg/L	00:25:54
1	Ni 231.604†	10742.8	10652.3	0.2392 mg/L	0.2392 mg/L	00:26:04
1	P 214.914†	9636.6	9724.3	5.958 mg/L	5.958 mg/L	00:25:54
1	Pb 220.353†	52016.1	52160.8	3.651 mg/L	3.651 mg/L	00:25:54
1	Sb 206.836†	126.4	79.4	-0.0586 mg/L	-0.0586 mg/L	00:26:04
1	Se 196.026†	-67.5	-78.8	-0.1175 mg/L	-0.1175 mg/L	00:26:04
1	Sn 189.927†	45.7	16.7	0.0169 mg/L	0.0169 mg/L	00:26:04
1	Ti 337.279†	2978708.2	2998048.0	3.504 mg/L	3.504 mg/L	00:25:52
1	Tl 190.801†	-21.8	-17.2	-0.2217 mg/L	-0.2217 mg/L	00:26:04
1	V 292.402†	51230.1	51900.4	0.2325 mg/L	0.2325 mg/L	00:25:54
1	Zn 213.857†	726773.1	730195.2	5.336 mg/L	5.336 mg/L	00:25:52
2	B 249.677†	-25.0	-16.1	-0.0076 mg/L	-0.0076 mg/L	00:25:46
2	Fe 234.349†	493141.9	445412.2	297.0 mg/L	297.0 mg/L	00:25:44
2	K 766.490†	16512.6	14096.7	7.857 mg/L	7.857 mg/L	00:25:46
2	Li 670.784†	4008.4	3856.1	0.1104 mg/L	0.1104 mg/L	00:25:46
2	Na 589.592†	6034.9	4971.2	1.018 mg/L	1.018 mg/L	00:25:46
2	Sr 407.771†	153184.4	138289.7	0.1616 mg/L	0.1616 mg/L	00:25:44
2	Y 371.029	2990429.1	2990429.1	1.11 mg/L		00:26:08
2	Ag 328.068†	707.6	-1226.0	0.0024 mg/L	0.0024 mg/L	00:26:10
2	Al 237.313†	686496.3	620492.3	68.68 mg/L	68.68 mg/L	00:26:08
2	As 188.979†	83.1	81.7	0.0635 mg/L	0.0635 mg/L	00:26:21
2	B 182.528†	34.2	40.4	0.0433 mg/L	0.0433 mg/L	00:26:21
2	Ba 233.527†	48034.0	43482.6	0.3820 mg/L	0.3820 mg/L	00:26:10
2	Be 313.107†	12753.2	12957.1	0.0054 mg/L	0.0054 mg/L	00:26:10
2	Ca 315.887†	2239485.5	2024638.7	22.10 mg/L	22.10 mg/L	00:26:08
2	Cd 228.802†	451.1	248.4	0.0037 mg/L	0.0037 mg/L	00:26:21
2	Co 228.616†	3535.0	3434.7	0.0623 mg/L	0.0623 mg/L	00:26:21
2	Cr 267.716†	33706.6	29878.5	0.2639 mg/L	0.2639 mg/L	00:26:10
2	Cu 324.752†	3082103.3	2779035.2	14.96 mg/L	14.96 mg/L	00:26:08
2	Mg 279.077†	364303.0	329044.7	26.55 mg/L	26.55 mg/L	00:26:10
2	Mn 257.610†	4981174.1	4483057.2	5.702 mg/L	5.702 mg/L	00:26:08
2	Mn 294.920†	2497879.6	2257484.0	5.889 mg/L	5.889 mg/L	00:26:08
2	Mo 202.031†	1304.7	1142.5	-0.0775 mg/L	-0.0775 mg/L	00:26:10
2	Ni 231.604†	10742.0	9544.5	0.2145 mg/L	0.2145 mg/L	00:26:21
2	P 214.914†	9501.0	8608.6	5.284 mg/L	5.284 mg/L	00:26:10
2	Pb 220.353†	51167.5	46033.8	3.223 mg/L	3.223 mg/L	00:26:10
2	Sb 206.836†	128.4	68.2	-0.0506 mg/L	-0.0506 mg/L	00:26:21
2	Se 196.026†	-75.8	-79.4	-0.1088 mg/L	-0.1088 mg/L	00:26:21
2	Sn 189.927†	61.1	25.9	0.0161 mg/L	0.0161 mg/L	00:26:21
2	Ti 337.279†	2869028.2	2592002.8	3.030 mg/L	3.030 mg/L	00:26:08

2	Tl 190.801†	-20.7	-13.9	-0.1911 mg/L	-0.1911 mg/L	00:26:21
2	V 292.402†	50328.1	45806.0	0.2058 mg/L	0.2058 mg/L	00:26:10
2	Zn 213.857†	700884.3	631912.1	4.618 mg/L	4.618 mg/L	00:26:08

Mean Data: 1307090-07

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2837297.8	1.05	mg/L	0.080			7.63%
Ag 328.068†	-1249.7	0.0029	mg/L	0.00062	0.0029 mg/L	0.00062	21.53%
Al 237.313†	669193.4	74.07	mg/L	7.622	74.07 mg/L	7.622	10.29%
As 188.979†	81.5	0.0633	mg/L	0.00023	0.0633 mg/L	0.00023	0.37%
B 249.677†	-28.4	-0.0144	mg/L	0.00963	-0.0144 mg/L	0.00963	66.72%
B 182.528†	43.4	0.0465	mg/L	0.00451	0.0465 mg/L	0.00451	9.71%
Ba 233.527†	46322.2	0.4067	mg/L	0.03499	0.4067 mg/L	0.03499	8.60%
Be 313.107†	13757.3	0.0057	mg/L	0.00042	0.0057 mg/L	0.00042	7.40%
Ca 315.887†	2184258.3	23.84	mg/L	2.460	23.84 mg/L	2.460	10.32%
Cd 228.802†	271.0	0.0040	mg/L	0.00045	0.0040 mg/L	0.00045	11.21%
Co 228.616†	3627.3	0.0656	mg/L	0.00473	0.0656 mg/L	0.00473	7.22%
Cr 267.716†	31948.2	0.2819	mg/L	0.02552	0.2819 mg/L	0.02552	9.05%
Cu 324.752†	2996631.6	16.13	mg/L	1.656	16.13 mg/L	1.656	10.27%
Fe 234.349†	479512.3	319.7	mg/L	32.16	319.7 mg/L	32.16	10.06%
K 766.490†	15108.6	8.408	mg/L	0.7799	8.408 mg/L	0.7799	9.28%
Li 670.784†	4081.2	0.1166	mg/L	0.00875	0.1166 mg/L	0.00875	7.50%
Mg 279.077†	351542.4	28.36	mg/L	2.565	28.36 mg/L	2.565	9.04%
Mn 257.610†	4832963.6	6.147	mg/L	0.6294	6.147 mg/L	0.6294	10.24%
Mn 294.920†	2433624.8	6.348	mg/L	0.6496	6.348 mg/L	0.6496	10.23%
Mo 202.031†	1256.2	-0.0827	mg/L	0.00729	-0.0827 mg/L	0.00729	8.82%
Na 589.592†	5391.6	1.094	mg/L	0.1082	1.094 mg/L	0.1082	9.89%
Ni 231.604†	10098.4	0.2268	mg/L	0.01747	0.2268 mg/L	0.01747	7.70%
P 214.914†	9166.5	5.621	mg/L	0.4769	5.621 mg/L	0.4769	8.48%
Pb 220.353†	49097.3	3.437	mg/L	0.3030	3.437 mg/L	0.3030	8.81%
Sb 206.836†	73.8	-0.0546	mg/L	0.00564	-0.0546 mg/L	0.00564	10.33%
Se 196.026†	-79.1	-0.1131	mg/L	0.00616	-0.1131 mg/L	0.00616	5.44%
Sn 189.927†	21.3	0.0165	mg/L	0.00056	0.0165 mg/L	0.00056	3.39%
Sr 407.771†	148863.2	0.1739	mg/L	0.01743	0.1739 mg/L	0.01743	10.02%
Ti 337.279†	2795025.4	3.267	mg/L	0.3351	3.267 mg/L	0.3351	10.26%
Tl 190.801†	-15.5	-0.2064	mg/L	0.02162	-0.2064 mg/L	0.02162	10.47%
V 292.402†	48853.2	0.2192	mg/L	0.01883	0.2192 mg/L	0.01883	8.59%
Zn 213.857†	681053.6	4.977	mg/L	0.5077	4.977 mg/L	0.5077	10.20%

Sequence No.: 155
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/6/2013 12:29:30 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	799.1	859.1	0.4801 mg/L	0.4801 mg/L	00:31:20
1	Fe 234.349†	3430.9	3654.0	2.432 mg/L	2.432 mg/L	00:31:20
1	K 766.490†	43847.0	45966.9	25.23 mg/L	25.23 mg/L	00:31:10
1	Li 670.784†	17095.1	18476.1	0.5123 mg/L	0.5123 mg/L	00:31:10
1	Na 589.592†	131152.7	139460.3	25.49 mg/L	25.49 mg/L	00:31:10
1	Sr 407.771†	39515.1	42092.1	0.0494 mg/L	0.0494 mg/L	00:31:10
1	Y 371.029	2531428.5	2531428.5	0.937 mg/L		00:31:37
1	Ag 328.068†	44986.2	46135.1	0.2576 mg/L	0.2576 mg/L	00:31:39
1	Al 237.313†	20827.4	22653.3	2.522 mg/L	2.522 mg/L	00:31:39
1	As 188.979†	619.7	667.8	0.4897 mg/L	0.4897 mg/L	00:31:49
1	B 182.528†	423.8	461.7	0.4955 mg/L	0.4955 mg/L	00:31:49
1	Ba 233.527†	53645.1	57336.3	0.5027 mg/L	0.5027 mg/L	00:31:39
1	Be 313.107†	105546.7	114056.4	0.0505 mg/L	0.0505 mg/L	00:31:39
1	Ca 315.887†	408161.3	437383.9	4.804 mg/L	4.804 mg/L	00:31:37
1	Cd 228.802†	7612.3	7963.2	0.2496 mg/L	0.2496 mg/L	00:31:49
1	Co 228.616†	23065.9	24853.1	0.4964 mg/L	0.4964 mg/L	00:31:39
1	Cr 267.716†	54324.5	57398.1	0.5041 mg/L	0.5041 mg/L	00:31:39
1	Cu 324.752†	93628.0	95098.2	0.5163 mg/L	0.5163 mg/L	00:31:39
1	Mg 279.077†	57773.1	61640.5	4.993 mg/L	4.993 mg/L	00:31:39
1	Mn 257.610†	383853.8	393499.7	0.5074 mg/L	0.5074 mg/L	00:31:39
1	Mn 294.920†	179559.1	192922.0	0.5046 mg/L	0.5046 mg/L	00:31:39

1	Mo 202.031†	10908.2	11603.1	0.4923 mg/L	0.4923 mg/L	00:31:49
1	Ni 231.604†	21087.9	22342.8	0.5004 mg/L	0.5004 mg/L	00:31:39
1	P 214.914†	7220.8	7731.7	4.881 mg/L	4.881 mg/L	00:31:49
1	Pb 220.353†	6718.0	6985.9	0.4934 mg/L	0.4934 mg/L	00:31:49
1	Sb 206.836†	1035.8	1057.3	0.4984 mg/L	0.4984 mg/L	00:31:49
1	Se 196.026†	1369.8	1450.7	0.9988 mg/L	0.9988 mg/L	00:31:49
1	Sn 189.927†	3185.8	3369.9	0.5004 mg/L	0.5004 mg/L	00:31:49
1	Ti 337.279†	402763.8	430369.0	0.5072 mg/L	0.5072 mg/L	00:31:39
1	Tl 190.801†	472.2	508.6	0.4920 mg/L	0.4920 mg/L	00:31:49
1	V 292.402†	103276.8	110544.7	0.5149 mg/L	0.5149 mg/L	00:31:39
1	Zn 213.857†	65426.6	68664.8	0.5037 mg/L	0.5037 mg/L	00:31:39
2	B 249.677†	809.9	861.8	0.4816 mg/L	0.4816 mg/L	00:31:33
2	Fe 234.349†	3446.5	3632.9	2.418 mg/L	2.418 mg/L	00:31:33
2	K 766.490†	44281.7	45946.3	25.21 mg/L	25.21 mg/L	00:31:23
2	Li 670.784†	17126.2	18321.9	0.5081 mg/L	0.5081 mg/L	00:31:23
2	Na 589.592†	131583.9	138480.8	25.31 mg/L	25.31 mg/L	00:31:23
2	Sr 407.771†	39612.2	41762.3	0.0491 mg/L	0.0491 mg/L	00:31:23
2	Y 371.029	2557653.5	2557653.5	0.947 mg/L	0.947 mg/L	00:31:52
2	Ag 328.068†	45020.5	45679.2	0.2551 mg/L	0.2551 mg/L	00:31:54
2	Al 237.313†	20811.8	22409.0	2.495 mg/L	2.495 mg/L	00:31:54
2	As 188.979†	616.2	657.4	0.4821 mg/L	0.4821 mg/L	00:32:04
2	B 182.528†	426.9	460.4	0.4941 mg/L	0.4941 mg/L	00:32:04
2	Ba 233.527†	53786.5	56898.8	0.4988 mg/L	0.4988 mg/L	00:31:54
2	Be 313.107†	105967.8	113346.4	0.0502 mg/L	0.0502 mg/L	00:31:54
2	Ca 315.887†	413310.3	438356.0	4.815 mg/L	4.815 mg/L	00:31:52
2	Cd 228.802†	7617.6	7885.6	0.2472 mg/L	0.2472 mg/L	00:32:04
2	Co 228.616†	23187.5	24729.2	0.4940 mg/L	0.4940 mg/L	00:31:54
2	Cr 267.716†	54472.4	56959.9	0.5003 mg/L	0.5003 mg/L	00:31:54
2	Cu 324.752†	93905.8	94367.3	0.5123 mg/L	0.5123 mg/L	00:31:54
2	Mg 279.077†	58199.9	61459.1	4.979 mg/L	4.979 mg/L	00:31:54
2	Mn 257.610†	385609.1	391153.8	0.5044 mg/L	0.5044 mg/L	00:31:54
2	Mn 294.920†	180211.1	191646.1	0.5013 mg/L	0.5013 mg/L	00:31:54
2	Mo 202.031†	10951.2	11529.2	0.4891 mg/L	0.4891 mg/L	00:32:04
2	Ni 231.604†	21329.8	22367.5	0.5010 mg/L	0.5010 mg/L	00:31:54
2	P 214.914†	7217.6	7649.3	4.829 mg/L	4.829 mg/L	00:32:04
2	Pb 220.353†	6738.8	6934.4	0.4898 mg/L	0.4898 mg/L	00:32:04
2	Sb 206.836†	1024.5	1034.0	0.4875 mg/L	0.4875 mg/L	00:32:04
2	Se 196.026†	1354.7	1419.8	0.9776 mg/L	0.9776 mg/L	00:32:04
2	Sn 189.927†	3172.3	3320.9	0.4931 mg/L	0.4931 mg/L	00:32:04
2	Ti 337.279†	404375.3	427664.4	0.5041 mg/L	0.5041 mg/L	00:31:54
2	Tl 190.801†	468.7	499.8	0.4834 mg/L	0.4834 mg/L	00:32:04
2	V 292.402†	103873.6	110045.1	0.5126 mg/L	0.5126 mg/L	00:31:54
2	Zn 213.857†	65765.0	68306.3	0.5011 mg/L	0.5011 mg/L	00:31:54

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2544541.0	0.942 mg/L	0.0069			0.73%
Ag 328.068†	45907.2	0.2563 mg/L	0.00179	0.2563 mg/L	0.00179	0.70%
QC value within limits for Ag 328.068 Recovery = 102.53%						
Al 237.313†	22531.1	2.509 mg/L	0.0191	2.509 mg/L	0.0191	0.76%
QC value within limits for Al 237.313 Recovery = 100.35%						
As 188.979†	662.6	0.4859 mg/L	0.00537	0.4859 mg/L	0.00537	1.11%
QC value within limits for As 188.979 Recovery = 97.18%						
B 249.677†	860.5	0.4808 mg/L	0.00103	0.4808 mg/L	0.00103	0.21%
QC value within limits for B 249.677 Recovery = 96.17%						
B 182.528†	461.1	0.4948 mg/L	0.00102	0.4948 mg/L	0.00102	0.21%
QC value within limits for B 182.528 Recovery = 98.96%						
Ba 233.527†	57117.6	0.5008 mg/L	0.00270	0.5008 mg/L	0.00270	0.54%
QC value within limits for Ba 233.527 Recovery = 100.15%						
Be 313.107†	113701.4	0.0503 mg/L	0.00022	0.0503 mg/L	0.00022	0.44%
QC value within limits for Be 313.107 Recovery = 100.64%						
Ca 315.887†	437869.9	4.810 mg/L	0.0075	4.810 mg/L	0.0075	0.16%
QC value within limits for Ca 315.887 Recovery = 96.19%						
Cd 228.802†	7924.4	0.2484 mg/L	0.00171	0.2484 mg/L	0.00171	0.69%
QC value within limits for Cd 228.802 Recovery = 99.37%						
Co 228.616†	24791.1	0.4952 mg/L	0.00175	0.4952 mg/L	0.00175	0.35%
QC value within limits for Co 228.616 Recovery = 99.04%						
Cr 267.716†	57179.0	0.5022 mg/L	0.00270	0.5022 mg/L	0.00270	0.54%
QC value within limits for Cr 267.716 Recovery = 100.44%						
Cu 324.752†	94732.8	0.5143 mg/L	0.00278	0.5143 mg/L	0.00278	0.54%
QC value within limits for Cu 324.752 Recovery = 102.86%						

Fe 234.349†	3643.4	2.425 mg/L	0.0099	2.425 mg/L	0.0099	0.41%
QC value within limits for Fe 234.349 Recovery = 97.00%						
K 766.490†	45956.6	25.22 mg/L	0.008	25.22 mg/L	0.008	0.03%
QC value within limits for K 766.490 Recovery = 100.88%						
Li 670.784†	18399.0	0.5102 mg/L	0.00300	0.5102 mg/L	0.00300	0.59%
QC value within limits for Li 670.784 Recovery = 102.03%						
Mg 279.077†	61549.8	4.986 mg/L	0.0103	4.986 mg/L	0.0103	0.21%
QC value within limits for Mg 279.077 Recovery = 99.72%						
Mn 257.610†	392326.8	0.5059 mg/L	0.00213	0.5059 mg/L	0.00213	0.42%
QC value within limits for Mn 257.610 Recovery = 101.18%						
Mn 294.920†	192284.0	0.5030 mg/L	0.00235	0.5030 mg/L	0.00235	0.47%
QC value within limits for Mn 294.920 Recovery = 100.59%						
Mo 202.031†	11566.1	0.4907 mg/L	0.00220	0.4907 mg/L	0.00220	0.45%
QC value within limits for Mo 202.031 Recovery = 98.14%						
Na 589.592†	138970.5	25.40 mg/L	0.126	25.40 mg/L	0.126	0.50%
QC value within limits for Na 589.592 Recovery = 101.59%						
Ni 231.604†	22355.1	0.5007 mg/L	0.00039	0.5007 mg/L	0.00039	0.08%
QC value within limits for Ni 231.604 Recovery = 100.14%						
P 214.914†	7690.5	4.855 mg/L	0.0364	4.855 mg/L	0.0364	0.75%
QC value within limits for P 214.914 Recovery = 97.10%						
Pb 220.353†	6960.2	0.4916 mg/L	0.00257	0.4916 mg/L	0.00257	0.52%
QC value within limits for Pb 220.353 Recovery = 98.32%						
Sb 206.836†	1045.7	0.4930 mg/L	0.00770	0.4930 mg/L	0.00770	1.56%
QC value within limits for Sb 206.836 Recovery = 98.59%						
Se 196.026†	1435.2	0.9882 mg/L	0.01500	0.9882 mg/L	0.01500	1.52%
QC value within limits for Se 196.026 Recovery = 98.82%						
Sn 189.927†	3345.4	0.4967 mg/L	0.00513	0.4967 mg/L	0.00513	1.03%
QC value within limits for Sn 189.927 Recovery = 99.35%						
Sr 407.771†	41927.2	0.0493 mg/L	0.00027	0.0493 mg/L	0.00027	0.55%
QC value within limits for Sr 407.771 Recovery = 98.51%						
Ti 337.279†	429016.7	0.5056 mg/L	0.00223	0.5056 mg/L	0.00223	0.44%
QC value within limits for Ti 337.279 Recovery = 101.13%						
Tl 190.801†	504.2	0.4877 mg/L	0.00607	0.4877 mg/L	0.00607	1.24%
QC value within limits for Tl 190.801 Recovery = 97.54%						
V 292.402†	110294.9	0.5137 mg/L	0.00164	0.5137 mg/L	0.00164	0.32%
QC value within limits for V 292.402 Recovery = 102.75%						
Zn 213.857†	68485.5	0.5024 mg/L	0.00186	0.5024 mg/L	0.00186	0.37%
QC value within limits for Zn 213.857 Recovery = 100.47%						
All analyte(s) passed QC.						

Sequence No.: 156

Sample ID: CCB1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 7/6/2013 12:33:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-4.4	1.9	0.0024	mg/L	0.0024	mg/L	00:35:32
1	Fe 234.349†	24.2	18.4	0.0228	mg/L	0.0228	mg/L	00:35:32
1	K 766.490†	935.6	152.1	0.2572	mg/L	0.2572	mg/L	00:35:22
1	Li 670.784†	-283.8	-58.6	0.0028	mg/L	0.0028	mg/L	00:35:22
1	Na 589.592†	329.5	-138.1	0.0881	mg/L	0.0881	mg/L	00:35:22
1	Sr 407.771†	47.4	-21.4	0.0003	mg/L	0.0003	mg/L	00:35:22
1	Y 371.029	2605475.8	2605475.8	0.965	mg/L			00:35:48
1	Ag 328.068†	1778.1	-21.8	0.0017	mg/L	0.0017	mg/L	00:35:50
1	Al 237.313†	-309.0	110.1	0.0255	mg/L	0.0255	mg/L	00:35:50
1	As 188.979†	-4.9	1.5	0.0055	mg/L	0.0055	mg/L	00:36:00
1	B 182.528†	-2.8	6.6	0.0070	mg/L	0.0070	mg/L	00:36:00
1	Ba 233.527†	-60.3	34.5	0.0034	mg/L	0.0034	mg/L	00:36:00
1	Be 313.107†	-1348.3	40.3	0.0004	mg/L	0.0004	mg/L	00:35:50
1	Ca 315.887†	-1598.1	218.8	0.0383	mg/L	0.0383	mg/L	00:35:50
1	Cd 228.802†	153.1	-0.3	0.0010	mg/L	0.0010	mg/L	00:36:00
1	Co 228.616†	-209.5	24.6	0.0005	mg/L	0.0005	mg/L	00:36:00
1	Cr 267.716†	534.8	-11.8	0.0033	mg/L	0.0033	mg/L	00:35:50
1	Cu 324.752†	5754.2	1162.3	0.0107	mg/L	0.0107	mg/L	00:35:50
1	Mg 279.077†	7.9	4.8	0.0256	mg/L	0.0256	mg/L	00:35:50
1	Mn 257.610†	15180.4	-335.3	0.0013	mg/L	0.0013	mg/L	00:35:50
1	Mn 294.920†	-1054.8	238.8	0.0021	mg/L	0.0021	mg/L	00:35:50
1	Mo 202.031†	52.9	18.9	0.0033	mg/L	0.0033	mg/L	00:36:00

1	Ni 231.604†	183.3	31.9	0.0023 mg/L	0.0023 mg/L	00:35:50
1	P 214.914†	-22.6	3.7	0.0491 mg/L	0.0491 mg/L	00:36:00
1	Pb 220.353†	166.2	-9.8	-0.0008 mg/L	-0.0008 mg/L	00:36:00
1	Sb 206.836†	49.0	3.0	0.0056 mg/L	0.0056 mg/L	00:36:00
1	Se 196.026†	14.5	4.2	0.0079 mg/L	0.0079 mg/L	00:36:00
1	Sn 189.927†	21.1	-7.5	-0.0025 mg/L	-0.0025 mg/L	00:36:00
1	Ti 337.279†	-436.3	167.4	0.0051 mg/L	0.0051 mg/L	00:35:50
1	Tl 190.801†	-6.6	-2.1	-0.0009 mg/L	-0.0009 mg/L	00:36:00
1	V 292.402†	-271.1	67.2	0.0049 mg/L	0.0049 mg/L	00:35:50
1	Zn 213.857†	1478.0	386.8	0.0055 mg/L	0.0055 mg/L	00:36:00
2	B 249.677†	-7.8	-1.6	0.0004 mg/L	0.0004 mg/L	00:35:44
2	Fe 234.349†	14.7	8.6	0.0163 mg/L	0.0163 mg/L	00:35:44
2	K 766.490†	988.5	213.2	0.2905 mg/L	0.2905 mg/L	00:35:34
2	Li 670.784†	-320.6	-98.9	0.0017 mg/L	0.0017 mg/L	00:35:34
2	Na 589.592†	224.6	-245.4	0.0686 mg/L	0.0686 mg/L	00:35:34
2	Sr 407.771†	127.7	62.7	0.0004 mg/L	0.0004 mg/L	00:35:34
2	Y 371.029	2589338.5	2589338.5	0.959 mg/L		00:36:02
2	Ag 328.068†	1682.6	-110.0	0.0012 mg/L	0.0012 mg/L	00:36:05
2	Al 237.313†	-333.5	82.5	0.0225 mg/L	0.0225 mg/L	00:36:05
2	As 188.979†	1.1	7.8	0.0100 mg/L	0.0100 mg/L	00:36:15
2	B 182.528†	-8.0	1.2	0.0012 mg/L	0.0012 mg/L	00:36:15
2	Ba 233.527†	-96.6	-3.7	0.0031 mg/L	0.0031 mg/L	00:36:15
2	Be 313.107†	-1294.6	87.6	0.0004 mg/L	0.0004 mg/L	00:36:05
2	Ca 315.887†	-1565.5	242.5	0.0386 mg/L	0.0386 mg/L	00:36:05
2	Cd 228.802†	147.4	-5.3	0.0008 mg/L	0.0008 mg/L	00:36:15
2	Co 228.616†	-218.5	13.9	0.0003 mg/L	0.0003 mg/L	00:36:15
2	Cr 267.716†	562.5	20.6	0.0036 mg/L	0.0036 mg/L	00:36:05
2	Cu 324.752†	5798.8	1246.1	0.0111 mg/L	0.0111 mg/L	00:36:05
2	Mg 279.077†	35.4	33.5	0.0279 mg/L	0.0279 mg/L	00:36:05
2	Mn 257.610†	15426.9	19.8	0.0017 mg/L	0.0017 mg/L	00:36:05
2	Mn 294.920†	-1137.0	146.3	0.0019 mg/L	0.0019 mg/L	00:36:05
2	Mo 202.031†	58.4	25.0	0.0035 mg/L	0.0035 mg/L	00:36:15
2	Ni 231.604†	162.2	11.2	0.0019 mg/L	0.0019 mg/L	00:36:05
2	P 214.914†	-28.3	-2.5	0.0453 mg/L	0.0453 mg/L	00:36:15
2	Pb 220.353†	172.2	-2.5	-0.0003 mg/L	-0.0003 mg/L	00:36:15
2	Sb 206.836†	41.9	-4.1	0.0023 mg/L	0.0023 mg/L	00:36:15
2	Se 196.026†	16.6	6.4	0.0094 mg/L	0.0094 mg/L	00:36:15
2	Sn 189.927†	30.0	2.0	-0.0011 mg/L	-0.0011 mg/L	00:36:15
2	Ti 337.279†	-299.6	307.3	0.0053 mg/L	0.0053 mg/L	00:36:05
2	Tl 190.801†	-3.7	0.9	0.0020 mg/L	0.0020 mg/L	00:36:15
2	V 292.402†	-455.9	-127.2	0.0040 mg/L	0.0040 mg/L	00:36:05
2	Zn 213.857†	1470.5	388.5	0.0055 mg/L	0.0055 mg/L	00:36:15

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2597407.1	0.962 mg/L	0.0042			0.44%
Ag 328.068†	-65.9	0.0014 mg/L	0.00035	0.0014 mg/L	0.00035	24.51%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	96.3	0.0240 mg/L	0.00216	0.0240 mg/L	0.00216	8.98%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	4.6	0.0078 mg/L	0.00322	0.0078 mg/L	0.00322	41.49%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	0.2	0.0014 mg/L	0.00140	0.0014 mg/L	0.00140	103.31%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	3.9	0.0041 mg/L	0.00413	0.0041 mg/L	0.00413	100.47%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	15.4	0.0033 mg/L	0.00024	0.0033 mg/L	0.00024	7.21%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	63.9	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	230.7	0.0384 mg/L	0.00018	0.0384 mg/L	0.00018	0.46%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	-2.8	0.0009 mg/L	0.00011	0.0009 mg/L	0.00011	11.92%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	19.2	0.0004 mg/L	0.00015	0.0004 mg/L	0.00015	38.76%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	4.4	0.0034 mg/L	0.00020	0.0034 mg/L	0.00020	5.82%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1204.2	0.0109 mg/L	0.00032	0.0109 mg/L	0.00032	2.93%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	13.5	0.0195 mg/L	0.00461	0.0195 mg/L	0.00461	23.60%

QC value greater than the upper limit for Fe 234.349	Recovery = Not calculated					
K 766.490†	182.7	0.2739 mg/L	0.02357	0.2739 mg/L	0.02357	8.61%
QC value greater than the upper limit for K 766.490	Recovery = Not calculated					
Li 670.784†	-78.7	0.0023 mg/L	0.00078	0.0023 mg/L	0.00078	34.27%
QC value within limits for Li 670.784	Recovery = Not calculated					
Mg 279.077†	19.1	0.0267 mg/L	0.00164	0.0267 mg/L	0.00164	6.12%
QC value greater than the upper limit for Mg 279.077	Recovery = Not calculated					
Mn 257.610†	-157.7	0.0015 mg/L	0.00032	0.0015 mg/L	0.00032	21.83%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mn 294.920†	192.6	0.0020 mg/L	0.00017	0.0020 mg/L	0.00017	8.46%
QC value within limits for Mn 294.920	Recovery = Not calculated					
Mo 202.031†	21.9	0.0034 mg/L	0.00018	0.0034 mg/L	0.00018	5.35%
QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-191.7	0.0783 mg/L	0.01380	0.0783 mg/L	0.01380	17.62%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	21.6	0.0021 mg/L	0.00033	0.0021 mg/L	0.00033	15.52%
QC value greater than the upper limit for Ni 231.604	Recovery = Not calculated					
P 214.914†	0.6	0.0472 mg/L	0.00274	0.0472 mg/L	0.00274	5.79%
QC value greater than the upper limit for P 214.914	Recovery = Not calculated					
Pb 220.353†	-6.2	-0.0006 mg/L	0.00036	-0.0006 mg/L	0.00036	62.39%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-0.6	0.0039 mg/L	0.00236	0.0039 mg/L	0.00236	59.69%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	5.3	0.0087 mg/L	0.00110	0.0087 mg/L	0.00110	12.71%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-2.7	-0.0018 mg/L	0.00099	-0.0018 mg/L	0.00099	55.34%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	20.7	0.0004 mg/L	0.00007	0.0004 mg/L	0.00007	17.70%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	237.4	0.0052 mg/L	0.00012	0.0052 mg/L	0.00012	2.23%
QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	-0.6	0.0006 mg/L	0.00204	0.0006 mg/L	0.00204	349.96%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	-30.0	0.0044 mg/L	0.00062	0.0044 mg/L	0.00062	14.01%
QC value greater than the upper limit for V 292.402	Recovery = Not calculated					
Zn 213.857†	387.6	0.0055 mg/L	0.00001	0.0055 mg/L	0.00001	0.20%
QC value within limits for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 157
Sample ID: 1307090-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 132
Date Collected: 7/6/2013 12:37:52 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Units	Analysis Time
1	B 249.677†	-50.9	-44.2	-0.0232 mg/L	-0.0232 mg/L	00:39:31	
1	Fe 234.349†	605566.5	604085.8	402.8 mg/L	402.8 mg/L	00:39:29	
1	K 766.490†	20106.1	19239.4	10.66 mg/L	10.66 mg/L	00:39:31	
1	Li 670.784†	4952.9	5176.4	0.1467 mg/L	0.1467 mg/L	00:39:31	
1	Na 589.592†	7621.7	7123.4	1.409 mg/L	1.409 mg/L	00:39:31	
1	Sr 407.771†	184844.3	184323.8	0.2153 mg/L	0.2153 mg/L	00:39:29	
1	Y 371.029	2707625.5	2707625.5	1.00 mg/L	1.00 mg/L	00:39:41	
1	Ag 328.068†	561.9	-1304.6	0.0047 mg/L	0.0047 mg/L	00:39:44	
1	Al 237.313†	865095.5	863420.4	95.57 mg/L	95.57 mg/L	00:39:41	
1	As 188.979†	99.9	106.3	0.0813 mg/L	0.0813 mg/L	00:39:54	
1	B 182.528†	44.0	53.4	0.0572 mg/L	0.0572 mg/L	00:39:54	
1	Ba 233.527†	60908.0	60856.8	0.5333 mg/L	0.5333 mg/L	00:39:44	
1	Be 313.107†	15752.5	17152.1	0.0070 mg/L	0.0070 mg/L	00:39:44	
1	Ca 315.887†	2935760.7	2930491.0	31.97 mg/L	31.97 mg/L	00:39:41	
1	Cd 228.802†	532.3	371.9	0.0058 mg/L	0.0058 mg/L	00:39:54	
1	Co 228.616†	4502.3	4733.1	0.0864 mg/L	0.0864 mg/L	00:39:54	
1	Cr 267.716†	42032.8	41364.3	0.3640 mg/L	0.3640 mg/L	00:39:44	
1	Cu 324.752†	4120650.2	4105818.2	22.09 mg/L	22.09 mg/L	00:39:41	
1	Mg 279.077†	462088.5	460960.4	37.19 mg/L	37.19 mg/L	00:39:44	
1	Mn 257.610†	6674469.5	6642152.2	8.456 mg/L	8.456 mg/L	00:39:41	
1	Mn 294.920†	3358223.5	3351382.3	8.741 mg/L	8.741 mg/L	00:39:41	
1	Mo 202.031†	1566.5	1526.7	-0.1172 mg/L	-0.1172 mg/L	00:39:44	
1	Ni 231.604†	13724.7	13533.2	0.3034 mg/L	0.3034 mg/L	00:39:54	

1	P 214.914†	12081.3	12079.0	7.383	mg/L	7.383	mg/L	00:39:44
1	Pb 220.353†	65419.1	65077.7	4.556	mg/L	4.556	mg/L	00:39:44
1	Sb 206.836†	134.0	85.8	-0.0733	mg/L	-0.0733	mg/L	00:39:54
1	Se 196.026†	-99.1	-109.8	-0.1508	mg/L	-0.1508	mg/L	00:39:54
1	Sn 189.927†	65.9	36.4	0.0238	mg/L	0.0238	mg/L	00:39:54
1	Ti 337.279†	3341168.7	3333656.5	3.896	mg/L	3.896	mg/L	00:39:41
1	Tl 190.801†	-26.4	-21.5	-0.2622	mg/L	-0.2622	mg/L	00:39:54
1	V 292.402†	61589.3	61787.6	0.2761	mg/L	0.2761	mg/L	00:39:44
1	Zn 213.857†	943630.7	940188.6	6.872	mg/L	6.872	mg/L	00:39:41
2	B 249.677†	-36.8	-30.1	-0.0154	mg/L	-0.0154	mg/L	00:39:35
2	Fe 234.349†	604616.4	601889.6	401.3	mg/L	401.3	mg/L	00:39:33
2	K 766.490†	20319.2	19410.0	10.75	mg/L	10.75	mg/L	00:39:35
2	Li 670.784†	5054.5	5267.3	0.1492	mg/L	0.1492	mg/L	00:39:35
2	Na 589.592†	7622.7	7108.7	1.407	mg/L	1.407	mg/L	00:39:35
2	Sr 407.771†	184741.3	183839.7	0.2147	mg/L	0.2147	mg/L	00:39:33
2	Y 371.029	2713241.5	2713241.5	1.00	mg/L			00:39:58
2	Ag 328.068†	493.2	-1374.2	0.0043	mg/L	0.0043	mg/L	00:40:00
2	Al 237.313†	866828.0	863358.9	95.56	mg/L	95.56	mg/L	00:39:58
2	As 188.979†	104.1	110.2	0.0842	mg/L	0.0842	mg/L	00:40:10
2	B 182.528†	38.1	47.5	0.0509	mg/L	0.0509	mg/L	00:40:10
2	Ba 233.527†	61281.6	61102.9	0.5355	mg/L	0.5355	mg/L	00:40:00
2	Be 313.107†	15857.7	17224.4	0.0071	mg/L	0.0071	mg/L	00:40:00
2	Ca 315.887†	2933389.9	2922069.1	31.88	mg/L	31.88	mg/L	00:39:58
2	Cd 228.802†	546.0	384.5	0.0062	mg/L	0.0062	mg/L	00:40:10
2	Co 228.616†	4520.4	4741.9	0.0866	mg/L	0.0866	mg/L	00:40:10
2	Cr 267.716†	42498.4	41741.0	0.3673	mg/L	0.3673	mg/L	00:40:00
2	Cu 324.752†	4123309.8	4099957.5	22.06	mg/L	22.06	mg/L	00:39:58
2	Mg 279.077†	466640.5	464537.8	37.47	mg/L	37.47	mg/L	00:40:00
2	Mn 257.610†	6682895.2	6636758.4	8.449	mg/L	8.449	mg/L	00:39:58
2	Mn 294.920†	3361812.9	3348021.5	8.733	mg/L	8.733	mg/L	00:39:58
2	Mo 202.031†	1558.0	1515.0	-0.1173	mg/L	-0.1173	mg/L	00:40:00
2	Ni 231.604†	13752.6	13532.7	0.3034	mg/L	0.3034	mg/L	00:40:10
2	P 214.914†	12210.7	12182.8	7.448	mg/L	7.448	mg/L	00:40:00
2	Pb 220.353†	66050.3	65571.0	4.591	mg/L	4.591	mg/L	00:40:00
2	Sb 206.836†	155.6	107.1	-0.0630	mg/L	-0.0630	mg/L	00:40:10
2	Se 196.026†	-103.3	-113.8	-0.1532	mg/L	-0.1532	mg/L	00:40:10
2	Sn 189.927†	56.2	26.7	0.0222	mg/L	0.0222	mg/L	00:40:10
2	Ti 337.279†	3346318.0	3331883.7	3.894	mg/L	3.894	mg/L	00:39:58
2	Tl 190.801†	-24.6	-19.7	-0.2596	mg/L	-0.2596	mg/L	00:40:10
2	V 292.402†	62073.3	62142.4	0.2777	mg/L	0.2777	mg/L	00:40:00
2	Zn 213.857†	944728.5	939333.1	6.866	mg/L	6.866	mg/L	00:39:58

Mean Data: 1307090-08

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2710433.5	1.00	mg/L	0.001				0.15%
Ag 328.068†	-1339.4	0.0045	mg/L	0.00030	0.0045	mg/L	0.00030	6.69%
Al 237.313†	863389.6	95.56	mg/L	0.005	95.56	mg/L	0.005	0.01%
As 188.979†	108.3	0.0827	mg/L	0.00202	0.0827	mg/L	0.00202	2.44%
B 249.677†	-37.2	-0.0193	mg/L	0.00555	-0.0193	mg/L	0.00555	28.75%
B 182.528†	50.5	0.0541	mg/L	0.00449	0.0541	mg/L	0.00449	8.30%
Ba 233.527†	60979.8	0.5344	mg/L	0.00152	0.5344	mg/L	0.00152	0.28%
Be 313.107†	17188.3	0.0070	mg/L	0.00002	0.0070	mg/L	0.00002	0.33%
Ca 315.887†	2926280.0	31.93	mg/L	0.065	31.93	mg/L	0.065	0.20%
Cd 228.802†	378.2	0.0060	mg/L	0.00030	0.0060	mg/L	0.00030	4.95%
Co 228.616†	4737.5	0.0865	mg/L	0.00013	0.0865	mg/L	0.00013	0.15%
Cr 267.716†	41552.6	0.3656	mg/L	0.00232	0.3656	mg/L	0.00232	0.63%
Cu 324.752†	4102887.8	22.08	mg/L	0.022	22.08	mg/L	0.022	0.10%
Fe 234.349†	602987.7	402.1	mg/L	1.04	402.1	mg/L	1.04	0.26%
K 766.490†	19324.7	10.71	mg/L	0.066	10.71	mg/L	0.066	0.61%
Li 670.784†	5221.9	0.1480	mg/L	0.00177	0.1480	mg/L	0.00177	1.19%
Mg 279.077†	462749.1	37.33	mg/L	0.204	37.33	mg/L	0.204	0.55%
Mn 257.610†	6639455.3	8.453	mg/L	0.0047	8.453	mg/L	0.0047	0.06%
Mn 294.920†	3349701.9	8.737	mg/L	0.0062	8.737	mg/L	0.0062	0.07%
Mo 202.031†	1520.9	-0.1172	mg/L	0.00007	-0.1172	mg/L	0.00007	0.06%
Na 589.592†	7116.1	1.408	mg/L	0.0019	1.408	mg/L	0.0019	0.13%
Ni 231.604†	13533.0	0.3034	mg/L	0.00001	0.3034	mg/L	0.00001	0.00%
P 214.914†	12130.9	7.416	mg/L	0.0462	7.416	mg/L	0.0462	0.62%
Pb 220.353†	65324.4	4.573	mg/L	0.0246	4.573	mg/L	0.0246	0.54%
Sb 206.836†	96.4	-0.0681	mg/L	0.00730	-0.0681	mg/L	0.00730	10.71%
Se 196.026†	-111.8	-0.1520	mg/L	0.00172	-0.1520	mg/L	0.00172	1.13%
Sn 189.927†	31.5	0.0230	mg/L	0.00107	0.0230	mg/L	0.00107	4.63%

Sr 407.771†	184081.8	0.2150 mg/L	0.00040	0.2150 mg/L	0.00040	0.19%
Ti 337.279†	3332770.1	3.895 mg/L	0.0015	3.895 mg/L	0.0015	0.04%
Tl 190.801†	-20.6	-0.2609 mg/L	0.00188	-0.2609 mg/L	0.00188	0.72%
V 292.402†	61965.0	0.2769 mg/L	0.00115	0.2769 mg/L	0.00115	0.42%
Zn 213.857†	939760.9	6.869 mg/L	0.0044	6.869 mg/L	0.0044	0.06%

Sequence No.: 158
Sample ID: 1307090-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 133
Date Collected: 7/6/2013 12:43:16 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-44.0	-37.0	-0.0192 mg/L		-0.0192 mg/L	00:44:57
1	Fe 234.349†	519199.8	513539.4	342.4 mg/L		342.4 mg/L	00:44:55
1	K 766.490†	19456.2	18426.5	10.22 mg/L		10.22 mg/L	00:44:57
1	Li 670.784†	5523.2	5698.6	0.1611 mg/L		0.1611 mg/L	00:44:57
1	Na 589.592†	6937.3	6382.0	1.274 mg/L		1.274 mg/L	00:44:57
1	Sr 407.771†	170130.1	168206.9	0.1965 mg/L		0.1965 mg/L	00:44:55
1	Y 371.029	2730771.2	2730771.2	1.01 mg/L			00:45:08
1	Ag 328.068†	522.2	-1348.6	0.0029 mg/L		0.0029 mg/L	00:45:10
1	Al 237.313†	1126348.4	1114513.9	123.4 mg/L		123.4 mg/L	00:45:08
1	As 188.979†	110.8	116.2	0.0885 mg/L		0.0885 mg/L	00:45:20
1	B 182.528†	32.4	41.6	0.0445 mg/L		0.0445 mg/L	00:45:20
1	Ba 233.527†	62389.1	61806.7	0.5416 mg/L		0.5416 mg/L	00:45:10
1	Be 313.107†	17508.0	18755.3	0.0077 mg/L		0.0077 mg/L	00:45:10
1	Ca 315.887†	2491601.6	2466345.7	26.92 mg/L		26.92 mg/L	00:45:08
1	Cd 228.802†	512.2	347.5	0.0060 mg/L		0.0060 mg/L	00:45:20
1	Co 228.616†	4456.9	4650.1	0.0849 mg/L		0.0849 mg/L	00:45:20
1	Cr 267.716†	37910.4	36931.3	0.3254 mg/L		0.3254 mg/L	00:45:10
1	Cu 324.752†	3405422.8	3363537.8	18.10 mg/L		18.10 mg/L	00:45:08
1	Mg 279.077†	440202.4	435405.5	35.12 mg/L		35.12 mg/L	00:45:10
1	Mn 257.610†	5994015.3	5912673.1	7.531 mg/L		7.531 mg/L	00:45:08
1	Mn 294.920†	3007822.9	2976402.6	7.764 mg/L		7.764 mg/L	00:45:08
1	Mo 202.031†	1299.4	1249.4	-0.0975 mg/L		-0.0975 mg/L	00:45:10
1	Ni 231.604†	11541.3	11257.6	0.2527 mg/L		0.2527 mg/L	00:45:20
1	P 214.914†	11854.6	11752.6	7.220 mg/L		7.220 mg/L	00:45:10
1	Pb 220.353†	67809.6	66889.1	4.680 mg/L		4.680 mg/L	00:45:10
1	Sb 206.836†	142.4	93.0	-0.0524 mg/L		-0.0524 mg/L	00:45:20
1	Se 196.026†	-64.3	-74.5	-0.1145 mg/L		-0.1145 mg/L	00:45:20
1	Sn 189.927†	18.8	-10.7	0.0136 mg/L		0.0136 mg/L	00:45:20
1	Ti 337.279†	3304048.5	3268690.1	3.820 mg/L		3.820 mg/L	00:45:08
1	Tl 190.801†	-21.3	-16.3	-0.2212 mg/L		-0.2212 mg/L	00:45:20
1	V 292.402†	69146.6	68741.9	0.3082 mg/L		0.3082 mg/L	00:45:10
1	Zn 213.857†	791786.9	782019.6	5.716 mg/L		5.716 mg/L	00:45:08
2	B 249.677†	-52.7	-45.5	-0.0239 mg/L		-0.0239 mg/L	00:45:02
2	Fe 234.349†	517127.4	510198.6	340.2 mg/L		340.2 mg/L	00:45:00
2	K 766.490†	19066.7	17993.6	9.981 mg/L		9.981 mg/L	00:45:02
2	Li 670.784†	5426.1	5589.1	0.1581 mg/L		0.1581 mg/L	00:45:02
2	Na 589.592†	6855.8	6284.4	1.257 mg/L		1.257 mg/L	00:45:02
2	Sr 407.771†	169568.6	167228.2	0.1953 mg/L		0.1953 mg/L	00:45:00
2	Y 371.029	2737680.8	2737680.8	1.01 mg/L			00:45:24
2	Ag 328.068†	409.2	-1461.4	0.0022 mg/L		0.0022 mg/L	00:45:27
2	Al 237.313†	1129080.7	1114397.8	123.3 mg/L		123.3 mg/L	00:45:24
2	As 188.979†	108.0	113.2	0.0862 mg/L		0.0862 mg/L	00:45:37
2	B 182.528†	33.0	42.1	0.0451 mg/L		0.0451 mg/L	00:45:37
2	Ba 233.527†	61288.8	60565.4	0.5308 mg/L		0.5308 mg/L	00:45:27
2	Be 313.107†	17183.9	18391.9	0.0076 mg/L		0.0076 mg/L	00:45:27
2	Ca 315.887†	2494899.1	2463379.2	26.88 mg/L		26.88 mg/L	00:45:24
2	Cd 228.802†	508.6	342.7	0.0059 mg/L		0.0059 mg/L	00:45:37
2	Co 228.616†	4414.0	4596.7	0.0838 mg/L		0.0838 mg/L	00:45:37
2	Cr 267.716†	37317.5	36251.8	0.3194 mg/L		0.3194 mg/L	00:45:27
2	Cu 324.752†	3423270.0	3372644.9	18.15 mg/L		18.15 mg/L	00:45:24
2	Mg 279.077†	430194.3	424432.5	34.24 mg/L		34.24 mg/L	00:45:27
2	Mn 257.610†	6003504.1	5907071.6	7.525 mg/L		7.525 mg/L	00:45:24
2	Mn 294.920†	3015249.2	2976220.9	7.763 mg/L		7.763 mg/L	00:45:24
2	Mo 202.031†	1337.4	1283.6	-0.0960 mg/L		-0.0960 mg/L	00:45:27
2	Ni 231.604†	11436.4	11125.2	0.2497 mg/L		0.2497 mg/L	00:45:37
2	P 214.914†	11618.2	11489.7	7.055 mg/L		7.055 mg/L	00:45:27

2	Pb 220.353†	66383.1	65312.4	4.569 mg/L	4.569 mg/L	00:45:27
2	Sb 206.836†	125.8	76.3	-0.0596 mg/L	-0.0596 mg/L	00:45:37
2	Se 196.026†	-63.1	-73.2	-0.1132 mg/L	-0.1132 mg/L	00:45:37
2	Sn 189.927†	6.4	-23.0	0.0118 mg/L	0.0118 mg/L	00:45:37
2	Ti 337.279†	3313557.7	3269823.8	3.821 mg/L	3.821 mg/L	00:45:24
2	Tl 190.801†	-20.8	-15.7	-0.2192 mg/L	-0.2192 mg/L	00:45:37
2	V 292.402†	67621.6	67064.8	0.3006 mg/L	0.3006 mg/L	00:45:27
2	Zn 213.857†	793131.8	781369.9	5.712 mg/L	5.712 mg/L	00:45:24

Mean Data: 1307090-09

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2734226.0	1.01 mg/L		0.002				0.18%
Ag 328.068†	-1405.0	0.0026 mg/L		0.00048	0.0026 mg/L		0.00048	18.65%
Al 237.313†	1114455.8	123.3 mg/L		0.01	123.3 mg/L		0.01	0.01%
As 188.979†	114.7	0.0874 mg/L		0.00158	0.0874 mg/L		0.00158	1.81%
B 249.677†	-41.2	-0.0216 mg/L		0.00333	-0.0216 mg/L		0.00333	15.40%
B 182.528†	41.8	0.0448 mg/L		0.00038	0.0448 mg/L		0.00038	0.85%
Ba 233.527†	61186.1	0.5362 mg/L		0.00765	0.5362 mg/L		0.00765	1.43%
Be 313.107†	18573.6	0.0077 mg/L		0.00011	0.0077 mg/L		0.00011	1.48%
Ca 315.887†	2464862.5	26.90 mg/L		0.023	26.90 mg/L		0.023	0.09%
Cd 228.802†	345.1	0.0060 mg/L		0.00008	0.0060 mg/L		0.00008	1.34%
Co 228.616†	4623.4	0.0844 mg/L		0.00076	0.0844 mg/L		0.00076	0.90%
Cr 267.716†	36591.6	0.3224 mg/L		0.00419	0.3224 mg/L		0.00419	1.30%
Cu 324.752†	3368091.4	18.13 mg/L		0.035	18.13 mg/L		0.035	0.19%
Fe 234.349†	511869.0	341.3 mg/L		1.58	341.3 mg/L		1.58	0.46%
K 766.490†	18210.1	10.10 mg/L		0.167	10.10 mg/L		0.167	1.65%
Li 670.784†	5643.9	0.1596 mg/L		0.00213	0.1596 mg/L		0.00213	1.33%
Mg 279.077†	429919.0	34.68 mg/L		0.625	34.68 mg/L		0.625	1.80%
Mn 257.610†	5909872.4	7.528 mg/L		0.0047	7.528 mg/L		0.0047	0.06%
Mn 294.920†	2976311.8	7.763 mg/L		0.0003	7.763 mg/L		0.0003	0.00%
Mo 202.031†	1266.5	-0.0967 mg/L		0.00107	-0.0967 mg/L		0.00107	1.11%
Na 589.592†	6333.2	1.266 mg/L		0.0126	1.266 mg/L		0.0126	0.99%
Ni 231.604†	11191.4	0.2512 mg/L		0.00209	0.2512 mg/L		0.00209	0.83%
P 214.914†	11621.2	7.138 mg/L		0.1168	7.138 mg/L		0.1168	1.64%
Pb 220.353†	66100.7	4.624 mg/L		0.0786	4.624 mg/L		0.0786	1.70%
Sb 206.836†	84.7	-0.0560 mg/L		0.00503	-0.0560 mg/L		0.00503	8.98%
Se 196.026†	-73.8	-0.1138 mg/L		0.00096	-0.1138 mg/L		0.00096	0.85%
Sn 189.927†	-16.9	0.0127 mg/L		0.00130	0.0127 mg/L		0.00130	10.22%
Sr 407.771†	167717.6	0.1959 mg/L		0.00081	0.1959 mg/L		0.00081	0.41%
Ti 337.279†	3269257.0	3.821 mg/L		0.0009	3.821 mg/L		0.0009	0.02%
Tl 190.801†	-16.0	-0.2202 mg/L		0.00136	-0.2202 mg/L		0.00136	0.62%
V 292.402†	67903.3	0.3044 mg/L		0.00540	0.3044 mg/L		0.00540	1.77%
Zn 213.857†	781694.8	5.714 mg/L		0.0033	5.714 mg/L		0.0033	0.06%

Sequence No.: 159

Sample ID: 1307090-10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 134

Date Collected: 7/6/2013 12:48:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307090-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-10.5	-4.0	-0.0009 mg/L		-0.0009 mg/L		00:50:25
1	Fe 234.349†	498562.5	498337.2	332.3 mg/L		332.3 mg/L		00:50:23
1	K 766.490†	18168.5	17342.7	9.626 mg/L		9.626 mg/L		00:50:25
1	Li 670.784†	4061.6	4295.4	0.1225 mg/L		0.1225 mg/L		00:50:25
1	Na 589.592†	6745.9	6263.2	1.253 mg/L		1.253 mg/L		00:50:25
1	Sr 407.771†	178973.9	178824.8	0.2089 mg/L		0.2089 mg/L		00:50:23
1	Y 371.029	2702220.0	2702220.0	1.00 mg/L				00:50:36
1	Ag 328.068†	720.8	-1144.6	0.0038 mg/L		0.0038 mg/L		00:50:38
1	Al 237.313†	730244.0	730354.3	80.84 mg/L		80.84 mg/L		00:50:36
1	As 188.979†	94.1	100.7	0.0773 mg/L		0.0773 mg/L		00:50:48
1	B 182.528†	33.5	43.1	0.0461 mg/L		0.0461 mg/L		00:50:48
1	Ba 233.527†	53028.2	53102.0	0.4658 mg/L		0.4658 mg/L		00:50:38
1	Be 313.107†	13192.0	14624.2	0.0060 mg/L		0.0060 mg/L		00:50:38
1	Ca 315.887†	2659704.1	2660413.8	29.03 mg/L		29.03 mg/L		00:50:36
1	Cd 228.802†	437.1	277.9	0.0040 mg/L		0.0040 mg/L		00:50:48
1	Co 228.616†	3876.1	4116.2	0.0748 mg/L		0.0748 mg/L		00:50:48

1	Cr 267.716†	33627.3	33046.4	0.2915 mg/L	0.2915 mg/L	00:50:38
1	Cu 324.752†	3791824.5	3785359.5	20.37 mg/L	20.37 mg/L	00:50:36
1	Mg 279.077†	384149.5	383977.7	30.98 mg/L	30.98 mg/L	00:50:38
1	Mn 257.610†	6219827.4	6201028.4	7.905 mg/L	7.905 mg/L	00:50:36
1	Mn 294.920†	3117938.0	3117903.6	8.133 mg/L	8.133 mg/L	00:50:36
1	Mo 202.031†	1333.9	1297.4	-0.1067 mg/L	-0.1067 mg/L	00:50:38
1	Ni 231.604†	11176.9	11014.0	0.2472 mg/L	0.2472 mg/L	00:50:48
1	P 214.914†	10300.7	10323.2	6.301 mg/L	6.301 mg/L	00:50:38
1	Pb 220.353†	51777.9	51573.1	3.608 mg/L	3.608 mg/L	00:50:38
1	Sb 206.836†	131.6	83.7	-0.0536 mg/L	-0.0536 mg/L	00:50:48
1	Se 196.026†	-67.3	-78.2	-0.1150 mg/L	-0.1150 mg/L	00:50:48
1	Sn 189.927†	117.0	87.6	0.0295 mg/L	0.0295 mg/L	00:50:48
1	Ti 337.279†	3037539.2	3036827.6	3.549 mg/L	3.549 mg/L	00:50:36
1	Tl 190.801†	-19.7	-14.9	-0.2133 mg/L	-0.2133 mg/L	00:50:48
1	V 292.402†	51854.3	52179.9	0.2332 mg/L	0.2332 mg/L	00:50:38
1	Zn 213.857†	813575.8	812073.8	5.935 mg/L	5.935 mg/L	00:50:36
2	B 249.677†	-21.9	-15.4	-0.0072 mg/L	-0.0072 mg/L	00:50:30
2	Fe 234.349†	482668.6	483663.7	322.5 mg/L	322.5 mg/L	00:50:28
2	K 766.490†	18334.3	17554.5	9.741 mg/L	9.741 mg/L	00:50:30
2	Li 670.784†	3913.4	4157.1	0.1187 mg/L	0.1187 mg/L	00:50:30
2	Na 589.592†	6764.9	6299.2	1.259 mg/L	1.259 mg/L	00:50:30
2	Sr 407.771†	174189.3	174480.3	0.2038 mg/L	0.2038 mg/L	00:50:28
2	Y 371.029	2695440.6	2695440.6	0.998 mg/L		00:50:52
2	Ag 328.068†	621.0	-1242.8	0.0030 mg/L	0.0030 mg/L	00:50:55
2	Al 237.313†	729332.6	731276.9	80.94 mg/L	80.94 mg/L	00:50:52
2	As 188.979†	80.6	87.4	0.0676 mg/L	0.0676 mg/L	00:51:05
2	B 182.528†	47.2	56.8	0.0609 mg/L	0.0609 mg/L	00:51:05
2	Ba 233.527†	52717.7	52924.2	0.4642 mg/L	0.4642 mg/L	00:50:55
2	Be 313.107†	13171.6	14636.9	0.0060 mg/L	0.0060 mg/L	00:50:55
2	Ca 315.887†	2653468.2	2660851.6	29.04 mg/L	29.04 mg/L	00:50:52
2	Cd 228.802†	462.8	304.7	0.0050 mg/L	0.0050 mg/L	00:51:05
2	Co 228.616†	3819.1	4068.9	0.0738 mg/L	0.0738 mg/L	00:51:05
2	Cr 267.716†	33372.9	32875.9	0.2900 mg/L	0.2900 mg/L	00:50:55
2	Cu 324.752†	3796093.0	3799169.7	20.44 mg/L	20.44 mg/L	00:50:52
2	Mg 279.077†	380018.6	380804.0	30.73 mg/L	30.73 mg/L	00:50:55
2	Mn 257.610†	6216518.5	6213349.7	7.923 mg/L	7.923 mg/L	00:50:52
2	Mn 294.920†	3116252.6	3124053.4	8.149 mg/L	8.149 mg/L	00:50:52
2	Mo 202.031†	1346.0	1312.9	-0.1050 mg/L	-0.1050 mg/L	00:50:55
2	Ni 231.604†	11174.3	11039.4	0.2478 mg/L	0.2478 mg/L	00:51:05
2	P 214.914†	10188.4	10236.6	6.246 mg/L	6.246 mg/L	00:50:55
2	Pb 220.353†	51449.0	51373.7	3.594 mg/L	3.594 mg/L	00:50:55
2	Sb 206.836†	131.3	83.8	-0.0508 mg/L	-0.0508 mg/L	00:51:05
2	Se 196.026†	-65.0	-76.0	-0.1116 mg/L	-0.1116 mg/L	00:51:05
2	Sn 189.927†	131.7	102.6	0.0317 mg/L	0.0317 mg/L	00:51:05
2	Ti 337.279†	3037634.1	3044559.1	3.559 mg/L	3.559 mg/L	00:50:52
2	Tl 190.801†	-25.0	-20.3	-0.2127 mg/L	-0.2127 mg/L	00:51:05
2	V 292.402†	51381.0	51835.9	0.2316 mg/L	0.2316 mg/L	00:50:55
2	Zn 213.857†	814550.4	815095.8	5.958 mg/L	5.958 mg/L	00:50:52

Mean Data: 1307090-10

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2698830.3	0.999	mg/L	0.0018				0.18%
Ag 328.068†	-1193.7	0.0034	mg/L	0.00056	0.0034	mg/L	0.00056	16.44%
Al 237.313†	730815.6	80.89	mg/L	0.072	80.89	mg/L	0.072	0.09%
As 188.979†	94.0	0.0724	mg/L	0.00684	0.0724	mg/L	0.00684	9.44%
B 249.677†	-9.7	-0.0041	mg/L	0.00448	-0.0041	mg/L	0.00448	110.42%
B 182.528†	49.9	0.0535	mg/L	0.01045	0.0535	mg/L	0.01045	19.53%
Ba 233.527†	53013.1	0.4650	mg/L	0.00110	0.4650	mg/L	0.00110	0.24%
Be 313.107†	14630.6	0.0060	mg/L	0.00000	0.0060	mg/L	0.00000	0.04%
Ca 315.887†	2660632.7	29.03	mg/L	0.003	29.03	mg/L	0.003	0.01%
Cd 228.802†	291.3	0.0045	mg/L	0.00071	0.0045	mg/L	0.00071	15.64%
Co 228.616†	4092.5	0.0743	mg/L	0.00068	0.0743	mg/L	0.00068	0.92%
Cr 267.716†	32961.1	0.2907	mg/L	0.00105	0.2907	mg/L	0.00105	0.36%
Cu 324.752†	3792264.6	20.41	mg/L	0.053	20.41	mg/L	0.053	0.26%
Fe 234.349†	491000.4	327.4	mg/L	6.92	327.4	mg/L	6.92	2.11%
K 766.490†	17448.6	9.684	mg/L	0.0816	9.684	mg/L	0.0816	0.84%
Li 670.784†	4226.3	0.1206	mg/L	0.00269	0.1206	mg/L	0.00269	2.23%
Mg 279.077†	382390.8	30.85	mg/L	0.181	30.85	mg/L	0.181	0.59%
Mn 257.610†	6207189.1	7.914	mg/L	0.0128	7.914	mg/L	0.0128	0.16%
Mn 294.920†	3120978.5	8.141	mg/L	0.0113	8.141	mg/L	0.0113	0.14%
Mo 202.031†	1305.1	-0.1058	mg/L	0.00121	-0.1058	mg/L	0.00121	1.14%

Na 589.592†	6281.2	1.256 mg/L	0.0046	1.256 mg/L	0.0046	0.37%
Ni 231.604†	11026.7	0.2475 mg/L	0.00040	0.2475 mg/L	0.00040	0.16%
P 214.914†	10279.9	6.274 mg/L	0.0389	6.274 mg/L	0.0389	0.62%
Pb 220.353†	51473.4	3.601 mg/L	0.0100	3.601 mg/L	0.0100	0.28%
Sb 206.836†	83.7	-0.0522 mg/L	0.00202	-0.0522 mg/L	0.00202	3.87%
Se 196.026†	-77.1	-0.1133 mg/L	0.00243	-0.1133 mg/L	0.00243	2.15%
Sn 189.927†	95.1	0.0306 mg/L	0.00158	0.0306 mg/L	0.00158	5.15%
Sr 407.771†	176652.6	0.2063 mg/L	0.00358	0.2063 mg/L	0.00358	1.74%
Ti 337.279†	3040693.3	3.554 mg/L	0.0064	3.554 mg/L	0.0064	0.18%
Tl 190.801†	-17.6	-0.2130 mg/L	0.00044	-0.2130 mg/L	0.00044	0.21%
V 292.402†	52007.9	0.2324 mg/L	0.00113	0.2324 mg/L	0.00113	0.48%
Zn 213.857†	813584.8	5.946 mg/L	0.0160	5.946 mg/L	0.0160	0.27%

Sequence No.: 160
Sample ID: 1307090-11
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 135
Date Collected: 7/6/2013 12:54:11 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-40.7	-34.0	-0.0176	mg/L	-0.0176	mg/L	00:55:50
1	Fe 234.349†	475732.5	473301.7	315.6	mg/L	315.6	mg/L	00:55:48
1	K 766.490†	16212.2	15311.7	8.519	mg/L	8.519	mg/L	00:55:50
1	Li 670.784†	5466.3	5674.1	0.1604	mg/L	0.1604	mg/L	00:55:50
1	Na 589.592†	6180.2	5668.9	1.145	mg/L	1.145	mg/L	00:55:50
1	Sr 407.771†	143154.5	142354.6	0.1663	mg/L	0.1663	mg/L	00:55:48
1	Y 371.029	2714868.4	2714868.4	1.01	mg/L			00:56:01
1	Ag 328.068†	700.4	-1168.3	0.0033	mg/L	0.0033	mg/L	00:56:03
1	Al 237.313†	1009661.0	1004946.9	111.2	mg/L	111.2	mg/L	00:56:01
1	As 188.979†	90.3	96.5	0.0741	mg/L	0.0741	mg/L	00:56:13
1	B 182.528†	28.0	37.4	0.0400	mg/L	0.0400	mg/L	00:56:13
1	Ba 233.527†	47074.7	46931.8	0.4120	mg/L	0.4120	mg/L	00:56:03
1	Be 313.107†	16210.4	17565.8	0.0072	mg/L	0.0072	mg/L	00:56:03
1	Ca 315.887†	2083174.0	2074435.3	22.65	mg/L	22.65	mg/L	00:56:01
1	Cd 228.802†	424.0	262.8	0.0038	mg/L	0.0038	mg/L	00:56:13
1	Co 228.616†	4152.4	4373.0	0.0793	mg/L	0.0793	mg/L	00:56:13
1	Cr 267.716†	30703.2	29980.0	0.2648	mg/L	0.2648	mg/L	00:56:03
1	Cu 324.752†	2766495.0	2747596.2	14.79	mg/L	14.79	mg/L	00:56:01
1	Mg 279.077†	471969.1	469560.8	37.88	mg/L	37.88	mg/L	00:56:01
1	Mn 257.610†	5534728.2	5490454.9	6.994	mg/L	6.994	mg/L	00:56:01
1	Mn 294.920†	2774238.8	2761435.7	7.203	mg/L	7.203	mg/L	00:56:01
1	Mo 202.031†	988.0	947.1	-0.0877	mg/L	-0.0877	mg/L	00:56:13
1	Ni 231.604†	10008.3	9799.3	0.2201	mg/L	0.2201	mg/L	00:56:13
1	P 214.914†	10748.6	10720.9	6.609	mg/L	6.609	mg/L	00:56:03
1	Pb 220.353†	49623.3	49188.3	3.436	mg/L	3.436	mg/L	00:56:03
1	Sb 206.836†	126.9	78.4	-0.0512	mg/L	-0.0512	mg/L	00:56:13
1	Se 196.026†	-70.0	-80.5	-0.1133	mg/L	-0.1133	mg/L	00:56:13
1	Sn 189.927†	-19.4	-48.6	0.0054	mg/L	0.0054	mg/L	00:56:13
1	Ti 337.279†	3284190.0	3268076.1	3.819	mg/L	3.819	mg/L	00:56:01
1	Tl 190.801†	-32.0	-27.0	-0.2156	mg/L	-0.2156	mg/L	00:56:13
1	V 292.402†	65365.2	65380.4	0.2930	mg/L	0.2930	mg/L	00:56:03
1	Zn 213.857†	660895.0	656382.2	4.798	mg/L	4.798	mg/L	00:56:03
2	B 249.677†	-41.4	-35.2	-0.0182	mg/L	-0.0182	mg/L	00:55:54
2	Fe 234.349†	472627.1	475915.9	317.3	mg/L	317.3	mg/L	00:55:52
2	K 766.490†	16106.6	15401.0	8.568	mg/L	8.568	mg/L	00:55:54
2	Li 670.784†	5312.3	5585.0	0.1580	mg/L	0.1580	mg/L	00:55:54
2	Na 589.592†	6195.2	5758.7	1.161	mg/L	1.161	mg/L	00:55:54
2	Sr 407.771†	142172.3	143093.1	0.1672	mg/L	0.1672	mg/L	00:55:52
2	Y 371.029	2682331.6	2682331.6	0.993	mg/L			00:56:17
2	Ag 328.068†	515.3	-1346.2	0.0023	mg/L	0.0023	mg/L	00:56:19
2	Al 237.313†	996923.8	1004305.8	111.2	mg/L	111.2	mg/L	00:56:17
2	As 188.979†	86.9	94.1	0.0724	mg/L	0.0724	mg/L	00:56:29
2	B 182.528†	31.0	40.7	0.0436	mg/L	0.0436	mg/L	00:56:29
2	Ba 233.527†	47157.0	47582.9	0.4177	mg/L	0.4177	mg/L	00:56:19
2	Be 313.107†	16211.1	17762.1	0.0073	mg/L	0.0073	mg/L	00:56:19
2	Ca 315.887†	2055149.2	2071355.4	22.61	mg/L	22.61	mg/L	00:56:17
2	Cd 228.802†	429.5	273.5	0.0042	mg/L	0.0042	mg/L	00:56:29
2	Co 228.616†	4150.9	4421.6	0.0803	mg/L	0.0803	mg/L	00:56:29
2	Cr 267.716†	30611.9	30259.1	0.2672	mg/L	0.2672	mg/L	00:56:19

2	Cu	324.752†	2733830.3	2748090.5	14.79 mg/L	14.79 mg/L	00:56:17
2	Mg	279.077†	465529.2	468771.9	37.81 mg/L	37.81 mg/L	00:56:17
2	Mn	257.610†	5468382.1	5490440.7	6.994 mg/L	6.994 mg/L	00:56:17
2	Mn	294.920†	2739824.0	2760261.2	7.200 mg/L	7.200 mg/L	00:56:17
2	Mo	202.031†	979.1	950.0	-0.0878 mg/L	-0.0878 mg/L	00:56:29
2	Ni	231.604†	9952.1	9863.4	0.2216 mg/L	0.2216 mg/L	00:56:29
2	P	214.914†	10777.4	10879.6	6.708 mg/L	6.708 mg/L	00:56:19
2	Pb	220.353†	49608.7	49772.5	3.478 mg/L	3.478 mg/L	00:56:19
2	Sb	206.836†	121.4	74.4	-0.0536 mg/L	-0.0536 mg/L	00:56:29
2	Se	196.026†	-60.5	-71.8	-0.1076 mg/L	-0.1076 mg/L	00:56:29
2	Sn	189.927†	-14.0	-43.5	0.0061 mg/L	0.0061 mg/L	00:56:29
2	Ti	337.279†	3245512.8	3268763.6	3.820 mg/L	3.820 mg/L	00:56:17
2	Tl	190.801†	-25.7	-21.1	-0.2108 mg/L	-0.2108 mg/L	00:56:29
2	V	292.402†	65268.5	66071.9	0.2962 mg/L	0.2962 mg/L	00:56:19
2	Zn	213.857†	660019.9	663476.8	4.850 mg/L	4.850 mg/L	00:56:19

Mean Data: 1307090-11

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2698600.0	0.999	mg/L	0.0085				0.85%
Ag 328.068†	-1257.3	0.0028	mg/L	0.00067	0.0028	mg/L	0.00067	23.93%
Al 237.313†	1004626.4	111.2	mg/L	0.05	111.2	mg/L	0.05	0.05%
As 188.979†	95.3	0.0733	mg/L	0.00120	0.0733	mg/L	0.00120	1.64%
B 249.677†	-34.6	-0.0179	mg/L	0.00045	-0.0179	mg/L	0.00045	2.53%
B 182.528†	39.1	0.0418	mg/L	0.00253	0.0418	mg/L	0.00253	6.04%
Ba 233.527†	47257.3	0.4149	mg/L	0.00401	0.4149	mg/L	0.00401	0.97%
Be 313.107†	17664.0	0.0073	mg/L	0.00006	0.0073	mg/L	0.00006	0.84%
Ca 315.887†	2072895.3	22.63	mg/L	0.024	22.63	mg/L	0.024	0.10%
Cd 228.802†	268.2	0.0040	mg/L	0.00021	0.0040	mg/L	0.00021	5.33%
Co 228.616†	4397.3	0.0798	mg/L	0.00069	0.0798	mg/L	0.00069	0.86%
Cr 267.716†	30119.8	0.2660	mg/L	0.00172	0.2660	mg/L	0.00172	0.65%
Cu 324.752†	2747843.3	14.79	mg/L	0.002	14.79	mg/L	0.002	0.01%
Fe 234.349†	474608.8	316.5	mg/L	1.23	316.5	mg/L	1.23	0.39%
K 766.490†	15356.4	8.543	mg/L	0.0344	8.543	mg/L	0.0344	0.40%
Li 670.784†	5629.5	0.1592	mg/L	0.00173	0.1592	mg/L	0.00173	1.09%
Mg 279.077†	469166.4	37.84	mg/L	0.045	37.84	mg/L	0.045	0.12%
Mn 257.610†	5490447.8	6.994	mg/L	0.0003	6.994	mg/L	0.0003	0.00%
Mn 294.920†	2760848.4	7.201	mg/L	0.0022	7.201	mg/L	0.0022	0.03%
Mo 202.031†	948.6	-0.0877	mg/L	0.00011	-0.0877	mg/L	0.00011	0.12%
Na 589.592†	5713.8	1.153	mg/L	0.0115	1.153	mg/L	0.0115	1.00%
Ni 231.604†	9831.3	0.2208	mg/L	0.00101	0.2208	mg/L	0.00101	0.46%
P 214.914†	10800.3	6.658	mg/L	0.0703	6.658	mg/L	0.0703	1.06%
Pb 220.353†	49480.4	3.457	mg/L	0.0291	3.457	mg/L	0.0291	0.84%
Sb 206.836†	76.4	-0.0524	mg/L	0.00170	-0.0524	mg/L	0.00170	3.25%
Se 196.026†	-76.2	-0.1105	mg/L	0.00399	-0.1105	mg/L	0.00399	3.61%
Sn 189.927†	-46.0	0.0058	mg/L	0.00052	0.0058	mg/L	0.00052	9.04%
Sr 407.771†	142723.8	0.1668	mg/L	0.00061	0.1668	mg/L	0.00061	0.37%
Ti 337.279†	3268419.9	3.820	mg/L	0.0006	3.820	mg/L	0.0006	0.01%
Tl 190.801†	-24.0	-0.2132	mg/L	0.00335	-0.2132	mg/L	0.00335	1.57%
V 292.402†	65726.2	0.2946	mg/L	0.00221	0.2946	mg/L	0.00221	0.75%
Zn 213.857†	659929.5	4.824	mg/L	0.0368	4.824	mg/L	0.0368	0.76%

Sequence No.: 161

Sample ID: 1307090-12

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 136

Date Collected: 7/6/2013 12:59:36 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307090-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-18.8	-12.5	-0.0057	mg/L	-0.0057	mg/L	01:01:19
1	Fe 234.349†	239418.9	242701.3	161.8	mg/L	161.8	mg/L	01:01:17
1	K 766.490†	6892.8	6169.6	3.537	mg/L	3.537	mg/L	01:01:19
1	Li 670.784†	4120.4	4412.6	0.1257	mg/L	0.1257	mg/L	01:01:19
1	Na 589.592†	2785.8	2344.4	0.5398	mg/L	0.5398	mg/L	01:01:19
1	Sr 407.771†	64598.4	65415.3	0.0766	mg/L	0.0766	mg/L	01:01:17
1	Y 371.029	2664431.9	2664431.9	0.986	mg/L			01:01:29
1	Ag 328.068†	978.6	-873.1	0.0010	mg/L	0.0010	mg/L	01:01:31
1	Al 237.313†	748439.6	759151.9	84.03	mg/L	84.03	mg/L	01:01:29

1	As	188.979†	44.0	51.3	0.0414	mg/L	0.0414	mg/L	01:01:41
1	B	182.528†	10.2	19.9	0.0212	mg/L	0.0212	mg/L	01:01:41
1	Ba	233.527†	19797.3	20166.3	0.1788	mg/L	0.1788	mg/L	01:01:31
1	Be	313.107†	10369.9	11950.4	0.0050	mg/L	0.0050	mg/L	01:01:31
1	Ca	315.887†	977651.0	992957.4	10.86	mg/L	10.86	mg/L	01:01:29
1	Cd	228.802†	239.8	84.1	0.0009	mg/L	0.0009	mg/L	01:01:41
1	Co	228.616†	2034.8	2304.5	0.0408	mg/L	0.0408	mg/L	01:01:41
1	Cr	267.716†	12433.6	12038.2	0.1083	mg/L	0.1083	mg/L	01:01:31
1	Cu	324.752†	502966.4	505073.2	2.724	mg/L	2.724	mg/L	01:01:29
1	Mg	279.077†	341933.9	346627.9	27.96	mg/L	27.96	mg/L	01:01:29
1	Mn	257.610†	1990978.8	2002258.1	2.541	mg/L	2.541	mg/L	01:01:29
1	Mn	294.920†	991060.0	1006007.3	2.625	mg/L	2.625	mg/L	01:01:29
1	Mo	202.031†	303.0	271.3	-0.0255	mg/L	-0.0255	mg/L	01:01:31
1	Ni	231.604†	4200.7	4100.3	0.0930	mg/L	0.0930	mg/L	01:01:31
1	P	214.914†	5452.9	5554.9	3.498	mg/L	3.498	mg/L	01:01:41
1	Pb	220.353†	10247.4	10206.1	0.7007	mg/L	0.7007	mg/L	01:01:31
1	Sb	206.836†	88.1	41.5	-0.0234	mg/L	-0.0234	mg/L	01:01:41
1	Se	196.026†	-14.5	-25.6	-0.0449	mg/L	-0.0449	mg/L	01:01:41
1	Sn	189.927†	-69.5	-99.8	-0.0095	mg/L	-0.0095	mg/L	01:01:41
1	Ti	337.279†	2105028.8	2134567.2	2.496	mg/L	2.496	mg/L	01:01:29
1	Tl	190.801†	-15.2	-10.6	-0.1070	mg/L	-0.1070	mg/L	01:01:41
1	V	292.402†	40668.2	41575.2	0.1883	mg/L	0.1883	mg/L	01:01:31
1	Zn	213.857†	211974.8	213741.5	1.564	mg/L	1.564	mg/L	01:01:31
2	B	249.677†	-59.6	-52.6	-0.0280	mg/L	-0.0280	mg/L	01:01:24
2	Fe	234.349†	238693.0	236656.8	157.8	mg/L	157.8	mg/L	01:01:22
2	K	766.490†	6932.6	6055.8	3.475	mg/L	3.475	mg/L	01:01:24
2	Li	670.784†	4201.1	4401.0	0.1254	mg/L	0.1254	mg/L	01:01:24
2	Na	589.592†	2729.2	2226.3	0.5183	mg/L	0.5183	mg/L	01:01:24
2	Sr	407.771†	64551.6	63932.2	0.0749	mg/L	0.0749	mg/L	01:01:22
2	Y	371.029	2724196.6	2724196.6	1.01	mg/L			01:01:44
2	Ag	328.068†	907.1	-965.7	0.0004	mg/L	0.0004	mg/L	01:01:47
2	Al	237.313†	767112.8	761021.2	84.23	mg/L	84.23	mg/L	01:01:44
2	As	188.979†	40.6	46.9	0.0382	mg/L	0.0382	mg/L	01:01:57
2	B	182.528†	14.3	23.7	0.0254	mg/L	0.0254	mg/L	01:01:57
2	Ba	233.527†	19893.3	19821.2	0.1758	mg/L	0.1758	mg/L	01:01:47
2	Be	313.107†	10248.8	11599.7	0.0049	mg/L	0.0049	mg/L	01:01:47
2	Ca	315.887†	1002744.2	996094.4	10.89	mg/L	10.89	mg/L	01:01:44
2	Cd	228.802†	251.7	90.5	0.0012	mg/L	0.0012	mg/L	01:01:57
2	Co	228.616†	1996.6	2221.4	0.0391	mg/L	0.0391	mg/L	01:01:57
2	Cr	267.716†	12491.2	11818.8	0.1064	mg/L	0.1064	mg/L	01:01:47
2	Cu	324.752†	514114.8	504940.9	2.723	mg/L	2.723	mg/L	01:01:44
2	Mg	279.077†	351229.5	348240.0	28.09	mg/L	28.09	mg/L	01:01:44
2	Mn	257.610†	2039524.3	2006111.7	2.547	mg/L	2.547	mg/L	01:01:44
2	Mn	294.920†	1015326.7	1008026.8	2.630	mg/L	2.630	mg/L	01:01:44
2	Mo	202.031†	347.9	309.0	-0.0233	mg/L	-0.0233	mg/L	01:01:47
2	Ni	231.604†	4202.7	4008.9	0.0910	mg/L	0.0910	mg/L	01:01:47
2	P	214.914†	5419.4	5400.4	3.401	mg/L	3.401	mg/L	01:01:57
2	Pb	220.353†	10313.1	10043.3	0.6892	mg/L	0.6892	mg/L	01:01:47
2	Sb	206.836†	91.2	42.6	-0.0217	mg/L	-0.0217	mg/L	01:01:57
2	Se	196.026†	-19.5	-30.3	-0.0473	mg/L	-0.0473	mg/L	01:01:57
2	Sn	189.927†	-90.3	-118.9	-0.0123	mg/L	-0.0123	mg/L	01:01:57
2	Ti	337.279†	2153460.3	2135771.4	2.498	mg/L	2.498	mg/L	01:01:44
2	Tl	190.801†	-16.7	-11.7	-0.1057	mg/L	-0.1057	mg/L	01:01:57
2	V	292.402†	40591.8	40594.9	0.1839	mg/L	0.1839	mg/L	01:01:47
2	Zn	213.857†	212790.2	209835.6	1.535	mg/L	1.535	mg/L	01:01:47

Mean Data: 1307090-12

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2694314.3	0.998	mg/L	0.0156				1.57%
Ag 328.068†	-919.4	0.0007	mg/L	0.00043	0.0007	mg/L	0.00043	60.86%
Al 237.313†	760086.6	84.13	mg/L	0.146	84.13	mg/L	0.146	0.17%
As 188.979†	49.1	0.0398	mg/L	0.00224	0.0398	mg/L	0.00224	5.61%
B 249.677†	-32.6	-0.0168	mg/L	0.01576	-0.0168	mg/L	0.01576	93.65%
B 182.528†	21.8	0.0233	mg/L	0.00292	0.0233	mg/L	0.00292	12.54%
Ba 233.527†	19993.8	0.1773	mg/L	0.00213	0.1773	mg/L	0.00213	1.20%
Be 313.107†	11775.0	0.0050	mg/L	0.00011	0.0050	mg/L	0.00011	2.20%
Ca 315.887†	994525.9	10.88	mg/L	0.024	10.88	mg/L	0.024	0.22%
Cd 228.802†	87.3	0.0010	mg/L	0.00019	0.0010	mg/L	0.00019	18.86%
Co 228.616†	2263.0	0.0399	mg/L	0.00118	0.0399	mg/L	0.00118	2.95%
Cr 267.716†	11928.5	0.1074	mg/L	0.00135	0.1074	mg/L	0.00135	1.26%
Cu 324.752†	505007.0	2.724	mg/L	0.0005	2.724	mg/L	0.0005	0.02%

2	B	182.528†	12.9	22.2	0.0237 mg/L	0.0237 mg/L	01:05:50
2	Ba	233.527†	24557.9	24142.9	0.2135 mg/L	0.2135 mg/L	01:05:40
2	Be	313.107†	11608.1	12804.1	0.0055 mg/L	0.0055 mg/L	01:05:40
2	Ca	315.887†	986654.7	967958.1	10.59 mg/L	10.59 mg/L	01:05:38
2	Cd	228.802†	260.5	96.0	0.0019 mg/L	0.0019 mg/L	01:05:50
2	Co	228.616†	1724.3	1930.2	0.0338 mg/L	0.0338 mg/L	01:05:50
2	Cr	267.716†	13807.8	12953.7	0.1163 mg/L	0.1163 mg/L	01:05:40
2	Cu	324.752†	532130.9	516232.8	2.784 mg/L	2.784 mg/L	01:05:38
2	Mg	279.077†	265737.1	260192.9	21.00 mg/L	21.00 mg/L	01:05:38
2	Mn	257.610†	1856673.4	1801888.5	2.292 mg/L	2.292 mg/L	01:05:38
2	Mn	294.920†	919682.4	901838.9	2.353 mg/L	2.353 mg/L	01:05:38
2	Mo	202.031†	366.7	323.1	-0.0179 mg/L	-0.0179 mg/L	01:05:40
2	Ni	231.604†	3946.4	3706.1	0.0843 mg/L	0.0843 mg/L	01:05:40
2	P	214.914†	4429.6	4364.3	2.752 mg/L	2.752 mg/L	01:05:50
2	Pb	220.353†	12599.8	12155.0	0.8385 mg/L	0.8385 mg/L	01:05:40
2	Sb	206.836†	86.3	36.7	-0.0148 mg/L	-0.0148 mg/L	01:05:50
2	Se	196.026†	-12.1	-22.7	-0.0352 mg/L	-0.0352 mg/L	01:05:50
2	Sn	189.927†	-58.6	-86.7	-0.0077 mg/L	-0.0077 mg/L	01:05:50
2	Ti	337.279†	1975802.8	1935226.3	2.264 mg/L	2.264 mg/L	01:05:38
2	Tl	190.801†	-9.3	-4.3	-0.0777 mg/L	-0.0777 mg/L	01:05:50
2	V	292.402†	36241.8	35834.4	0.1628 mg/L	0.1628 mg/L	01:05:40
2	Zn	213.857†	191129.1	185998.6	1.362 mg/L	1.362 mg/L	01:05:40

Mean Data: 1307090-13

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2744303.7	1.02 mg/L	0.007			0.73%
Ag 328.068†	-667.3	0.0012 mg/L	0.00072	0.0012 mg/L	0.00072	58.27%
Al 237.313†	739033.7	81.80 mg/L	0.113	81.80 mg/L	0.113	0.14%
As 188.979†	44.7	0.0367 mg/L	0.00519	0.0367 mg/L	0.00519	14.15%
B 249.677†	-23.6	-0.0119 mg/L	0.00252	-0.0119 mg/L	0.00252	21.22%
B 182.528†	18.9	0.0202 mg/L	0.00503	0.0202 mg/L	0.00503	24.92%
Ba 233.527†	24103.5	0.2131 mg/L	0.00049	0.2131 mg/L	0.00049	0.23%
Be 313.107†	12827.7	0.0055 mg/L	0.00002	0.0055 mg/L	0.00002	0.28%
Ca 315.887†	967549.3	10.58 mg/L	0.006	10.58 mg/L	0.006	0.06%
Cd 228.802†	93.1	0.0018 mg/L	0.00017	0.0018 mg/L	0.00017	9.50%
Co 228.616†	1928.0	0.0337 mg/L	0.00006	0.0337 mg/L	0.00006	0.17%
Cr 267.716†	12933.5	0.1161 mg/L	0.00025	0.1161 mg/L	0.00025	0.21%
Cu 324.752†	516175.0	2.784 mg/L	0.0004	2.784 mg/L	0.0004	0.02%
Fe 234.349†	187452.3	125.0 mg/L	2.24	125.0 mg/L	2.24	1.79%
K 766.490†	6152.2	3.527 mg/L	0.0671	3.527 mg/L	0.0671	1.90%
Li 670.784†	3607.0	0.1036 mg/L	0.00433	0.1036 mg/L	0.00433	4.18%
Mg 279.077†	259747.2	20.96 mg/L	0.051	20.96 mg/L	0.051	0.24%
Mn 257.610†	1800049.8	2.289 mg/L	0.0039	2.289 mg/L	0.0039	0.17%
Mn 294.920†	900844.4	2.351 mg/L	0.0037	2.351 mg/L	0.0037	0.16%
Mo 202.031†	309.4	-0.0187 mg/L	0.00116	-0.0187 mg/L	0.00116	6.20%
Na 589.592†	3350.0	0.7227 mg/L	0.01275	0.7227 mg/L	0.01275	1.76%
Ni 231.604†	3709.8	0.0843 mg/L	0.00012	0.0843 mg/L	0.00012	0.14%
P 214.914†	4350.4	2.743 mg/L	0.0123	2.743 mg/L	0.0123	0.45%
Pb 220.353†	12173.5	0.8398 mg/L	0.00186	0.8398 mg/L	0.00186	0.22%
Sb 206.836†	38.0	-0.0146 mg/L	0.00023	-0.0146 mg/L	0.00023	1.56%
Se 196.026†	-25.6	-0.0375 mg/L	0.00324	-0.0375 mg/L	0.00324	8.64%
Sn 189.927†	-86.2	-0.0076 mg/L	0.00010	-0.0076 mg/L	0.00010	1.37%
Sr 407.771†	67445.7	0.0790 mg/L	0.00144	0.0790 mg/L	0.00144	1.82%
Ti 337.279†	1934128.2	2.262 mg/L	0.0018	2.262 mg/L	0.0018	0.08%
Tl 190.801†	-1.8	-0.0762 mg/L	0.00220	-0.0762 mg/L	0.00220	2.89%
V 292.402†	35830.1	0.1628 mg/L	0.00004	0.1628 mg/L	0.00004	0.02%
Zn 213.857†	185967.5	1.361 mg/L	0.0004	1.361 mg/L	0.0004	0.03%

Sequence No.: 163

Sample ID: 1307090-14

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 138

Date Collected: 7/6/2013 1:07:27 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307090-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-41.2	-34.3	-0.0178 mg/L	-0.0178 mg/L	01:09:11
1	Fe 234.349†	231175.5	228746.1	152.5 mg/L	152.5 mg/L	01:09:09

1	K 766.490†	7807.2	6907.5	3.939 mg/L	3.939 mg/L	01:09:11
1	Li 670.784†	4252.0	4443.1	0.1266 mg/L	0.1266 mg/L	01:09:11
1	Na 589.592†	4149.7	3626.5	0.7731 mg/L	0.7731 mg/L	01:09:11
1	Sr 407.771†	75499.3	74637.5	0.0874 mg/L	0.0874 mg/L	01:09:09
1	Y 371.029	2729640.4	2729640.4	1.01 mg/L		01:09:21
1	Ag 328.068†	913.9	-960.8	0.0003 mg/L	0.0003 mg/L	01:09:23
1	Al 237.313†	847929.7	839474.3	92.92 mg/L	92.92 mg/L	01:09:21
1	As 188.979†	59.3	65.3	0.0516 mg/L	0.0516 mg/L	01:09:33
1	B 182.528†	14.7	24.1	0.0258 mg/L	0.0258 mg/L	01:09:33
1	Ba 233.527†	30461.2	30239.0	0.2666 mg/L	0.2666 mg/L	01:09:23
1	Be 313.107†	13810.9	15104.1	0.0063 mg/L	0.0063 mg/L	01:09:23
1	Ca 315.887†	1150091.1	1139914.4	12.46 mg/L	12.46 mg/L	01:09:21
1	Cd 228.802†	266.9	105.1	0.0017 mg/L	0.0017 mg/L	01:09:33
1	Co 228.616†	2141.3	2360.7	0.0407 mg/L	0.0407 mg/L	01:09:33
1	Cr 267.716†	15192.9	14467.5	0.1295 mg/L	0.1295 mg/L	01:09:23
1	Cu 324.752†	490457.8	480515.2	2.593 mg/L	2.593 mg/L	01:09:21
1	Mg 279.077†	349796.8	346127.7	27.92 mg/L	27.92 mg/L	01:09:21
1	Mn 257.610†	2142554.1	2104029.0	2.674 mg/L	2.674 mg/L	01:09:21
1	Mn 294.920†	1065159.4	1055329.5	2.754 mg/L	2.754 mg/L	01:09:21
1	Mo 202.031†	313.4	274.2	-0.0233 mg/L	-0.0233 mg/L	01:09:23
1	Ni 231.604†	4650.4	4443.7	0.1007 mg/L	0.1007 mg/L	01:09:23
1	P 214.914†	5873.4	5839.0	3.677 mg/L	3.677 mg/L	01:09:33
1	Pb 220.353†	12211.7	11901.6	0.8185 mg/L	0.8185 mg/L	01:09:23
1	Sb 206.836†	90.0	41.2	-0.0211 mg/L	-0.0211 mg/L	01:09:33
1	Se 196.026†	-34.3	-44.9	-0.0562 mg/L	-0.0562 mg/L	01:09:33
1	Sn 189.927†	-141.0	-168.8	-0.0187 mg/L	-0.0187 mg/L	01:09:33
1	Ti 337.279†	2629045.0	2602114.1	3.042 mg/L	3.042 mg/L	01:09:21
1	Tl 190.801†	-16.6	-11.7	-0.1026 mg/L	-0.1026 mg/L	01:09:33
1	V 292.402†	49250.2	49082.4	0.2215 mg/L	0.2215 mg/L	01:09:23
1	Zn 213.857†	202392.1	199125.7	1.457 mg/L	1.457 mg/L	01:09:23
2	B 249.677†	-45.2	-37.4	-0.0195 mg/L	-0.0195 mg/L	01:09:16
2	Fe 234.349†	229526.0	223149.7	148.8 mg/L	148.8 mg/L	01:09:14
2	K 766.490†	7925.2	6887.4	3.928 mg/L	3.928 mg/L	01:09:16
2	Li 670.784†	4320.9	4436.6	0.1264 mg/L	0.1264 mg/L	01:09:16
2	Na 589.592†	4005.8	3414.9	0.7346 mg/L	0.7346 mg/L	01:09:16
2	Sr 407.771†	74814.9	72668.2	0.0851 mg/L	0.0851 mg/L	01:09:14
2	Y 371.029	2778130.3	2778130.3	1.03 mg/L		01:09:36
2	Ag 328.068†	899.6	-990.5	0.0001 mg/L	0.0001 mg/L	01:09:39
2	Al 237.313†	844620.9	821612.6	90.94 mg/L	90.94 mg/L	01:09:36
2	As 188.979†	59.6	64.6	0.0510 mg/L	0.0510 mg/L	01:09:49
2	B 182.528†	16.1	25.2	0.0269 mg/L	0.0269 mg/L	01:09:49
2	Ba 233.527†	31087.9	30322.2	0.2673 mg/L	0.2673 mg/L	01:09:39
2	Be 313.107†	14074.9	15122.4	0.0063 mg/L	0.0063 mg/L	01:09:39
2	Ca 315.887†	1146178.4	1116246.8	12.20 mg/L	12.20 mg/L	01:09:36
2	Cd 228.802†	263.2	96.9	0.0015 mg/L	0.0015 mg/L	01:09:49
2	Co 228.616†	2101.9	2285.4	0.0394 mg/L	0.0394 mg/L	01:09:49
2	Cr 267.716†	15589.2	14590.3	0.1306 mg/L	0.1306 mg/L	01:09:39
2	Cu 324.752†	487972.6	469628.2	2.534 mg/L	2.534 mg/L	01:09:36
2	Mg 279.077†	348351.2	338680.8	27.32 mg/L	27.32 mg/L	01:09:36
2	Mn 257.610†	2135495.3	2060161.5	2.619 mg/L	2.619 mg/L	01:09:36
2	Mn 294.920†	1062266.5	1034120.3	2.698 mg/L	2.698 mg/L	01:09:36
2	Mo 202.031†	416.4	368.9	-0.0183 mg/L	-0.0183 mg/L	01:09:39
2	Ni 231.604†	4739.9	4450.3	0.1009 mg/L	0.1009 mg/L	01:09:39
2	P 214.914†	5800.4	5666.5	3.570 mg/L	3.570 mg/L	01:09:49
2	Pb 220.353†	12469.2	11941.1	0.8217 mg/L	0.8217 mg/L	01:09:39
2	Sb 206.836†	93.4	43.0	-0.0192 mg/L	-0.0192 mg/L	01:09:49
2	Se 196.026†	-26.4	-36.6	-0.0498 mg/L	-0.0498 mg/L	01:09:49
2	Sn 189.927†	-111.3	-137.5	-0.0142 mg/L	-0.0142 mg/L	01:09:49
2	Ti 337.279†	2616465.9	2544477.2	2.975 mg/L	2.975 mg/L	01:09:36
2	Tl 190.801†	-12.5	-7.3	-0.0961 mg/L	-0.0961 mg/L	01:09:49
2	V 292.402†	50061.3	49020.4	0.2214 mg/L	0.2214 mg/L	01:09:39
2	Zn 213.857†	206477.9	199602.6	1.461 mg/L	1.461 mg/L	01:09:39

Mean Data: 1307090-14

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2753885.4	1.02	mg/L	0.013				1.25%
Ag 328.068†	-975.7	0.0002	mg/L	0.00018	0.0002	mg/L	0.00018	100.61%
Al 237.313†	830543.5	91.93	mg/L	1.398	91.93	mg/L	1.398	1.52%
As 188.979†	65.0	0.0513	mg/L	0.00037	0.0513	mg/L	0.00037	0.72%
B 249.677†	-35.9	-0.0187	mg/L	0.00121	-0.0187	mg/L	0.00121	6.47%
B 182.528†	24.6	0.0264	mg/L	0.00079	0.0264	mg/L	0.00079	3.00%

Ba	233.527†	30280.6	0.2669 mg/L	0.00051	0.2669 mg/L	0.00051	0.19%
Be	313.107†	15113.3	0.0063 mg/L	0.00002	0.0063 mg/L	0.00002	0.27%
Ca	315.887†	1128080.6	12.33 mg/L	0.182	12.33 mg/L	0.182	1.48%
Cd	228.802†	101.0	0.0016 mg/L	0.00014	0.0016 mg/L	0.00014	8.51%
Co	228.616†	2323.0	0.0401 mg/L	0.00096	0.0401 mg/L	0.00096	2.40%
Cr	267.716†	14528.9	0.1300 mg/L	0.00076	0.1300 mg/L	0.00076	0.58%
Cu	324.752†	475071.7	2.563 mg/L	0.0415	2.563 mg/L	0.0415	1.62%
Fe	234.349†	225947.9	150.7 mg/L	2.64	150.7 mg/L	2.64	1.75%
K	766.490†	6897.4	3.933 mg/L	0.0078	3.933 mg/L	0.0078	0.20%
Li	670.784†	4439.8	0.1265 mg/L	0.00013	0.1265 mg/L	0.00013	0.10%
Mg	279.077†	342404.2	27.62 mg/L	0.424	27.62 mg/L	0.424	1.54%
Mn	257.610†	2082095.3	2.646 mg/L	0.0393	2.646 mg/L	0.0393	1.49%
Mn	294.920†	1044724.9	2.726 mg/L	0.0391	2.726 mg/L	0.0391	1.43%
Mo	202.031†	321.5	-0.0208 mg/L	0.00347	-0.0208 mg/L	0.00347	16.70%
Na	589.592†	3520.7	0.7538 mg/L	0.02722	0.7538 mg/L	0.02722	3.61%
Ni	231.604†	4447.0	0.1008 mg/L	0.00011	0.1008 mg/L	0.00011	0.11%
P	214.914†	5752.7	3.624 mg/L	0.0760	3.624 mg/L	0.0760	2.10%
Pb	220.353†	11921.3	0.8201 mg/L	0.00228	0.8201 mg/L	0.00228	0.28%
Sb	206.836†	42.1	-0.0201 mg/L	0.00137	-0.0201 mg/L	0.00137	6.81%
Se	196.026†	-40.7	-0.0530 mg/L	0.00456	-0.0530 mg/L	0.00456	8.61%
Sn	189.927†	-153.1	-0.0165 mg/L	0.00316	-0.0165 mg/L	0.00316	19.22%
Sr	407.771†	73652.9	0.0862 mg/L	0.00162	0.0862 mg/L	0.00162	1.88%
Ti	337.279†	2573295.6	3.008 mg/L	0.0476	3.008 mg/L	0.0476	1.58%
Tl	190.801†	-9.5	-0.0994 mg/L	0.00458	-0.0994 mg/L	0.00458	4.61%
V	292.402†	49051.4	0.2214 mg/L	0.00006	0.2214 mg/L	0.00006	0.03%
Zn	213.857†	199364.2	1.459 mg/L	0.0027	1.459 mg/L	0.0027	0.18%

Sequence No.: 164
Sample ID: 1307090-15
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 139
Date Collected: 7/6/2013 1:11:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-15

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-37.3	-30.0	-0.0154 mg/L	-0.0154 mg/L	01:13:07
1	Fe 234.349†	242702.0	237090.0	158.1 mg/L	158.1 mg/L	01:13:05
1	K 766.490†	9833.9	8788.9	4.964 mg/L	4.964 mg/L	01:13:07
1	Li 670.784†	3161.1	3323.7	0.0958 mg/L	0.0958 mg/L	01:13:07
1	Na 589.592†	6845.9	6208.1	1.243 mg/L	1.243 mg/L	01:13:07
1	Sr 407.771†	139691.6	136394.9	0.1594 mg/L	0.1594 mg/L	01:13:05
1	Y 371.029	2764890.8	2764890.8	1.02 mg/L		01:13:18
1	Ag 328.068†	1087.1	-803.2	0.0013 mg/L	0.0013 mg/L	01:13:18
1	Al 237.313†	708800.0	692860.7	76.69 mg/L	76.69 mg/L	01:13:18
1	As 188.979†	61.3	66.5	0.0525 mg/L	0.0525 mg/L	01:13:28
1	B 182.528†	15.3	24.5	0.0262 mg/L	0.0262 mg/L	01:13:28
1	Ba 233.527†	43877.5	42961.2	0.3774 mg/L	0.3774 mg/L	01:13:18
1	Be 313.107†	13814.0	14932.9	0.0063 mg/L	0.0063 mg/L	01:13:18
1	Ca 315.887†	2499563.8	2443711.8	26.67 mg/L	26.67 mg/L	01:13:18
1	Cd 228.802†	349.5	182.4	0.0040 mg/L	0.0040 mg/L	01:13:28
1	Co 228.616†	2191.0	2382.2	0.0414 mg/L	0.0414 mg/L	01:13:28
1	Cr 267.716†	19252.7	18241.9	0.1624 mg/L	0.1624 mg/L	01:13:18
1	Cu 324.752†	1089907.4	1059933.1	5.709 mg/L	5.709 mg/L	01:13:18
1	Mg 279.077†	250902.9	245104.9	19.78 mg/L	19.78 mg/L	01:13:18
1	Mn 257.610†	2677697.3	2599783.2	3.311 mg/L	3.311 mg/L	01:13:18
1	Mn 294.920†	1329461.0	1300089.3	3.392 mg/L	3.392 mg/L	01:13:18
1	Mo 202.031†	611.6	561.6	-0.0294 mg/L	-0.0294 mg/L	01:13:28
1	Ni 231.604†	5343.3	5061.8	0.1145 mg/L	0.1145 mg/L	01:13:28
1	P 214.914†	7977.5	7820.3	4.886 mg/L	4.886 mg/L	01:13:28
1	Pb 220.353†	31422.7	30514.9	2.132 mg/L	2.132 mg/L	01:13:18
1	Sb 206.836†	94.4	44.4	-0.0214 mg/L	-0.0214 mg/L	01:13:28
1	Se 196.026†	-29.5	-39.7	-0.0538 mg/L	-0.0538 mg/L	01:13:28
1	Sn 189.927†	-154.7	-180.5	-0.0116 mg/L	-0.0116 mg/L	01:13:28
1	Ti 337.279†	2556608.9	2498183.7	2.921 mg/L	2.921 mg/L	01:13:18
1	Tl 190.801†	-9.4	-4.3	-0.0983 mg/L	-0.0983 mg/L	01:13:28
1	V 292.402†	40773.2	40179.9	0.1811 mg/L	0.1811 mg/L	01:13:18
1	Zn 213.857†	310681.5	302360.9	2.212 mg/L	2.212 mg/L	01:13:18
2	B 249.677†	3.4	9.8	0.0068 mg/L	0.0068 mg/L	01:13:12
2	Fe 234.349†	241871.6	235156.4	156.8 mg/L	156.8 mg/L	01:13:10
2	K 766.490†	9957.1	8863.1	5.005 mg/L	5.005 mg/L	01:13:12

2	Li 670.784†	3062.0	3212.7	0.0928 mg/L	0.0928 mg/L	01:13:12
2	Na 589.592†	6894.4	6223.4	1.246 mg/L	1.246 mg/L	01:13:12
2	Sr 407.771†	139295.4	135361.4	0.1582 mg/L	0.1582 mg/L	01:13:10
2	Y 371.029	2778086.5	2778086.5	1.03 mg/L		01:13:32
2	Ag 328.068†	994.7	-898.0	0.0008 mg/L	0.0008 mg/L	01:13:32
2	Al 237.313†	711666.6	692358.8	76.63 mg/L	76.63 mg/L	01:13:32
2	As 188.979†	57.4	62.5	0.0496 mg/L	0.0496 mg/L	01:13:42
2	B 182.528†	13.9	23.0	0.0246 mg/L	0.0246 mg/L	01:13:42
2	Ba 233.527†	44083.0	42957.3	0.3774 mg/L	0.3774 mg/L	01:13:32
2	Be 313.107†	13828.7	14883.2	0.0062 mg/L	0.0062 mg/L	01:13:32
2	Ca 315.887†	2510625.3	2442868.0	26.66 mg/L	26.66 mg/L	01:13:32
2	Cd 228.802†	341.5	172.9	0.0037 mg/L	0.0037 mg/L	01:13:42
2	Co 228.616†	2195.7	2376.6	0.0413 mg/L	0.0413 mg/L	01:13:42
2	Cr 267.716†	19301.8	18200.3	0.1621 mg/L	0.1621 mg/L	01:13:32
2	Cu 324.752†	1095166.5	1059988.8	5.710 mg/L	5.710 mg/L	01:13:32
2	Mg 279.077†	251789.8	244802.9	19.76 mg/L	19.76 mg/L	01:13:32
2	Mn 257.610†	2692124.1	2601384.8	3.313 mg/L	3.313 mg/L	01:13:32
2	Mn 294.920†	1336273.3	1300543.7	3.393 mg/L	3.393 mg/L	01:13:32
2	Mo 202.031†	637.7	584.1	-0.0283 mg/L	-0.0283 mg/L	01:13:42
2	Ni 231.604†	5359.3	5052.6	0.1143 mg/L	0.1143 mg/L	01:13:42
2	P 214.914†	7998.0	7803.2	4.875 mg/L	4.875 mg/L	01:13:42
2	Pb 220.353†	31922.1	30854.7	2.156 mg/L	2.156 mg/L	01:13:32
2	Sb 206.836†	104.0	53.2	-0.0168 mg/L	-0.0168 mg/L	01:13:42
2	Se 196.026†	-28.0	-38.1	-0.0524 mg/L	-0.0524 mg/L	01:13:42
2	Sn 189.927†	-168.8	-193.4	-0.0136 mg/L	-0.0136 mg/L	01:13:42
2	Ti 337.279†	2570085.1	2499422.9	2.922 mg/L	2.922 mg/L	01:13:32
2	Tl 190.801†	-3.3	1.6	-0.0918 mg/L	-0.0918 mg/L	01:13:42
2	V 292.402†	40746.1	39964.3	0.1801 mg/L	0.1801 mg/L	01:13:32
2	Zn 213.857†	312081.2	302280.1	2.212 mg/L	2.212 mg/L	01:13:32

Mean Data: 1307090-15

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2771488.7	1.03	mg/L	0.003			0.34%
Ag 328.068†	-850.6	0.0010	mg/L	0.00039	0.0010 mg/L	0.00039	38.10%
Al 237.313†	692609.7	76.66	mg/L	0.039	76.66 mg/L	0.039	0.05%
As 188.979†	64.5	0.0510	mg/L	0.00209	0.0510 mg/L	0.00209	4.09%
B 249.677†	-10.1	-0.0043	mg/L	0.01564	-0.0043 mg/L	0.01564	363.57%
B 182.528†	23.8	0.0254	mg/L	0.00114	0.0254 mg/L	0.00114	4.47%
Ba 233.527†	42959.3	0.3774	mg/L	0.00002	0.3774 mg/L	0.00002	0.01%
Be 313.107†	14908.1	0.0063	mg/L	0.00002	0.0063 mg/L	0.00002	0.25%
Ca 315.887†	2443289.9	26.66	mg/L	0.007	26.66 mg/L	0.007	0.02%
Cd 228.802†	177.7	0.0039	mg/L	0.00019	0.0039 mg/L	0.00019	4.99%
Co 228.616†	2379.4	0.0414	mg/L	0.00008	0.0414 mg/L	0.00008	0.19%
Cr 267.716†	18221.1	0.1622	mg/L	0.00026	0.1622 mg/L	0.00026	0.16%
Cu 324.752†	1059961.0	5.709	mg/L	0.0002	5.709 mg/L	0.0002	0.00%
Fe 234.349†	236123.2	157.4	mg/L	0.91	157.4 mg/L	0.91	0.58%
K 766.490†	8826.0	4.984	mg/L	0.0286	4.984 mg/L	0.0286	0.57%
Li 670.784†	3268.2	0.0943	mg/L	0.00216	0.0943 mg/L	0.00216	2.29%
Mg 279.077†	244953.9	19.77	mg/L	0.017	19.77 mg/L	0.017	0.09%
Mn 257.610†	2600584.0	3.312	mg/L	0.0017	3.312 mg/L	0.0017	0.05%
Mn 294.920†	1300316.5	3.393	mg/L	0.0008	3.393 mg/L	0.0008	0.02%
Mo 202.031†	572.8	-0.0288	mg/L	0.00081	-0.0288 mg/L	0.00081	2.82%
Na 589.592†	6215.7	1.244	mg/L	0.0020	1.244 mg/L	0.0020	0.16%
Ni 231.604†	5057.2	0.1144	mg/L	0.00014	0.1144 mg/L	0.00014	0.13%
P 214.914†	7811.8	4.880	mg/L	0.0076	4.880 mg/L	0.0076	0.16%
Pb 220.353†	30684.8	2.144	mg/L	0.0169	2.144 mg/L	0.0169	0.79%
Sb 206.836†	48.8	-0.0191	mg/L	0.00319	-0.0191 mg/L	0.00319	16.68%
Se 196.026†	-38.9	-0.0531	mg/L	0.00098	-0.0531 mg/L	0.00098	1.84%
Sn 189.927†	-186.9	-0.0126	mg/L	0.00136	-0.0126 mg/L	0.00136	10.78%
Sr 407.771†	135878.1	0.1588	mg/L	0.00085	0.1588 mg/L	0.00085	0.54%
Ti 337.279†	2498803.3	2.921	mg/L	0.0010	2.921 mg/L	0.0010	0.04%
Tl 190.801†	-1.4	-0.0950	mg/L	0.00463	-0.0950 mg/L	0.00463	4.88%
V 292.402†	40072.1	0.1806	mg/L	0.00069	0.1806 mg/L	0.00069	0.38%
Zn 213.857†	302320.5	2.212	mg/L	0.0004	2.212 mg/L	0.0004	0.02%

Sequence No.: 165
Sample ID: 1307090-16
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 140
Date Collected: 7/6/2013 1:15:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-16

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	-12.5	-5.3	-0.0016 mg/L	-0.0016 mg/L	01:17:00
1	Fe 234.349†	155994.0	146724.3	97.81 mg/L	97.81 mg/L	01:16:58
1	K 766.490†	6597.6	5387.9	3.111 mg/L	3.111 mg/L	01:17:00
1	Li 670.784†	2105.2	2215.8	0.0654 mg/L	0.0654 mg/L	01:17:00
1	Na 589.592†	9844.7	8780.4	1.711 mg/L	1.711 mg/L	01:17:00
1	Sr 407.771†	235800.8	221728.3	0.2589 mg/L	0.2589 mg/L	01:16:58
1	Y 371.029	2871549.0	2871549.0	1.06 mg/L		01:17:09
1	Ag 328.068†	1034.2	-892.4	-0.0007 mg/L	-0.0007 mg/L	01:17:11
1	Al 237.313†	535303.4	503947.3	55.78 mg/L	55.78 mg/L	01:17:09
1	As 188.979†	43.2	47.3	0.0385 mg/L	0.0385 mg/L	01:17:21
1	B 182.528†	15.1	23.7	0.0254 mg/L	0.0254 mg/L	01:17:21
1	Ba 233.527†	55070.5	51897.4	0.4553 mg/L	0.4553 mg/L	01:17:11
1	Be 313.107†	36375.7	35653.7	0.0156 mg/L	0.0156 mg/L	01:17:11
1	Ca 315.887†	2677865.8	2520728.9	27.51 mg/L	27.51 mg/L	01:17:09
1	Cd 228.802†	282.1	106.3	0.0027 mg/L	0.0027 mg/L	01:17:21
1	Co 228.616†	1182.4	1353.9	0.0229 mg/L	0.0229 mg/L	01:17:21
1	Cr 267.716†	20340.2	18566.2	0.1652 mg/L	0.1652 mg/L	01:17:11
1	Cu 324.752†	785005.5	733588.7	3.953 mg/L	3.953 mg/L	01:17:09
1	Mg 279.077†	192654.9	181211.6	14.63 mg/L	14.63 mg/L	01:17:11
1	Mn 257.610†	1163059.5	1077924.2	1.366 mg/L	1.366 mg/L	01:17:09
1	Mn 294.920†	575055.5	542240.9	1.416 mg/L	1.416 mg/L	01:17:09
1	Mo 202.031†	498.2	432.7	-0.0160 mg/L	-0.0160 mg/L	01:17:21
1	Ni 231.604†	3343.6	2987.1	0.0682 mg/L	0.0682 mg/L	01:17:21
1	P 214.914†	6340.6	5991.2	3.758 mg/L	3.758 mg/L	01:17:21
1	Pb 220.353†	58668.3	55002.4	3.863 mg/L	3.863 mg/L	01:17:11
1	Sb 206.836†	86.2	33.3	-0.0094 mg/L	-0.0094 mg/L	01:17:21
1	Se 196.026†	-1.0	-11.8	-0.0226 mg/L	-0.0226 mg/L	01:17:21
1	Sn 189.927†	-152.6	-172.8	-0.0100 mg/L	-0.0100 mg/L	01:17:21
1	Ti 337.279†	1805132.1	1698562.6	1.987 mg/L	1.987 mg/L	01:17:09
1	Tl 190.801†	-0.9	3.9	-0.0540 mg/L	-0.0540 mg/L	01:17:21
1	V 292.402†	38659.4	36712.0	0.1680 mg/L	0.1680 mg/L	01:17:11
1	Zn 213.857†	115100.7	107120.6	0.7809 mg/L	0.7809 mg/L	01:17:11
2	B 249.677†	-0.0	6.5	0.0049 mg/L	0.0049 mg/L	01:17:04
2	Fe 234.349†	159147.4	146755.1	97.83 mg/L	97.83 mg/L	01:17:02
2	K 766.490†	6684.1	5346.1	3.088 mg/L	3.088 mg/L	01:17:04
2	Li 670.784†	2040.3	2117.1	0.0626 mg/L	0.0626 mg/L	01:17:04
2	Na 589.592†	9954.7	8700.2	1.696 mg/L	1.696 mg/L	01:17:04
2	Sr 407.771†	240375.9	221598.4	0.2587 mg/L	0.2587 mg/L	01:17:02
2	Y 371.029	2928979.7	2928979.7	1.08 mg/L		01:17:24
2	Ag 328.068†	1117.9	-834.3	-0.0004 mg/L	-0.0004 mg/L	01:17:27
2	Al 237.313†	547437.6	505264.4	55.93 mg/L	55.93 mg/L	01:17:24
2	As 188.979†	44.2	47.4	0.0386 mg/L	0.0386 mg/L	01:17:37
2	B 182.528†	12.3	20.9	0.0223 mg/L	0.0223 mg/L	01:17:37
2	Ba 233.527†	55254.2	51051.1	0.4479 mg/L	0.4479 mg/L	01:17:27
2	Be 313.107†	36439.1	35041.3	0.0153 mg/L	0.0153 mg/L	01:17:27
2	Ca 315.887†	2745051.8	2533297.1	27.65 mg/L	27.65 mg/L	01:17:24
2	Cd 228.802†	288.0	106.5	0.0027 mg/L	0.0027 mg/L	01:17:37
2	Co 228.616†	1195.7	1344.4	0.0227 mg/L	0.0227 mg/L	01:17:37
2	Cr 267.716†	20319.1	18171.5	0.1618 mg/L	0.1618 mg/L	01:17:27
2	Cu 324.752†	801569.9	734385.8	3.957 mg/L	3.957 mg/L	01:17:24
2	Mg 279.077†	193440.6	178382.9	14.40 mg/L	14.40 mg/L	01:17:27
2	Mn 257.610†	1187563.8	1079070.6	1.368 mg/L	1.368 mg/L	01:17:24
2	Mn 294.920†	587448.2	543063.0	1.418 mg/L	1.418 mg/L	01:17:24
2	Mo 202.031†	479.9	406.6	-0.0171 mg/L	-0.0171 mg/L	01:17:37
2	Ni 231.604†	3323.1	2906.4	0.0664 mg/L	0.0664 mg/L	01:17:37
2	P 214.914†	6319.1	5854.4	3.673 mg/L	3.673 mg/L	01:17:37
2	Pb 220.353†	58953.0	54183.0	3.805 mg/L	3.805 mg/L	01:17:27
2	Sb 206.836†	80.1	26.0	-0.0128 mg/L	-0.0128 mg/L	01:17:37
2	Se 196.026†	3.4	-7.7	-0.0198 mg/L	-0.0198 mg/L	01:17:37
2	Sn 189.927†	-159.3	-176.2	-0.0104 mg/L	-0.0104 mg/L	01:17:37
2	Ti 337.279†	1841974.0	1699244.5	1.988 mg/L	1.988 mg/L	01:17:24
2	Tl 190.801†	-1.2	3.7	-0.0543 mg/L	-0.0543 mg/L	01:17:37
2	V 292.402†	38769.0	36100.1	0.1652 mg/L	0.1652 mg/L	01:17:27
2	Zn 213.857†	115640.9	105495.9	0.7690 mg/L	0.7690 mg/L	01:17:27

Mean Data: 1307090-16

Mean Corrected

Calib

Sample Page 344 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2900264.3	1.07 mg/L	0.015			1.40%
Ag 328.068†	-863.3	-0.0005 mg/L	0.00023	-0.0005 mg/L	0.00023	43.03%
Al 237.313†	504605.9	55.86 mg/L	0.103	55.86 mg/L	0.103	0.18%
As 188.979†	47.4	0.0386 mg/L	0.00005	0.0386 mg/L	0.00005	0.13%
B 249.677†	0.6	0.0016 mg/L	0.00463	0.0016 mg/L	0.00463	282.99%
B 182.528†	22.3	0.0239 mg/L	0.00215	0.0239 mg/L	0.00215	9.01%
Ba 233.527†	51474.2	0.4516 mg/L	0.00521	0.4516 mg/L	0.00521	1.15%
Be 313.107†	35347.5	0.0155 mg/L	0.00019	0.0155 mg/L	0.00019	1.23%
Ca 315.887†	2527013.0	27.58 mg/L	0.097	27.58 mg/L	0.097	0.35%
Cd 228.802†	106.4	0.0027 mg/L	0.00000	0.0027 mg/L	0.00000	0.16%
Co 228.616†	1349.2	0.0228 mg/L	0.00014	0.0228 mg/L	0.00014	0.60%
Cr 267.716†	18368.9	0.1635 mg/L	0.00243	0.1635 mg/L	0.00243	1.49%
Cu 324.752†	733987.3	3.955 mg/L	0.0030	3.955 mg/L	0.0030	0.08%
Fe 234.349†	146739.7	97.82 mg/L	0.014	97.82 mg/L	0.014	0.01%
K 766.490†	5367.0	3.099 mg/L	0.0161	3.099 mg/L	0.0161	0.52%
Li 670.784†	2166.4	0.0640 mg/L	0.00192	0.0640 mg/L	0.00192	3.00%
Mg 279.077†	179797.2	14.52 mg/L	0.161	14.52 mg/L	0.161	1.11%
Mn 257.610†	1078497.4	1.367 mg/L	0.0010	1.367 mg/L	0.0010	0.08%
Mn 294.920†	542652.0	1.417 mg/L	0.0015	1.417 mg/L	0.0015	0.11%
Mo 202.031†	419.7	-0.0165 mg/L	0.00080	-0.0165 mg/L	0.00080	4.85%
Na 589.592†	8740.3	1.703 mg/L	0.0103	1.703 mg/L	0.0103	0.61%
Ni 231.604†	2946.7	0.0673 mg/L	0.00127	0.0673 mg/L	0.00127	1.89%
P 214.914†	5922.8	3.716 mg/L	0.0606	3.716 mg/L	0.0606	1.63%
Pb 220.353†	54592.7	3.834 mg/L	0.0409	3.834 mg/L	0.0409	1.07%
Sb 206.836†	29.7	-0.0111 mg/L	0.00238	-0.0111 mg/L	0.00238	21.45%
Se 196.026†	-9.8	-0.0212 mg/L	0.00198	-0.0212 mg/L	0.00198	9.34%
Sn 189.927†	-174.5	-0.0102 mg/L	0.00030	-0.0102 mg/L	0.00030	2.92%
Sr 407.771†	221663.3	0.2588 mg/L	0.00011	0.2588 mg/L	0.00011	0.04%
Ti 337.279†	1698903.6	1.988 mg/L	0.0006	1.988 mg/L	0.0006	0.03%
Tl 190.801†	3.8	-0.0541 mg/L	0.00019	-0.0541 mg/L	0.00019	0.35%
V 292.402†	36406.1	0.1666 mg/L	0.00198	0.1666 mg/L	0.00198	1.19%
Zn 213.857†	106308.2	0.7750 mg/L	0.00845	0.7750 mg/L	0.00845	1.09%

Sequence No.: 166
Sample ID: 1307090-17
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 141
Date Collected: 7/6/2013 1:19:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-17

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-35.6	-27.9	-0.0142 mg/L	-0.0142 mg/L	01:20:58
1	Fe 234.349†	260797.9	251802.3	167.9 mg/L	167.9 mg/L	01:20:56
1	K 766.490†	7586.9	6507.6	3.721 mg/L	3.721 mg/L	01:20:58
1	Li 670.784†	4338.9	4425.0	0.1261 mg/L	0.1261 mg/L	01:20:58
1	Na 589.592†	3869.0	3256.0	0.7056 mg/L	0.7056 mg/L	01:20:58
1	Sr 407.771†	84132.4	81162.0	0.0950 mg/L	0.0950 mg/L	01:20:56
1	Y 371.029	2797454.2	2797454.2	1.04 mg/L		01:21:08
1	Ag 328.068†	890.2	-1005.6	0.0004 mg/L	0.0004 mg/L	01:21:10
1	Al 237.313†	803097.1	775847.5	85.87 mg/L	85.87 mg/L	01:21:08
1	As 188.979†	53.5	58.3	0.0464 mg/L	0.0464 mg/L	01:21:20
1	B 182.528†	13.4	22.5	0.0241 mg/L	0.0241 mg/L	01:21:20
1	Ba 233.527†	27069.1	26233.1	0.2317 mg/L	0.2317 mg/L	01:21:10
1	Be 313.107†	25979.0	26521.6	0.0114 mg/L	0.0114 mg/L	01:21:10
1	Ca 315.887†	1248436.1	1207282.3	13.19 mg/L	13.19 mg/L	01:21:08
1	Cd 228.802†	262.9	94.8	0.0011 mg/L	0.0011 mg/L	01:21:20
1	Co 228.616†	2616.1	2767.8	0.0492 mg/L	0.0492 mg/L	01:21:20
1	Cr 267.716†	15701.5	14594.1	0.1306 mg/L	0.1306 mg/L	01:21:10
1	Cu 324.752†	373666.6	355984.7	1.923 mg/L	1.923 mg/L	01:21:08
1	Mg 279.077†	298293.9	288009.3	23.24 mg/L	23.24 mg/L	01:21:08
1	Mn 257.610†	1792072.6	1714233.5	2.169 mg/L	2.169 mg/L	01:21:08
1	Mn 294.920†	896998.6	867414.4	2.264 mg/L	2.264 mg/L	01:21:08
1	Mo 202.031†	407.6	357.6	-0.0183 mg/L	-0.0183 mg/L	01:21:10
1	Ni 231.604†	4541.1	4226.5	0.0959 mg/L	0.0959 mg/L	01:21:10
1	P 214.914†	6510.7	6313.4	3.981 mg/L	3.981 mg/L	01:21:20
1	Pb 220.353†	10919.0	10360.5	0.7117 mg/L	0.7117 mg/L	01:21:10
1	Sb 206.836†	97.2	46.0	-0.0232 mg/L	-0.0232 mg/L	01:21:20
1	Se 196.026†	-24.4	-34.5	-0.0522 mg/L	-0.0522 mg/L	01:21:20
1	Sn 189.927†	-122.3	-147.4	-0.0151 mg/L	-0.0151 mg/L	01:21:20

1	Ti 337.279†	2549166.8	2461925.6	2.878	mg/L	2.878	mg/L	01:21:08
1	Tl 190.801†	-0.6	4.2	-0.0963	mg/L	-0.0963	mg/L	01:21:20
1	V 292.402†	46158.9	44916.3	0.2031	mg/L	0.2031	mg/L	01:21:10
1	Zn 213.857†	171077.7	164035.8	1.199	mg/L	1.199	mg/L	01:21:10
2	B 249.677†	-24.6	-17.1	-0.0082	mg/L	-0.0082	mg/L	01:21:03
2	Fe 234.349†	264100.7	253722.9	169.2	mg/L	169.2	mg/L	01:21:01
2	K 766.490†	7446.6	6336.3	3.628	mg/L	3.628	mg/L	01:21:03
2	Li 670.784†	4314.9	4381.1	0.1249	mg/L	0.1249	mg/L	01:21:03
2	Na 589.592†	3759.2	3131.9	0.6831	mg/L	0.6831	mg/L	01:21:03
2	Sr 407.771†	85403.9	81979.6	0.0960	mg/L	0.0960	mg/L	01:21:01
2	Y 371.029	2811438.0	2811438.0	1.04	mg/L			01:21:23
2	Ag 328.068†	794.5	-1101.9	-0.0001	mg/L	-0.0001	mg/L	01:21:26
2	Al 237.313†	807631.2	776346.8	85.93	mg/L	85.93	mg/L	01:21:23
2	As 188.979†	52.7	57.2	0.0457	mg/L	0.0457	mg/L	01:21:36
2	B 182.528†	11.9	21.0	0.0225	mg/L	0.0225	mg/L	01:21:36
2	Ba 233.527†	27057.6	26092.1	0.2305	mg/L	0.2305	mg/L	01:21:26
2	Be 313.107†	25672.8	26102.7	0.0112	mg/L	0.0112	mg/L	01:21:26
2	Ca 315.887†	1258251.8	1210717.0	13.23	mg/L	13.23	mg/L	01:21:23
2	Cd 228.802†	276.3	106.4	0.0015	mg/L	0.0015	mg/L	01:21:36
2	Co 228.616†	2678.4	2815.0	0.0502	mg/L	0.0502	mg/L	01:21:36
2	Cr 267.716†	15608.2	14429.0	0.1292	mg/L	0.1292	mg/L	01:21:26
2	Cu 324.752†	375467.2	355920.0	1.922	mg/L	1.922	mg/L	01:21:23
2	Mg 279.077†	300652.9	288843.1	23.30	mg/L	23.30	mg/L	01:21:23
2	Mn 257.610†	1802339.9	1715491.2	2.171	mg/L	2.171	mg/L	01:21:23
2	Mn 294.920†	902111.8	868019.0	2.265	mg/L	2.265	mg/L	01:21:23
2	Mo 202.031†	362.2	312.1	-0.0204	mg/L	-0.0204	mg/L	01:21:26
2	Ni 231.604†	4543.7	4207.2	0.0954	mg/L	0.0954	mg/L	01:21:26
2	P 214.914†	6541.2	6311.4	3.980	mg/L	3.980	mg/L	01:21:36
2	Pb 220.353†	10973.8	10360.8	0.7117	mg/L	0.7117	mg/L	01:21:26
2	Sb 206.836†	95.6	44.0	-0.0246	mg/L	-0.0246	mg/L	01:21:36
2	Se 196.026†	-18.8	-28.9	-0.0486	mg/L	-0.0486	mg/L	01:21:36
2	Sn 189.927†	-129.9	-154.1	-0.0160	mg/L	-0.0160	mg/L	01:21:36
2	Ti 337.279†	2561212.6	2461256.1	2.878	mg/L	2.878	mg/L	01:21:23
2	Tl 190.801†	-8.6	-3.4	-0.1045	mg/L	-0.1045	mg/L	01:21:36
2	V 292.402†	46076.9	44615.7	0.2017	mg/L	0.2017	mg/L	01:21:26
2	Zn 213.857†	170366.8	162531.3	1.188	mg/L	1.188	mg/L	01:21:26

Mean Data: 1307090-17

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2804446.1	1.04	mg/L	0.004				0.35%
Ag 328.068†	-1053.8	0.0002	mg/L	0.00035	0.0002	mg/L	0.00035	185.17%
Al 237.313†	776097.1	85.90	mg/L	0.039	85.90	mg/L	0.039	0.05%
As 188.979†	57.7	0.0461	mg/L	0.00053	0.0461	mg/L	0.00053	1.15%
B 249.677†	-22.5	-0.0112	mg/L	0.00423	-0.0112	mg/L	0.00423	37.68%
B 182.528†	21.8	0.0233	mg/L	0.00114	0.0233	mg/L	0.00114	4.91%
Ba 233.527†	26162.6	0.2311	mg/L	0.00087	0.2311	mg/L	0.00087	0.38%
Be 313.107†	26312.1	0.0113	mg/L	0.00013	0.0113	mg/L	0.00013	1.16%
Ca 315.887†	1208999.7	13.21	mg/L	0.026	13.21	mg/L	0.026	0.20%
Cd 228.802†	100.6	0.0013	mg/L	0.00024	0.0013	mg/L	0.00024	18.79%
Co 228.616†	2791.4	0.0497	mg/L	0.00067	0.0497	mg/L	0.00067	1.35%
Cr 267.716†	14511.6	0.1299	mg/L	0.00102	0.1299	mg/L	0.00102	0.78%
Cu 324.752†	355952.4	1.923	mg/L	0.0002	1.923	mg/L	0.0002	0.01%
Fe 234.349†	252762.6	168.5	mg/L	0.91	168.5	mg/L	0.91	0.54%
K 766.490†	6422.0	3.674	mg/L	0.0660	3.674	mg/L	0.0660	1.80%
Li 670.784†	4403.0	0.1255	mg/L	0.00085	0.1255	mg/L	0.00085	0.68%
Mg 279.077†	288426.2	23.27	mg/L	0.048	23.27	mg/L	0.048	0.20%
Mn 257.610†	1714862.4	2.170	mg/L	0.0009	2.170	mg/L	0.0009	0.04%
Mn 294.920†	867716.7	2.264	mg/L	0.0011	2.264	mg/L	0.0011	0.05%
Mo 202.031†	334.9	-0.0193	mg/L	0.00150	-0.0193	mg/L	0.00150	7.78%
Na 589.592†	3193.9	0.6943	mg/L	0.01596	0.6943	mg/L	0.01596	2.30%
Ni 231.604†	4216.8	0.0956	mg/L	0.00031	0.0956	mg/L	0.00031	0.32%
P 214.914†	6312.4	3.981	mg/L	0.0009	3.981	mg/L	0.0009	0.02%
Pb 220.353†	10360.7	0.7117	mg/L	0.00000	0.7117	mg/L	0.00000	0.00%
Sb 206.836†	45.0	-0.0239	mg/L	0.00095	-0.0239	mg/L	0.00095	3.97%
Se 196.026†	-31.7	-0.0504	mg/L	0.00250	-0.0504	mg/L	0.00250	4.95%
Sn 189.927†	-150.7	-0.0156	mg/L	0.00068	-0.0156	mg/L	0.00068	4.39%
Sr 407.771†	81570.8	0.0955	mg/L	0.00067	0.0955	mg/L	0.00067	0.71%
Ti 337.279†	2461590.8	2.878	mg/L	0.0006	2.878	mg/L	0.0006	0.02%
Tl 190.801†	0.4	-0.1004	mg/L	0.00582	-0.1004	mg/L	0.00582	5.80%
V 292.402†	44766.0	0.2024	mg/L	0.00098	0.2024	mg/L	0.00098	0.49%
Zn 213.857†	163283.6	1.193	mg/L	0.0079	1.193	mg/L	0.0079	0.66%

Sequence No.: 167
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/6/2013 1:23:13 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	828.9	870.0	0.4862 mg/L	0.4862 mg/L	01:25:04
1	Fe 234.349†	3558.7	3700.8	2.463 mg/L	2.463 mg/L	01:25:04
1	K 766.490†	44291.3	45326.6	24.88 mg/L	24.88 mg/L	01:24:54
1	Li 670.784†	17346.6	18308.0	0.5077 mg/L	0.5077 mg/L	01:24:54
1	Na 589.592†	132038.2	137083.1	25.05 mg/L	25.05 mg/L	01:24:54
1	Sr 407.771†	39841.8	41438.3	0.0487 mg/L	0.0487 mg/L	01:24:54
1	Y 371.029	2592561.0	2592561.0	0.960 mg/L		01:25:21
1	Ag 328.068†	45211.1	45237.6	0.2526 mg/L	0.2526 mg/L	01:25:23
1	Al 237.313†	20782.5	22082.5	2.459 mg/L	2.459 mg/L	01:25:23
1	As 188.979†	635.4	668.7	0.4903 mg/L	0.4903 mg/L	01:25:33
1	B 182.528†	431.7	459.3	0.4929 mg/L	0.4929 mg/L	01:25:33
1	Ba 233.527†	53879.7	56231.0	0.4930 mg/L	0.4930 mg/L	01:25:23
1	Be 313.107†	105672.3	111531.7	0.0494 mg/L	0.0494 mg/L	01:25:21
1	Ca 315.887†	420815.7	440298.5	4.836 mg/L	4.836 mg/L	01:25:21
1	Cd 228.802†	7775.4	7941.7	0.2490 mg/L	0.2490 mg/L	01:25:33
1	Co 228.616†	23188.7	24400.7	0.4874 mg/L	0.4874 mg/L	01:25:23
1	Cr 267.716†	54544.4	56260.4	0.4942 mg/L	0.4942 mg/L	01:25:23
1	Cu 324.752†	93640.6	92755.7	0.5037 mg/L	0.5037 mg/L	01:25:23
1	Mg 279.077†	57877.3	60295.5	4.885 mg/L	4.885 mg/L	01:25:23
1	Mn 257.610†	385771.4	385839.8	0.4975 mg/L	0.4975 mg/L	01:25:23
1	Mn 294.920†	180186.0	189057.4	0.4946 mg/L	0.4946 mg/L	01:25:23
1	Mo 202.031†	11141.2	11571.5	0.4910 mg/L	0.4910 mg/L	01:25:33
1	Ni 231.604†	21172.8	21900.6	0.4906 mg/L	0.4906 mg/L	01:25:23
1	P 214.914†	7334.3	7668.3	4.841 mg/L	4.841 mg/L	01:25:33
1	Pb 220.353†	6864.1	6969.2	0.4922 mg/L	0.4922 mg/L	01:25:33
1	Sb 206.836†	1051.7	1047.8	0.4940 mg/L	0.4940 mg/L	01:25:33
1	Se 196.026†	1376.8	1423.5	0.9802 mg/L	0.9802 mg/L	01:25:33
1	Sn 189.927†	3249.7	3356.4	0.4984 mg/L	0.4984 mg/L	01:25:33
1	Ti 337.279†	404977.3	422541.6	0.4981 mg/L	0.4981 mg/L	01:25:23
1	Tl 190.801†	475.5	500.2	0.4838 mg/L	0.4838 mg/L	01:25:33
1	V 292.402†	104041.6	108743.0	0.5067 mg/L	0.5067 mg/L	01:25:23
1	Zn 213.857†	65587.5	67186.3	0.4929 mg/L	0.4929 mg/L	01:25:23
2	B 249.677†	823.3	869.1	0.4857 mg/L	0.4857 mg/L	01:25:17
2	Fe 234.349†	3558.0	3721.1	2.477 mg/L	2.477 mg/L	01:25:17
2	K 766.490†	44806.4	46128.1	25.31 mg/L	25.31 mg/L	01:25:07
2	Li 670.784†	17418.8	18486.1	0.5126 mg/L	0.5126 mg/L	01:25:07
2	Na 589.592†	133292.4	139177.6	25.44 mg/L	25.44 mg/L	01:25:07
2	Sr 407.771†	40469.4	42331.3	0.0497 mg/L	0.0497 mg/L	01:25:07
2	Y 371.029	2577935.4	2577935.4	0.954 mg/L		01:25:07
2	Ag 328.068†	44973.0	45255.4	0.2527 mg/L	0.2527 mg/L	01:25:38
2	Al 237.313†	20674.9	22092.6	2.460 mg/L	2.460 mg/L	01:25:38
2	As 188.979†	636.7	673.7	0.4940 mg/L	0.4940 mg/L	01:25:49
2	B 182.528†	440.2	470.7	0.5052 mg/L	0.5052 mg/L	01:25:49
2	Ba 233.527†	53618.5	56275.8	0.4934 mg/L	0.4934 mg/L	01:25:38
2	Be 313.107†	105091.1	111547.4	0.0494 mg/L	0.0494 mg/L	01:25:36
2	Ca 315.887†	419170.9	441062.5	4.844 mg/L	4.844 mg/L	01:25:36
2	Cd 228.802†	7898.3	8116.4	0.2544 mg/L	0.2544 mg/L	01:25:49
2	Co 228.616†	23081.3	24425.2	0.4879 mg/L	0.4879 mg/L	01:25:38
2	Cr 267.716†	54341.7	56370.3	0.4951 mg/L	0.4951 mg/L	01:25:38
2	Cu 324.752†	93382.0	93038.2	0.5052 mg/L	0.5052 mg/L	01:25:38
2	Mg 279.077†	57655.3	60404.9	4.894 mg/L	4.894 mg/L	01:25:38
2	Mn 257.610†	384230.0	386505.0	0.4984 mg/L	0.4984 mg/L	01:25:38
2	Mn 294.920†	179485.7	189388.7	0.4954 mg/L	0.4954 mg/L	01:25:38
2	Mo 202.031†	11329.2	11834.3	0.5021 mg/L	0.5021 mg/L	01:25:49
2	Ni 231.604†	21080.0	21928.6	0.4912 mg/L	0.4912 mg/L	01:25:38
2	P 214.914†	7466.2	7849.8	4.955 mg/L	4.955 mg/L	01:25:49
2	Pb 220.353†	6982.9	7134.3	0.5039 mg/L	0.5039 mg/L	01:25:49
2	Sb 206.836†	1065.1	1068.1	0.5036 mg/L	0.5036 mg/L	01:25:49
2	Se 196.026†	1412.8	1469.3	1.012 mg/L	1.012 mg/L	01:25:49
2	Sn 189.927†	3317.0	3446.1	0.5117 mg/L	0.5117 mg/L	01:25:49
2	Ti 337.279†	403589.2	423481.0	0.4992 mg/L	0.4992 mg/L	01:25:38

2	Tl 190.801†	494.1	522.5	0.5054 mg/L	0.5054 mg/L	01:25:49
2	V 292.402†	103600.7	108896.1	0.5075 mg/L	0.5075 mg/L	01:25:38
2	Zn 213.857†	65271.8	67243.2	0.4933 mg/L	0.4933 mg/L	01:25:38

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2585248.2	0.957 mg/L		0.0038			0.40%
Ag 328.068†	45246.5	0.2527 mg/L		0.00007	0.2527 mg/L	0.00007	0.03%
	QC value within limits for Ag 328.068	Recovery = 101.07%					
Al 237.313†	22087.5	2.460 mg/L		0.0008	2.460 mg/L	0.0008	0.03%
	QC value within limits for Al 237.313	Recovery = 98.38%					
As 188.979†	671.2	0.4922 mg/L		0.00259	0.4922 mg/L	0.00259	0.53%
	QC value within limits for As 188.979	Recovery = 98.43%					
B 249.677†	869.6	0.4859 mg/L		0.00035	0.4859 mg/L	0.00035	0.07%
	QC value within limits for B 249.677	Recovery = 97.18%					
B 182.528†	465.0	0.4990 mg/L		0.00868	0.4990 mg/L	0.00868	1.74%
	QC value within limits for B 182.528	Recovery = 99.81%					
Ba 233.527†	56253.4	0.4932 mg/L		0.00028	0.4932 mg/L	0.00028	0.06%
	QC value within limits for Ba 233.527	Recovery = 98.65%					
Be 313.107†	111539.5	0.0494 mg/L		0.00000	0.0494 mg/L	0.00000	0.01%
	QC value within limits for Be 313.107	Recovery = 98.74%					
Ca 315.887†	440680.5	4.840 mg/L		0.0059	4.840 mg/L	0.0059	0.12%
	QC value within limits for Ca 315.887	Recovery = 96.80%					
Cd 228.802†	8029.1	0.2517 mg/L		0.00386	0.2517 mg/L	0.00386	1.53%
	QC value within limits for Cd 228.802	Recovery = 100.68%					
Co 228.616†	24413.0	0.4877 mg/L		0.00035	0.4877 mg/L	0.00035	0.07%
	QC value within limits for Co 228.616	Recovery = 97.53%					
Cr 267.716†	56315.4	0.4947 mg/L		0.00068	0.4947 mg/L	0.00068	0.14%
	QC value within limits for Cr 267.716	Recovery = 98.93%					
Cu 324.752†	92897.0	0.5044 mg/L		0.00107	0.5044 mg/L	0.00107	0.21%
	QC value within limits for Cu 324.752	Recovery = 100.88%					
Fe 234.349†	3710.9	2.470 mg/L		0.00096	2.470 mg/L	0.00096	0.39%
	QC value within limits for Fe 234.349	Recovery = 98.80%					
K 766.490†	45727.4	25.10 mg/L		0.309	25.10 mg/L	0.309	1.23%
	QC value within limits for K 766.490	Recovery = 100.38%					
Li 670.784†	18397.1	0.5101 mg/L		0.00346	0.5101 mg/L	0.00346	0.68%
	QC value within limits for Li 670.784	Recovery = 102.02%					
Mg 279.077†	60350.2	4.889 mg/L		0.0062	4.889 mg/L	0.0062	0.13%
	QC value within limits for Mg 279.077	Recovery = 97.78%					
Mn 257.610†	386172.4	0.4980 mg/L		0.00060	0.4980 mg/L	0.00060	0.12%
	QC value within limits for Mn 257.610	Recovery = 99.59%					
Mn 294.920†	189223.1	0.4950 mg/L		0.00061	0.4950 mg/L	0.00061	0.12%
	QC value within limits for Mn 294.920	Recovery = 99.00%					
Mo 202.031†	11702.9	0.4966 mg/L		0.00789	0.4966 mg/L	0.00789	1.59%
	QC value within limits for Mo 202.031	Recovery = 99.31%					
Na 589.592†	138130.3	25.25 mg/L		0.269	25.25 mg/L	0.269	1.07%
	QC value within limits for Na 589.592	Recovery = 100.98%					
Ni 231.604†	21914.6	0.4909 mg/L		0.00045	0.4909 mg/L	0.00045	0.09%
	QC value within limits for Ni 231.604	Recovery = 98.18%					
P 214.914†	7759.0	4.898 mg/L		0.0803	4.898 mg/L	0.0803	1.64%
	QC value within limits for P 214.914	Recovery = 97.96%					
Pb 220.353†	7051.7	0.4981 mg/L		0.00825	0.4981 mg/L	0.00825	1.66%
	QC value within limits for Pb 220.353	Recovery = 99.61%					
Sb 206.836†	1058.0	0.4988 mg/L		0.00677	0.4988 mg/L	0.00677	1.36%
	QC value within limits for Sb 206.836	Recovery = 99.76%					
Se 196.026†	1446.4	0.9959 mg/L		0.02221	0.9959 mg/L	0.02221	2.23%
	QC value within limits for Se 196.026	Recovery = 99.59%					
Sn 189.927†	3401.2	0.5050 mg/L		0.00940	0.5050 mg/L	0.00940	1.86%
	QC value within limits for Sn 189.927	Recovery = 101.01%					
Sr 407.771†	41884.8	0.0492 mg/L		0.00074	0.0492 mg/L	0.00074	1.50%
	QC value within limits for Sr 407.771	Recovery = 98.41%					
Ti 337.279†	423011.3	0.4986 mg/L		0.00078	0.4986 mg/L	0.00078	0.16%
	QC value within limits for Ti 337.279	Recovery = 99.73%					
Tl 190.801†	511.4	0.4946 mg/L		0.01528	0.4946 mg/L	0.01528	3.09%
	QC value within limits for Tl 190.801	Recovery = 98.93%					
V 292.402†	108819.5	0.5071 mg/L		0.00060	0.5071 mg/L	0.00060	0.12%
	QC value within limits for V 292.402	Recovery = 101.42%					
Zn 213.857†	67214.8	0.4931 mg/L		0.00029	0.4931 mg/L	0.00029	0.06%
	QC value within limits for Zn 213.857	Recovery = 98.62%					

All analyte(s) passed QC.

Sequence No.: 168
Sample ID: CCB1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 7/6/2013 1:27:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-0.5	6.0	0.0046 mg/L	0.0046 mg/L	01:29:16
1	Fe 234.349†	26.9	20.7	0.0244 mg/L	0.0244 mg/L	01:29:16
1	K 766.490†	819.3	20.8	0.1856 mg/L	0.1856 mg/L	01:29:06
1	Li 670.784†	-235.6	-5.6	0.0043 mg/L	0.0043 mg/L	01:29:06
1	Na 589.592†	10.0	-469.5	0.0278 mg/L	0.0278 mg/L	01:29:06
1	Sr 407.771†	25.7	-44.3	0.0003 mg/L	0.0003 mg/L	01:29:06
1	Y 371.029	2638672.8	2638672.8	0.977 mg/L		01:29:32
1	Ag 328.068†	1705.8	-119.0	0.0011 mg/L	0.0011 mg/L	01:29:34
1	Al 237.313†	-381.6	39.8	0.0178 mg/L	0.0178 mg/L	01:29:34
1	As 188.979†	-8.6	-2.1	0.0028 mg/L	0.0028 mg/L	01:29:44
1	B 182.528†	-8.2	1.2	0.0012 mg/L	0.0012 mg/L	01:29:44
1	Ba 233.527†	-72.2	23.1	0.0033 mg/L	0.0033 mg/L	01:29:44
1	Be 313.107†	-1268.5	139.6	0.0004 mg/L	0.0004 mg/L	01:29:34
1	Ca 315.887†	-1573.7	264.7	0.0388 mg/L	0.0388 mg/L	01:29:34
1	Cd 228.802†	157.3	2.0	0.0011 mg/L	0.0011 mg/L	01:29:44
1	Co 228.616†	-214.6	22.1	0.0005 mg/L	0.0005 mg/L	01:29:44
1	Cr 267.716†	552.0	-1.1	0.0034 mg/L	0.0034 mg/L	01:29:34
1	Cu 324.752†	5476.1	802.6	0.0087 mg/L	0.0087 mg/L	01:29:34
1	Mg 279.077†	82.8	81.3	0.0317 mg/L	0.0317 mg/L	01:29:34
1	Mn 257.610†	15162.4	-551.8	0.0010 mg/L	0.0010 mg/L	01:29:34
1	Mn 294.920†	-1099.2	207.1	0.0021 mg/L	0.0021 mg/L	01:29:34
1	Mo 202.031†	48.6	13.8	0.0031 mg/L	0.0031 mg/L	01:29:44
1	Ni 231.604†	139.3	-15.5	0.0013 mg/L	0.0013 mg/L	01:29:34
1	P 214.914†	-23.6	2.9	0.0487 mg/L	0.0487 mg/L	01:29:44
1	Pb 220.353†	153.2	-25.3	-0.0019 mg/L	-0.0019 mg/L	01:29:44
1	Sb 206.836†	50.1	3.5	0.0058 mg/L	0.0058 mg/L	01:29:44
1	Se 196.026†	15.6	5.1	0.0085 mg/L	0.0085 mg/L	01:29:44
1	Sn 189.927†	31.5	2.9	-0.0010 mg/L	-0.0010 mg/L	01:29:44
1	Ti 337.279†	-527.7	79.6	0.0050 mg/L	0.0050 mg/L	01:29:34
1	Tl 190.801†	-6.7	-2.1	-0.0009 mg/L	-0.0009 mg/L	01:29:44
1	V 292.402†	-354.3	-14.4	0.0045 mg/L	0.0045 mg/L	01:29:34
1	Zn 213.857†	1430.9	319.3	0.0050 mg/L	0.0050 mg/L	01:29:44
2	B 249.677†	-9.8	-3.6	-0.0007 mg/L	-0.0007 mg/L	01:29:28
2	Fe 234.349†	19.7	13.5	0.0196 mg/L	0.0196 mg/L	01:29:28
2	K 766.490†	875.5	83.8	0.2200 mg/L	0.2200 mg/L	01:29:18
2	Li 670.784†	-231.2	-2.5	0.0044 mg/L	0.0044 mg/L	01:29:18
2	Na 589.592†	141.0	-334.5	0.0524 mg/L	0.0524 mg/L	01:29:18
2	Sr 407.771†	65.4	-3.2	0.0004 mg/L	0.0004 mg/L	01:29:18
2	Y 371.029	2622553.2	2622553.2	0.971 mg/L		01:29:46
2	Ag 328.068†	1609.6	-207.4	0.0006 mg/L	0.0006 mg/L	01:29:49
2	Al 237.313†	-301.9	119.5	0.0266 mg/L	0.0266 mg/L	01:29:49
2	As 188.979†	2.9	9.6	0.0114 mg/L	0.0114 mg/L	01:29:59
2	B 182.528†	-3.8	5.6	0.0059 mg/L	0.0059 mg/L	01:29:59
2	Ba 233.527†	-73.1	21.8	0.0033 mg/L	0.0033 mg/L	01:29:59
2	Be 313.107†	-1258.8	141.5	0.0004 mg/L	0.0004 mg/L	01:29:49
2	Ca 315.887†	-1543.5	285.8	0.0391 mg/L	0.0391 mg/L	01:29:49
2	Cd 228.802†	152.0	-2.4	0.0009 mg/L	0.0009 mg/L	01:29:59
2	Co 228.616†	-222.1	13.0	0.0003 mg/L	0.0003 mg/L	01:29:59
2	Cr 267.716†	525.9	-24.5	0.0032 mg/L	0.0032 mg/L	01:29:49
2	Cu 324.752†	5383.6	741.9	0.0084 mg/L	0.0084 mg/L	01:29:49
2	Mg 279.077†	43.7	41.6	0.0285 mg/L	0.0285 mg/L	01:29:49
2	Mn 257.610†	15169.4	-449.2	0.0011 mg/L	0.0011 mg/L	01:29:49
2	Mn 294.920†	-1093.3	206.3	0.0021 mg/L	0.0021 mg/L	01:29:49
2	Mo 202.031†	53.0	18.7	0.0033 mg/L	0.0033 mg/L	01:29:59
2	Ni 231.604†	173.9	21.1	0.0021 mg/L	0.0021 mg/L	01:29:49
2	P 214.914†	-29.6	-3.4	0.0447 mg/L	0.0447 mg/L	01:29:59
2	Pb 220.353†	177.8	1.0	-0.0001 mg/L	-0.0001 mg/L	01:29:59
2	Sb 206.836†	49.2	2.9	0.0056 mg/L	0.0056 mg/L	01:29:59
2	Se 196.026†	10.5	-0.1	0.0049 mg/L	0.0049 mg/L	01:29:59
2	Sn 189.927†	50.1	22.3	0.0019 mg/L	0.0019 mg/L	01:29:59
2	Ti 337.279†	-463.5	142.4	0.0051 mg/L	0.0051 mg/L	01:29:49
2	Tl 190.801†	-5.5	-0.9	0.0003 mg/L	0.0003 mg/L	01:29:59

2	V 292.402†	-231.3	110.1	0.0051 mg/L	0.0051 mg/L	01:29:49
2	Zn 213.857†	1417.6	314.6	0.0050 mg/L	0.0050 mg/L	01:29:59

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2630613.0	0.974 mg/L		0.0042			0.43%
Ag 328.068†	-163.2	0.0009 mg/L		0.00035	0.0009 mg/L	0.00035	39.75%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 237.313†	79.6	0.0222 mg/L		0.00624	0.0222 mg/L	0.00624	28.15%
QC value within limits for Al 237.313 Recovery = Not calculated							
As 188.979†	3.7	0.0071 mg/L		0.00604	0.0071 mg/L	0.00604	85.14%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	1.2	0.0020 mg/L		0.00376	0.0020 mg/L	0.00376	192.33%
QC value within limits for B 249.677 Recovery = Not calculated							
B 182.528†	3.4	0.0036 mg/L		0.00336	0.0036 mg/L	0.00336	94.53%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	22.4	0.0033 mg/L		0.00001	0.0033 mg/L	0.00001	0.25%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated							
Be 313.107†	140.5	0.0004 mg/L		0.00000	0.0004 mg/L	0.00000	0.13%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 315.887†	275.3	0.0389 mg/L		0.00017	0.0389 mg/L	0.00017	0.42%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated							
Cd 228.802†	-0.2	0.0010 mg/L		0.00010	0.0010 mg/L	0.00010	9.78%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co 228.616†	17.6	0.0004 mg/L		0.00013	0.0004 mg/L	0.00013	35.78%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-12.8	0.0033 mg/L		0.00014	0.0033 mg/L	0.00014	4.40%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	772.3	0.0086 mg/L		0.00023	0.0086 mg/L	0.00023	2.70%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated							
Fe 234.349†	17.1	0.0220 mg/L		0.00341	0.0220 mg/L	0.00341	15.51%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated							
K 766.490†	52.3	0.2028 mg/L		0.02429	0.2028 mg/L	0.02429	11.98%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated							
Li 670.784†	-4.0	0.0043 mg/L		0.00006	0.0043 mg/L	0.00006	1.40%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg 279.077†	61.5	0.0301 mg/L		0.00226	0.0301 mg/L	0.00226	7.51%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	-500.5	0.0010 mg/L		0.00009	0.0010 mg/L	0.00009	9.02%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mn 294.920†	206.7	0.0021 mg/L		0.00000	0.0021 mg/L	0.00000	0.07%
QC value within limits for Mn 294.920 Recovery = Not calculated							
Mo 202.031†	16.2	0.0032 mg/L		0.00015	0.0032 mg/L	0.00015	4.69%
QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated							
Na 589.592†	-402.0	0.0401 mg/L		0.01737	0.0401 mg/L	0.01737	43.32%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	2.8	0.0017 mg/L		0.00058	0.0017 mg/L	0.00058	34.16%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.3	0.0467 mg/L		0.00279	0.0467 mg/L	0.00279	5.98%
QC value greater than the upper limit for P 214.914 Recovery = Not calculated							
Pb 220.353†	-12.1	-0.0010 mg/L		0.00131	-0.0010 mg/L	0.00131	130.56%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	3.2	0.0057 mg/L		0.00020	0.0057 mg/L	0.00020	3.59%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	2.5	0.0067 mg/L		0.00253	0.0067 mg/L	0.00253	37.66%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	12.6	0.0005 mg/L		0.00203	0.0005 mg/L	0.00203	427.89%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	-23.7	0.0003 mg/L		0.00003	0.0003 mg/L	0.00003	9.98%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	111.0	0.0050 mg/L		0.00005	0.0050 mg/L	0.00005	1.03%
QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	-1.5	-0.0003 mg/L		0.00084	-0.0003 mg/L	0.00084	297.34%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	47.8	0.0048 mg/L		0.00040	0.0048 mg/L	0.00040	8.38%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated							
Zn 213.857†	317.0	0.0050 mg/L		0.00003	0.0050 mg/L	0.00003	0.57%
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 169
Sample ID: 1307090-18
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 142
Date Collected: 7/6/2013 1:31:36 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307090-18

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	28.2	34.0	0.0202 mg/L	0.0202 mg/L	01:33:19
1	Fe 234.349†	154738.0	151073.6	100.7 mg/L	100.7 mg/L	01:33:17
1	K 766.490†	10678.7	9608.5	5.411 mg/L	5.411 mg/L	01:33:19
1	Li 670.784†	2016.3	2204.3	0.0650 mg/L	0.0650 mg/L	01:33:19
1	Na 589.592†	7732.8	7070.3	1.400 mg/L	1.400 mg/L	01:33:19
1	Sr 407.771†	204159.8	199263.5	0.2327 mg/L	0.2327 mg/L	01:33:17
1	Y 371.029	2766425.5	2766425.5	1.02 mg/L		01:33:29
1	Ag 328.068†	1309.2	-586.9	0.0011 mg/L	0.0011 mg/L	01:33:32
1	Al 237.313†	479310.9	468411.8	51.85 mg/L	51.85 mg/L	01:33:29
1	As 188.979†	39.1	44.8	0.0367 mg/L	0.0367 mg/L	01:33:42
1	B 182.528†	8.5	17.9	0.0191 mg/L	0.0191 mg/L	01:33:42
1	Ba 233.527†	76021.4	74321.5	0.6506 mg/L	0.6506 mg/L	01:33:32
1	Be 313.107†	15095.9	16177.1	0.0070 mg/L	0.0070 mg/L	01:33:32
1	Ca 315.887†	2963551.8	2895377.8	31.59 mg/L	31.59 mg/L	01:33:29
1	Cd 228.802†	358.4	190.9	0.0053 mg/L	0.0053 mg/L	01:33:42
1	Co 228.616†	1023.8	1241.4	0.0208 mg/L	0.0208 mg/L	01:33:42
1	Cr 267.716†	16024.2	15079.2	0.1348 mg/L	0.1348 mg/L	01:33:32
1	Cu 324.752†	1157111.9	1124958.3	6.058 mg/L	6.058 mg/L	01:33:29
1	Mg 279.077†	180304.9	176039.6	14.21 mg/L	14.21 mg/L	01:33:32
1	Mn 257.610†	1748805.5	1691396.5	2.155 mg/L	2.155 mg/L	01:33:29
1	Mn 294.920†	860482.4	841475.5	2.196 mg/L	2.196 mg/L	01:33:29
1	Mo 202.031†	612.7	562.3	-0.0227 mg/L	-0.0227 mg/L	01:33:42
1	Ni 231.604†	4353.6	4092.6	0.0929 mg/L	0.0929 mg/L	01:33:42
1	P 214.914†	9289.5	9097.1	5.681 mg/L	5.681 mg/L	01:33:32
1	Pb 220.353†	33265.1	32296.7	2.262 mg/L	2.262 mg/L	01:33:32
1	Sb 206.836†	86.8	36.9	-0.0082 mg/L	-0.0082 mg/L	01:33:42
1	Se 196.026†	-9.7	-20.4	-0.0291 mg/L	-0.0291 mg/L	01:33:42
1	Sn 189.927†	-174.5	-199.7	-0.0114 mg/L	-0.0114 mg/L	01:33:42
1	Ti 337.279†	1680166.8	1641072.5	1.920 mg/L	1.920 mg/L	01:33:29
1	Tl 190.801†	4.1	8.8	-0.0509 mg/L	-0.0509 mg/L	01:33:42
1	V 292.402†	34305.9	33843.3	0.1545 mg/L	0.1545 mg/L	01:33:32
1	Zn 213.857†	245067.4	238129.3	1.742 mg/L	1.742 mg/L	01:33:32
2	B 249.677†	9.7	16.0	0.0102 mg/L	0.0102 mg/L	01:33:24
2	Fe 234.349†	154567.5	152990.2	102.0 mg/L	102.0 mg/L	01:33:22
2	K 766.490†	10813.2	9885.5	5.562 mg/L	5.562 mg/L	01:33:24
2	Li 670.784†	2041.5	2256.3	0.0665 mg/L	0.0665 mg/L	01:33:24
2	Na 589.592†	8048.2	7486.7	1.475 mg/L	1.475 mg/L	01:33:24
2	Sr 407.771†	204438.7	202290.9	0.2362 mg/L	0.2362 mg/L	01:33:22
2	Y 371.029	2728762.2	2728762.2	1.01 mg/L		01:33:45
2	Ag 328.068†	1287.6	-590.6	0.0011 mg/L	0.0011 mg/L	01:33:48
2	Al 237.313†	471886.5	467522.2	51.75 mg/L	51.75 mg/L	01:33:45
2	As 188.979†	29.5	35.9	0.0302 mg/L	0.0302 mg/L	01:33:58
2	B 182.528†	18.2	27.6	0.0295 mg/L	0.0295 mg/L	01:33:58
2	Ba 233.527†	74509.1	73849.0	0.6465 mg/L	0.6465 mg/L	01:33:48
2	Be 313.107†	14775.1	16063.0	0.0070 mg/L	0.0070 mg/L	01:33:48
2	Ca 315.887†	2916672.7	2888912.2	31.52 mg/L	31.52 mg/L	01:33:45
2	Cd 228.802†	360.8	198.1	0.0055 mg/L	0.0055 mg/L	01:33:58
2	Co 228.616†	1077.3	1308.2	0.0221 mg/L	0.0221 mg/L	01:33:58
2	Cr 267.716†	15779.8	15053.2	0.1346 mg/L	0.1346 mg/L	01:33:48
2	Cu 324.752†	1141802.0	1125397.4	6.060 mg/L	6.060 mg/L	01:33:45
2	Mg 279.077†	176292.5	174497.8	14.09 mg/L	14.09 mg/L	01:33:48
2	Mn 257.610†	1722053.0	1688482.8	2.151 mg/L	2.151 mg/L	01:33:45
2	Mn 294.920†	847116.7	839841.6	2.192 mg/L	2.192 mg/L	01:33:45
2	Mo 202.031†	593.2	551.3	-0.0234 mg/L	-0.0234 mg/L	01:33:58
2	Ni 231.604†	4326.9	4124.9	0.0936 mg/L	0.0936 mg/L	01:33:58
2	P 214.914†	9133.7	9068.0	5.663 mg/L	5.663 mg/L	01:33:48
2	Pb 220.353†	32493.2	31981.0	2.240 mg/L	2.240 mg/L	01:33:48
2	Sb 206.836†	89.7	40.9	-0.0067 mg/L	-0.0067 mg/L	01:33:58
2	Se 196.026†	3.1	-7.9	-0.0208 mg/L	-0.0208 mg/L	01:33:58
2	Sn 189.927†	-176.4	-204.0	-0.0121 mg/L	-0.0121 mg/L	01:33:58
2	Ti 337.279†	1654096.7	1637909.4	1.917 mg/L	1.917 mg/L	01:33:45
2	Tl 190.801†	-0.8	4.0	-0.0563 mg/L	-0.0563 mg/L	01:33:58
2	V 292.402†	33855.0	33859.3	0.1545 mg/L	0.1545 mg/L	01:33:48

Mean Data: 1307090-18

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2747593.8	1.02	mg/L	0.010				
Ag 328.068†	-588.8	0.0011	mg/L	0.00001	0.0011	mg/L	0.00001	0.97%
Al 237.313†	467967.0	51.80	mg/L	0.070	51.80	mg/L	0.070	0.13%
As 188.979†	40.3	0.0335	mg/L	0.00459	0.0335	mg/L	0.00459	13.72%
B 249.677†	25.0	0.0152	mg/L	0.00707	0.0152	mg/L	0.00707	46.40%
B 182.528†	22.7	0.0243	mg/L	0.00737	0.0243	mg/L	0.00737	30.30%
Ba 233.527†	74085.3	0.6486	mg/L	0.00291	0.6486	mg/L	0.00291	0.45%
Be 313.107†	16120.0	0.0070	mg/L	0.00003	0.0070	mg/L	0.00003	0.50%
Ca 315.887†	2892145.0	31.56	mg/L	0.050	31.56	mg/L	0.050	0.16%
Cd 228.802†	194.5	0.0054	mg/L	0.00014	0.0054	mg/L	0.00014	2.65%
Co 228.616†	1274.8	0.0214	mg/L	0.00095	0.0214	mg/L	0.00095	4.43%
Cr 267.716†	15066.2	0.1347	mg/L	0.00016	0.1347	mg/L	0.00016	0.12%
Cu 324.752†	1125177.9	6.059	mg/L	0.0017	6.059	mg/L	0.0017	0.03%
Fe 234.349†	152031.9	101.3	mg/L	0.90	101.3	mg/L	0.90	0.89%
K 766.490†	9747.0	5.486	mg/L	0.1068	5.486	mg/L	0.1068	1.95%
Li 670.784†	2230.3	0.0658	mg/L	0.00101	0.0658	mg/L	0.00101	1.54%
Mg 279.077†	175268.7	14.15	mg/L	0.088	14.15	mg/L	0.088	0.62%
Mn 257.610†	1689939.7	2.153	mg/L	0.0029	2.153	mg/L	0.0029	0.13%
Mn 294.920†	840658.6	2.194	mg/L	0.0030	2.194	mg/L	0.0030	0.14%
Mo 202.031†	556.8	-0.0231	mg/L	0.00048	-0.0231	mg/L	0.00048	2.06%
Na 589.592†	7278.5	1.438	mg/L	0.0536	1.438	mg/L	0.0536	3.73%
Ni 231.604†	4108.8	0.0933	mg/L	0.00051	0.0933	mg/L	0.00051	0.54%
P 214.914†	9082.5	5.672	mg/L	0.0129	5.672	mg/L	0.0129	0.23%
Pb 220.353†	32138.8	2.251	mg/L	0.0157	2.251	mg/L	0.0157	0.70%
Sb 206.836†	38.9	-0.0075	mg/L	0.00106	-0.0075	mg/L	0.00106	14.14%
Se 196.026†	-14.1	-0.0249	mg/L	0.00589	-0.0249	mg/L	0.00589	23.64%
Sn 189.927†	-201.8	-0.0118	mg/L	0.00048	-0.0118	mg/L	0.00048	4.05%
Sr 407.771†	200777.2	0.2345	mg/L	0.00250	0.2345	mg/L	0.00250	1.06%
Ti 337.279†	1639491.0	1.919	mg/L	0.0026	1.919	mg/L	0.0026	0.14%
Tl 190.801†	6.4	-0.0536	mg/L	0.00386	-0.0536	mg/L	0.00386	7.19%
V 292.402†	33851.3	0.1545	mg/L	0.00006	0.1545	mg/L	0.00006	0.04%
Zn 213.857†	237470.9	1.737	mg/L	0.0069	1.737	mg/L	0.0069	0.40%

Sequence No.: 170
 Sample ID: CF30510-DUP2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 143
 Date Collected: 7/6/2013 1:35:35 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CF30510-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	19.6	25.9	0.0157	mg/L	0.0157	mg/L	01:37:17
1	Fe 234.349†	155989.2	153900.1	102.6	mg/L	102.6	mg/L	01:37:15
1	K 766.490†	10896.0	9932.7	5.588	mg/L	5.588	mg/L	01:37:17
1	Li 670.784†	2043.2	2251.5	0.0663	mg/L	0.0663	mg/L	01:37:17
1	Na 589.592†	8123.4	7535.2	1.484	mg/L	1.484	mg/L	01:37:17
1	Sr 407.771†	207737.2	204893.6	0.2393	mg/L	0.2393	mg/L	01:37:15
1	Y 371.029	2737578.6	2737578.6	1.01	mg/L			01:37:27
1	Ag 328.068†	1183.0	-698.0	0.0005	mg/L	0.0005	mg/L	01:37:30
1	Al 237.313†	475161.9	469249.5	51.94	mg/L	51.94	mg/L	01:37:27
1	As 188.979†	32.6	38.8	0.0324	mg/L	0.0324	mg/L	01:37:40
1	B 182.528†	16.5	25.8	0.0276	mg/L	0.0276	mg/L	01:37:40
1	Ba 233.527†	75386.6	74477.3	0.6520	mg/L	0.6520	mg/L	01:37:30
1	Be 313.107†	15370.9	16603.8	0.0072	mg/L	0.0072	mg/L	01:37:30
1	Ca 315.887†	2946033.3	2908583.2	31.74	mg/L	31.74	mg/L	01:37:27
1	Cd 228.802†	401.6	237.2	0.0067	mg/L	0.0067	mg/L	01:37:40
1	Co 228.616†	1104.6	1331.7	0.0227	mg/L	0.0227	mg/L	01:37:40
1	Cr 267.716†	16339.0	15554.7	0.1390	mg/L	0.1390	mg/L	01:37:30
1	Cu 324.752†	1171279.2	1150841.2	6.197	mg/L	6.197	mg/L	01:37:27
1	Mg 279.077†	183756.8	181300.5	14.64	mg/L	14.64	mg/L	01:37:30
1	Mn 257.610†	1711157.5	1672243.2	2.130	mg/L	2.130	mg/L	01:37:27
1	Mn 294.920†	842294.0	832382.8	2.172	mg/L	2.172	mg/L	01:37:27
1	Mo 202.031†	630.5	586.1	-0.0228	mg/L	-0.0228	mg/L	01:37:40
1	Ni 231.604†	4419.1	4202.1	0.0953	mg/L	0.0953	mg/L	01:37:30

1	P 214.914†	9262.0	9165.5	5.723 mg/L	5.723 mg/L	01:37:30
1	Pb 220.353†	34197.9	33559.3	2.351 mg/L	2.351 mg/L	01:37:30
1	Sb 206.836†	91.1	42.1	-0.0064 mg/L	-0.0064 mg/L	01:37:40
1	Se 196.026†	-14.0	-24.8	-0.0325 mg/L	-0.0325 mg/L	01:37:40
1	Sn 189.927†	-160.8	-187.9	-0.0096 mg/L	-0.0096 mg/L	01:37:40
1	Ti 337.279†	1623687.1	1602632.8	1.875 mg/L	1.875 mg/L	01:37:27
1	Tl 190.801†	2.3	7.0	-0.0537 mg/L	-0.0537 mg/L	01:37:40
1	V 292.402†	34964.7	34846.3	0.1591 mg/L	0.1591 mg/L	01:37:30
1	Zn 213.857†	257120.4	252542.7	1.848 mg/L	1.848 mg/L	01:37:30
2	B 249.677†	-2.0	4.5	0.0038 mg/L	0.0038 mg/L	01:37:22
2	Fe 234.349†	155912.6	152307.3	101.5 mg/L	101.5 mg/L	01:37:20
2	K 766.490†	10390.2	9332.6	5.260 mg/L	5.260 mg/L	01:37:22
2	Li 670.784†	1871.1	2063.5	0.0612 mg/L	0.0612 mg/L	01:37:22
2	Na 589.592†	7767.3	7108.3	1.407 mg/L	1.407 mg/L	01:37:22
2	Sr 407.771†	207802.5	202935.9	0.2370 mg/L	0.2370 mg/L	01:37:20
2	Y 371.029	2764847.7	2764847.7	1.02 mg/L	1.02 mg/L	01:37:43
2	Ag 328.068†	1322.7	-573.0	0.0012 mg/L	0.0012 mg/L	01:37:46
2	Al 237.313†	480268.8	469614.7	51.98 mg/L	51.98 mg/L	01:37:43
2	As 188.979†	32.6	38.5	0.0321 mg/L	0.0321 mg/L	01:37:56
2	B 182.528†	19.1	28.2	0.0302 mg/L	0.0302 mg/L	01:37:56
2	Ba 233.527†	74468.6	72846.9	0.6378 mg/L	0.6378 mg/L	01:37:46
2	Be 313.107†	15185.7	16273.3	0.0071 mg/L	0.0071 mg/L	01:37:46
2	Ca 315.887†	2978571.7	2911702.4	31.77 mg/L	31.77 mg/L	01:37:43
2	Cd 228.802†	400.7	232.4	0.0065 mg/L	0.0065 mg/L	01:37:56
2	Co 228.616†	1074.2	1291.2	0.0218 mg/L	0.0218 mg/L	01:37:56
2	Cr 267.716†	16105.5	15167.5	0.1356 mg/L	0.1356 mg/L	01:37:46
2	Cu 324.752†	1181011.7	1148951.3	6.187 mg/L	6.187 mg/L	01:37:43
2	Mg 279.077†	181148.0	176963.7	14.29 mg/L	14.29 mg/L	01:37:46
2	Mn 257.610†	1729567.9	1673577.3	2.132 mg/L	2.132 mg/L	01:37:43
2	Mn 294.920†	851719.2	833394.0	2.175 mg/L	2.175 mg/L	01:37:43
2	Mo 202.031†	618.4	568.2	-0.0233 mg/L	-0.0233 mg/L	01:37:56
2	Ni 231.604†	4397.7	4138.1	0.0939 mg/L	0.0939 mg/L	01:37:46
2	P 214.914†	9167.0	8982.5	5.608 mg/L	5.608 mg/L	01:37:46
2	Pb 220.353†	33659.8	32700.8	2.291 mg/L	2.291 mg/L	01:37:46
2	Sb 206.836†	87.4	37.6	-0.0082 mg/L	-0.0082 mg/L	01:37:56
2	Se 196.026†	-2.9	-13.8	-0.0247 mg/L	-0.0247 mg/L	01:37:56
2	Sn 189.927†	-175.2	-200.5	-0.0114 mg/L	-0.0114 mg/L	01:37:56
2	Ti 337.279†	1640200.9	1602965.1	1.876 mg/L	1.876 mg/L	01:37:43
2	Tl 190.801†	-8.0	-3.0	-0.0628 mg/L	-0.0628 mg/L	01:37:56
2	V 292.402†	34407.8	33962.0	0.1551 mg/L	0.1551 mg/L	01:37:46
2	Zn 213.857†	253689.5	246689.0	1.805 mg/L	1.805 mg/L	01:37:46

Mean Data: CF30510-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2751213.1	1.02	mg/L	0.007				0.70%
Ag 328.068†	-635.5	0.0008	mg/L	0.00047	0.0008	mg/L	0.00047	56.11%
Al 237.313†	469432.1	51.96	mg/L	0.029	51.96	mg/L	0.029	0.05%
As 188.979†	38.7	0.0323	mg/L	0.00016	0.0323	mg/L	0.00016	0.49%
B 249.677†	15.2	0.0098	mg/L	0.00841	0.0098	mg/L	0.00841	86.22%
B 182.528†	27.0	0.0289	mg/L	0.00183	0.0289	mg/L	0.00183	6.32%
Ba 233.527†	73662.1	0.6449	mg/L	0.01004	0.6449	mg/L	0.01004	1.56%
Be 313.107†	16438.5	0.0072	mg/L	0.00010	0.0072	mg/L	0.00010	1.44%
Ca 315.887†	2910142.8	31.75	mg/L	0.024	31.75	mg/L	0.024	0.08%
Cd 228.802†	234.8	0.0066	mg/L	0.00009	0.0066	mg/L	0.00009	1.41%
Co 228.616†	1311.4	0.0222	mg/L	0.00057	0.0222	mg/L	0.00057	2.58%
Cr 267.716†	15361.1	0.1373	mg/L	0.00239	0.1373	mg/L	0.00239	1.74%
Cu 324.752†	1149896.3	6.192	mg/L	0.0072	6.192	mg/L	0.0072	0.12%
Fe 234.349†	153103.7	102.1	mg/L	0.75	102.1	mg/L	0.75	0.74%
K 766.490†	9632.7	5.424	mg/L	0.2313	5.424	mg/L	0.2313	4.26%
Li 670.784†	2157.5	0.0638	mg/L	0.00365	0.0638	mg/L	0.00365	5.73%
Mg 279.077†	179132.1	14.46	mg/L	0.247	14.46	mg/L	0.247	1.71%
Mn 257.610†	1672910.2	2.131	mg/L	0.0014	2.131	mg/L	0.0014	0.06%
Mn 294.920†	832888.4	2.174	mg/L	0.0019	2.174	mg/L	0.0019	0.09%
Mo 202.031†	577.2	-0.0231	mg/L	0.00039	-0.0231	mg/L	0.00039	1.67%
Na 589.592†	7321.7	1.445	mg/L	0.0549	1.445	mg/L	0.0549	3.80%
Ni 231.604†	4170.1	0.0946	mg/L	0.00101	0.0946	mg/L	0.00101	1.07%
P 214.914†	9074.0	5.666	mg/L	0.0809	5.666	mg/L	0.0809	1.43%
Pb 220.353†	33130.1	2.321	mg/L	0.0428	2.321	mg/L	0.0428	1.84%
Sb 206.836†	39.8	-0.0073	mg/L	0.00126	-0.0073	mg/L	0.00126	17.40%
Se 196.026†	-19.3	-0.0286	mg/L	0.00547	-0.0286	mg/L	0.00547	19.12%
Sn 189.927†	-194.2	-0.0105	mg/L	0.00130	-0.0105	mg/L	0.00130	12.35%

Sr 407.771†	203914.8	0.2381 mg/L	0.00161	0.2381 mg/L	0.00161	0.68%
Ti 337.279†	1602799.0	1.876 mg/L	0.0003	1.876 mg/L	0.0003	0.01%
Tl 190.801†	2.0	-0.0583 mg/L	0.00644	-0.0583 mg/L	0.00644	11.05%
V 292.402†	34404.1	0.1571 mg/L	0.00284	0.1571 mg/L	0.00284	1.81%
Zn 213.857†	249615.9	1.826 mg/L	0.0304	1.826 mg/L	0.0304	1.67%

Sequence No.: 171
Sample ID: CF30510-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 144
Date Collected: 7/6/2013 1:39:34 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	655.8	662.1	0.3703 mg/L	0.3703 mg/L	0.3703 mg/L	01:41:16
1	Fe 234.349†	162342.9	162289.4	108.2 mg/L	108.2 mg/L	108.2 mg/L	01:41:13
1	K 766.490†	44681.3	43850.6	24.07 mg/L	24.07 mg/L	24.07 mg/L	01:41:13
1	Li 670.784†	16505.1	16736.0	0.4645 mg/L	0.4645 mg/L	0.4645 mg/L	01:41:16
1	Na 589.592†	115928.0	115414.9	21.11 mg/L	21.11 mg/L	21.11 mg/L	01:41:13
1	Sr 407.771†	244581.9	244441.0	0.2854 mg/L	0.2854 mg/L	0.2854 mg/L	01:41:13
1	Y 371.029	2701812.3	2701812.3	1.00 mg/L	1.00 mg/L	1.00 mg/L	01:41:26
1	Ag 328.068†	33518.0	31643.2	0.1799 mg/L	0.1799 mg/L	0.1799 mg/L	01:41:28
1	Al 237.313†	495208.1	495496.1	54.85 mg/L	54.85 mg/L	54.85 mg/L	01:41:26
1	As 188.979†	521.1	527.6	0.3876 mg/L	0.3876 mg/L	0.3876 mg/L	01:41:38
1	B 182.528†	335.6	345.1	0.3703 mg/L	0.3703 mg/L	0.3703 mg/L	01:41:38
1	Ba 233.527†	118144.0	118207.0	1.033 mg/L	1.033 mg/L	1.033 mg/L	01:41:28
1	Be 313.107†	101523.9	102932.8	0.0452 mg/L	0.0452 mg/L	0.0452 mg/L	01:41:28
1	Ca 315.887†	3297190.4	3298118.0	35.98 mg/L	35.98 mg/L	35.98 mg/L	01:41:26
1	Cd 228.802†	6169.4	6008.6	0.1868 mg/L	0.1868 mg/L	0.1868 mg/L	01:41:38
1	Co 228.616†	19505.7	19741.8	0.3910 mg/L	0.3910 mg/L	0.3910 mg/L	01:41:38
1	Cr 267.716†	59656.0	59072.6	0.5186 mg/L	0.5186 mg/L	0.5186 mg/L	01:41:28
1	Cu 324.752†	1252066.0	1246903.1	6.714 mg/L	6.714 mg/L	6.714 mg/L	01:41:26
1	Mg 279.077†	225825.6	225757.2	18.22 mg/L	18.22 mg/L	18.22 mg/L	01:41:28
1	Mn 257.610†	1990896.2	1974251.3	2.517 mg/L	2.517 mg/L	2.517 mg/L	01:41:26
1	Mn 294.920†	978747.2	979798.1	2.557 mg/L	2.557 mg/L	2.557 mg/L	01:41:26
1	Mo 202.031†	9082.2	9043.7	0.3328 mg/L	0.3328 mg/L	0.3328 mg/L	01:41:38
1	Ni 231.604†	21095.6	20931.5	0.4688 mg/L	0.4688 mg/L	0.4688 mg/L	01:41:28
1	P 214.914†	14633.6	14656.4	9.154 mg/L	9.154 mg/L	9.154 mg/L	01:41:38
1	Pb 220.353†	40175.7	39982.0	2.805 mg/L	2.805 mg/L	2.805 mg/L	01:41:28
1	Sb 206.836†	488.1	440.1	0.1784 mg/L	0.1784 mg/L	0.1784 mg/L	01:41:38
1	Se 196.026†	1045.1	1033.9	0.6920 mg/L	0.6920 mg/L	0.6920 mg/L	01:41:38
1	Sn 189.927†	2311.2	2281.2	0.3585 mg/L	0.3585 mg/L	0.3585 mg/L	01:41:38
1	Ti 337.279†	1684208.8	1684344.3	1.971 mg/L	1.971 mg/L	1.971 mg/L	01:41:26
1	Tl 190.801†	370.3	375.0	0.2989 mg/L	0.2989 mg/L	0.2989 mg/L	01:41:38
1	V 292.402†	118069.8	118384.1	0.5452 mg/L	0.5452 mg/L	0.5452 mg/L	01:41:28
1	Zn 213.857†	289501.4	288272.7	2.107 mg/L	2.107 mg/L	2.107 mg/L	01:41:28
2	B 249.677†	648.8	628.0	0.3513 mg/L	0.3513 mg/L	0.3513 mg/L	01:41:20
2	Fe 234.349†	163189.2	156313.0	104.2 mg/L	104.2 mg/L	104.2 mg/L	01:41:18
2	K 766.490†	44801.2	42097.5	23.12 mg/L	23.12 mg/L	23.12 mg/L	01:41:18
2	Li 670.784†	16402.5	15947.6	0.4428 mg/L	0.4428 mg/L	0.4428 mg/L	01:41:20
2	Na 589.592†	116201.3	110830.1	20.28 mg/L	20.28 mg/L	20.28 mg/L	01:41:18
2	Sr 407.771†	245577.9	235169.7	0.2746 mg/L	0.2746 mg/L	0.2746 mg/L	01:41:18
2	Y 371.029	2819731.5	2819731.5	1.04 mg/L	1.04 mg/L	1.04 mg/L	01:41:42
2	Ag 328.068†	32632.4	29393.6	0.1674 mg/L	0.1674 mg/L	0.1674 mg/L	01:41:44
2	Al 237.313†	491824.3	471551.4	52.20 mg/L	52.20 mg/L	52.20 mg/L	01:41:42
2	As 188.979†	535.0	519.2	0.3815 mg/L	0.3815 mg/L	0.3815 mg/L	01:41:54
2	B 182.528†	337.2	332.6	0.3569 mg/L	0.3569 mg/L	0.3569 mg/L	01:41:54
2	Ba 233.527†	114726.1	109993.7	0.9614 mg/L	0.9614 mg/L	0.9614 mg/L	01:41:44
2	Be 313.107†	98153.3	95459.5	0.0420 mg/L	0.0420 mg/L	0.0420 mg/L	01:41:44
2	Ca 315.887†	3270993.9	3135177.7	34.21 mg/L	34.21 mg/L	34.21 mg/L	01:41:42
2	Cd 228.802†	6223.9	5802.9	0.1804 mg/L	0.1804 mg/L	0.1804 mg/L	01:41:54
2	Co 228.616†	19680.7	19094.0	0.3782 mg/L	0.3782 mg/L	0.3782 mg/L	01:41:54
2	Cr 267.716†	57774.2	54776.0	0.4811 mg/L	0.4811 mg/L	0.4811 mg/L	01:41:44
2	Cu 324.752†	1245180.7	1187962.3	6.397 mg/L	6.397 mg/L	6.397 mg/L	01:41:42
2	Mg 279.077†	218268.8	209077.4	16.88 mg/L	16.88 mg/L	16.88 mg/L	01:41:44
2	Mn 257.610†	1978707.9	1879342.1	2.396 mg/L	2.396 mg/L	2.396 mg/L	01:41:42
2	Mn 294.920†	972425.2	932823.4	2.434 mg/L	2.434 mg/L	2.434 mg/L	01:41:42
2	Mo 202.031†	9124.7	8704.7	0.3208 mg/L	0.3208 mg/L	0.3208 mg/L	01:41:54
2	Ni 231.604†	20518.0	19496.3	0.4368 mg/L	0.4368 mg/L	0.4368 mg/L	01:41:44
2	P 214.914†	14757.5	14163.3	8.849 mg/L	8.849 mg/L	8.849 mg/L	01:41:54

2	Pb 220.353†	38592.9	36786.2	2.580 mg/L	2.580 mg/L	01:41:44
2	Sb 206.836†	489.7	421.2	0.1709 mg/L	0.1709 mg/L	01:41:54
2	Se 196.026†	1052.8	997.5	0.6679 mg/L	0.6679 mg/L	01:41:54
2	Sn 189.927†	2331.1	2203.6	0.3459 mg/L	0.3459 mg/L	01:41:54
2	Ti 337.279†	1672888.9	1603088.8	1.876 mg/L	1.876 mg/L	01:41:42
2	Tl 190.801†	380.7	369.4	0.2961 mg/L	0.2961 mg/L	01:41:54
2	V 292.402†	114430.4	109961.8	0.5068 mg/L	0.5068 mg/L	01:41:44
2	Zn 213.857†	280609.4	267651.8	1.956 mg/L	1.956 mg/L	01:41:44

Mean Data: CF30510-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2760771.9	1.02	mg/L	0.031				3.02%
Ag 328.068†	30518.4	0.1737	mg/L	0.00889	0.1737	mg/L	0.00889	5.12%
Al 237.313†	483523.8	53.53	mg/L	1.874	53.53	mg/L	1.874	3.50%
As 188.979†	523.4	0.3845	mg/L	0.00429	0.3845	mg/L	0.00429	1.12%
B 249.677†	645.1	0.3608	mg/L	0.01344	0.3608	mg/L	0.01344	3.72%
B 182.528†	338.8	0.3636	mg/L	0.00950	0.3636	mg/L	0.00950	2.61%
Ba 233.527†	114100.4	0.9972	mg/L	0.05060	0.9972	mg/L	0.05060	5.07%
Be 313.107†	99196.1	0.0436	mg/L	0.00231	0.0436	mg/L	0.00231	5.30%
Ca 315.887†	3216647.9	35.09	mg/L	1.256	35.09	mg/L	1.256	3.58%
Cd 228.802†	5905.7	0.1836	mg/L	0.00449	0.1836	mg/L	0.00449	2.45%
Co 228.616†	19417.9	0.3846	mg/L	0.00903	0.3846	mg/L	0.00903	2.35%
Cr 267.716†	56924.3	0.4999	mg/L	0.02649	0.4999	mg/L	0.02649	5.30%
Cu 324.752†	1217432.7	6.555	mg/L	0.2243	6.555	mg/L	0.2243	3.42%
Fe 234.349†	159301.2	106.2	mg/L	2.82	106.2	mg/L	2.82	2.65%
K 766.490†	42974.0	23.59	mg/L	0.676	23.59	mg/L	0.676	2.86%
Li 670.784†	16341.8	0.4536	mg/L	0.01532	0.4536	mg/L	0.01532	3.38%
Mg 279.077†	217417.3	17.55	mg/L	0.951	17.55	mg/L	0.951	5.42%
Mn 257.610†	1926796.7	2.457	mg/L	0.0857	2.457	mg/L	0.0857	3.49%
Mn 294.920†	956310.8	2.495	mg/L	0.0866	2.495	mg/L	0.0866	3.47%
Mo 202.031†	8874.2	0.3268	mg/L	0.00850	0.3268	mg/L	0.00850	2.60%
Na 589.592†	113122.5	20.70	mg/L	0.590	20.70	mg/L	0.590	2.85%
Ni 231.604†	20213.9	0.4528	mg/L	0.02264	0.4528	mg/L	0.02264	5.00%
P 214.914†	14409.9	9.001	mg/L	0.2160	9.001	mg/L	0.2160	2.40%
Pb 220.353†	38384.1	2.692	mg/L	0.1588	2.692	mg/L	0.1588	5.90%
Sb 206.836†	430.7	0.1747	mg/L	0.00532	0.1747	mg/L	0.00532	3.05%
Se 196.026†	1015.7	0.6800	mg/L	0.01708	0.6800	mg/L	0.01708	2.51%
Sn 189.927†	2242.4	0.3522	mg/L	0.00890	0.3522	mg/L	0.00890	2.53%
Sr 407.771†	239805.4	0.2800	mg/L	0.00764	0.2800	mg/L	0.00764	2.73%
Ti 337.279†	1643716.6	1.923	mg/L	0.0671	1.923	mg/L	0.0671	3.49%
Tl 190.801†	372.2	0.2975	mg/L	0.00200	0.2975	mg/L	0.00200	0.67%
V 292.402†	114172.9	0.5260	mg/L	0.02714	0.5260	mg/L	0.02714	5.16%
Zn 213.857†	277962.2	2.032	mg/L	0.1067	2.032	mg/L	0.1067	5.25%

Sequence No.: 172
Sample ID: CF30510-SD2 @5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 145
Date Collected: 7/6/2013 1:43:33 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	8.5	15.0	0.0096	mg/L	0.0096	mg/L	01:45:23
1	Fe 234.349†	57241.7	57115.7	38.08	mg/L	38.08	mg/L	01:45:13
1	K 766.490†	4434.2	3607.1	2.140	mg/L	2.140	mg/L	01:45:13
1	Li 670.784†	372.4	607.2	0.0211	mg/L	0.0211	mg/L	01:45:13
1	Na 589.592†	3128.8	2642.6	0.5940	mg/L	0.5940	mg/L	01:45:13
1	Sr 407.771†	75327.7	75100.1	0.0879	mg/L	0.0879	mg/L	01:45:13
1	Y 371.029	2706676.7	2706676.7	1.00	mg/L			01:45:40
1	Ag 328.068†	1603.6	-264.9	0.0013	mg/L	0.0013	mg/L	01:45:42
1	Al 237.313†	164464.7	164552.3	18.22	mg/L	18.22	mg/L	01:45:42
1	As 188.979†	13.5	20.1	0.0189	mg/L	0.0189	mg/L	01:45:52
1	B 182.528†	5.8	15.3	0.0164	mg/L	0.0164	mg/L	01:45:52
1	Ba 233.527†	25691.6	25735.1	0.2273	mg/L	0.2273	mg/L	01:45:42
1	Be 313.107†	4407.4	5836.2	0.0028	mg/L	0.0028	mg/L	01:45:42
1	Ca 315.887†	1011029.4	1010797.8	11.05	mg/L	11.05	mg/L	01:45:40
1	Cd 228.802†	237.8	78.3	0.0028	mg/L	0.0028	mg/L	01:45:52
1	Co 228.616†	222.9	464.2	0.0079	mg/L	0.0079	mg/L	01:45:52

1	Cr 267.716†	5859.4	5281.0	0.0494 mg/L	0.0494 mg/L	01:45:42
1	Cu 324.752†	392454.9	386834.1	2.086 mg/L	2.086 mg/L	01:45:40
1	Mg 279.077†	61487.0	61355.4	4.971 mg/L	4.971 mg/L	01:45:42
1	Mn 257.610†	619460.5	602096.9	0.7677 mg/L	0.7677 mg/L	01:45:40
1	Mn 294.920†	297521.3	298233.6	0.7793 mg/L	0.7793 mg/L	01:45:42
1	Mo 202.031†	244.7	208.2	-0.0061 mg/L	-0.0061 mg/L	01:45:52
1	Ni 231.604†	1641.6	1480.1	0.0346 mg/L	0.0346 mg/L	01:45:52
1	P 214.914†	3165.2	3185.7	2.020 mg/L	2.020 mg/L	01:45:52
1	Pb 220.353†	11553.6	11347.4	0.7948 mg/L	0.7948 mg/L	01:45:42
1	Sb 206.836†	76.7	28.7	0.0064 mg/L	0.0064 mg/L	01:45:52
1	Se 196.026†	16.0	5.0	0.0009 mg/L	0.0009 mg/L	01:45:52
1	Sn 189.927†	-66.2	-95.4	-0.0087 mg/L	-0.0087 mg/L	01:45:52
1	Ti 337.279†	577733.1	577148.8	0.6785 mg/L	0.6785 mg/L	01:45:40
1	Tl 190.801†	-3.8	1.0	-0.0208 mg/L	-0.0208 mg/L	01:45:52
1	V 292.402†	11507.8	11832.1	0.0570 mg/L	0.0570 mg/L	01:45:42
1	Zn 213.857†	86243.3	84918.1	0.6229 mg/L	0.6229 mg/L	01:45:42
2	B 249.677†	-8.5	-2.0	0.0002 mg/L	0.0002 mg/L	01:45:35
2	Fe 234.349†	55246.5	55012.4	36.68 mg/L	36.68 mg/L	01:45:25
2	K 766.490†	4284.9	3449.4	2.054 mg/L	2.054 mg/L	01:45:25
2	Li 670.784†	449.0	682.8	0.0232 mg/L	0.0232 mg/L	01:45:25
2	Na 589.592†	3100.6	2608.1	0.5878 mg/L	0.5878 mg/L	01:45:25
2	Sr 407.771†	72870.7	72500.4	0.0849 mg/L	0.0849 mg/L	01:45:25
2	Y 371.029	2712193.0	2712193.0	1.00 mg/L		01:45:55
2	Ag 328.068†	1597.9	-273.8	0.0012 mg/L	0.0012 mg/L	01:45:57
2	Al 237.313†	160227.0	159998.3	17.72 mg/L	17.72 mg/L	01:45:57
2	As 188.979†	5.1	11.7	0.0128 mg/L	0.0128 mg/L	01:46:08
2	B 182.528†	-2.2	7.3	0.0078 mg/L	0.0078 mg/L	01:46:08
2	Ba 233.527†	24965.1	24959.4	0.2206 mg/L	0.2206 mg/L	01:45:57
2	Be 313.107†	4192.4	5613.2	0.0027 mg/L	0.0027 mg/L	01:45:57
2	Ca 315.887†	972289.1	970164.8	10.61 mg/L	10.61 mg/L	01:45:55
2	Cd 228.802†	229.4	69.4	0.0026 mg/L	0.0026 mg/L	01:46:08
2	Co 228.616†	183.8	424.8	0.0071 mg/L	0.0071 mg/L	01:46:08
2	Cr 267.716†	5811.3	5221.2	0.0489 mg/L	0.0489 mg/L	01:45:57
2	Cu 324.752†	377070.3	370716.2	1.999 mg/L	1.999 mg/L	01:45:55
2	Mg 279.077†	59636.5	59387.7	4.812 mg/L	4.812 mg/L	01:45:57
2	Mn 257.610†	596871.0	578343.0	0.7375 mg/L	0.7375 mg/L	01:45:55
2	Mn 294.920†	289501.6	289642.9	0.7569 mg/L	0.7569 mg/L	01:45:57
2	Mo 202.031†	226.2	189.3	-0.0062 mg/L	-0.0062 mg/L	01:46:08
2	Ni 231.604†	1520.9	1356.6	0.0319 mg/L	0.0319 mg/L	01:46:08
2	P 214.914†	2991.8	3006.6	1.909 mg/L	1.909 mg/L	01:46:08
2	Pb 220.353†	11127.3	10899.4	0.7634 mg/L	0.7634 mg/L	01:45:57
2	Sb 206.836†	61.0	12.9	-0.0005 mg/L	-0.0005 mg/L	01:46:08
2	Se 196.026†	5.9	-5.0	-0.0058 mg/L	-0.0058 mg/L	01:46:08
2	Sn 189.927†	-80.2	-109.2	-0.0110 mg/L	-0.0110 mg/L	01:46:08
2	Ti 337.279†	556388.3	554719.2	0.6524 mg/L	0.6524 mg/L	01:45:55
2	Tl 190.801†	-10.1	-5.2	-0.0260 mg/L	-0.0260 mg/L	01:46:08
2	V 292.402†	11129.4	11431.8	0.0552 mg/L	0.0552 mg/L	01:45:57
2	Zn 213.857†	83607.9	82118.5	0.6025 mg/L	0.6025 mg/L	01:45:57

Mean Data: CF30510-SD2 @5

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2709434.8	1.00 mg/L	0.001			0.14%
Ag 328.068†	-269.3	0.0012 mg/L	0.00006	0.0012 mg/L	0.00006	4.88%
Al 237.313†	162275.3	17.97 mg/L	0.356	17.97 mg/L	0.356	1.98%
As 188.979†	15.9	0.0159 mg/L	0.00432	0.0159 mg/L	0.00432	27.21%
B 249.677†	6.5	0.0049 mg/L	0.00669	0.0049 mg/L	0.00669	136.36%
B 182.528†	11.3	0.0121 mg/L	0.00608	0.0121 mg/L	0.00608	50.42%
Ba 233.527†	25347.3	0.2240 mg/L	0.00478	0.2240 mg/L	0.00478	2.13%
Be 313.107†	5724.7	0.0027 mg/L	0.00006	0.0027 mg/L	0.00006	2.37%
Ca 315.887†	990481.3	10.83 mg/L	0.313	10.83 mg/L	0.313	2.89%
Cd 228.802†	73.9	0.0027 mg/L	0.00018	0.0027 mg/L	0.00018	6.71%
Co 228.616†	444.5	0.0075 mg/L	0.00052	0.0075 mg/L	0.00052	6.91%
Cr 267.716†	5251.1	0.0492 mg/L	0.00037	0.0492 mg/L	0.00037	0.75%
Cu 324.752†	378775.2	2.043 mg/L	0.0613	2.043 mg/L	0.0613	3.00%
Fe 234.349†	56064.0	37.38 mg/L	0.991	37.38 mg/L	0.991	2.65%
K 766.490†	3528.2	2.097 mg/L	0.0608	2.097 mg/L	0.0608	2.90%
Li 670.784†	645.0	0.0222 mg/L	0.00147	0.0222 mg/L	0.00147	6.62%
Mg 279.077†	60371.6	4.891 mg/L	0.1122	4.891 mg/L	0.1122	2.29%
Mn 257.610†	590220.0	0.7526 mg/L	0.02139	0.7526 mg/L	0.02139	2.84%
Mn 294.920†	293938.2	0.7681 mg/L	0.01584	0.7681 mg/L	0.01584	2.06%
Mo 202.031†	198.8	-0.0061 mg/L	0.00008	-0.0061 mg/L	0.00008	1.24%

Na 589.592†	2625.3	0.5909 mg/L	0.00443	0.5909 mg/L	0.00443	0.75%
Ni 231.604†	1418.4	0.0333 mg/L	0.00195	0.0333 mg/L	0.00195	5.85%
P 214.914†	3096.2	1.965 mg/L	0.0787	1.965 mg/L	0.0787	4.00%
Pb 220.353†	11123.4	0.7791 mg/L	0.02222	0.7791 mg/L	0.02222	2.85%
Sb 206.836†	20.8	0.0029 mg/L	0.00492	0.0029 mg/L	0.00492	167.45%
Se 196.026†	-0.0	-0.0024 mg/L	0.00468	-0.0024 mg/L	0.00468	191.25%
Sn 189.927†	-102.3	-0.0099 mg/L	0.00164	-0.0099 mg/L	0.00164	16.64%
Sr 407.771†	73800.0	0.0864 mg/L	0.00214	0.0864 mg/L	0.00214	2.48%
Ti 337.279†	565934.0	0.6655 mg/L	0.01851	0.6655 mg/L	0.01851	2.78%
Tl 190.801†	-2.1	-0.0234 mg/L	0.00368	-0.0234 mg/L	0.00368	15.75%
V 292.402†	11632.0	0.0561 mg/L	0.00125	0.0561 mg/L	0.00125	2.23%
Zn 213.857†	83518.3	0.6127 mg/L	0.01443	0.6127 mg/L	0.01443	2.36%

Sequence No.: 173
Sample ID: CF30510-PDS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 146
Date Collected: 7/6/2013 1:47:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30510-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	843.0	824.8	0.4610	mg/L	0.4610	mg/L	01:49:28
1	Fe 234.349†	162221.6	157473.9	105.0	mg/L	105.0	mg/L	01:49:26
1	K 766.490†	55096.0	52667.9	28.88	mg/L	28.88	mg/L	01:49:26
1	Li 670.784†	19783.6	19441.0	0.5388	mg/L	0.5388	mg/L	01:49:28
1	Na 589.592†	141095.4	136492.2	24.95	mg/L	24.95	mg/L	01:49:26
1	Sr 407.771†	252269.0	244825.9	0.2858	mg/L	0.2858	mg/L	01:49:26
1	Y 371.029	2782349.7	2782349.7	1.03	mg/L			01:49:38
1	Ag 328.068†	42648.0	39536.4	0.2236	mg/L	0.2236	mg/L	01:49:40
1	Al 237.313†	518250.6	503535.1	55.74	mg/L	55.74	mg/L	01:49:38
1	As 188.979†	662.7	650.0	0.4765	mg/L	0.4765	mg/L	01:49:50
1	B 182.528†	455.4	451.6	0.4847	mg/L	0.4847	mg/L	01:49:50
1	Ba 233.527†	131964.8	128205.1	1.120	mg/L	1.120	mg/L	01:49:40
1	Be 313.107†	123181.2	121019.2	0.0531	mg/L	0.0531	mg/L	01:49:40
1	Ca 315.887†	3491371.6	3391211.8	37.00	mg/L	37.00	mg/L	01:49:38
1	Cd 228.802†	7672.9	7289.6	0.2269	mg/L	0.2269	mg/L	01:49:50
1	Co 228.616†	24399.2	23927.9	0.4738	mg/L	0.4738	mg/L	01:49:50
1	Cr 267.716†	70758.9	68124.7	0.5976	mg/L	0.5976	mg/L	01:49:40
1	Cu 324.752†	1297406.9	1254687.2	6.756	mg/L	6.756	mg/L	01:49:38
1	Mg 279.077†	239915.6	232900.6	18.80	mg/L	18.80	mg/L	01:49:40
1	Mn 257.610†	2147379.2	2068549.5	2.639	mg/L	2.639	mg/L	01:49:38
1	Mn 294.920†	1056597.8	1027051.0	2.680	mg/L	2.680	mg/L	01:49:38
1	Mo 202.031†	11758.6	11379.0	0.4323	mg/L	0.4323	mg/L	01:49:50
1	Ni 231.604†	25280.3	24383.4	0.5459	mg/L	0.5459	mg/L	01:49:40
1	P 214.914†	16683.6	16223.1	10.13	mg/L	10.13	mg/L	01:49:50
1	Pb 220.353†	40479.7	39114.5	2.744	mg/L	2.744	mg/L	01:49:40
1	Sb 206.836†	1081.2	1001.8	0.4422	mg/L	0.4422	mg/L	01:49:50
1	Se 196.026†	1326.6	1277.0	0.8592	mg/L	0.8592	mg/L	01:49:50
1	Sn 189.927†	2994.6	2877.8	0.4474	mg/L	0.4474	mg/L	01:49:50
1	Ti 337.279†	2125411.6	2063916.2	2.414	mg/L	2.414	mg/L	01:49:38
1	Tl 190.801†	467.7	458.8	0.3821	mg/L	0.3821	mg/L	01:49:50
1	V 292.402†	139636.0	135903.4	0.6256	mg/L	0.6256	mg/L	01:49:40
1	Zn 213.857†	312051.2	301786.1	2.206	mg/L	2.206	mg/L	01:49:40
2	B 249.677†	884.1	877.5	0.4903	mg/L	0.4903	mg/L	01:49:32
2	Fe 234.349†	160096.8	157730.6	105.1	mg/L	105.1	mg/L	01:49:30
2	K 766.490†	54566.4	52944.3	29.03	mg/L	29.03	mg/L	01:49:30
2	Li 670.784†	20048.7	19988.8	0.5539	mg/L	0.5539	mg/L	01:49:32
2	Na 589.592†	139715.0	137176.3	25.07	mg/L	25.07	mg/L	01:49:30
2	Sr 407.771†	249139.5	245397.3	0.2865	mg/L	0.2865	mg/L	01:49:30
2	Y 371.029	2741436.8	2741436.8	1.01	mg/L			01:49:54
2	Ag 328.068†	42259.9	39771.9	0.2249	mg/L	0.2249	mg/L	01:49:56
2	Al 237.313†	510160.3	503072.4	55.69	mg/L	55.69	mg/L	01:49:54
2	As 188.979†	656.6	653.6	0.4791	mg/L	0.4791	mg/L	01:50:07
2	B 182.528†	450.1	453.0	0.4861	mg/L	0.4861	mg/L	01:50:07
2	Ba 233.527†	130563.2	128736.1	1.125	mg/L	1.125	mg/L	01:49:56
2	Be 313.107†	121503.7	121151.1	0.0531	mg/L	0.0531	mg/L	01:49:56
2	Ca 315.887†	3436898.2	3388123.3	36.96	mg/L	36.96	mg/L	01:49:54
2	Cd 228.802†	7626.5	7355.1	0.2289	mg/L	0.2289	mg/L	01:50:07
2	Co 228.616†	24214.8	24099.7	0.4773	mg/L	0.4773	mg/L	01:50:07
2	Cr 267.716†	69961.5	68364.2	0.5997	mg/L	0.5997	mg/L	01:49:56

2	Cu	324.752†	1279667.8	1256006.1	6.763 mg/L	6.763 mg/L	01:49:54
2	Mg	279.077†	237168.1	233669.4	18.86 mg/L	18.86 mg/L	01:49:56
2	Mn	257.610†	2113104.7	2065890.8	2.636 mg/L	2.636 mg/L	01:49:54
2	Mn	294.920†	1039189.1	1025206.6	2.675 mg/L	2.675 mg/L	01:49:54
2	Mo	202.031†	11711.0	11502.5	0.4375 mg/L	0.4375 mg/L	01:50:07
2	Ni	231.604†	25033.0	24506.1	0.5486 mg/L	0.5486 mg/L	01:49:56
2	P	214.914†	16526.0	16309.6	10.19 mg/L	10.19 mg/L	01:50:07
2	Pb	220.353†	39779.6	39011.3	2.736 mg/L	2.736 mg/L	01:49:56
2	Sb	206.836†	1079.0	1015.3	0.4485 mg/L	0.4485 mg/L	01:50:07
2	Se	196.026†	1322.0	1291.6	0.8692 mg/L	0.8692 mg/L	01:50:07
2	Sn	189.927†	2950.6	2877.8	0.4474 mg/L	0.4474 mg/L	01:50:07
2	Ti	337.279†	2092899.4	2062675.6	2.412 mg/L	2.412 mg/L	01:49:54
2	Tl	190.801†	478.2	475.9	0.3986 mg/L	0.3986 mg/L	01:50:07
2	V	292.402†	138066.9	136380.5	0.6279 mg/L	0.6279 mg/L	01:49:56
2	Zn	213.857†	308309.1	302620.0	2.212 mg/L	2.212 mg/L	01:49:56

Mean Data: CF30510-PDS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2761893.3	1.02	mg/L	0.011				1.05%
Ag 328.068†	39654.2	0.2243	mg/L	0.00093	0.2243	mg/L	0.00093	0.41%
Al 237.313†	503303.7	55.71	mg/L	0.036	55.71	mg/L	0.036	0.06%
As 188.979†	651.8	0.4778	mg/L	0.00185	0.4778	mg/L	0.00185	0.39%
B 249.677†	851.2	0.4757	mg/L	0.02075	0.4757	mg/L	0.02075	4.36%
B 182.528†	452.3	0.4854	mg/L	0.00104	0.4854	mg/L	0.00104	0.22%
Ba 233.527†	128470.6	1.122	mg/L	0.0033	1.122	mg/L	0.0033	0.29%
Be 313.107†	121085.1	0.0531	mg/L	0.00004	0.0531	mg/L	0.00004	0.08%
Ca 315.887†	3389667.5	36.98	mg/L	0.024	36.98	mg/L	0.024	0.06%
Cd 228.802†	7322.3	0.2279	mg/L	0.00144	0.2279	mg/L	0.00144	0.63%
Co 228.616†	24013.8	0.4756	mg/L	0.00243	0.4756	mg/L	0.00243	0.51%
Cr 267.716†	68244.4	0.5986	mg/L	0.00148	0.5986	mg/L	0.00148	0.25%
Cu 324.752†	1255346.7	6.760	mg/L	0.0050	6.760	mg/L	0.0050	0.07%
Fe 234.349†	157602.3	105.0	mg/L	0.12	105.0	mg/L	0.12	0.12%
K 766.490†	52806.1	28.95	mg/L	0.107	28.95	mg/L	0.107	0.37%
Li 670.784†	19714.9	0.5463	mg/L	0.01065	0.5463	mg/L	0.01065	1.95%
Mg 279.077†	233285.0	18.83	mg/L	0.044	18.83	mg/L	0.044	0.23%
Mn 257.610†	2067220.1	2.638	mg/L	0.0024	2.638	mg/L	0.0024	0.09%
Mn 294.920†	1026128.8	2.678	mg/L	0.0034	2.678	mg/L	0.0034	0.13%
Mo 202.031†	11440.8	0.4349	mg/L	0.00366	0.4349	mg/L	0.00366	0.84%
Na 589.592†	136834.2	25.01	mg/L	0.088	25.01	mg/L	0.088	0.35%
Ni 231.604†	24444.7	0.5473	mg/L	0.00194	0.5473	mg/L	0.00194	0.35%
P 214.914†	16266.3	10.16	mg/L	0.038	10.16	mg/L	0.038	0.38%
Pb 220.353†	39062.9	2.740	mg/L	0.0051	2.740	mg/L	0.0051	0.19%
Sb 206.836†	1008.5	0.4454	mg/L	0.00446	0.4454	mg/L	0.00446	1.00%
Se 196.026†	1284.3	0.8642	mg/L	0.00706	0.8642	mg/L	0.00706	0.82%
Sn 189.927†	2877.8	0.4474	mg/L	0.00001	0.4474	mg/L	0.00001	0.00%
Sr 407.771†	245111.6	0.2862	mg/L	0.00047	0.2862	mg/L	0.00047	0.16%
Ti 337.279†	2063295.9	2.413	mg/L	0.0010	2.413	mg/L	0.0010	0.04%
Tl 190.801†	467.4	0.3903	mg/L	0.01165	0.3903	mg/L	0.01165	2.98%
V 292.402†	136142.0	0.6268	mg/L	0.00159	0.6268	mg/L	0.00159	0.25%
Zn 213.857†	302203.0	2.209	mg/L	0.0043	2.209	mg/L	0.0043	0.20%

Sequence No.: 174

Sample ID: 1307090-19

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 147

Date Collected: 7/6/2013 1:51:42 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307090-19

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	11.3	17.3	0.0109	mg/L	0.0109	mg/L	01:53:24
1	Fe 234.349†	182502.0	174411.0	116.3	mg/L	116.3	mg/L	01:53:22
1	K 766.490†	10167.6	8899.4	5.024	mg/L	5.024	mg/L	01:53:24
1	Li 670.784†	2691.6	2808.0	0.0816	mg/L	0.0816	mg/L	01:53:24
1	Na 589.592†	8893.8	8020.1	1.572	mg/L	1.572	mg/L	01:53:24
1	Sr 407.771†	182910.4	174737.5	0.2041	mg/L	0.2041	mg/L	01:53:22
1	Y 371.029	2826227.5	2826227.5	1.05	mg/L			01:53:34
1	Ag 328.068†	1095.8	-817.9	0.0002	mg/L	0.0002	mg/L	01:53:36
1	Al 237.313†	647949.7	619678.2	68.59	mg/L	68.59	mg/L	01:53:34

1	As	188.979†	56.5	60.6	0.0481	mg/L	0.0481	mg/L	01:53:46
1	B	182.528†	17.0	25.8	0.0276	mg/L	0.0276	mg/L	01:53:46
1	Ba	233.527†	57057.2	54626.8	0.4791	mg/L	0.4791	mg/L	01:53:36
1	Be	313.107†	27166.5	27401.2	0.0118	mg/L	0.0118	mg/L	01:53:36
1	Ca	315.887†	2711520.6	2593285.3	28.30	mg/L	28.30	mg/L	01:53:34
1	Cd	228.802†	349.6	175.0	0.0045	mg/L	0.0045	mg/L	01:53:46
1	Co	228.616†	1858.5	2018.0	0.0349	mg/L	0.0349	mg/L	01:53:46
1	Cr	267.716†	18517.6	17131.1	0.1527	mg/L	0.1527	mg/L	01:53:36
1	Cu	324.752†	1275498.1	1214195.2	6.539	mg/L	6.539	mg/L	01:53:34
1	Mg	279.077†	236033.1	225574.2	18.21	mg/L	18.21	mg/L	01:53:36
1	Mn	257.610†	2166531.2	2054488.9	2.619	mg/L	2.619	mg/L	01:53:34
1	Mn	294.920†	1069869.7	1023810.6	2.671	mg/L	2.671	mg/L	01:53:34
1	Mo	202.031†	577.2	515.7	-0.0297	mg/L	-0.0297	mg/L	01:53:36
1	Ni	231.604†	5547.6	5143.8	0.1163	mg/L	0.1163	mg/L	01:53:36
1	P	214.914†	9354.7	8967.4	5.596	mg/L	5.596	mg/L	01:53:36
1	Pb	220.353†	31033.0	29476.3	2.060	mg/L	2.060	mg/L	01:53:36
1	Sb	206.836†	88.7	37.0	-0.0128	mg/L	-0.0128	mg/L	01:53:46
1	Se	196.026†	-5.1	-15.7	-0.0290	mg/L	-0.0290	mg/L	01:53:46
1	Sn	189.927†	-172.9	-194.6	-0.0127	mg/L	-0.0127	mg/L	01:53:46
1	Ti	337.279†	2313953.5	2212073.3	2.587	mg/L	2.587	mg/L	01:53:34
1	Tl	190.801†	-4.0	1.0	-0.0681	mg/L	-0.0681	mg/L	01:53:46
1	V	292.402†	45949.5	44262.3	0.2003	mg/L	0.2003	mg/L	01:53:36
1	Zn	213.857†	307110.9	292361.6	2.139	mg/L	2.139	mg/L	01:53:36
2	B	249.677†	25.2	30.8	0.0184	mg/L	0.0184	mg/L	01:53:29
2	Fe	234.349†	187020.3	180456.3	120.3	mg/L	120.3	mg/L	01:53:27
2	K	766.490†	10056.2	8885.8	5.017	mg/L	5.017	mg/L	01:53:29
2	Li	670.784†	2673.5	2815.4	0.0818	mg/L	0.0818	mg/L	01:53:29
2	Na	589.592†	8892.0	8100.5	1.587	mg/L	1.587	mg/L	01:53:29
2	Sr	407.771†	187323.5	180685.2	0.2110	mg/L	0.2110	mg/L	01:53:27
2	Y	371.029	2799178.2	2799178.2	1.04	mg/L			01:53:49
2	Ag	328.068†	1212.2	-695.5	0.0010	mg/L	0.0010	mg/L	01:53:51
2	Al	237.313†	629937.5	608281.5	67.33	mg/L	67.33	mg/L	01:53:49
2	As	188.979†	51.1	56.0	0.0448	mg/L	0.0448	mg/L	01:54:02
2	B	182.528†	20.4	29.2	0.0313	mg/L	0.0313	mg/L	01:54:02
2	Ba	233.527†	57154.3	55247.5	0.4845	mg/L	0.4845	mg/L	01:53:51
2	Be	313.107†	27169.4	27654.8	0.0119	mg/L	0.0119	mg/L	01:53:51
2	Ca	315.887†	2633768.7	2543301.1	27.75	mg/L	27.75	mg/L	01:53:49
2	Cd	228.802†	340.8	169.8	0.0043	mg/L	0.0043	mg/L	01:54:02
2	Co	228.616†	1842.9	2020.1	0.0350	mg/L	0.0350	mg/L	01:54:02
2	Cr	267.716†	18498.1	17283.3	0.1541	mg/L	0.1541	mg/L	01:53:51
2	Cu	324.752†	1244349.9	1195918.6	6.440	mg/L	6.440	mg/L	01:53:49
2	Mg	279.077†	236979.2	228667.0	18.46	mg/L	18.46	mg/L	01:53:51
2	Mn	257.610†	2108883.7	2018871.1	2.572	mg/L	2.572	mg/L	01:53:49
2	Mn	294.920†	1041609.6	1006421.7	2.626	mg/L	2.626	mg/L	01:53:49
2	Mo	202.031†	623.1	565.3	-0.0277	mg/L	-0.0277	mg/L	01:53:51
2	Ni	231.604†	5513.3	5162.0	0.1167	mg/L	0.1167	mg/L	01:53:51
2	P	214.914†	9433.2	9129.5	5.698	mg/L	5.698	mg/L	01:53:51
2	Pb	220.353†	31150.4	29876.2	2.089	mg/L	2.089	mg/L	01:53:51
2	Sb	206.836†	94.2	43.1	-0.0111	mg/L	-0.0111	mg/L	01:54:02
2	Se	196.026†	-13.9	-24.3	-0.0357	mg/L	-0.0357	mg/L	01:54:02
2	Sn	189.927†	-178.2	-201.3	-0.0140	mg/L	-0.0140	mg/L	01:54:02
2	Ti	337.279†	2254243.7	2175826.9	2.545	mg/L	2.545	mg/L	01:53:49
2	Tl	190.801†	-0.3	4.5	-0.0672	mg/L	-0.0672	mg/L	01:54:02
2	V	292.402†	46014.6	44749.5	0.2026	mg/L	0.2026	mg/L	01:53:51
2	Zn	213.857†	307800.3	295863.1	2.165	mg/L	2.165	mg/L	01:53:51

Mean Data: 1307090-19

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Conc.		Units			
Y 371.029	2812702.8	1.04	mg/L		0.007				0.68%
Ag 328.068†	-756.7	0.0006	mg/L		0.00055	0.0006	mg/L	0.00055	94.76%
Al 237.313†	613979.9	67.96	mg/L		0.892	67.96	mg/L	0.892	1.31%
As 188.979†	58.3	0.0465	mg/L		0.00239	0.0465	mg/L	0.00239	5.14%
B 249.677†	24.0	0.0147	mg/L		0.00533	0.0147	mg/L	0.00533	36.35%
B 182.528†	27.5	0.0294	mg/L		0.00260	0.0294	mg/L	0.00260	8.82%
Ba 233.527†	54937.1	0.4818	mg/L		0.00382	0.4818	mg/L	0.00382	0.79%
Be 313.107†	27528.0	0.0119	mg/L		0.00009	0.0119	mg/L	0.00009	0.72%
Ca 315.887†	2568293.2	28.03	mg/L		0.385	28.03	mg/L	0.385	1.37%
Cd 228.802†	172.4	0.0044	mg/L		0.00016	0.0044	mg/L	0.00016	3.74%
Co 228.616†	2019.0	0.0349	mg/L		0.00009	0.0349	mg/L	0.00009	0.27%
Cr 267.716†	17207.2	0.1534	mg/L		0.00094	0.1534	mg/L	0.00094	0.61%
Cu 324.752†	1205056.9	6.489	mg/L		0.0696	6.489	mg/L	0.0696	1.07%

Fe 234.349†	177433.7	118.3	mg/L	2.85	118.3	mg/L	2.85	2.41%
K 766.490†	8892.6	5.021	mg/L	0.0053	5.021	mg/L	0.0053	0.10%
Li 670.784†	2811.7	0.0817	mg/L	0.00014	0.0817	mg/L	0.00014	0.18%
Mg 279.077†	227120.6	18.33	mg/L	0.176	18.33	mg/L	0.176	0.96%
Mn 257.610†	2036680.0	2.595	mg/L	0.0330	2.595	mg/L	0.0330	1.27%
Mn 294.920†	1015116.2	2.649	mg/L	0.0321	2.649	mg/L	0.0321	1.21%
Mo 202.031†	540.5	-0.0287	mg/L	0.00145	-0.0287	mg/L	0.00145	5.06%
Na 589.592†	8060.3	1.580	mg/L	0.0103	1.580	mg/L	0.0103	0.65%
Ni 231.604†	5152.9	0.1165	mg/L	0.00029	0.1165	mg/L	0.00029	0.25%
P 214.914†	9048.5	5.647	mg/L	0.0725	5.647	mg/L	0.0725	1.28%
Pb 220.353†	29676.2	2.074	mg/L	0.0202	2.074	mg/L	0.0202	0.97%
Sb 206.836†	40.0	-0.0120	mg/L	0.00121	-0.0120	mg/L	0.00121	10.12%
Se 196.026†	-20.0	-0.0324	mg/L	0.00472	-0.0324	mg/L	0.00472	14.60%
Sn 189.927†	-197.9	-0.0134	mg/L	0.00094	-0.0134	mg/L	0.00094	7.03%
Sr 407.771†	177711.4	0.2076	mg/L	0.00490	0.2076	mg/L	0.00490	2.36%
Ti 337.279†	2193950.1	2.566	mg/L	0.0299	2.566	mg/L	0.0299	1.17%
Tl 190.801†	2.7	-0.0677	mg/L	0.00069	-0.0677	mg/L	0.00069	1.02%
V 292.402†	44505.9	0.2015	mg/L	0.00164	0.2015	mg/L	0.00164	0.81%
Zn 213.857†	294112.3	2.152	mg/L	0.0182	2.152	mg/L	0.0182	0.84%

Sequence No.: 175
Sample ID: CF30511-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 148
Date Collected: 7/6/2013 1:55:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30511-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-5.6	0.7	0.0017	mg/L	0.0017	mg/L	01:57:24
1	Fe 234.349†	207.6	206.4	0.1482	mg/L	0.1482	mg/L	01:57:24
1	K 766.490†	918.0	125.2	0.2426	mg/L	0.2426	mg/L	01:57:14
1	Li 670.784†	-416.0	-191.7	-0.0008	mg/L	-0.0008	mg/L	01:57:14
1	Na 589.592†	46.7	-431.7	0.0347	mg/L	0.0347	mg/L	01:57:14
1	Sr 407.771†	541.5	485.8	0.0009	mg/L	0.0009	mg/L	01:57:14
1	Y 371.029	2629300.4	2629300.4	0.973	mg/L			01:57:40
1	Ag 328.068†	1698.0	-120.8	0.0011	mg/L	0.0011	mg/L	01:57:43
1	Al 237.313†	-94.1	333.8	0.0503	mg/L	0.0503	mg/L	01:57:43
1	As 188.979†	-4.0	2.6	0.0062	mg/L	0.0062	mg/L	01:57:53
1	B 182.528†	-7.2	2.2	0.0022	mg/L	0.0022	mg/L	01:57:53
1	Ba 233.527†	1802.7	1948.9	0.0201	mg/L	0.0201	mg/L	01:57:53
1	Be 313.107†	-1268.9	134.5	0.0004	mg/L	0.0004	mg/L	01:57:43
1	Ca 315.887†	-80.1	1793.3	0.0555	mg/L	0.0555	mg/L	01:57:43
1	Cd 228.802†	166.2	11.7	0.0014	mg/L	0.0014	mg/L	01:57:53
1	Co 228.616†	-255.0	-20.2	-0.0004	mg/L	-0.0004	mg/L	01:57:53
1	Cr 267.716†	525.6	-26.3	0.0032	mg/L	0.0032	mg/L	01:57:43
1	Cu 324.752†	5932.5	1291.5	0.0114	mg/L	0.0114	mg/L	01:57:43
1	Mg 279.077†	191.9	193.7	0.0408	mg/L	0.0408	mg/L	01:57:43
1	Mn 257.610†	16793.0	1178.6	0.0032	mg/L	0.0032	mg/L	01:57:43
1	Mn 294.920†	-388.7	933.0	0.0039	mg/L	0.0039	mg/L	01:57:43
1	Mo 202.031†	59.5	25.2	0.0035	mg/L	0.0035	mg/L	01:57:53
1	Ni 231.604†	175.5	22.2	0.0021	mg/L	0.0021	mg/L	01:57:43
1	P 214.914†	59.8	88.5	0.1023	mg/L	0.1023	mg/L	01:57:53
1	Pb 220.353†	220.4	44.3	0.0030	mg/L	0.0030	mg/L	01:57:53
1	Sb 206.836†	51.9	5.5	0.0068	mg/L	0.0068	mg/L	01:57:53
1	Se 196.026†	18.8	8.4	0.0108	mg/L	0.0108	mg/L	01:57:53
1	Sn 189.927†	158.9	133.9	0.0184	mg/L	0.0184	mg/L	01:57:53
1	Ti 337.279†	1274.9	1929.5	0.0072	mg/L	0.0072	mg/L	01:57:43
1	Tl 190.801†	-6.5	-1.9	-0.0008	mg/L	-0.0008	mg/L	01:57:53
1	V 292.402†	-399.3	-62.0	0.0043	mg/L	0.0043	mg/L	01:57:43
1	Zn 213.857†	1460.0	354.5	0.0053	mg/L	0.0053	mg/L	01:57:53
2	B 249.677†	-3.1	3.3	0.0031	mg/L	0.0031	mg/L	01:57:37
2	Fe 234.349†	142.2	137.2	0.1020	mg/L	0.1020	mg/L	01:57:37
2	K 766.490†	898.1	91.7	0.2243	mg/L	0.2243	mg/L	01:57:27
2	Li 670.784†	-331.3	-99.9	0.0017	mg/L	0.0017	mg/L	01:57:27
2	Na 589.592†	117.5	-360.7	0.0476	mg/L	0.0476	mg/L	01:57:27
2	Sr 407.771†	465.6	401.0	0.0008	mg/L	0.0008	mg/L	01:57:27
2	Y 371.029	2666919.2	2666919.2	0.987	mg/L			01:57:55
2	Ag 328.068†	1677.0	-166.7	0.0009	mg/L	0.0009	mg/L	01:57:57
2	Al 237.313†	-171.9	256.3	0.0417	mg/L	0.0417	mg/L	01:57:57
2	As 188.979†	-2.1	4.5	0.0076	mg/L	0.0076	mg/L	01:58:08

2	B 182.528†	-7.2	2.3	0.0023 mg/L	0.0023 mg/L	01:58:08
2	Ba 233.527†	1872.5	1993.5	0.0205 mg/L	0.0205 mg/L	01:58:08
2	Be 313.107†	-1366.7	53.8	0.0004 mg/L	0.0004 mg/L	01:57:57
2	Ca 315.887†	-370.0	1500.9	0.0523 mg/L	0.0523 mg/L	01:57:57
2	Cd 228.802†	159.8	2.8	0.0011 mg/L	0.0011 mg/L	01:58:08
2	Co 228.616†	-233.5	5.3	0.0001 mg/L	0.0001 mg/L	01:58:08
2	Cr 267.716†	493.7	-66.2	0.0028 mg/L	0.0028 mg/L	01:57:57
2	Cu 324.752†	5871.9	1144.1	0.0106 mg/L	0.0106 mg/L	01:57:57
2	Mg 279.077†	182.6	181.5	0.0398 mg/L	0.0398 mg/L	01:57:57
2	Mn 257.610†	16609.2	749.1	0.0026 mg/L	0.0026 mg/L	01:57:57
2	Mn 294.920†	-478.3	847.9	0.0037 mg/L	0.0037 mg/L	01:57:57
2	Mo 202.031†	70.7	35.7	0.0040 mg/L	0.0040 mg/L	01:58:08
2	Ni 231.604†	206.6	51.2	0.0028 mg/L	0.0028 mg/L	01:57:57
2	P 214.914†	49.6	77.3	0.0952 mg/L	0.0952 mg/L	01:58:08
2	Pb 220.353†	193.2	13.6	0.0008 mg/L	0.0008 mg/L	01:58:08
2	Sb 206.836†	37.7	-9.7	-0.0003 mg/L	-0.0003 mg/L	01:58:08
2	Se 196.026†	14.4	3.7	0.0075 mg/L	0.0075 mg/L	01:58:08
2	Sn 189.927†	140.3	112.8	0.0153 mg/L	0.0153 mg/L	01:58:08
2	Ti 337.279†	813.6	1443.8	0.0066 mg/L	0.0066 mg/L	01:57:57
2	Tl 190.801†	-13.9	-9.3	-0.0079 mg/L	-0.0079 mg/L	01:58:08
2	V 292.402†	-219.6	125.9	0.0052 mg/L	0.0052 mg/L	01:57:57
2	Zn 213.857†	1558.0	432.5	0.0058 mg/L	0.0058 mg/L	01:58:08

Mean Data: CF30511-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2648109.8	0.980	mg/L	0.0098			1.00%
Ag 328.068†	-143.8	0.0010	mg/L	0.00018	0.0010 mg/L	0.00018	18.42%
Al 237.313†	295.0	0.0460	mg/L	0.00606	0.0460 mg/L	0.00606	13.18%
As 188.979†	3.5	0.0069	mg/L	0.00099	0.0069 mg/L	0.00099	14.29%
B 249.677†	2.0	0.0024	mg/L	0.00102	0.0024 mg/L	0.00102	42.37%
B 182.528†	2.2	0.0023	mg/L	0.00008	0.0023 mg/L	0.00008	3.46%
Ba 233.527†	1971.2	0.0203	mg/L	0.00027	0.0203 mg/L	0.00027	1.35%
Be 313.107†	94.1	0.0004	mg/L	0.00003	0.0004 mg/L	0.00003	5.94%
Ca 315.887†	1647.1	0.0539	mg/L	0.00225	0.0539 mg/L	0.00225	4.18%
Cd 228.802†	7.3	0.0012	mg/L	0.00020	0.0012 mg/L	0.00020	16.00%
Co 228.616†	-7.4	-0.0001	mg/L	0.00036	-0.0001 mg/L	0.00036	251.18%
Cr 267.716†	-46.2	0.0030	mg/L	0.00025	0.0030 mg/L	0.00025	8.23%
Cu 324.752†	1217.8	0.0110	mg/L	0.00056	0.0110 mg/L	0.00056	5.12%
Fe 234.349†	171.8	0.1251	mg/L	0.03264	0.1251 mg/L	0.03264	26.09%
K 766.490†	108.5	0.2334	mg/L	0.01291	0.2334 mg/L	0.01291	5.53%
Li 670.784†	-145.8	0.0004	mg/L	0.00179	0.0004 mg/L	0.00179	404.90%
Mg 279.077†	187.6	0.0403	mg/L	0.00070	0.0403 mg/L	0.00070	1.73%
Mn 257.610†	963.9	0.0029	mg/L	0.00038	0.0029 mg/L	0.00038	13.20%
Mn 294.920†	890.4	0.0038	mg/L	0.00016	0.0038 mg/L	0.00016	4.09%
Mo 202.031†	30.5	0.0037	mg/L	0.00032	0.0037 mg/L	0.00032	8.63%
Na 589.592†	-396.2	0.0411	mg/L	0.00913	0.0411 mg/L	0.00913	22.21%
Ni 231.604†	36.7	0.0024	mg/L	0.00046	0.0024 mg/L	0.00046	18.71%
P 214.914†	82.9	0.0987	mg/L	0.00496	0.0987 mg/L	0.00496	5.03%
Pb 220.353†	28.9	0.0019	mg/L	0.00153	0.0019 mg/L	0.00153	81.01%
Sb 206.836†	-2.1	0.0032	mg/L	0.00501	0.0032 mg/L	0.00501	155.55%
Se 196.026†	6.0	0.0092	mg/L	0.00229	0.0092 mg/L	0.00229	25.04%
Sn 189.927†	123.3	0.0169	mg/L	0.00221	0.0169 mg/L	0.00221	13.13%
Sr 407.771†	443.4	0.0009	mg/L	0.00007	0.0009 mg/L	0.00007	7.90%
Ti 337.279†	1686.7	0.0069	mg/L	0.00040	0.0069 mg/L	0.00040	5.84%
Tl 190.801†	-5.6	-0.0043	mg/L	0.00505	-0.0043 mg/L	0.00505	116.62%
V 292.402†	32.0	0.0047	mg/L	0.00061	0.0047 mg/L	0.00061	12.87%
Zn 213.857†	393.5	0.0055	mg/L	0.00040	0.0055 mg/L	0.00040	7.30%

Sequence No.: 176

Sample ID: CF30511-BS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 149

Date Collected: 7/6/2013 1:59:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30511-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	827.0	848.4	0.4744 mg/L	0.4744 mg/L	02:01:25
1	Fe 234.349†	81374.2	82837.0	55.17 mg/L	55.17 mg/L	02:01:25

1	K 766.490†	23648.5	23257.8	12.85 mg/L	12.85 mg/L	02:01:25
1	Li 670.784†	1108.1	1363.7	0.0419 mg/L	0.0419 mg/L	02:01:25
1	Na 589.592†	14878.7	14667.7	2.782 mg/L	2.782 mg/L	02:01:25
1	Sr 407.771†	446122.0	454108.2	0.5298 mg/L	0.5298 mg/L	02:01:22
1	Y 371.029	2653121.3	2653121.3	0.982 mg/L		02:01:34
1	Ag 328.068†	66549.4	65886.1	0.3684 mg/L	0.3684 mg/L	02:01:37
1	Al 237.313†	364758.3	371776.1	41.16 mg/L	41.16 mg/L	02:01:37
1	As 188.979†	1052.1	1077.7	0.7879 mg/L	0.7879 mg/L	02:01:47
1	B 182.528†	419.6	436.7	0.4686 mg/L	0.4686 mg/L	02:01:47
1	Ba 233.527†	220066.5	224137.9	1.956 mg/L	1.956 mg/L	02:01:37
1	Be 313.107†	1656361.4	1687712.6	0.7425 mg/L	0.7425 mg/L	02:01:34
1	Ca 315.887†	3624523.2	3691856.1	40.27 mg/L	40.27 mg/L	02:01:34
1	Cd 228.802†	24779.9	25068.4	0.7829 mg/L	0.7829 mg/L	02:01:37
1	Co 228.616†	26979.6	27708.6	0.5528 mg/L	0.5528 mg/L	02:01:47
1	Cr 267.716†	107094.0	108461.8	0.9493 mg/L	0.9493 mg/L	02:01:37
1	Cu 324.752†	164019.1	162178.4	0.8775 mg/L	0.8775 mg/L	02:01:37
1	Mg 279.077†	208431.6	212192.3	17.13 mg/L	17.13 mg/L	02:01:37
1	Mn 257.610†	1504982.5	1516089.3	1.940 mg/L	1.940 mg/L	02:01:34
1	Mn 294.920†	745424.5	760218.8	1.984 mg/L	1.984 mg/L	02:01:37
1	Mo 202.031†	14656.7	14885.4	0.6218 mg/L	0.6218 mg/L	02:01:47
1	Ni 231.604†	31062.8	31465.7	0.7040 mg/L	0.7040 mg/L	02:01:37
1	P 214.914†	3729.1	3823.5	2.429 mg/L	2.429 mg/L	02:01:47
1	Pb 220.353†	7597.6	7552.7	0.5257 mg/L	0.5257 mg/L	02:01:47
1	Sb 206.836†	575.5	538.1	0.2381 mg/L	0.2381 mg/L	02:01:47
1	Se 196.026†	1080.8	1089.4	0.7406 mg/L	0.7406 mg/L	02:01:47
1	Sn 189.927†	4736.8	4793.1	0.7330 mg/L	0.7330 mg/L	02:01:47
1	Ti 337.279†	771127.9	785673.9	0.9219 mg/L	0.9219 mg/L	02:01:37
1	Tl 190.801†	866.1	886.6	0.8278 mg/L	0.8278 mg/L	02:01:47
1	V 292.402†	137867.8	140706.0	0.6543 mg/L	0.6543 mg/L	02:01:37
1	Zn 213.857†	237642.7	240789.0	1.766 mg/L	1.766 mg/L	02:01:37
2	B 249.677†	854.2	866.2	0.4843 mg/L	0.4843 mg/L	02:01:29
2	Fe 234.349†	83965.2	84504.2	56.29 mg/L	56.29 mg/L	02:01:29
2	K 766.490†	24270.6	23610.5	13.04 mg/L	13.04 mg/L	02:01:29
2	Li 670.784†	1167.8	1411.0	0.0432 mg/L	0.0432 mg/L	02:01:29
2	Na 589.592†	15220.1	14839.3	2.813 mg/L	2.813 mg/L	02:01:29
2	Sr 407.771†	450406.5	453263.4	0.5289 mg/L	0.5289 mg/L	02:01:27
2	Y 371.029	2683593.4	2683593.4	0.994 mg/L		02:01:50
2	Ag 328.068†	66034.6	64598.7	0.3613 mg/L	0.3613 mg/L	02:01:52
2	Al 237.313†	361942.0	364724.8	40.38 mg/L	40.38 mg/L	02:01:52
2	As 188.979†	1056.6	1070.1	0.7824 mg/L	0.7824 mg/L	02:02:03
2	B 182.528†	421.2	433.5	0.4652 mg/L	0.4652 mg/L	02:02:03
2	Ba 233.527†	218332.1	219848.2	1.919 mg/L	1.919 mg/L	02:01:52
2	Be 313.107†	1677763.7	1690106.4	0.7436 mg/L	0.7436 mg/L	02:01:50
2	Ca 315.887†	3661421.9	3687095.0	40.22 mg/L	40.22 mg/L	02:01:50
2	Cd 228.802†	24677.7	24679.0	0.7707 mg/L	0.7707 mg/L	02:01:52
2	Co 228.616†	26880.4	27296.9	0.5445 mg/L	0.5445 mg/L	02:02:03
2	Cr 267.716†	106286.9	106411.4	0.9314 mg/L	0.9314 mg/L	02:01:52
2	Cu 324.752†	163262.9	159521.2	0.8632 mg/L	0.8632 mg/L	02:01:52
2	Mg 279.077†	205942.4	207277.5	16.73 mg/L	16.73 mg/L	02:01:52
2	Mn 257.610†	1522525.6	1516348.8	1.940 mg/L	1.940 mg/L	02:01:50
2	Mn 294.920†	740071.4	746213.9	1.948 mg/L	1.948 mg/L	02:01:52
2	Mo 202.031†	14612.8	14671.9	0.6126 mg/L	0.6126 mg/L	02:02:03
2	Ni 231.604†	30773.7	30815.7	0.6895 mg/L	0.6895 mg/L	02:01:52
2	P 214.914†	3681.1	3732.1	2.372 mg/L	2.372 mg/L	02:02:03
2	Pb 220.353†	7542.2	7409.1	0.5158 mg/L	0.5158 mg/L	02:02:03
2	Sb 206.836†	560.5	516.3	0.2277 mg/L	0.2277 mg/L	02:02:03
2	Se 196.026†	1062.0	1058.0	0.7189 mg/L	0.7189 mg/L	02:02:03
2	Sn 189.927†	4761.7	4763.4	0.7285 mg/L	0.7285 mg/L	02:02:03
2	Ti 337.279†	766752.6	772355.9	0.9064 mg/L	0.9064 mg/L	02:01:52
2	Tl 190.801†	855.5	865.9	0.8071 mg/L	0.8071 mg/L	02:02:03
2	V 292.402†	137327.9	138568.8	0.6444 mg/L	0.6444 mg/L	02:01:52
2	Zn 213.857†	236193.5	236583.3	1.735 mg/L	1.735 mg/L	02:01:52

Mean Data: CF30511-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2668357.3	0.988	mg/L	0.0080			0.81%
Ag 328.068†	65242.4	0.3648	mg/L	0.00503	0.3648 mg/L	0.00503	1.38%
Al 237.313†	368250.5	40.77	mg/L	0.552	40.77 mg/L	0.552	1.35%
As 188.979†	1073.9	0.7851	mg/L	0.00389	0.7851 mg/L	0.00389	0.50%
B 249.677†	857.3	0.4793	mg/L	0.00700	0.4793 mg/L	0.00700	1.46%
B 182.528†	435.1	0.4669	mg/L	0.00240	0.4669 mg/L	0.00240	0.51%

Ba	233.527†	221993.0	1.937 mg/L	0.0264	1.937 mg/L	0.0264	1.36%
Be	313.107†	1688909.5	0.7431 mg/L	0.00075	0.7431 mg/L	0.00075	0.10%
Ca	315.887†	3689475.6	40.25 mg/L	0.037	40.25 mg/L	0.037	0.09%
Cd	228.802†	24873.7	0.7768 mg/L	0.00861	0.7768 mg/L	0.00861	1.11%
Co	228.616†	27502.8	0.5487 mg/L	0.00580	0.5487 mg/L	0.00580	1.06%
Cr	267.716†	107436.6	0.9404 mg/L	0.01264	0.9404 mg/L	0.01264	1.34%
Cu	324.752†	160849.8	0.8704 mg/L	0.01012	0.8704 mg/L	0.01012	1.16%
Fe	234.349†	83670.6	55.73 mg/L	0.786	55.73 mg/L	0.786	1.41%
K	766.490†	23434.1	12.95 mg/L	0.136	12.95 mg/L	0.136	1.05%
Li	670.784†	1387.4	0.0426 mg/L	0.00092	0.0426 mg/L	0.00092	2.16%
Mg	279.077†	209734.9	16.93 mg/L	0.280	16.93 mg/L	0.280	1.65%
Mn	257.610†	1516219.1	1.940 mg/L	0.0001	1.940 mg/L	0.0001	0.00%
Mn	294.920†	753216.4	1.966 mg/L	0.0258	1.966 mg/L	0.0258	1.31%
Mo	202.031†	14778.6	0.6172 mg/L	0.00648	0.6172 mg/L	0.00648	1.05%
Na	589.592†	14753.5	2.798 mg/L	0.0221	2.798 mg/L	0.0221	0.79%
Ni	231.604†	31140.7	0.6968 mg/L	0.01025	0.6968 mg/L	0.01025	1.47%
P	214.914†	3777.8	2.400 mg/L	0.0404	2.400 mg/L	0.0404	1.68%
Pb	220.353†	7480.9	0.5207 mg/L	0.00706	0.5207 mg/L	0.00706	1.36%
Sb	206.836†	527.2	0.2329 mg/L	0.00740	0.2329 mg/L	0.00740	3.18%
Se	196.026†	1073.7	0.7297 mg/L	0.01538	0.7297 mg/L	0.01538	2.11%
Sn	189.927†	4778.2	0.7307 mg/L	0.00313	0.7307 mg/L	0.00313	0.43%
Sr	407.771†	453685.8	0.5293 mg/L	0.00070	0.5293 mg/L	0.00070	0.13%
Ti	337.279†	779014.9	0.9142 mg/L	0.01099	0.9142 mg/L	0.01099	1.20%
Tl	190.801†	876.2	0.8175 mg/L	0.01465	0.8175 mg/L	0.01465	1.79%
V	292.402†	139637.4	0.6494 mg/L	0.00698	0.6494 mg/L	0.00698	1.07%
Zn	213.857†	238686.1	1.751 mg/L	0.0218	1.751 mg/L	0.0218	1.25%

Sequence No.: 177
Sample ID: CF30511-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 150
Date Collected: 7/6/2013 2:03:38 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30511-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	777.7	792.2	0.4430 mg/L		0.4430 mg/L	02:05:23
1	Fe 234.349†	77568.4	78365.0	52.20 mg/L		52.20 mg/L	02:05:23
1	K 766.490†	22872.6	22291.6	12.32 mg/L		12.32 mg/L	02:05:23
1	Li 670.784†	1095.5	1342.4	0.0413 mg/L		0.0413 mg/L	02:05:23
1	Na 589.592†	13981.4	13646.5	2.596 mg/L		2.596 mg/L	02:05:23
1	Sr 407.771†	440410.4	444901.7	0.5191 mg/L		0.5191 mg/L	02:05:20
1	Y 371.029	2673344.4	2673344.4	0.990 mg/L			02:05:32
1	Ag 328.068†	69130.2	67981.1	0.3799 mg/L		0.3799 mg/L	02:05:35
1	Al 237.313†	349036.1	353081.9	39.09 mg/L		39.09 mg/L	02:05:35
1	As 188.979†	1050.1	1067.6	0.7806 mg/L		0.7806 mg/L	02:05:45
1	B 182.528†	402.0	415.7	0.4461 mg/L		0.4461 mg/L	02:05:45
1	Ba 233.527†	216818.5	219161.4	1.913 mg/L		1.913 mg/L	02:05:35
1	Be 313.107†	1593909.6	1611857.7	0.7092 mg/L		0.7092 mg/L	02:05:32
1	Ca 315.887†	3485657.6	3523638.4	38.44 mg/L		38.44 mg/L	02:05:32
1	Cd 228.802†	23306.1	23388.5	0.7305 mg/L		0.7305 mg/L	02:05:45
1	Co 228.616†	25924.3	26434.6	0.5274 mg/L		0.5274 mg/L	02:05:45
1	Cr 267.716†	100846.1	101324.5	0.8870 mg/L		0.8870 mg/L	02:05:35
1	Cu 324.752†	154827.4	151628.2	0.8207 mg/L		0.8207 mg/L	02:05:35
1	Mg 279.077†	202325.4	204417.7	16.50 mg/L		16.50 mg/L	02:05:35
1	Mn 257.610†	1422715.2	1421379.5	1.819 mg/L		1.819 mg/L	02:05:32
1	Mn 294.920†	698636.1	707205.0	1.846 mg/L		1.846 mg/L	02:05:35
1	Mo 202.031†	13305.1	13407.0	0.5597 mg/L		0.5597 mg/L	02:05:45
1	Ni 231.604†	29189.9	29334.2	0.6564 mg/L		0.6564 mg/L	02:05:35
1	P 214.914†	3990.8	4059.2	2.577 mg/L		2.577 mg/L	02:05:45
1	Pb 220.353†	7455.8	7350.9	0.5118 mg/L		0.5118 mg/L	02:05:45
1	Sb 206.836†	544.3	502.1	0.2221 mg/L		0.2221 mg/L	02:05:45
1	Se 196.026†	1060.1	1060.2	0.7212 mg/L		0.7212 mg/L	02:05:45
1	Sn 189.927†	4769.5	4789.6	0.7313 mg/L		0.7313 mg/L	02:05:45
1	Ti 337.279†	693894.5	701701.8	0.8239 mg/L		0.8239 mg/L	02:05:35
1	Tl 190.801†	832.8	846.2	0.7905 mg/L		0.7905 mg/L	02:05:45
1	V 292.402†	130034.0	131729.2	0.6126 mg/L		0.6126 mg/L	02:05:35
1	Zn 213.857†	223820.5	224993.5	1.650 mg/L		1.650 mg/L	02:05:35
2	B 249.677†	806.0	816.5	0.4565 mg/L		0.4565 mg/L	02:05:27
2	Fe 234.349†	79397.0	79781.0	53.14 mg/L		53.14 mg/L	02:05:27
2	K 766.490†	23470.4	22768.1	12.58 mg/L		12.58 mg/L	02:05:27

2	Li 670.784†	1045.0	1285.7	0.0398 mg/L	0.0398 mg/L	02:05:27
2	Na 589.592†	14298.3	13889.0	2.640 mg/L	2.640 mg/L	02:05:27
2	Sr 407.771†	432471.1	434529.2	0.5070 mg/L	0.5070 mg/L	02:05:25
2	Y 371.029	2687806.1	2687806.1	0.995 mg/L		02:05:48
2	Ag 328.068†	70368.7	68849.9	0.3848 mg/L	0.3848 mg/L	02:05:50
2	Al 237.313†	354626.9	356802.8	39.50 mg/L	39.50 mg/L	02:05:50
2	As 188.979†	1049.2	1061.0	0.7758 mg/L	0.7758 mg/L	02:06:01
2	B 182.528†	402.9	414.5	0.4448 mg/L	0.4448 mg/L	02:06:01
2	Ba 233.527†	220234.5	221415.5	1.932 mg/L	1.932 mg/L	02:05:50
2	Be 313.107†	1608070.0	1617422.9	0.7116 mg/L	0.7116 mg/L	02:05:48
2	Ca 315.887†	3487758.5	3506800.8	38.26 mg/L	38.26 mg/L	02:05:48
2	Cd 228.802†	23230.7	23186.0	0.7242 mg/L	0.7242 mg/L	02:06:01
2	Co 228.616†	25792.3	26161.0	0.5219 mg/L	0.5219 mg/L	02:06:01
2	Cr 267.716†	102547.0	102485.5	0.8972 mg/L	0.8972 mg/L	02:05:50
2	Cu 324.752†	156687.9	152656.2	0.8262 mg/L	0.8262 mg/L	02:05:50
2	Mg 279.077†	205228.0	206234.7	16.65 mg/L	16.65 mg/L	02:05:50
2	Mn 257.610†	1429599.2	1420563.1	1.817 mg/L	1.817 mg/L	02:05:48
2	Mn 294.920†	710012.2	714839.2	1.866 mg/L	1.866 mg/L	02:05:50
2	Mo 202.031†	13254.7	13284.0	0.5543 mg/L	0.5543 mg/L	02:06:01
2	Ni 231.604†	29620.0	29607.8	0.6625 mg/L	0.6625 mg/L	02:05:50
2	P 214.914†	3977.2	4023.9	2.555 mg/L	2.555 mg/L	02:06:01
2	Pb 220.353†	7435.9	7290.4	0.5074 mg/L	0.5074 mg/L	02:06:01
2	Sb 206.836†	531.7	486.5	0.2144 mg/L	0.2144 mg/L	02:06:01
2	Se 196.026†	1065.8	1060.1	0.7210 mg/L	0.7210 mg/L	02:06:01
2	Sn 189.927†	4741.3	4735.4	0.7232 mg/L	0.7232 mg/L	02:06:01
2	Ti 337.279†	704893.5	708982.8	0.8324 mg/L	0.8324 mg/L	02:05:50
2	Tl 190.801†	830.1	839.0	0.7829 mg/L	0.7829 mg/L	02:06:01
2	V 292.402†	132116.8	133115.3	0.6189 mg/L	0.6189 mg/L	02:05:50
2	Zn 213.857†	227272.7	227245.9	1.667 mg/L	1.667 mg/L	02:05:50

Mean Data: CF30511-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2680575.3	0.992	mg/L	0.0038			0.38%
Ag 328.068†	68415.5	0.3823	mg/L	0.00342	0.3823 mg/L	0.00342	0.89%
Al 237.313†	354942.3	39.30	mg/L	0.291	39.30 mg/L	0.291	0.74%
As 188.979†	1064.3	0.7782	mg/L	0.00339	0.7782 mg/L	0.00339	0.44%
B 249.677†	804.3	0.4497	mg/L	0.00955	0.4497 mg/L	0.00955	2.12%
B 182.528†	415.1	0.4454	mg/L	0.00095	0.4454 mg/L	0.00095	0.21%
Ba 233.527†	220288.5	1.922	mg/L	0.0139	1.922 mg/L	0.0139	0.72%
Be 313.107†	1614640.3	0.7104	mg/L	0.00173	0.7104 mg/L	0.00173	0.24%
Ca 315.887†	3515219.6	38.35	mg/L	0.130	38.35 mg/L	0.130	0.34%
Cd 228.802†	23287.2	0.7273	mg/L	0.00448	0.7273 mg/L	0.00448	0.62%
Co 228.616†	26297.8	0.5247	mg/L	0.00388	0.5247 mg/L	0.00388	0.74%
Cr 267.716†	101905.0	0.8921	mg/L	0.00715	0.8921 mg/L	0.00715	0.80%
Cu 324.752†	152142.2	0.8235	mg/L	0.00392	0.8235 mg/L	0.00392	0.48%
Fe 234.349†	79073.0	52.67	mg/L	0.668	52.67 mg/L	0.668	1.27%
K 766.490†	22529.8	12.45	mg/L	0.184	12.45 mg/L	0.184	1.47%
Li 670.784†	1314.1	0.0406	mg/L	0.00110	0.0406 mg/L	0.00110	2.71%
Mg 279.077†	205326.2	16.57	mg/L	0.104	16.57 mg/L	0.104	0.62%
Mn 257.610†	1420971.3	1.818	mg/L	0.0009	1.818 mg/L	0.0009	0.05%
Mn 294.920†	711022.1	1.856	mg/L	0.0141	1.856 mg/L	0.0141	0.76%
Mo 202.031†	13345.5	0.5570	mg/L	0.00382	0.5570 mg/L	0.00382	0.69%
Na 589.592†	13767.8	2.618	mg/L	0.0312	2.618 mg/L	0.0312	1.19%
Ni 231.604†	29471.0	0.6594	mg/L	0.00431	0.6594 mg/L	0.00431	0.65%
P 214.914†	4041.5	2.566	mg/L	0.0156	2.566 mg/L	0.0156	0.61%
Pb 220.353†	7320.7	0.5096	mg/L	0.00309	0.5096 mg/L	0.00309	0.61%
Sb 206.836†	494.3	0.2182	mg/L	0.00546	0.2182 mg/L	0.00546	2.50%
Se 196.026†	1060.2	0.7211	mg/L	0.00018	0.7211 mg/L	0.00018	0.02%
Sn 189.927†	4762.5	0.7272	mg/L	0.00575	0.7272 mg/L	0.00575	0.79%
Sr 407.771†	439715.5	0.5131	mg/L	0.00855	0.5131 mg/L	0.00855	1.67%
Ti 337.279†	705342.3	0.8282	mg/L	0.00601	0.8282 mg/L	0.00601	0.73%
Tl 190.801†	842.6	0.7867	mg/L	0.00538	0.7867 mg/L	0.00538	0.68%
V 292.402†	132422.3	0.6157	mg/L	0.00442	0.6157 mg/L	0.00442	0.72%
Zn 213.857†	226119.7	1.659	mg/L	0.0117	1.659 mg/L	0.0117	0.70%

Sequence No.: 178
Sample ID: 1307093-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 151
Date Collected: 7/6/2013 2:07:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307093-01

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis
		Intensity	Intensity	Conc. Units	Conc. Units	Time
1	B 249.677†	7.5	13.7	0.0089 mg/L	0.0089 mg/L	02:09:17
1	Fe 234.349†	328739.7	319393.1	213.0 mg/L	213.0 mg/L	02:09:15
1	K 766.490†	10276.7	9166.8	5.170 mg/L	5.170 mg/L	02:09:17
1	Li 670.784†	4254.1	4368.8	0.1245 mg/L	0.1245 mg/L	02:09:17
1	Na 589.592†	4759.7	4144.8	0.8673 mg/L	0.8673 mg/L	02:09:17
1	Sr 407.771†	213175.4	207048.3	0.2418 mg/L	0.2418 mg/L	02:09:15
1	Y 371.029	2780019.0	2780019.0	1.03 mg/L		02:09:26
1	Ag 328.068†	1232.6	-667.6	0.0034 mg/L	0.0034 mg/L	02:09:28
1	Al 237.313†	546696.8	531595.0	58.84 mg/L	58.84 mg/L	02:09:26
1	As 188.979†	156.7	158.9	0.1197 mg/L	0.1197 mg/L	02:09:39
1	B 182.528†	31.8	40.5	0.0434 mg/L	0.0434 mg/L	02:09:39
1	Ba 233.527†	68028.5	66192.7	0.5798 mg/L	0.5798 mg/L	02:09:28
1	Be 313.107†	17445.2	18387.6	0.0078 mg/L	0.0078 mg/L	02:09:28
1	Ca 315.887†	1640007.3	1595288.4	17.42 mg/L	17.42 mg/L	02:09:26
1	Cd 228.802†	345.3	176.5	0.0029 mg/L	0.0029 mg/L	02:09:39
1	Co 228.616†	3623.0	3761.8	0.0689 mg/L	0.0689 mg/L	02:09:39
1	Cr 267.716†	17289.8	16232.3	0.1449 mg/L	0.1449 mg/L	02:09:28
1	Cu 324.752†	102768.3	95045.7	0.5192 mg/L	0.5192 mg/L	02:09:28
1	Mg 279.077†	214782.5	208676.8	16.85 mg/L	16.85 mg/L	02:09:28
1	Mn 257.610†	2031293.0	1957509.1	2.472 mg/L	2.472 mg/L	02:09:26
1	Mn 294.920†	1021609.8	993917.0	2.594 mg/L	2.594 mg/L	02:09:26
1	Mo 202.031†	480.2	430.6	-0.0140 mg/L	-0.0140 mg/L	02:09:28
1	Ni 231.604†	9484.8	9057.3	0.2036 mg/L	0.2036 mg/L	02:09:28
1	P 214.914†	5035.3	4919.4	3.123 mg/L	3.123 mg/L	02:09:39
1	Pb 220.353†	38305.1	37034.6	2.598 mg/L	2.598 mg/L	02:09:28
1	Sb 206.836†	114.1	63.0	-0.0283 mg/L	-0.0283 mg/L	02:09:39
1	Se 196.026†	-34.5	-44.4	-0.0680 mg/L	-0.0680 mg/L	02:09:39
1	Sn 189.927†	-1.4	-30.7	0.0048 mg/L	0.0048 mg/L	02:09:39
1	Ti 337.279†	2624203.7	2550266.8	2.982 mg/L	2.982 mg/L	02:09:26
1	Tl 190.801†	-4.4	0.5	-0.1269 mg/L	-0.1269 mg/L	02:09:39
1	V 292.402†	47659.2	46653.5	0.2107 mg/L	0.2107 mg/L	02:09:28
1	Zn 213.857†	217537.3	210211.4	1.538 mg/L	1.538 mg/L	02:09:28
2	B 249.677†	-7.9	-1.3	0.0006 mg/L	0.0006 mg/L	02:09:21
2	Fe 234.349†	321950.5	316873.2	211.3 mg/L	211.3 mg/L	02:09:19
2	K 766.490†	10159.6	9181.7	5.178 mg/L	5.178 mg/L	02:09:21
2	Li 670.784†	4328.3	4495.8	0.1280 mg/L	0.1280 mg/L	02:09:21
2	Na 589.592†	4751.0	4196.4	0.8767 mg/L	0.8767 mg/L	02:09:21
2	Sr 407.771†	209270.6	205904.1	0.2404 mg/L	0.2404 mg/L	02:09:19
2	Y 371.029	2744255.6	2744255.6	1.02 mg/L		02:09:41
2	Ag 328.068†	1193.6	-690.4	0.0033 mg/L	0.0033 mg/L	02:09:44
2	Al 237.313†	539635.3	531566.9	58.84 mg/L	58.84 mg/L	02:09:41
2	As 188.979†	149.0	153.3	0.1156 mg/L	0.1156 mg/L	02:09:54
2	B 182.528†	31.6	40.7	0.0436 mg/L	0.0436 mg/L	02:09:54
2	Ba 233.527†	66256.2	65309.7	0.5721 mg/L	0.5721 mg/L	02:09:44
2	Be 313.107†	16767.7	17941.6	0.0076 mg/L	0.0076 mg/L	02:09:44
2	Ca 315.887†	1618666.6	1595049.4	17.42 mg/L	17.42 mg/L	02:09:41
2	Cd 228.802†	337.3	173.0	0.0028 mg/L	0.0028 mg/L	02:09:54
2	Co 228.616†	3627.5	3812.1	0.0699 mg/L	0.0699 mg/L	02:09:54
2	Cr 267.716†	16935.6	16102.7	0.1438 mg/L	0.1438 mg/L	02:09:44
2	Cu 324.752†	100954.5	94561.6	0.5166 mg/L	0.5166 mg/L	02:09:44
2	Mg 279.077†	209190.4	205892.3	16.62 mg/L	16.62 mg/L	02:09:44
2	Mn 257.610†	2005654.4	1957994.2	2.473 mg/L	2.473 mg/L	02:09:41
2	Mn 294.920†	1009145.1	994584.1	2.595 mg/L	2.595 mg/L	02:09:41
2	Mo 202.031†	409.6	367.2	-0.0165 mg/L	-0.0165 mg/L	02:09:44
2	Ni 231.604†	9180.2	8877.6	0.1995 mg/L	0.1995 mg/L	02:09:44
2	P 214.914†	5043.9	4991.5	3.168 mg/L	3.168 mg/L	02:09:54
2	Pb 220.353†	37411.6	36640.2	2.570 mg/L	2.570 mg/L	02:09:44
2	Sb 206.836†	112.2	62.6	-0.0280 mg/L	-0.0280 mg/L	02:09:54
2	Se 196.026†	-37.6	-48.0	-0.0701 mg/L	-0.0701 mg/L	02:09:54
2	Sn 189.927†	18.8	-10.8	0.0078 mg/L	0.0078 mg/L	02:09:54
2	Ti 337.279†	2589868.3	2549699.5	2.981 mg/L	2.981 mg/L	02:09:41
2	Tl 190.801†	-5.4	-0.6	-0.1269 mg/L	-0.1269 mg/L	02:09:54
2	V 292.402†	46634.1	46247.9	0.2088 mg/L	0.2088 mg/L	02:09:44
2	Zn 213.857†	212392.2	207901.8	1.521 mg/L	1.521 mg/L	02:09:44

Mean Data: 1307093-01

Mean Corrected

Calib

Sample Page 365 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2762137.3	1.02 mg/L	0.009			0.92%
Ag 328.068†	-679.0	0.0034 mg/L	0.00012	0.0034 mg/L	0.00012	3.55%
Al 237.313†	531580.9	58.84 mg/L	0.002	58.84 mg/L	0.002	0.00%
As 188.979†	156.1	0.1176 mg/L	0.00287	0.1176 mg/L	0.00287	2.44%
B 249.677†	6.2	0.0048 mg/L	0.00591	0.0048 mg/L	0.00591	124.22%
B 182.528†	40.6	0.0435 mg/L	0.00015	0.0435 mg/L	0.00015	0.35%
Ba 233.527†	65751.2	0.5760 mg/L	0.00544	0.5760 mg/L	0.00544	0.94%
Be 313.107†	18164.6	0.0077 mg/L	0.00014	0.0077 mg/L	0.00014	1.81%
Ca 315.887†	1595168.9	17.42 mg/L	0.002	17.42 mg/L	0.002	0.01%
Cd 228.802†	174.7	0.0029 mg/L	0.00006	0.0029 mg/L	0.00006	1.99%
Co 228.616†	3787.0	0.0694 mg/L	0.00071	0.0694 mg/L	0.00071	1.03%
Cr 267.716†	16167.5	0.1443 mg/L	0.00080	0.1443 mg/L	0.00080	0.55%
Cu 324.752†	94803.7	0.5179 mg/L	0.00184	0.5179 mg/L	0.00184	0.36%
Fe 234.349†	318133.1	212.1 mg/L	1.19	212.1 mg/L	1.19	0.56%
K 766.490†	9174.3	5.174 mg/L	0.0057	5.174 mg/L	0.0057	0.11%
Li 670.784†	4432.3	0.1263 mg/L	0.00247	0.1263 mg/L	0.00247	1.95%
Mg 279.077†	207284.6	16.73 mg/L	0.159	16.73 mg/L	0.159	0.95%
Mn 257.610†	1957751.7	2.472 mg/L	0.0007	2.472 mg/L	0.0007	0.03%
Mn 294.920†	994250.6	2.594 mg/L	0.0012	2.594 mg/L	0.0012	0.05%
Mo 202.031†	398.9	-0.0152 mg/L	0.00172	-0.0152 mg/L	0.00172	11.26%
Na 589.592†	4170.6	0.8720 mg/L	0.00665	0.8720 mg/L	0.00665	0.76%
Ni 231.604†	8967.5	0.2015 mg/L	0.00284	0.2015 mg/L	0.00284	1.41%
P 214.914†	4955.4	3.145 mg/L	0.0320	3.145 mg/L	0.0320	1.02%
Pb 220.353†	36837.4	2.584 mg/L	0.0197	2.584 mg/L	0.0197	0.76%
Sb 206.836†	62.8	-0.0281 mg/L	0.00019	-0.0281 mg/L	0.00019	0.68%
Se 196.026†	-46.2	-0.0691 mg/L	0.00147	-0.0691 mg/L	0.00147	2.12%
Sn 189.927†	-20.8	0.0063 mg/L	0.00208	0.0063 mg/L	0.00208	33.09%
Sr 407.771†	206476.2	0.2411 mg/L	0.00094	0.2411 mg/L	0.00094	0.39%
Ti 337.279†	2549983.2	2.981 mg/L	0.0005	2.981 mg/L	0.0005	0.02%
Tl 190.801†	-0.0	-0.1269 mg/L	0.00002	-0.1269 mg/L	0.00002	0.01%
V 292.402†	46450.7	0.2097 mg/L	0.00133	0.2097 mg/L	0.00133	0.63%
Zn 213.857†	209056.6	1.529 mg/L	0.0119	1.529 mg/L	0.0119	0.78%

Sequence No.: 179
Sample ID: CCV1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 7/6/2013 2:13:00 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	830.2	842.0	0.4706 mg/L	0.4706 mg/L	02:14:50
1	Fe 234.349†	3647.7	3664.4	2.439 mg/L	2.439 mg/L	02:14:50
1	K 766.490†	45477.8	44951.8	24.67 mg/L	24.67 mg/L	02:14:40
1	Li 670.784†	17493.6	17841.4	0.4948 mg/L	0.4948 mg/L	02:14:40
1	Na 589.592†	134756.5	135141.5	24.70 mg/L	24.70 mg/L	02:14:40
1	Sr 407.771†	40672.2	40862.6	0.0480 mg/L	0.0480 mg/L	02:14:40
1	Y 371.029	2683814.6	2683814.6	0.994 mg/L		02:15:07
1	Ag 328.068†	46321.7	44753.7	0.2499 mg/L	0.2499 mg/L	02:15:09
1	Al 237.313†	21618.3	22187.5	2.471 mg/L	2.471 mg/L	02:15:09
1	As 188.979†	660.7	671.6	0.4925 mg/L	0.4925 mg/L	02:15:19
1	B 182.528†	448.1	460.5	0.4942 mg/L	0.4942 mg/L	02:15:19
1	Ba 233.527†	55746.0	56200.7	0.4928 mg/L	0.4928 mg/L	02:15:09
1	Be 313.107†	108220.7	110353.1	0.0488 mg/L	0.0488 mg/L	02:15:07
1	Ca 315.887†	433416.5	438073.1	4.812 mg/L	4.812 mg/L	02:15:07
1	Cd 228.802†	7941.0	7833.0	0.2456 mg/L	0.2456 mg/L	02:15:19
1	Co 228.616†	23953.2	24348.7	0.4864 mg/L	0.4864 mg/L	02:15:09
1	Cr 267.716†	56235.2	56029.8	0.4922 mg/L	0.4922 mg/L	02:15:09
1	Cu 324.752†	96113.2	91927.1	0.4992 mg/L	0.4992 mg/L	02:15:09
1	Mg 279.077†	60224.3	60607.2	4.910 mg/L	4.910 mg/L	02:15:09
1	Mn 257.610†	398887.7	385374.7	0.4969 mg/L	0.4969 mg/L	02:15:09
1	Mn 294.920†	186234.5	188761.8	0.4938 mg/L	0.4938 mg/L	02:15:09
1	Mo 202.031†	11388.6	11425.8	0.4848 mg/L	0.4848 mg/L	02:15:19
1	Ni 231.604†	21900.1	21882.6	0.4902 mg/L	0.4902 mg/L	02:15:09
1	P 214.914†	7517.8	7593.1	4.794 mg/L	4.794 mg/L	02:15:19
1	Pb 220.353†	7016.3	6879.2	0.4859 mg/L	0.4859 mg/L	02:15:19
1	Sb 206.836†	1070.8	1029.8	0.4856 mg/L	0.4856 mg/L	02:15:19
1	Se 196.026†	1424.3	1422.5	0.9795 mg/L	0.9795 mg/L	02:15:19
1	Sn 189.927†	3353.3	3345.5	0.4968 mg/L	0.4968 mg/L	02:15:19

1	Ti 337.279†	417035.1	420330.8	0.4955 mg/L	0.4955 mg/L	02:15:09
1	Tl 190.801†	493.1	501.0	0.4846 mg/L	0.4846 mg/L	02:15:19
1	V 292.402†	107015.3	108050.2	0.5034 mg/L	0.5034 mg/L	02:15:09
1	Zn 213.857†	67735.9	67025.1	0.4917 mg/L	0.4917 mg/L	02:15:09
2	B 249.677†	838.3	854.3	0.4774 mg/L	0.4774 mg/L	02:15:03
2	Fe 234.349†	3615.6	3649.8	2.429 mg/L	2.429 mg/L	02:15:03
2	K 766.490†	45532.2	45230.3	24.82 mg/L	24.82 mg/L	02:14:53
2	Li 670.784†	17595.1	18030.1	0.5000 mg/L	0.5000 mg/L	02:14:53
2	Na 589.592†	134458.8	135502.9	24.77 mg/L	24.77 mg/L	02:14:53
2	Sr 407.771†	40841.1	41233.3	0.0484 mg/L	0.0484 mg/L	02:14:53
2	Y 371.029	2670768.5	2670768.5	0.989 mg/L		02:15:22
2	Ag 328.068†	46206.5	44865.0	0.2506 mg/L	0.2506 mg/L	02:15:24
2	Al 237.313†	21526.4	22200.8	2.472 mg/L	2.472 mg/L	02:15:24
2	As 188.979†	649.6	663.6	0.4866 mg/L	0.4866 mg/L	02:15:35
2	B 182.528†	451.5	466.1	0.5002 mg/L	0.5002 mg/L	02:15:35
2	Ba 233.527†	55273.3	55996.7	0.4910 mg/L	0.4910 mg/L	02:15:24
2	Be 313.107†	107740.6	110399.6	0.0489 mg/L	0.0489 mg/L	02:15:22
2	Ca 315.887†	432799.4	439579.8	4.828 mg/L	4.828 mg/L	02:15:22
2	Cd 228.802†	7923.9	7854.6	0.2463 mg/L	0.2463 mg/L	02:15:35
2	Co 228.616†	23726.4	24237.1	0.4841 mg/L	0.4841 mg/L	02:15:24
2	Cr 267.716†	55837.8	55904.4	0.4911 mg/L	0.4911 mg/L	02:15:24
2	Cu 324.752†	95636.3	91917.3	0.4991 mg/L	0.4991 mg/L	02:15:24
2	Mg 279.077†	59833.4	60508.0	4.902 mg/L	4.902 mg/L	02:15:24
2	Mn 257.610†	396022.8	384438.3	0.4957 mg/L	0.4957 mg/L	02:15:24
2	Mn 294.920†	184648.5	188073.3	0.4920 mg/L	0.4920 mg/L	02:15:24
2	Mo 202.031†	11357.5	11450.3	0.4859 mg/L	0.4859 mg/L	02:15:35
2	Ni 231.604†	21668.7	21756.2	0.4873 mg/L	0.4873 mg/L	02:15:24
2	P 214.914†	7495.1	7607.1	4.803 mg/L	4.803 mg/L	02:15:35
2	Pb 220.353†	7045.0	6942.7	0.4904 mg/L	0.4904 mg/L	02:15:35
2	Sb 206.836†	1070.2	1034.5	0.4878 mg/L	0.4878 mg/L	02:15:35
2	Se 196.026†	1413.0	1418.1	0.9765 mg/L	0.9765 mg/L	02:15:35
2	Sn 189.927†	3324.3	3332.7	0.4949 mg/L	0.4949 mg/L	02:15:35
2	Ti 337.279†	414036.3	419348.2	0.4944 mg/L	0.4944 mg/L	02:15:24
2	Tl 190.801†	495.1	505.6	0.4890 mg/L	0.4890 mg/L	02:15:35
2	V 292.402†	106391.6	107945.6	0.5030 mg/L	0.5030 mg/L	02:15:24
2	Zn 213.857†	67034.0	66648.3	0.4890 mg/L	0.4890 mg/L	02:15:24

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2677291.6	0.991 mg/L	0.0034			0.34%
Ag 328.068†	44809.4	0.2502 mg/L	0.00044	0.2502 mg/L	0.00044	0.17%
	QC value within limits for Ag 328.068	Recovery = 100.10%				
Al 237.313†	22194.1	2.471 mg/L	0.0010	2.471 mg/L	0.0010	0.04%
	QC value within limits for Al 237.313	Recovery = 98.86%				
As 188.979†	667.6	0.4895 mg/L	0.00412	0.4895 mg/L	0.00412	0.84%
	QC value within limits for As 188.979	Recovery = 97.91%				
B 249.677†	848.2	0.4740 mg/L	0.00485	0.4740 mg/L	0.00485	1.02%
	QC value within limits for B 249.677	Recovery = 94.80%				
B 182.528†	463.3	0.4972 mg/L	0.00429	0.4972 mg/L	0.00429	0.86%
	QC value within limits for B 182.528	Recovery = 99.44%				
Ba 233.527†	56098.7	0.4919 mg/L	0.00126	0.4919 mg/L	0.00126	0.26%
	QC value within limits for Ba 233.527	Recovery = 98.38%				
Be 313.107†	110376.4	0.0489 mg/L	0.00001	0.0489 mg/L	0.00001	0.03%
	QC value within limits for Be 313.107	Recovery = 97.71%				
Ca 315.887†	438826.4	4.820 mg/L	0.0116	4.820 mg/L	0.0116	0.24%
	QC value within limits for Ca 315.887	Recovery = 96.40%				
Cd 228.802†	7843.8	0.2459 mg/L	0.00048	0.2459 mg/L	0.00048	0.19%
	QC value within limits for Cd 228.802	Recovery = 98.36%				
Co 228.616†	24292.9	0.4853 mg/L	0.00158	0.4853 mg/L	0.00158	0.32%
	QC value within limits for Co 228.616	Recovery = 97.05%				
Cr 267.716†	55967.1	0.4916 mg/L	0.00077	0.4916 mg/L	0.00077	0.16%
	QC value within limits for Cr 267.716	Recovery = 98.32%				
Cu 324.752†	91922.2	0.4992 mg/L	0.00004	0.4992 mg/L	0.00004	0.01%
	QC value within limits for Cu 324.752	Recovery = 99.83%				
Fe 234.349†	3657.1	2.434 mg/L	0.0068	2.434 mg/L	0.0068	0.28%
	QC value within limits for Fe 234.349	Recovery = 97.37%				
K 766.490†	45091.1	24.75 mg/L	0.107	24.75 mg/L	0.107	0.43%
	QC value within limits for K 766.490	Recovery = 98.99%				
Li 670.784†	17935.8	0.4974 mg/L	0.00367	0.4974 mg/L	0.00367	0.74%
	QC value within limits for Li 670.784	Recovery = 99.49%				
Mg 279.077†	60557.6	4.906 mg/L	0.0057	4.906 mg/L	0.0057	0.12%

QC value within limits for Mg	279.077	Recovery =	98.12%				
Mn 257.610†	384906.5	0.4963 mg/L	0.00085	0.4963 mg/L	0.00085	0.17%	
QC value within limits for Mn	257.610	Recovery =	99.27%				
Mn 294.920†	188417.6	0.4929 mg/L	0.00127	0.4929 mg/L	0.00127	0.26%	
QC value within limits for Mn	294.920	Recovery =	98.58%				
Mo 202.031†	11438.0	0.4853 mg/L	0.00074	0.4853 mg/L	0.00074	0.15%	
QC value within limits for Mo	202.031	Recovery =	97.07%				
Na 589.592†	135322.2	24.73 mg/L	0.046	24.73 mg/L	0.046	0.19%	
QC value within limits for Na	589.592	Recovery =	98.94%				
Ni 231.604†	21819.4	0.4888 mg/L	0.00199	0.4888 mg/L	0.00199	0.41%	
QC value within limits for Ni	231.604	Recovery =	97.75%				
P 214.914†	7600.1	4.798 mg/L	0.0062	4.798 mg/L	0.0062	0.13%	
QC value within limits for P	214.914	Recovery =	95.97%				
Pb 220.353†	6911.0	0.4881 mg/L	0.00316	0.4881 mg/L	0.00316	0.65%	
QC value within limits for Pb	220.353	Recovery =	97.62%				
Sb 206.836†	1032.2	0.4867 mg/L	0.00155	0.4867 mg/L	0.00155	0.32%	
QC value within limits for Sb	206.836	Recovery =	97.34%				
Se 196.026†	1420.3	0.9780 mg/L	0.00212	0.9780 mg/L	0.00212	0.22%	
QC value within limits for Se	196.026	Recovery =	97.80%				
Sn 189.927†	3339.1	0.4958 mg/L	0.00133	0.4958 mg/L	0.00133	0.27%	
QC value within limits for Sn	189.927	Recovery =	99.16%				
Sr 407.771†	41048.0	0.0482 mg/L	0.00031	0.0482 mg/L	0.00031	0.63%	
QC value within limits for Sr	407.771	Recovery =	96.46%				
Ti 337.279†	419839.5	0.4949 mg/L	0.00081	0.4949 mg/L	0.00081	0.16%	
QC value within limits for Ti	337.279	Recovery =	98.99%				
Tl 190.801†	503.3	0.4868 mg/L	0.00312	0.4868 mg/L	0.00312	0.64%	
QC value within limits for Tl	190.801	Recovery =	97.37%				
V 292.402†	107997.9	0.5032 mg/L	0.00033	0.5032 mg/L	0.00033	0.06%	
QC value within limits for V	292.402	Recovery =	100.64%				
Zn 213.857†	66836.7	0.4903 mg/L	0.00195	0.4903 mg/L	0.00195	0.40%	
QC value within limits for Zn	213.857	Recovery =	98.07%				

All analyte(s) passed QC.

Sequence No.: 180

Sample ID: CCB1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 7/6/2013 2:17:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	12.6	19.1	0.0119 mg/L	0.0119 mg/L	02:19:02
1	Fe 234.349†	21.8	15.1	0.0206 mg/L	0.0206 mg/L	02:19:02
1	K 766.490†	842.0	25.0	0.1880 mg/L	0.1880 mg/L	02:18:52
1	Li 670.784†	-349.5	-114.2	0.0013 mg/L	0.0013 mg/L	02:18:52
1	Na 589.592†	215.8	-263.7	0.0653 mg/L	0.0653 mg/L	02:18:52
1	Sr 407.771†	92.3	21.9	0.0004 mg/L	0.0004 mg/L	02:18:52
1	Y 371.029	2698068.1	2698068.1	0.999 mg/L		02:19:18
1	Ag 328.068†	1801.8	-61.4	0.0014 mg/L	0.0014 mg/L	02:19:20
1	Al 237.313†	-416.4	13.6	0.0149 mg/L	0.0149 mg/L	02:19:20
1	As 188.979†	-2.1	4.6	0.0077 mg/L	0.0077 mg/L	02:19:30
1	B 182.528†	-4.2	5.4	0.0056 mg/L	0.0056 mg/L	02:19:30
1	Ba 233.527†	-77.7	19.3	0.0033 mg/L	0.0033 mg/L	02:19:30
1	Be 313.107†	-1258.7	177.9	0.0005 mg/L	0.0005 mg/L	02:19:20
1	Ca 315.887†	-1591.7	282.1	0.0390 mg/L	0.0390 mg/L	02:19:20
1	Cd 228.802†	164.4	5.6	0.0012 mg/L	0.0012 mg/L	02:19:30
1	Co 228.616†	-250.7	-9.1	-0.0002 mg/L	-0.0002 mg/L	02:19:30
1	Cr 267.716†	517.6	-48.1	0.0030 mg/L	0.0030 mg/L	02:19:20
1	Cu 324.752†	5313.7	516.6	0.0072 mg/L	0.0072 mg/L	02:19:20
1	Mg 279.077†	101.2	97.8	0.0331 mg/L	0.0331 mg/L	02:19:20
1	Mn 257.610†	15485.6	-569.9	0.0010 mg/L	0.0010 mg/L	02:19:20
1	Mn 294.920†	-1193.8	137.2	0.0019 mg/L	0.0019 mg/L	02:19:20
1	Mo 202.031†	58.9	23.1	0.0035 mg/L	0.0035 mg/L	02:19:30
1	Ni 231.604†	141.5	-16.4	0.0013 mg/L	0.0013 mg/L	02:19:20
1	P 214.914†	-33.1	-6.0	0.0431 mg/L	0.0431 mg/L	02:19:30
1	Pb 220.353†	182.0	0.1	-0.0001 mg/L	-0.0001 mg/L	02:19:30
1	Sb 206.836†	43.1	-4.7	0.0020 mg/L	0.0020 mg/L	02:19:30
1	Se 196.026†	17.1	6.2	0.0093 mg/L	0.0093 mg/L	02:19:30
1	Sn 189.927†	39.8	10.6	0.0002 mg/L	0.0002 mg/L	02:19:30
1	Ti 337.279†	-579.2	40.0	0.0049 mg/L	0.0049 mg/L	02:19:20

1	Tl 190.801†	-9.4	-4.6	-0.0034 mg/L	-0.0034 mg/L	02:19:30
1	V 292.402†	-336.0	11.9	0.0046 mg/L	0.0046 mg/L	02:19:20
1	Zn 213.857†	1479.6	335.8	0.0051 mg/L	0.0051 mg/L	02:19:30
2	B 249.677†	4.9	11.4	0.0076 mg/L	0.0076 mg/L	02:19:14
2	Fe 234.349†	31.5	24.9	0.0272 mg/L	0.0272 mg/L	02:19:14
2	K 766.490†	837.4	24.6	0.1877 mg/L	0.1877 mg/L	02:19:04
2	Li 670.784†	-306.4	-72.6	0.0025 mg/L	0.0025 mg/L	02:19:04
2	Na 589.592†	133.4	-345.5	0.0504 mg/L	0.0504 mg/L	02:19:04
2	Sr 407.771†	10.8	-59.7	0.0003 mg/L	0.0003 mg/L	02:19:04
2	Y 371.029	2684956.1	2684956.1	0.994 mg/L		02:19:32
2	Ag 328.068†	1766.5	-88.1	0.0013 mg/L	0.0013 mg/L	02:19:35
2	Al 237.313†	-358.9	69.4	0.0210 mg/L	0.0210 mg/L	02:19:35
2	As 188.979†	-4.3	2.3	0.0060 mg/L	0.0060 mg/L	02:19:45
2	B 182.528†	-7.2	2.3	0.0024 mg/L	0.0024 mg/L	02:19:45
2	Ba 233.527†	-75.4	21.1	0.0033 mg/L	0.0033 mg/L	02:19:45
2	Be 313.107†	-1214.4	216.3	0.0005 mg/L	0.0005 mg/L	02:19:35
2	Ca 315.887†	-1523.3	343.1	0.0397 mg/L	0.0397 mg/L	02:19:35
2	Cd 228.802†	167.5	9.5	0.0013 mg/L	0.0013 mg/L	02:19:45
2	Co 228.616†	-228.4	12.0	0.0002 mg/L	0.0002 mg/L	02:19:45
2	Cr 267.716†	566.0	3.1	0.0034 mg/L	0.0034 mg/L	02:19:35
2	Cu 324.752†	5256.0	484.6	0.0070 mg/L	0.0070 mg/L	02:19:35
2	Mg 279.077†	67.8	64.8	0.0304 mg/L	0.0304 mg/L	02:19:35
2	Mn 257.610†	15237.7	-743.6	0.0007 mg/L	0.0007 mg/L	02:19:35
2	Mn 294.920†	-1025.0	301.1	0.0023 mg/L	0.0023 mg/L	02:19:35
2	Mo 202.031†	77.1	41.6	0.0042 mg/L	0.0042 mg/L	02:19:45
2	Ni 231.604†	186.9	30.0	0.0023 mg/L	0.0023 mg/L	02:19:35
2	P 214.914†	-24.7	2.2	0.0482 mg/L	0.0482 mg/L	02:19:45
2	Pb 220.353†	205.5	24.6	0.0016 mg/L	0.0016 mg/L	02:19:45
2	Sb 206.836†	56.8	9.3	0.0086 mg/L	0.0086 mg/L	02:19:45
2	Se 196.026†	20.9	10.1	0.0120 mg/L	0.0120 mg/L	02:19:45
2	Sn 189.927†	32.1	2.9	-0.0010 mg/L	-0.0010 mg/L	02:19:45
2	Ti 337.279†	-293.2	324.9	0.0053 mg/L	0.0053 mg/L	02:19:35
2	Tl 190.801†	-7.7	-3.0	-0.0017 mg/L	-0.0017 mg/L	02:19:45
2	V 292.402†	-312.6	33.8	0.0047 mg/L	0.0047 mg/L	02:19:35
2	Zn 213.857†	1448.0	311.2	0.0050 mg/L	0.0050 mg/L	02:19:45

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2691512.1	0.996 mg/L	0.0034			0.34%
Ag 328.068†	-74.7	0.0014 mg/L	0.00010	0.0014 mg/L	0.00010	7.69%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	41.5	0.0179 mg/L	0.00437	0.0179 mg/L	0.00437	24.35%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	3.4	0.0069 mg/L	0.00118	0.0069 mg/L	0.00118	17.16%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	15.2	0.0097 mg/L	0.00302	0.0097 mg/L	0.00302	31.00%
QC value within limits for B 249.677 Recovery = Not calculated						
B 182.528†	3.8	0.0040 mg/L	0.00231	0.0040 mg/L	0.00231	57.57%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	20.2	0.0033 mg/L	0.00001	0.0033 mg/L	0.00001	0.35%
QC value greater than the upper limit for Ba 233.527 Recovery = Not calculated						
Be 313.107†	197.1	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.55%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.887†	312.6	0.0393 mg/L	0.00047	0.0393 mg/L	0.00047	1.19%
QC value greater than the upper limit for Ca 315.887 Recovery = Not calculated						
Cd 228.802†	7.5	0.0012 mg/L	0.00009	0.0012 mg/L	0.00009	7.01%
QC value greater than the upper limit for Cd 228.802 Recovery = Not calculated						
Co 228.616†	1.4	0.0000 mg/L	0.00030	0.0000 mg/L	0.00030	806.82%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-22.5	0.0032 mg/L	0.00032	0.0032 mg/L	0.00032	9.90%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	500.6	0.0071 mg/L	0.00012	0.0071 mg/L	0.00012	1.72%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	20.0	0.0239 mg/L	0.00463	0.0239 mg/L	0.00463	19.38%
QC value greater than the upper limit for Fe 234.349 Recovery = Not calculated						
K 766.490†	24.8	0.1878 mg/L	0.00017	0.1878 mg/L	0.00017	0.09%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-93.4	0.0019 mg/L	0.00081	0.0019 mg/L	0.00081	43.01%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	81.3	0.0317 mg/L	0.00188	0.0317 mg/L	0.00188	5.94%
QC value greater than the upper limit for Mg 279.077 Recovery = Not calculated						

Mn	257.610†	-656.8	0.0008 mg/L	0.00016	0.0008 mg/L	0.00016	18.90%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mn	294.920†	219.2	0.0021 mg/L	0.00030	0.0021 mg/L	0.00030	14.49%
	QC value within limits for Mn 294.920 Recovery = Not calculated						
Mo	202.031†	32.4	0.0039 mg/L	0.00056	0.0039 mg/L	0.00056	14.47%
	QC value greater than the upper limit for Mo 202.031 Recovery = Not calculated						
Na	589.592†	-304.6	0.0578 mg/L	0.01053	0.0578 mg/L	0.01053	18.21%
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni	231.604†	6.8	0.0018 mg/L	0.00073	0.0018 mg/L	0.00073	41.12%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
P	214.914†	-1.9	0.0457 mg/L	0.00365	0.0457 mg/L	0.00365	7.98%
	QC value greater than the upper limit for P 214.914 Recovery = Not calculated						
Pb	220.353†	12.3	0.0007 mg/L	0.00123	0.0007 mg/L	0.00123	169.11%
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb	206.836†	2.3	0.0053 mg/L	0.00462	0.0053 mg/L	0.00462	87.39%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	8.2	0.0106 mg/L	0.00191	0.0106 mg/L	0.00191	17.98%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn	189.927†	6.8	-0.0004 mg/L	0.00080	-0.0004 mg/L	0.00080	205.24%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	-18.9	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	19.47%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	182.4	0.0051 mg/L	0.00024	0.0051 mg/L	0.00024	4.60%
	QC value greater than the upper limit for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	-3.8	-0.0026 mg/L	0.00115	-0.0026 mg/L	0.00115	44.98%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V	292.402†	22.8	0.0047 mg/L	0.00008	0.0047 mg/L	0.00008	1.69%
	QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn	213.857†	323.5	0.0050 mg/L	0.00013	0.0050 mg/L	0.00013	2.64%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 181
Sample ID: CF30511-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 152
Date Collected: 7/6/2013 2:21:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30511-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	B 249.677†	13.8	20.0	0.0124 mg/L		0.0124 mg/L	02:23:05
1	Fe 234.349†	243815.3	238774.2	159.2 mg/L		159.2 mg/L	02:23:02
1	K 766.490†	12209.3	11139.4	6.245 mg/L		6.245 mg/L	02:23:05
1	Li 670.784†	5787.8	5903.9	0.1667 mg/L		0.1667 mg/L	02:23:05
1	Na 589.592†	4245.0	3677.6	0.7824 mg/L		0.7824 mg/L	02:23:05
1	Sr 407.771†	225779.6	221047.1	0.2581 mg/L		0.2581 mg/L	02:23:02
1	Y 371.029	2757983.1	2757983.1	1.02 mg/L			02:23:14
1	Ag 328.068†	1329.9	-562.7	0.0027 mg/L		0.0027 mg/L	02:23:16
1	Al 237.313†	628742.2	616190.2	68.21 mg/L		68.21 mg/L	02:23:14
1	As 188.979†	145.5	149.1	0.1126 mg/L		0.1126 mg/L	02:23:26
1	B 182.528†	20.9	30.1	0.0322 mg/L		0.0322 mg/L	02:23:26
1	Ba 233.527†	72314.8	70918.6	0.6210 mg/L		0.6210 mg/L	02:23:16
1	Be 313.107†	16858.2	17948.2	0.0074 mg/L		0.0074 mg/L	02:23:16
1	Ca 315.887†	1747634.1	1713424.1	18.71 mg/L		18.71 mg/L	02:23:14
1	Cd 228.802†	297.6	132.4	0.0024 mg/L		0.0024 mg/L	02:23:26
1	Co 228.616†	4054.8	4212.8	0.0766 mg/L		0.0766 mg/L	02:23:26
1	Cr 267.716†	26843.1	25722.6	0.2276 mg/L		0.2276 mg/L	02:23:16
1	Cu 324.752†	85184.0	78622.2	0.4316 mg/L		0.4316 mg/L	02:23:16
1	Mg 279.077†	249928.1	244764.0	19.75 mg/L		19.75 mg/L	02:23:14
1	Mn 257.610†	2177655.5	2116618.2	2.689 mg/L		2.689 mg/L	02:23:14
1	Mn 294.920†	1083843.9	1062796.7	2.773 mg/L		2.773 mg/L	02:23:14
1	Mo 202.031†	418.8	374.2	-0.0079 mg/L		-0.0079 mg/L	02:23:16
1	Ni 231.604†	28606.3	27857.6	0.6226 mg/L		0.6226 mg/L	02:23:16
1	P 214.914†	5282.6	5200.6	3.300 mg/L		3.300 mg/L	02:23:26
1	Pb 220.353†	20933.1	20318.8	1.418 mg/L		1.418 mg/L	02:23:16
1	Sb 206.836†	103.4	53.4	-0.0181 mg/L		-0.0181 mg/L	02:23:26
1	Se 196.026†	-17.3	-27.9	-0.0459 mg/L		-0.0459 mg/L	02:23:26
1	Sn 189.927†	-21.6	-50.4	0.0027 mg/L		0.0027 mg/L	02:23:26
1	Ti 337.279†	3159022.3	3094413.8	3.617 mg/L		3.617 mg/L	02:23:14
1	Tl 190.801†	-5.2	-0.3	-0.0954 mg/L		-0.0954 mg/L	02:23:26

1	V 292.402†	46258.5	45651.6	0.2053 mg/L	0.2053 mg/L	02:23:16
1	Zn 213.857†	184482.5	179527.9	1.312 mg/L	1.312 mg/L	02:23:16
2	B 249.677†	-3.3	3.3	0.0031 mg/L	0.0031 mg/L	02:23:09
2	Fe 234.349†	242268.6	235889.1	157.3 mg/L	157.3 mg/L	02:23:07
2	K 766.490†	12342.8	11200.2	6.278 mg/L	6.278 mg/L	02:23:09
2	Li 670.784†	5931.2	6010.8	0.1697 mg/L	0.1697 mg/L	02:23:09
2	Na 589.592†	4431.0	3834.7	0.8109 mg/L	0.8109 mg/L	02:23:09
2	Sr 407.771†	224441.0	218466.7	0.2551 mg/L	0.2551 mg/L	02:23:07
2	Y 371.029	2774004.0	2774004.0	1.03 mg/L	1.03 mg/L	02:23:29
2	Ag 328.068†	1324.5	-575.5	0.0026 mg/L	0.0026 mg/L	02:23:31
2	Al 237.313†	631838.2	615648.6	68.15 mg/L	68.15 mg/L	02:23:29
2	As 188.979†	138.9	141.9	0.1073 mg/L	0.1073 mg/L	02:23:42
2	B 182.528†	24.6	33.5	0.0359 mg/L	0.0359 mg/L	02:23:42
2	Ba 233.527†	73758.6	71915.4	0.6297 mg/L	0.6297 mg/L	02:23:31
2	Be 313.107†	17241.9	18226.4	0.0076 mg/L	0.0076 mg/L	02:23:31
2	Ca 315.887†	1755385.6	1711086.8	18.69 mg/L	18.69 mg/L	02:23:29
2	Cd 228.802†	306.9	139.8	0.0027 mg/L	0.0027 mg/L	02:23:42
2	Co 228.616†	4069.8	4204.5	0.0764 mg/L	0.0764 mg/L	02:23:42
2	Cr 267.716†	27348.9	26063.3	0.2306 mg/L	0.2306 mg/L	02:23:31
2	Cu 324.752†	86717.9	79633.9	0.4371 mg/L	0.4371 mg/L	02:23:31
2	Mg 279.077†	251214.4	244602.9	19.74 mg/L	19.74 mg/L	02:23:29
2	Mn 257.610†	2190857.9	2117156.2	2.690 mg/L	2.690 mg/L	02:23:29
2	Mn 294.920†	1090069.5	1062728.2	2.773 mg/L	2.773 mg/L	02:23:29
2	Mo 202.031†	403.8	357.3	-0.0083 mg/L	-0.0083 mg/L	02:23:31
2	Ni 231.604†	29072.1	28149.3	0.6291 mg/L	0.6291 mg/L	02:23:31
2	P 214.914†	5374.7	5260.4	3.337 mg/L	3.337 mg/L	02:23:42
2	Pb 220.353†	21329.4	20586.2	1.437 mg/L	1.437 mg/L	02:23:31
2	Sb 206.836†	102.1	51.6	-0.0184 mg/L	-0.0184 mg/L	02:23:42
2	Se 196.026†	-14.7	-25.2	-0.0437 mg/L	-0.0437 mg/L	02:23:42
2	Sn 189.927†	-43.1	-71.3	-0.0004 mg/L	-0.0004 mg/L	02:23:42
2	Ti 337.279†	3173904.6	3091036.8	3.613 mg/L	3.613 mg/L	02:23:29
2	Tl 190.801†	-6.3	-1.4	-0.0953 mg/L	-0.0953 mg/L	02:23:42
2	V 292.402†	47370.7	46473.0	0.2090 mg/L	0.2090 mg/L	02:23:31
2	Zn 213.857†	188479.0	182375.7	1.333 mg/L	1.333 mg/L	02:23:31

Mean Data: CF30511-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2765993.5	1.02	mg/L	0.004				0.41%
Ag 328.068†	-569.1	0.0026	mg/L	0.00008	0.0026	mg/L	0.00008	3.19%
Al 237.313†	615919.4	68.18	mg/L	0.042	68.18	mg/L	0.042	0.06%
As 188.979†	145.5	0.1100	mg/L	0.00372	0.1100	mg/L	0.00372	3.38%
B 249.677†	11.6	0.0078	mg/L	0.00658	0.0078	mg/L	0.00658	84.66%
B 182.528†	31.8	0.0340	mg/L	0.00262	0.0340	mg/L	0.00262	7.72%
Ba 233.527†	71417.0	0.6253	mg/L	0.00614	0.6253	mg/L	0.00614	0.98%
Be 313.107†	18087.3	0.0075	mg/L	0.00009	0.0075	mg/L	0.00009	1.17%
Ca 315.887†	1712255.4	18.70	mg/L	0.018	18.70	mg/L	0.018	0.10%
Cd 228.802†	136.1	0.0026	mg/L	0.00019	0.0026	mg/L	0.00019	7.29%
Co 228.616†	4208.7	0.0765	mg/L	0.00011	0.0765	mg/L	0.00011	0.15%
Cr 267.716†	25893.0	0.2291	mg/L	0.00210	0.2291	mg/L	0.00210	0.92%
Cu 324.752†	79128.1	0.4343	mg/L	0.00384	0.4343	mg/L	0.00384	0.89%
Fe 234.349†	237331.6	158.2	mg/L	1.36	158.2	mg/L	1.36	0.86%
K 766.490†	11169.8	6.262	mg/L	0.0235	6.262	mg/L	0.0235	0.37%
Li 670.784†	5957.3	0.1682	mg/L	0.00208	0.1682	mg/L	0.00208	1.24%
Mg 279.077†	244683.5	19.75	mg/L	0.009	19.75	mg/L	0.009	0.05%
Mn 257.610†	2116887.2	2.689	mg/L	0.0008	2.689	mg/L	0.0008	0.03%
Mn 294.920†	1062762.4	2.773	mg/L	0.0001	2.773	mg/L	0.0001	0.00%
Mo 202.031†	365.8	-0.0081	mg/L	0.00033	-0.0081	mg/L	0.00033	4.03%
Na 589.592†	3756.2	0.7966	mg/L	0.02021	0.7966	mg/L	0.02021	2.54%
Ni 231.604†	28003.5	0.6259	mg/L	0.00460	0.6259	mg/L	0.00460	0.73%
P 214.914†	5230.5	3.319	mg/L	0.0264	3.319	mg/L	0.0264	0.80%
Pb 220.353†	20452.5	1.427	mg/L	0.0133	1.427	mg/L	0.0133	0.93%
Sb 206.836†	52.5	-0.0183	mg/L	0.00022	-0.0183	mg/L	0.00022	1.23%
Se 196.026†	-26.5	-0.0448	mg/L	0.00158	-0.0448	mg/L	0.00158	3.52%
Sn 189.927†	-60.9	0.0011	mg/L	0.00220	0.0011	mg/L	0.00220	192.78%
Sr 407.771†	219756.9	0.2566	mg/L	0.00213	0.2566	mg/L	0.00213	0.83%
Ti 337.279†	3092725.3	3.615	mg/L	0.0028	3.615	mg/L	0.0028	0.08%
Tl 190.801†	-0.9	-0.0953	mg/L	0.00009	-0.0953	mg/L	0.00009	0.09%
V 292.402†	46062.3	0.2071	mg/L	0.00264	0.2071	mg/L	0.00264	1.27%
Zn 213.857†	180951.8	1.322	mg/L	0.0148	1.322	mg/L	0.0148	1.12%

Sequence No.: 182
 Sample ID: CF30511-MS1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 153
 Date Collected: 7/6/2013 2:25:18 AM
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CF30511-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	660.2	649.0	0.3630 mg/L	0.3630 mg/L	02:27:03
1	Fe 234.349†	247242.7	240596.7	160.4 mg/L	160.4 mg/L	02:27:01
1	K 766.490†	46482.7	44416.6	24.38 mg/L	24.38 mg/L	02:27:01
1	Li 670.784†	19745.2	19450.6	0.5391 mg/L	0.5391 mg/L	02:27:03
1	Na 589.592†	116629.3	113017.7	20.68 mg/L	20.68 mg/L	02:27:01
1	Sr 407.771†	318856.6	310223.8	0.3621 mg/L	0.3621 mg/L	02:27:01
1	Y 371.029	2775568.0	2775568.0	1.03 mg/L	1.03 mg/L	02:27:13
1	Ag 328.068†	34633.3	31838.2	0.1823 mg/L	0.1823 mg/L	02:27:13
1	Al 237.313†	590320.7	574899.2	63.64 mg/L	63.64 mg/L	02:27:13
1	As 188.979†	627.0	616.8	0.4524 mg/L	0.4524 mg/L	02:27:23
1	B 182.528†	362.2	362.0	0.3885 mg/L	0.3885 mg/L	02:27:23
1	Ba 233.527†	126705.8	123400.3	1.078 mg/L	1.078 mg/L	02:27:13
1	Be 313.107†	103621.0	102276.5	0.0446 mg/L	0.0446 mg/L	02:27:13
1	Ca 315.887†	2413404.2	2350472.5	25.65 mg/L	25.65 mg/L	02:27:13
1	Cd 228.802†	6291.7	5963.7	0.1845 mg/L	0.1845 mg/L	02:27:23
1	Co 228.616†	23461.3	23073.1	0.4548 mg/L	0.4548 mg/L	02:27:23
1	Cr 267.716†	57697.6	55582.0	0.4882 mg/L	0.4882 mg/L	02:27:13
1	Cu 324.752†	192527.2	182554.4	0.9901 mg/L	0.9901 mg/L	02:27:13
1	Mg 279.077†	257175.3	250266.0	20.20 mg/L	20.20 mg/L	02:27:13
1	Mn 257.610†	2364381.5	2284818.1	2.905 mg/L	2.905 mg/L	02:27:13
1	Mn 294.920†	1174883.4	1144666.5	2.987 mg/L	2.987 mg/L	02:27:13
1	Mo 202.031†	8902.6	8627.7	0.3395 mg/L	0.3395 mg/L	02:27:23
1	Ni 231.604†	25168.2	24334.3	0.5446 mg/L	0.5446 mg/L	02:27:13
1	P 214.914†	12486.5	12178.3	7.662 mg/L	7.662 mg/L	02:27:23
1	Pb 220.353†	24729.2	23883.0	1.671 mg/L	1.671 mg/L	02:27:23
1	Sb 206.836†	524.5	462.6	0.1741 mg/L	0.1741 mg/L	02:27:23
1	Se 196.026†	1010.1	972.0	0.6392 mg/L	0.6392 mg/L	02:27:23
1	Sn 189.927†	2654.2	2553.6	0.3924 mg/L	0.3924 mg/L	02:27:23
1	Ti 337.279†	2886403.1	2809514.1	3.284 mg/L	3.284 mg/L	02:27:13
1	Tl 190.801†	374.6	369.3	0.2617 mg/L	0.2617 mg/L	02:27:23
1	V 292.402†	131158.8	127985.1	0.5861 mg/L	0.5861 mg/L	02:27:13
1	Zn 213.857†	231225.0	223870.5	1.638 mg/L	1.638 mg/L	02:27:13
2	B 249.677†	665.1	665.1	0.3720 mg/L	0.3720 mg/L	02:27:07
2	Fe 234.349†	245398.1	243010.1	162.0 mg/L	162.0 mg/L	02:27:05
2	K 766.490†	46397.5	45129.4	24.77 mg/L	24.77 mg/L	02:27:05
2	Li 670.784†	19907.3	19949.7	0.5528 mg/L	0.5528 mg/L	02:27:07
2	Na 589.592†	116129.9	114523.3	20.95 mg/L	20.95 mg/L	02:27:05
2	Sr 407.771†	317346.6	314196.7	0.3667 mg/L	0.3667 mg/L	02:27:05
2	Y 371.029	2727501.9	2727501.9	1.01 mg/L	1.01 mg/L	02:27:27
2	Ag 328.068†	34138.7	31942.2	0.1830 mg/L	0.1830 mg/L	02:27:27
2	Al 237.313†	579759.2	574563.9	63.60 mg/L	63.60 mg/L	02:27:27
2	As 188.979†	619.6	620.3	0.4549 mg/L	0.4549 mg/L	02:27:37
2	B 182.528†	352.2	358.4	0.3845 mg/L	0.3845 mg/L	02:27:37
2	Ba 233.527†	124316.7	123207.4	1.077 mg/L	1.077 mg/L	02:27:27
2	Be 313.107†	101884.0	102333.4	0.0446 mg/L	0.0446 mg/L	02:27:27
2	Ca 315.887†	2369161.5	2348047.8	25.63 mg/L	25.63 mg/L	02:27:27
2	Cd 228.802†	6207.6	5988.4	0.1853 mg/L	0.1853 mg/L	02:27:37
2	Co 228.616†	23179.4	23196.2	0.4573 mg/L	0.4573 mg/L	02:27:37
2	Cr 267.716†	56905.2	55786.8	0.4899 mg/L	0.4899 mg/L	02:27:27
2	Cu 324.752†	189788.1	183143.6	0.9933 mg/L	0.9933 mg/L	02:27:27
2	Mg 279.077†	252407.0	249954.3	20.17 mg/L	20.17 mg/L	02:27:27
2	Mn 257.610†	2324712.4	2286082.0	2.906 mg/L	2.906 mg/L	02:27:27
2	Mn 294.920†	1155063.5	1145187.6	2.988 mg/L	2.988 mg/L	02:27:27
2	Mo 202.031†	8832.1	8710.5	0.3428 mg/L	0.3428 mg/L	02:27:37
2	Ni 231.604†	24780.9	24382.3	0.5457 mg/L	0.5457 mg/L	02:27:27
2	P 214.914†	12339.4	12246.8	7.705 mg/L	7.705 mg/L	02:27:37
2	Pb 220.353†	24446.5	24027.2	1.681 mg/L	1.681 mg/L	02:27:37
2	Sb 206.836†	523.1	470.1	0.1772 mg/L	0.1772 mg/L	02:27:37
2	Se 196.026†	995.3	974.7	0.6407 mg/L	0.6407 mg/L	02:27:37
2	Sn 189.927†	2618.0	2563.3	0.3939 mg/L	0.3939 mg/L	02:27:37
2	Ti 337.279†	2840858.7	2813912.2	3.289 mg/L	3.289 mg/L	02:27:27
2	Tl 190.801†	374.0	375.2	0.2664 mg/L	0.2664 mg/L	02:27:37
2	V 292.402†	128856.2	127954.2	0.5860 mg/L	0.5860 mg/L	02:27:27

Mean Data: CF30511-MS1

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Units	Conc.		
Y 371.029	2751534.9	1.02	mg/L	0.013				1.24%
Ag 328.068†	31890.2	0.1826	mg/L	0.00044	0.1826	mg/L	0.00044	0.24%
Al 237.313†	574731.5	63.62	mg/L	0.026	63.62	mg/L	0.026	0.04%
As 188.979†	618.5	0.4537	mg/L	0.00180	0.4537	mg/L	0.00180	0.40%
B 249.677†	657.1	0.3675	mg/L	0.00635	0.3675	mg/L	0.00635	1.73%
B 182.528†	360.2	0.3865	mg/L	0.00277	0.3865	mg/L	0.00277	0.72%
Ba 233.527†	123303.9	1.077	mg/L	0.0012	1.077	mg/L	0.0012	0.11%
Be 313.107†	102304.9	0.0446	mg/L	0.00002	0.0446	mg/L	0.00002	0.04%
Ca 315.887†	2349260.1	25.64	mg/L	0.019	25.64	mg/L	0.019	0.07%
Cd 228.802†	5976.0	0.1849	mg/L	0.00053	0.1849	mg/L	0.00053	0.28%
Co 228.616†	23134.6	0.4560	mg/L	0.00174	0.4560	mg/L	0.00174	0.38%
Cr 267.716†	55684.4	0.4891	mg/L	0.00126	0.4891	mg/L	0.00126	0.26%
Cu 324.752†	182849.0	0.9917	mg/L	0.00224	0.9917	mg/L	0.00224	0.23%
Fe 234.349†	241803.4	161.2	mg/L	1.14	161.2	mg/L	1.14	0.71%
K 766.490†	44773.0	24.58	mg/L	0.275	24.58	mg/L	0.275	1.12%
Li 670.784†	19700.1	0.5459	mg/L	0.00970	0.5459	mg/L	0.00970	1.78%
Mg 279.077†	250110.1	20.18	mg/L	0.018	20.18	mg/L	0.018	0.09%
Mn 257.610†	2285450.0	2.906	mg/L	0.0009	2.906	mg/L	0.0009	0.03%
Mn 294.920†	1144927.1	2.987	mg/L	0.0010	2.987	mg/L	0.0010	0.03%
Mo 202.031†	8669.1	0.3411	mg/L	0.00231	0.3411	mg/L	0.00231	0.68%
Na 589.592†	113770.5	20.81	mg/L	0.194	20.81	mg/L	0.194	0.93%
Ni 231.604†	24358.3	0.5452	mg/L	0.00076	0.5452	mg/L	0.00076	0.14%
P 214.914†	12212.5	7.683	mg/L	0.0303	7.683	mg/L	0.0303	0.39%
Pb 220.353†	23955.1	1.676	mg/L	0.0072	1.676	mg/L	0.0072	0.43%
Sb 206.836†	466.4	0.1756	mg/L	0.00219	0.1756	mg/L	0.00219	1.25%
Se 196.026†	973.4	0.6399	mg/L	0.00107	0.6399	mg/L	0.00107	0.17%
Sn 189.927†	2558.5	0.3931	mg/L	0.00101	0.3931	mg/L	0.00101	0.26%
Sr 407.771†	312210.2	0.3644	mg/L	0.00328	0.3644	mg/L	0.00328	0.90%
Ti 337.279†	2811713.2	3.287	mg/L	0.0036	3.287	mg/L	0.0036	0.11%
Tl 190.801†	372.3	0.2641	mg/L	0.00336	0.2641	mg/L	0.00336	1.27%
V 292.402†	127969.6	0.5861	mg/L	0.00007	0.5861	mg/L	0.00007	0.01%
Zn 213.857†	223904.0	1.638	mg/L	0.0003	1.638	mg/L	0.0003	0.02%

Sequence No.: 183

Sample ID: CF30511-SD1 @5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 154

Date Collected: 7/6/2013 2:29:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30511-SD1 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-5.0	1.4	0.0021	mg/L	0.0021	mg/L	02:31:04
1	Fe 234.349†	98282.4	98477.5	65.67	mg/L	65.67	mg/L	02:30:54
1	K 766.490†	3577.1	2766.6	1.682	mg/L	1.682	mg/L	02:30:54
1	Li 670.784†	979.9	1217.5	0.0379	mg/L	0.0379	mg/L	02:30:54
1	Na 589.592†	1680.0	1203.7	0.3322	mg/L	0.3322	mg/L	02:30:54
1	Sr 407.771†	62408.8	62466.4	0.0732	mg/L	0.0732	mg/L	02:30:54
1	Y 371.029	2695499.4	2695499.4	0.998	mg/L			02:31:21
1	Ag 328.068†	1508.8	-353.3	0.0015	mg/L	0.0015	mg/L	02:31:24
1	Al 237.313†	153799.6	154545.9	17.12	mg/L	17.12	mg/L	02:31:21
1	As 188.979†	39.4	46.1	0.0379	mg/L	0.0379	mg/L	02:31:34
1	B 182.528†	6.6	16.2	0.0172	mg/L	0.0172	mg/L	02:31:34
1	Ba 233.527†	18608.2	18743.4	0.1664	mg/L	0.1664	mg/L	02:31:24
1	Be 313.107†	3714.4	5160.0	0.0024	mg/L	0.0024	mg/L	02:31:24
1	Ca 315.887†	459269.8	462088.6	5.072	mg/L	5.072	mg/L	02:31:21
1	Cd 228.802†	187.0	28.3	0.0008	mg/L	0.0008	mg/L	02:31:34
1	Co 228.616†	879.2	1122.8	0.0206	mg/L	0.0206	mg/L	02:31:34
1	Cr 267.716†	5181.4	4625.8	0.0437	mg/L	0.0437	mg/L	02:31:24
1	Cu 324.752†	32069.4	27332.3	0.1525	mg/L	0.1525	mg/L	02:31:24
1	Mg 279.077†	59406.6	59525.2	4.823	mg/L	4.823	mg/L	02:31:24
1	Mn 257.610†	592802.0	577946.9	0.7304	mg/L	0.7304	mg/L	02:31:21
1	Mn 294.920†	290717.0	292646.4	0.7647	mg/L	0.7647	mg/L	02:31:21
1	Mo 202.031†	198.2	162.7	-0.0013	mg/L	-0.0013	mg/L	02:31:24
1	Ni 231.604†	2792.5	2640.1	0.0605	mg/L	0.0605	mg/L	02:31:24

1	P 214.914†	1417.8	1447.8	0.9522 mg/L	0.9522 mg/L	02:31:34
1	Pb 220.353†	10762.1	10602.1	0.7436 mg/L	0.7436 mg/L	02:31:24
1	Sb 206.836†	71.6	23.9	-0.0037 mg/L	-0.0037 mg/L	02:31:34
1	Se 196.026†	8.6	-2.3	-0.0096 mg/L	-0.0096 mg/L	02:31:34
1	Sn 189.927†	22.5	-6.8	0.0007 mg/L	0.0007 mg/L	02:31:34
1	Ti 337.279†	740337.5	742477.9	0.8715 mg/L	0.8715 mg/L	02:31:21
1	Tl 190.801†	-7.0	-2.2	-0.0406 mg/L	-0.0406 mg/L	02:31:34
1	V 292.402†	12997.6	13372.6	0.0636 mg/L	0.0636 mg/L	02:31:24
1	Zn 213.857†	62365.0	61347.7	0.4505 mg/L	0.4505 mg/L	02:31:24
2	B 249.677†	0.2	6.7	0.0050 mg/L	0.0050 mg/L	02:31:17
2	Fe 234.349†	95585.5	96471.0	64.33 mg/L	64.33 mg/L	02:31:07
2	K 766.490†	3656.0	2872.2	1.740 mg/L	1.740 mg/L	02:31:07
2	Li 670.784†	961.4	1206.0	0.0376 mg/L	0.0376 mg/L	02:31:07
2	Na 589.592†	1563.8	1098.7	0.3131 mg/L	0.3131 mg/L	02:31:07
2	Sr 407.771†	60824.2	61321.4	0.0719 mg/L	0.0719 mg/L	02:31:07
2	Y 371.029	2676054.2	2676054.2	0.991 mg/L	0.991 mg/L	02:31:37
2	Ag 328.068†	1558.9	-291.7	0.0018 mg/L	0.0018 mg/L	02:31:39
2	Al 237.313†	147221.2	149025.9	16.51 mg/L	16.51 mg/L	02:31:37
2	As 188.979†	46.0	53.1	0.0429 mg/L	0.0429 mg/L	02:31:49
2	B 182.528†	3.0	12.6	0.0134 mg/L	0.0134 mg/L	02:31:49
2	Ba 233.527†	18228.9	18496.1	0.1643 mg/L	0.1643 mg/L	02:31:39
2	Be 313.107†	3645.6	5117.6	0.0024 mg/L	0.0024 mg/L	02:31:39
2	Ca 315.887†	438128.9	444094.4	4.876 mg/L	4.876 mg/L	02:31:37
2	Cd 228.802†	194.0	36.8	0.0011 mg/L	0.0011 mg/L	02:31:49
2	Co 228.616†	825.8	1075.3	0.0197 mg/L	0.0197 mg/L	02:31:49
2	Cr 267.716†	5094.8	4576.1	0.0433 mg/L	0.0433 mg/L	02:31:39
2	Cu 324.752†	31602.9	27095.1	0.1511 mg/L	0.1511 mg/L	02:31:39
2	Mg 279.077†	58525.5	59068.4	4.786 mg/L	4.786 mg/L	02:31:39
2	Mn 257.610†	566894.6	556114.1	0.7026 mg/L	0.7026 mg/L	02:31:37
2	Mn 294.920†	277260.5	281181.0	0.7348 mg/L	0.7348 mg/L	02:31:37
2	Mo 202.031†	143.7	109.1	-0.0033 mg/L	-0.0033 mg/L	02:31:39
2	Ni 231.604†	2717.1	2584.5	0.0592 mg/L	0.0592 mg/L	02:31:39
2	P 214.914†	1354.1	1393.8	0.9184 mg/L	0.9184 mg/L	02:31:49
2	Pb 220.353†	10608.4	10525.3	0.7383 mg/L	0.7383 mg/L	02:31:39
2	Sb 206.836†	71.6	24.4	-0.0031 mg/L	-0.0031 mg/L	02:31:49
2	Se 196.026†	0.7	-10.2	-0.0148 mg/L	-0.0148 mg/L	02:31:49
2	Sn 189.927†	12.5	-16.7	-0.0009 mg/L	-0.0009 mg/L	02:31:49
2	Ti 337.279†	707322.5	714545.3	0.8389 mg/L	0.8389 mg/L	02:31:37
2	Tl 190.801†	-7.2	-2.4	-0.0400 mg/L	-0.0400 mg/L	02:31:49
2	V 292.402†	12789.7	13257.4	0.0631 mg/L	0.0631 mg/L	02:31:39
2	Zn 213.857†	61316.7	60743.7	0.4462 mg/L	0.4462 mg/L	02:31:39

Mean Data: CF30511-SD1 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2685776.8	0.994	mg/L	0.0051				0.51%
Ag 328.068†	-322.5	0.0016	mg/L	0.00022	0.0016	mg/L	0.00022	13.38%
Al 237.313†	151785.9	16.81	mg/L	0.432	16.81	mg/L	0.432	2.57%
As 188.979†	49.6	0.0404	mg/L	0.00358	0.0404	mg/L	0.00358	8.85%
B 249.677†	4.1	0.0036	mg/L	0.00208	0.0036	mg/L	0.00208	58.52%
B 182.528†	14.4	0.0153	mg/L	0.00271	0.0153	mg/L	0.00271	17.71%
Ba 233.527†	18619.7	0.1654	mg/L	0.00152	0.1654	mg/L	0.00152	0.92%
Be 313.107†	5138.8	0.0024	mg/L	0.00001	0.0024	mg/L	0.00001	0.31%
Ca 315.887†	453091.5	4.974	mg/L	0.1387	4.974	mg/L	0.1387	2.79%
Cd 228.802†	32.5	0.0009	mg/L	0.00020	0.0009	mg/L	0.00020	22.13%
Co 228.616†	1099.1	0.0202	mg/L	0.00062	0.0202	mg/L	0.00062	3.09%
Cr 267.716†	4601.0	0.0435	mg/L	0.00031	0.0435	mg/L	0.00031	0.71%
Cu 324.752†	27213.7	0.1518	mg/L	0.00093	0.1518	mg/L	0.00093	0.61%
Fe 234.349†	97474.2	65.00	mg/L	0.946	65.00	mg/L	0.946	1.46%
K 766.490†	2819.4	1.711	mg/L	0.0407	1.711	mg/L	0.0407	2.38%
Li 670.784†	1211.8	0.0378	mg/L	0.00022	0.0378	mg/L	0.00022	0.59%
Mg 279.077†	59296.8	4.805	mg/L	0.0261	4.805	mg/L	0.0261	0.54%
Mn 257.610†	567030.5	0.7165	mg/L	0.01965	0.7165	mg/L	0.01965	2.74%
Mn 294.920†	286913.7	0.7497	mg/L	0.02114	0.7497	mg/L	0.02114	2.82%
Mo 202.031†	135.9	-0.0023	mg/L	0.00146	-0.0023	mg/L	0.00146	63.47%
Na 589.592†	1151.2	0.3227	mg/L	0.01351	0.3227	mg/L	0.01351	4.19%
Ni 231.604†	2612.3	0.0599	mg/L	0.00088	0.0599	mg/L	0.00088	1.47%
P 214.914†	1420.8	0.9353	mg/L	0.02390	0.9353	mg/L	0.02390	2.55%
Pb 220.353†	10563.7	0.7409	mg/L	0.00374	0.7409	mg/L	0.00374	0.50%
Sb 206.836†	24.1	-0.0034	mg/L	0.00044	-0.0034	mg/L	0.00044	12.99%
Se 196.026†	-6.2	-0.0122	mg/L	0.00363	-0.0122	mg/L	0.00363	29.75%
Sn 189.927†	-11.7	-0.0001	mg/L	0.00112	-0.0001	mg/L	0.00112	>999.9%

Sr 407.771†	61893.9	0.0725 mg/L	0.00094	0.0725 mg/L	0.00094	1.30%
Ti 337.279†	728511.6	0.8552 mg/L	0.02305	0.8552 mg/L	0.02305	2.70%
Tl 190.801†	-2.3	-0.0403 mg/L	0.00041	-0.0403 mg/L	0.00041	1.01%
V 292.402†	13315.0	0.0634 mg/L	0.00035	0.0634 mg/L	0.00035	0.55%
Zn 213.857†	61045.7	0.4483 mg/L	0.00309	0.4483 mg/L	0.00309	0.69%

Sequence No.: 184
Sample ID: CF30511-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 155
Date Collected: 7/6/2013 2:33:25 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30511-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	793.5	793.0	0.4433 mg/L		0.4433 mg/L	02:35:08
1	Fe 234.349†	318145.8	315340.7	210.3 mg/L		210.3 mg/L	02:35:05
1	K 766.490†	54597.4	53299.4	29.22 mg/L		29.22 mg/L	02:35:08
1	Li 670.784†	22443.8	22482.0	0.6224 mg/L		0.6224 mg/L	02:35:08
1	Na 589.592†	138279.4	136583.4	24.96 mg/L		24.96 mg/L	02:35:05
1	Sr 407.771†	246918.9	244676.5	0.2857 mg/L		0.2857 mg/L	02:35:05
1	Y 371.029	2725003.2	2725003.2	1.01 mg/L			02:35:18
1	Ag 328.068†	42239.9	40003.2	0.2288 mg/L		0.2288 mg/L	02:35:18
1	Al 237.313†	565452.9	560909.9	62.09 mg/L		62.09 mg/L	02:35:18
1	As 188.979†	765.4	765.3	0.5604 mg/L		0.5604 mg/L	02:35:28
1	B 182.528†	451.8	457.4	0.4909 mg/L		0.4909 mg/L	02:35:28
1	Ba 233.527†	120018.5	119059.9	1.040 mg/L		1.040 mg/L	02:35:18
1	Be 313.107†	121202.4	121574.4	0.0531 mg/L		0.0531 mg/L	02:35:18
1	Ca 315.887†	2060362.7	2044116.4	22.32 mg/L		22.32 mg/L	02:35:18
1	Cd 228.802†	7673.3	7446.8	0.2300 mg/L		0.2300 mg/L	02:35:28
1	Co 228.616†	26708.2	26715.1	0.5273 mg/L		0.5273 mg/L	02:35:28
1	Cr 267.716†	70463.7	69277.7	0.6076 mg/L		0.6076 mg/L	02:35:18
1	Cu 324.752†	188299.2	181840.2	0.9864 mg/L		0.9864 mg/L	02:35:18
1	Mg 279.077†	262129.6	259820.6	20.97 mg/L		20.97 mg/L	02:35:18
1	Mn 257.610†	2368426.1	2331522.2	2.954 mg/L		2.954 mg/L	02:35:18
1	Mn 294.920†	1188330.6	1179211.0	3.077 mg/L		3.077 mg/L	02:35:18
1	Mo 202.031†	11421.6	11285.3	0.4450 mg/L		0.4450 mg/L	02:35:28
1	Ni 231.604†	29732.8	29313.2	0.6558 mg/L		0.6558 mg/L	02:35:18
1	P 214.914†	12139.3	12059.6	7.587 mg/L		7.587 mg/L	02:35:28
1	Pb 220.353†	43768.2	43201.1	3.033 mg/L		3.033 mg/L	02:35:18
1	Sb 206.836†	1100.1	1042.6	0.4311 mg/L		0.4311 mg/L	02:35:28
1	Se 196.026†	1265.4	1243.4	0.8152 mg/L		0.8152 mg/L	02:35:28
1	Sn 189.927†	3182.5	3125.2	0.4750 mg/L		0.4750 mg/L	02:35:28
1	Ti 337.279†	2994816.6	2969095.6	3.470 mg/L		3.470 mg/L	02:35:18
1	Tl 190.801†	461.7	462.4	0.3218 mg/L		0.3218 mg/L	02:35:28
1	V 292.402†	149130.7	148167.3	0.6794 mg/L		0.6794 mg/L	02:35:18
1	Zn 213.857†	275120.0	271554.7	1.986 mg/L		1.986 mg/L	02:35:18
2	B 249.677†	815.9	815.5	0.4558 mg/L		0.4558 mg/L	02:35:12
2	Fe 234.349†	319594.5	316904.3	211.3 mg/L		211.3 mg/L	02:35:10
2	K 766.490†	54744.6	53467.0	29.31 mg/L		29.31 mg/L	02:35:12
2	Li 670.784†	22589.0	22635.0	0.6266 mg/L		0.6266 mg/L	02:35:12
2	Na 589.592†	138981.9	137335.2	25.10 mg/L		25.10 mg/L	02:35:10
2	Sr 407.771†	247817.8	245666.4	0.2868 mg/L		0.2868 mg/L	02:35:10
2	Y 371.029	2723906.3	2723906.3	1.01 mg/L			02:35:32
2	Ag 328.068†	42262.4	40042.4	0.2291 mg/L		0.2291 mg/L	02:35:32
2	Al 237.313†	566437.8	562112.2	62.22 mg/L		62.22 mg/L	02:35:32
2	As 188.979†	773.1	773.2	0.5661 mg/L		0.5661 mg/L	02:35:42
2	B 182.528†	459.0	464.7	0.4987 mg/L		0.4987 mg/L	02:35:42
2	Ba 233.527†	119899.0	118989.3	1.040 mg/L		1.040 mg/L	02:35:32
2	Be 313.107†	120813.8	121237.4	0.0529 mg/L		0.0529 mg/L	02:35:32
2	Ca 315.887†	2067098.8	2051618.3	22.40 mg/L		22.40 mg/L	02:35:32
2	Cd 228.802†	7710.8	7487.0	0.2312 mg/L		0.2312 mg/L	02:35:42
2	Co 228.616†	26794.4	26811.2	0.5292 mg/L		0.5292 mg/L	02:35:42
2	Cr 267.716†	70456.6	69298.8	0.6078 mg/L		0.6078 mg/L	02:35:32
2	Cu 324.752†	188941.8	182552.5	0.9902 mg/L		0.9902 mg/L	02:35:32
2	Mg 279.077†	263034.3	260822.3	21.05 mg/L		21.05 mg/L	02:35:32
2	Mn 257.610†	2370829.0	2334850.2	2.958 mg/L		2.958 mg/L	02:35:32
2	Mn 294.920†	1190264.8	1181603.3	3.083 mg/L		3.083 mg/L	02:35:32
2	Mo 202.031†	11430.3	11298.4	0.4453 mg/L		0.4453 mg/L	02:35:42
2	Ni 231.604†	29695.5	29288.2	0.6552 mg/L		0.6552 mg/L	02:35:32
2	P 214.914†	12191.7	12116.4	7.622 mg/L		7.622 mg/L	02:35:42

2	Pb 220.353†	43727.1	43177.9	3.032 mg/L	3.032 mg/L	02:35:32
2	Sb 206.836†	1103.6	1046.5	0.4326 mg/L	0.4326 mg/L	02:35:42
2	Se 196.026†	1273.0	1251.4	0.8205 mg/L	0.8205 mg/L	02:35:42
2	Sn 189.927†	3201.8	3145.6	0.4780 mg/L	0.4780 mg/L	02:35:42
2	Ti 337.279†	2997193.9	2972648.3	3.475 mg/L	3.475 mg/L	02:35:32
2	Tl 190.801†	471.8	472.6	0.3311 mg/L	0.3311 mg/L	02:35:42
2	V 292.402†	149305.5	148400.2	0.6804 mg/L	0.6804 mg/L	02:35:32
2	Zn 213.857†	275413.8	271955.9	1.988 mg/L	1.988 mg/L	02:35:32

Mean Data: CF30511-PDS1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2724454.8	1.01 mg/L		0.000			0.03%
Ag 328.068†	40022.8	0.2290 mg/L		0.00017	0.2290 mg/L	0.00017	0.08%
Al 237.313†	561511.1	62.16 mg/L		0.094	62.16 mg/L	0.094	0.15%
As 188.979†	769.2	0.5633 mg/L		0.00409	0.5633 mg/L	0.00409	0.73%
B 249.677†	804.3	0.4496 mg/L		0.00887	0.4496 mg/L	0.00887	1.97%
B 182.528†	461.1	0.4948 mg/L		0.00555	0.4948 mg/L	0.00555	1.12%
Ba 233.527†	119024.6	1.040 mg/L		0.0004	1.040 mg/L	0.0004	0.04%
Be 313.107†	121405.9	0.0530 mg/L		0.00011	0.0530 mg/L	0.00011	0.20%
Ca 315.887†	2047867.4	22.36 mg/L		0.058	22.36 mg/L	0.058	0.26%
Cd 228.802†	7466.9	0.2306 mg/L		0.00088	0.2306 mg/L	0.00088	0.38%
Co 228.616†	26763.2	0.5283 mg/L		0.00135	0.5283 mg/L	0.00135	0.26%
Cr 267.716†	69288.1	0.6077 mg/L		0.00013	0.6077 mg/L	0.00013	0.02%
Cu 324.752†	182196.3	0.9883 mg/L		0.00271	0.9883 mg/L	0.00271	0.27%
Fe 234.349†	316122.5	210.8 mg/L		0.74	210.8 mg/L	0.74	0.35%
K 766.490†	53383.2	29.27 mg/L		0.065	29.27 mg/L	0.065	0.22%
Li 670.784†	22558.5	0.6245 mg/L		0.00297	0.6245 mg/L	0.00297	0.48%
Mg 279.077†	260321.5	21.01 mg/L		0.057	21.01 mg/L	0.057	0.27%
Mn 257.610†	2333186.2	2.956 mg/L		0.0029	2.956 mg/L	0.0029	0.10%
Mn 294.920†	1180407.1	3.080 mg/L		0.0044	3.080 mg/L	0.0044	0.14%
Mo 202.031†	11291.8	0.4452 mg/L		0.00027	0.4452 mg/L	0.00027	0.06%
Na 589.592†	136959.3	25.03 mg/L		0.097	25.03 mg/L	0.097	0.39%
Ni 231.604†	29300.7	0.6555 mg/L		0.00039	0.6555 mg/L	0.00039	0.06%
P 214.914†	12088.0	7.605 mg/L		0.0252	7.605 mg/L	0.0252	0.33%
Pb 220.353†	43189.5	3.033 mg/L		0.0012	3.033 mg/L	0.0012	0.04%
Sb 206.836†	1044.5	0.4318 mg/L		0.00110	0.4318 mg/L	0.00110	0.25%
Se 196.026†	1247.4	0.8178 mg/L		0.00377	0.8178 mg/L	0.00377	0.46%
Sn 189.927†	3135.4	0.4765 mg/L		0.00217	0.4765 mg/L	0.00217	0.46%
Sr 407.771†	245171.5	0.2862 mg/L		0.00082	0.2862 mg/L	0.00082	0.29%
Ti 337.279†	2970872.0	3.472 mg/L		0.0029	3.472 mg/L	0.0029	0.08%
Tl 190.801†	467.5	0.3264 mg/L		0.00660	0.3264 mg/L	0.00660	2.02%
V 292.402†	148283.8	0.6799 mg/L		0.00075	0.6799 mg/L	0.00075	0.11%
Zn 213.857†	271755.3	1.987 mg/L		0.0021	1.987 mg/L	0.0021	0.10%

Sequence No.: 185
Sample ID: 1307093-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 7/6/2013 2:38:50 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307093-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-24.9	-17.2	-0.0083 mg/L	-0.0083 mg/L	02:40:33
1	Fe 234.349†	188407.4	178803.4	119.2 mg/L	119.2 mg/L	02:40:31
1	K 766.490†	13878.3	12353.5	6.907 mg/L	6.907 mg/L	02:40:33
1	Li 670.784†	3295.1	3362.9	0.0969 mg/L	0.0969 mg/L	02:40:33
1	Na 589.592†	4353.1	3651.6	0.7776 mg/L	0.7776 mg/L	02:40:33
1	Sr 407.771†	152397.6	144564.1	0.1689 mg/L	0.1689 mg/L	02:40:31
1	Y 371.029	2846006.5	2846006.5	1.05 mg/L		02:40:42
1	Ag 328.068†	1138.9	-784.2	0.0004 mg/L	0.0004 mg/L	02:40:45
1	Al 237.313†	432549.9	410946.9	45.49 mg/L	45.49 mg/L	02:40:42
1	As 188.979†	91.4	93.4	0.0721 mg/L	0.0721 mg/L	02:40:55
1	B 182.528†	14.9	23.7	0.0254 mg/L	0.0254 mg/L	02:40:55
1	Ba 233.527†	64632.7	61437.5	0.5384 mg/L	0.5384 mg/L	02:40:45
1	Be 313.107†	13470.7	14222.5	0.0059 mg/L	0.0059 mg/L	02:40:45
1	Ca 315.887†	1739298.2	1652576.7	18.05 mg/L	18.05 mg/L	02:40:42
1	Cd 228.802†	242.2	70.8	0.0012 mg/L	0.0012 mg/L	02:40:55
1	Co 228.616†	2356.8	2478.5	0.0434 mg/L	0.0434 mg/L	02:40:55

1	Cr	267.716†	9653.6	8595.6	0.0783	mg/L	0.0783	mg/L	02:40:45
1	Cu	324.752†	60523.7	52637.8	0.2910	mg/L	0.2910	mg/L	02:40:45
1	Mg	279.077†	153479.4	145657.9	11.77	mg/L	11.77	mg/L	02:40:45
1	Mn	257.610†	1204503.3	1127075.3	1.425	mg/L	1.425	mg/L	02:40:42
1	Mn	294.920†	599587.9	570378.1	1.489	mg/L	1.489	mg/L	02:40:42
1	Mo	202.031†	485.5	424.8	0.0011	mg/L	0.0011	mg/L	02:40:45
1	Ni	231.604†	4939.5	4529.9	0.1026	mg/L	0.1026	mg/L	02:40:45
1	P	214.914†	4931.9	4707.8	2.993	mg/L	2.993	mg/L	02:40:55
1	Pb	220.353†	49647.7	46936.6	3.299	mg/L	3.299	mg/L	02:40:45
1	Sb	206.836†	95.6	42.9	-0.0103	mg/L	-0.0103	mg/L	02:40:55
1	Se	196.026†	-15.6	-25.7	-0.0364	mg/L	-0.0364	mg/L	02:40:55
1	Sn	189.927†	-76.3	-101.7	-0.0053	mg/L	-0.0053	mg/L	02:40:55
1	Ti	337.279†	2629446.9	2496126.9	2.918	mg/L	2.918	mg/L	02:40:42
1	Tl	190.801†	-7.6	-2.4	-0.0732	mg/L	-0.0732	mg/L	02:40:55
1	V	292.402†	39420.2	37760.5	0.1706	mg/L	0.1706	mg/L	02:40:45
1	Zn	213.857†	80064.8	74841.0	0.5469	mg/L	0.5469	mg/L	02:40:45
2	B	249.677†	0.6	7.1	0.0052	mg/L	0.0052	mg/L	02:40:38
2	Fe	234.349†	190097.4	180130.5	120.1	mg/L	120.1	mg/L	02:40:36
2	K	766.490†	14136.2	12577.7	7.029	mg/L	7.029	mg/L	02:40:38
2	Li	670.784†	3225.1	3291.7	0.0949	mg/L	0.0949	mg/L	02:40:38
2	Na	589.592†	4368.6	3660.0	0.7791	mg/L	0.7791	mg/L	02:40:38
2	Sr	407.771†	153484.8	145372.4	0.1699	mg/L	0.1699	mg/L	02:40:36
2	Y	371.029	2850381.5	2850381.5	1.06	mg/L			02:40:58
2	Ag	328.068†	1095.6	-826.9	0.0002	mg/L	0.0002	mg/L	02:41:00
2	Al	237.313†	440206.7	417572.4	46.22	mg/L	46.22	mg/L	02:40:58
2	As	188.979†	93.8	95.5	0.0736	mg/L	0.0736	mg/L	02:41:10
2	B	182.528†	15.6	24.3	0.0260	mg/L	0.0260	mg/L	02:41:10
2	Ba	233.527†	64595.8	61308.3	0.5373	mg/L	0.5373	mg/L	02:41:00
2	Be	313.107†	13358.8	14096.9	0.0059	mg/L	0.0059	mg/L	02:41:00
2	Ca	315.887†	1766399.5	1675724.4	18.30	mg/L	18.30	mg/L	02:40:58
2	Cd	228.802†	243.9	72.1	0.0012	mg/L	0.0012	mg/L	02:41:10
2	Co	228.616†	2338.7	2458.0	0.0428	mg/L	0.0428	mg/L	02:41:10
2	Cr	267.716†	9470.3	8407.9	0.0767	mg/L	0.0767	mg/L	02:41:00
2	Cu	324.752†	60534.0	52559.5	0.2907	mg/L	0.2907	mg/L	02:41:00
2	Mg	279.077†	153280.4	145245.9	11.73	mg/L	11.73	mg/L	02:41:00
2	Mn	257.610†	1225505.1	1145222.1	1.448	mg/L	1.448	mg/L	02:40:58
2	Mn	294.920†	610145.3	579509.0	1.513	mg/L	1.513	mg/L	02:40:58
2	Mo	202.031†	443.4	384.2	-0.0008	mg/L	-0.0008	mg/L	02:41:00
2	Ni	231.604†	4948.4	4531.1	0.1027	mg/L	0.1027	mg/L	02:41:00
2	P	214.914†	4932.3	4700.9	2.988	mg/L	2.988	mg/L	02:41:10
2	Pb	220.353†	49455.0	46681.7	3.280	mg/L	3.280	mg/L	02:41:00
2	Sb	206.836†	99.2	46.2	-0.0090	mg/L	-0.0090	mg/L	02:41:10
2	Se	196.026†	-11.0	-21.3	-0.0336	mg/L	-0.0336	mg/L	02:41:10
2	Sn	189.927†	-73.5	-99.0	-0.0047	mg/L	-0.0047	mg/L	02:41:10
2	Ti	337.279†	2674257.2	2534759.0	2.963	mg/L	2.963	mg/L	02:40:58
2	Tl	190.801†	-2.8	2.1	-0.0694	mg/L	-0.0694	mg/L	02:41:10
2	V	292.402†	39377.9	37663.0	0.1701	mg/L	0.1701	mg/L	02:41:00
2	Zn	213.857†	79609.5	74292.9	0.5429	mg/L	0.5429	mg/L	02:41:00

Mean Data: 1307093-02

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2848194.0	1.05	mg/L	0.001				0.11%
Ag 328.068†	-805.6	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	44.83%
Al 237.313†	414259.7	45.86	mg/L	0.518	45.86	mg/L	0.518	1.13%
As 188.979†	94.5	0.0729	mg/L	0.00108	0.0729	mg/L	0.00108	1.48%
B 249.677†	-5.1	-0.0015	mg/L	0.00954	-0.0015	mg/L	0.00954	628.48%
B 182.528†	24.0	0.0257	mg/L	0.00046	0.0257	mg/L	0.00046	1.80%
Ba 233.527†	61372.9	0.5378	mg/L	0.00080	0.5378	mg/L	0.00080	0.15%
Be 313.107†	14159.7	0.0059	mg/L	0.00005	0.0059	mg/L	0.00005	0.79%
Ca 315.887†	1664150.5	18.17	mg/L	0.178	18.17	mg/L	0.178	0.98%
Cd 228.802†	71.4	0.0012	mg/L	0.00002	0.0012	mg/L	0.00002	1.44%
Co 228.616†	2468.3	0.0431	mg/L	0.00036	0.0431	mg/L	0.00036	0.83%
Cr 267.716†	8501.8	0.0775	mg/L	0.00116	0.0775	mg/L	0.00116	1.49%
Cu 324.752†	52598.7	0.2908	mg/L	0.00026	0.2908	mg/L	0.00026	0.09%
Fe 234.349†	179466.9	119.7	mg/L	0.63	119.7	mg/L	0.63	0.52%
K 766.490†	12465.6	6.968	mg/L	0.0864	6.968	mg/L	0.0864	1.24%
Li 670.784†	3327.3	0.0959	mg/L	0.00138	0.0959	mg/L	0.00138	1.44%
Mg 279.077†	145451.9	11.75	mg/L	0.023	11.75	mg/L	0.023	0.20%
Mn 257.610†	1136148.7	1.436	mg/L	0.0164	1.436	mg/L	0.0164	1.14%
Mn 294.920†	574943.5	1.501	mg/L	0.0168	1.501	mg/L	0.0168	1.12%
Mo 202.031†	404.5	0.0001	mg/L	0.00131	0.0001	mg/L	0.00131	926.48%

Na 589.592†	3655.8	0.7784 mg/L	0.00108	0.7784 mg/L	0.00108	0.14%
Ni 231.604†	4530.5	0.1026 mg/L	0.00002	0.1026 mg/L	0.00002	0.02%
P 214.914†	4704.4	2.990 mg/L	0.0030	2.990 mg/L	0.0030	0.10%
Pb 220.353†	46809.2	3.290 mg/L	0.0128	3.290 mg/L	0.0128	0.39%
Sb 206.836†	44.5	-0.0097 mg/L	0.00090	-0.0097 mg/L	0.00090	9.35%
Se 196.026†	-23.5	-0.0350 mg/L	0.00201	-0.0350 mg/L	0.00201	5.75%
Sn 189.927†	-100.3	-0.0050 mg/L	0.00039	-0.0050 mg/L	0.00039	7.85%
Sr 407.771†	144968.3	0.1694 mg/L	0.00067	0.1694 mg/L	0.00067	0.39%
Ti 337.279†	2515442.9	2.941 mg/L	0.0319	2.941 mg/L	0.0319	1.08%
Tl 190.801†	-0.1	-0.0713 mg/L	0.00272	-0.0713 mg/L	0.00272	3.81%
V 292.402†	37711.7	0.1704 mg/L	0.00040	0.1704 mg/L	0.00040	0.23%
Zn 213.857†	74567.0	0.5449 mg/L	0.00288	0.5449 mg/L	0.00288	0.53%

Sequence No.: 186
Sample ID: 1307093-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 7/6/2013 2:42:48 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307093-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-20.9	-14.4	-0.0067	mg/L	-0.0067 mg/L	02:44:29
1	Fe 234.349†	222976.5	222710.4	148.5	mg/L	148.5 mg/L	02:44:26
1	K 766.490†	8210.8	7383.4	4.198	mg/L	4.198 mg/L	02:44:29
1	Li 670.784†	2946.3	3178.5	0.0918	mg/L	0.0918 mg/L	02:44:29
1	Na 589.592†	2926.6	2443.4	0.5578	mg/L	0.5578 mg/L	02:44:29
1	Sr 407.771†	66808.2	66659.9	0.0781	mg/L	0.0781 mg/L	02:44:26
1	Y 371.029	2704180.9	2704180.9	1.00	mg/L		02:44:38
1	Ag 328.068†	1402.2	-464.6	0.0029	mg/L	0.0029 mg/L	02:44:40
1	Al 237.313†	357474.1	357488.7	39.58	mg/L	39.58 mg/L	02:44:38
1	As 188.979†	127.1	133.6	0.1013	mg/L	0.1013 mg/L	02:44:50
1	B 182.528†	8.0	17.5	0.0187	mg/L	0.0187 mg/L	02:44:50
1	Ba 233.527†	39315.7	39367.0	0.3461	mg/L	0.3461 mg/L	02:44:40
1	Be 313.107†	7829.0	9257.9	0.0038	mg/L	0.0038 mg/L	02:44:40
1	Ca 315.887†	614091.0	615252.3	6.742	mg/L	6.742 mg/L	02:44:38
1	Cd 228.802†	222.3	63.0	0.0005	mg/L	0.0005 mg/L	02:44:50
1	Co 228.616†	2330.1	2569.2	0.0458	mg/L	0.0458 mg/L	02:44:50
1	Cr 267.716†	9996.5	9418.7	0.0855	mg/L	0.0855 mg/L	02:44:40
1	Cu 324.752†	53723.2	48857.8	0.2703	mg/L	0.2703 mg/L	02:44:40
1	Mg 279.077†	143662.6	143492.0	11.59	mg/L	11.59 mg/L	02:44:40
1	Mn 257.610†	897530.9	880414.4	1.101	mg/L	1.101 mg/L	02:44:38
1	Mn 294.920†	458062.0	458861.5	1.198	mg/L	1.198 mg/L	02:44:40
1	Mo 202.031†	445.3	408.9	-0.0039	mg/L	-0.0039 mg/L	02:44:40
1	Ni 231.604†	5542.3	5377.8	0.1215	mg/L	0.1215 mg/L	02:44:40
1	P 214.914†	3973.7	3996.2	2.547	mg/L	2.547 mg/L	02:44:50
1	Pb 220.353†	27970.9	27756.3	1.948	mg/L	1.948 mg/L	02:44:40
1	Sb 206.836†	90.3	42.4	-0.0190	mg/L	-0.0190 mg/L	02:44:50
1	Se 196.026†	-7.8	-18.7	-0.0375	mg/L	-0.0375 mg/L	02:44:50
1	Sn 189.927†	34.4	5.1	0.0035	mg/L	0.0035 mg/L	02:44:50
1	Ti 337.279†	2227183.2	2225212.4	2.602	mg/L	2.602 mg/L	02:44:38
1	Tl 190.801†	-16.5	-11.7	-0.1000	mg/L	-0.1000 mg/L	02:44:50
1	V 292.402†	37902.1	38206.3	0.1735	mg/L	0.1735 mg/L	02:44:40
1	Zn 213.857†	44964.1	43766.4	0.3169	mg/L	0.3169 mg/L	02:44:40
2	B 249.677†	-6.5	0.0	0.0013	mg/L	0.0013 mg/L	02:44:33
2	Fe 234.349†	228070.8	226653.6	151.1	mg/L	151.1 mg/L	02:44:31
2	K 766.490†	8042.1	7174.5	4.084	mg/L	4.084 mg/L	02:44:33
2	Li 670.784†	2858.4	3076.4	0.0890	mg/L	0.0890 mg/L	02:44:33
2	Na 589.592†	2839.7	2342.4	0.5394	mg/L	0.5394 mg/L	02:44:33
2	Sr 407.771†	68390.2	67896.7	0.0795	mg/L	0.0795 mg/L	02:44:31
2	Y 371.029	2717843.6	2717843.6	1.01	mg/L		02:44:53
2	Ag 328.068†	1279.0	-594.1	0.0023	mg/L	0.0023 mg/L	02:44:55
2	Al 237.313†	359003.7	357213.9	39.55	mg/L	39.55 mg/L	02:44:53
2	As 188.979†	136.7	142.5	0.1078	mg/L	0.1078 mg/L	02:45:05
2	B 182.528†	3.1	12.6	0.0134	mg/L	0.0134 mg/L	02:45:05
2	Ba 233.527†	39661.4	39513.1	0.3474	mg/L	0.3474 mg/L	02:44:55
2	Be 313.107†	7963.1	9351.9	0.0039	mg/L	0.0039 mg/L	02:44:55
2	Ca 315.887†	616052.6	614118.3	6.730	mg/L	6.730 mg/L	02:44:53
2	Cd 228.802†	221.2	60.8	0.0003	mg/L	0.0003 mg/L	02:45:05
2	Co 228.616†	2320.7	2548.1	0.0454	mg/L	0.0454 mg/L	02:45:05
2	Cr 267.716†	10081.0	9452.4	0.0858	mg/L	0.0858 mg/L	02:44:55

2	Cu	324.752†	54254.6	49116.2	0.2717 mg/L	0.2717 mg/L	02:44:55
2	Mg	279.077†	144911.8	144012.2	11.63 mg/L	11.63 mg/L	02:44:55
2	Mn	257.610†	900169.8	878530.3	1.098 mg/L	1.098 mg/L	02:44:53
2	Mn	294.920†	461720.3	460197.1	1.202 mg/L	1.202 mg/L	02:44:55
2	Mo	202.031†	448.1	409.4	-0.0043 mg/L	-0.0043 mg/L	02:44:55
2	Ni	231.604†	5537.0	5344.8	0.1208 mg/L	0.1208 mg/L	02:44:55
2	P	214.914†	3974.9	3977.4	2.535 mg/L	2.535 mg/L	02:45:05
2	Pb	220.353†	28215.5	27858.9	1.955 mg/L	1.955 mg/L	02:44:55
2	Sb	206.836†	91.1	42.7	-0.0196 mg/L	-0.0196 mg/L	02:45:05
2	Se	196.026†	-18.5	-29.3	-0.0452 mg/L	-0.0452 mg/L	02:45:05
2	Sn	189.927†	43.0	13.5	0.0047 mg/L	0.0047 mg/L	02:45:05
2	Ti	337.279†	2238871.9	2225645.8	2.603 mg/L	2.603 mg/L	02:44:53
2	Tl	190.801†	-10.1	-5.3	-0.0954 mg/L	-0.0954 mg/L	02:45:05
2	V	292.402†	38127.3	38239.8	0.1736 mg/L	0.1736 mg/L	02:44:55
2	Zn	213.857†	45460.5	44034.0	0.3187 mg/L	0.3187 mg/L	02:44:55

Mean Data: 1307093-03

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2711012.3	1.00	mg/L	0.004			0.36%
Ag 328.068†	-529.4	0.0026	mg/L	0.00046	0.0026 mg/L	0.00046	17.57%
Al 237.313†	357351.3	39.56	mg/L	0.022	39.56 mg/L	0.022	0.05%
As 188.979†	138.0	0.1046	mg/L	0.00460	0.1046 mg/L	0.00460	4.40%
B 249.677†	-7.2	-0.0027	mg/L	0.00569	-0.0027 mg/L	0.00569	210.70%
B 182.528†	15.1	0.0161	mg/L	0.00371	0.0161 mg/L	0.00371	23.11%
Ba 233.527†	39440.0	0.3467	mg/L	0.00090	0.3467 mg/L	0.00090	0.26%
Be 313.107†	9304.9	0.0039	mg/L	0.00003	0.0039 mg/L	0.00003	0.76%
Ca 315.887†	614685.3	6.736	mg/L	0.0087	6.736 mg/L	0.0087	0.13%
Cd 228.802†	61.9	0.0004	mg/L	0.00008	0.0004 mg/L	0.00008	20.90%
Co 228.616†	2558.6	0.0456	mg/L	0.00030	0.0456 mg/L	0.00030	0.66%
Cr 267.716†	9435.5	0.0856	mg/L	0.00021	0.0856 mg/L	0.00021	0.24%
Cu 324.752†	48987.0	0.2710	mg/L	0.00098	0.2710 mg/L	0.00098	0.36%
Fe 234.349†	224682.0	149.8	mg/L	1.86	149.8 mg/L	1.86	1.24%
K 766.490†	7278.9	4.141	mg/L	0.0805	4.141 mg/L	0.0805	1.94%
Li 670.784†	3127.4	0.0904	mg/L	0.00198	0.0904 mg/L	0.00198	2.20%
Mg 279.077†	143752.1	11.61	mg/L	0.030	11.61 mg/L	0.030	0.26%
Mn 257.610†	879472.3	1.099	mg/L	0.0021	1.099 mg/L	0.0021	0.19%
Mn 294.920†	459529.3	1.200	mg/L	0.0025	1.200 mg/L	0.0025	0.21%
Mo 202.031†	409.1	-0.0041	mg/L	0.00027	-0.0041 mg/L	0.00027	6.61%
Na 589.592†	2392.9	0.5486	mg/L	0.01300	0.5486 mg/L	0.01300	2.37%
Ni 231.604†	5361.3	0.1212	mg/L	0.00052	0.1212 mg/L	0.00052	0.43%
P 214.914†	3986.8	2.541	mg/L	0.0083	2.541 mg/L	0.0083	0.33%
Pb 220.353†	27807.6	1.952	mg/L	0.0051	1.952 mg/L	0.0051	0.26%
Sb 206.836†	42.5	-0.0193	mg/L	0.00044	-0.0193 mg/L	0.00044	2.27%
Se 196.026†	-24.0	-0.0414	mg/L	0.00549	-0.0414 mg/L	0.00549	13.28%
Sn 189.927†	9.3	0.0041	mg/L	0.00087	0.0041 mg/L	0.00087	21.11%
Sr 407.771†	67278.3	0.0788	mg/L	0.00102	0.0788 mg/L	0.00102	1.29%
Ti 337.279†	2225429.1	2.602	mg/L	0.0004	2.602 mg/L	0.0004	0.01%
Tl 190.801†	-8.5	-0.0977	mg/L	0.00327	-0.0977 mg/L	0.00327	3.34%
V 292.402†	38223.0	0.1735	mg/L	0.00011	0.1735 mg/L	0.00011	0.06%
Zn 213.857†	43900.2	0.3178	mg/L	0.00131	0.3178 mg/L	0.00131	0.41%

Sequence No.: 187

Sample ID: 1307101-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 7/6/2013 2:46:43 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307101-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-0.4	6.3	0.0048 mg/L	0.0048 mg/L	02:48:42
1	Fe 234.349†	11.1	-0.9	0.0100 mg/L	0.0100 mg/L	02:48:42
1	K 766.490†	754.9	-415.6	-0.0521 mg/L	-0.0521 mg/L	02:48:32
1	Li 670.784†	-292.4	79.7	0.0066 mg/L	0.0066 mg/L	02:48:32
1	Na 589.592†	-167.1	-568.8	0.0097 mg/L	0.0097 mg/L	02:48:32
1	Sr 407.771†	114.0	-9.8	0.0004 mg/L	0.0004 mg/L	02:48:32
1	Y 371.029	5068122.2	5068122.2	1.88 mg/L		02:49:07
1	Ag 328.068†	1039.2	-1311.3	-0.0055 mg/L	-0.0055 mg/L	02:49:09
1	Al 237.313†	-320.8	259.5	0.0421 mg/L	0.0421 mg/L	02:49:19

1	As	188.979†	-1.9	5.6	0.0085	mg/L	0.0085	mg/L	02:49:19
1	B	182.528†	-6.8	5.9	0.0063	mg/L	0.0063	mg/L	02:49:19
1	Ba	233.527†	-60.5	64.7	0.0037	mg/L	0.0037	mg/L	02:49:19
1	Be	313.107†	-509.8	1166.3	0.0009	mg/L	0.0009	mg/L	02:49:09
1	Ca	315.887†	-455.3	1632.9	0.0537	mg/L	0.0537	mg/L	02:49:09
1	Cd	228.802†	122.1	-94.0	-0.0019	mg/L	-0.0019	mg/L	02:49:19
1	Co	228.616†	-236.9	115.5	0.0023	mg/L	0.0023	mg/L	02:49:19
1	Cr	267.716†	324.9	-393.1	0.0000	mg/L	0.0000	mg/L	02:49:09
1	Cu	324.752†	2579.4	-3428.2	-0.0140	mg/L	-0.0140	mg/L	02:49:09
1	Mg	279.077†	15.1	4.6	0.0255	mg/L	0.0255	mg/L	02:49:09
1	Mn	257.610†	10075.4	-10702.9	-0.0121	mg/L	-0.0121	mg/L	02:49:19
1	Mn	294.920†	-595.9	1014.7	0.0042	mg/L	0.0042	mg/L	02:49:09
1	Mo	202.031†	60.0	-4.0	0.0024	mg/L	0.0024	mg/L	02:49:19
1	Ni	231.604†	180.7	-61.7	0.0002	mg/L	0.0002	mg/L	02:49:19
1	P	214.914†	-33.4	9.3	0.0529	mg/L	0.0529	mg/L	02:49:19
1	Pb	220.353†	201.0	-75.0	-0.0054	mg/L	-0.0054	mg/L	02:49:19
1	Sb	206.836†	42.3	-25.3	-0.0076	mg/L	-0.0076	mg/L	02:49:19
1	Se	196.026†	15.9	-2.5	0.0034	mg/L	0.0034	mg/L	02:49:19
1	Sn	189.927†	19.5	-18.9	-0.0042	mg/L	-0.0042	mg/L	02:49:19
1	Ti	337.279†	254.7	755.5	0.0058	mg/L	0.0058	mg/L	02:49:09
1	Tl	190.801†	-10.6	-0.9	0.0003	mg/L	0.0003	mg/L	02:49:19
1	V	292.402†	-228.7	226.4	0.0056	mg/L	0.0056	mg/L	02:49:09
1	Zn	213.857†	1090.9	-564.0	-0.0014	mg/L	-0.0014	mg/L	02:49:19
2	B	249.677†	-6.8	2.6	0.0027	mg/L	0.0027	mg/L	02:49:03
2	Fe	234.349†	18.3	3.6	0.0130	mg/L	0.0130	mg/L	02:49:03
2	K	766.490†	691.0	-423.7	-0.0566	mg/L	-0.0566	mg/L	02:48:53
2	Li	670.784†	-331.4	46.6	0.0057	mg/L	0.0057	mg/L	02:48:53
2	Na	589.592†	-162.1	-572.2	0.0091	mg/L	0.0091	mg/L	02:48:53
2	Sr	407.771†	112.8	-6.2	0.0004	mg/L	0.0004	mg/L	02:48:53
2	Y	371.029	4735367.7	4735367.7	1.75	mg/L			02:49:22
2	Ag	328.068†	1018.4	-1284.3	-0.0053	mg/L	-0.0053	mg/L	02:49:24
2	Al	237.313†	-329.8	242.3	0.0402	mg/L	0.0402	mg/L	02:49:34
2	As	188.979†	-9.6	1.2	0.0052	mg/L	0.0052	mg/L	02:49:34
2	B	182.528†	-0.1	9.5	0.0101	mg/L	0.0101	mg/L	02:49:34
2	Ba	233.527†	-80.7	51.0	0.0036	mg/L	0.0036	mg/L	02:49:34
2	Be	313.107†	-474.9	1167.1	0.0009	mg/L	0.0009	mg/L	02:49:24
2	Ca	315.887†	-408.9	1642.3	0.0538	mg/L	0.0538	mg/L	02:49:24
2	Cd	228.802†	131.9	-83.8	-0.0016	mg/L	-0.0016	mg/L	02:49:34
2	Co	228.616†	-249.8	99.3	0.0020	mg/L	0.0020	mg/L	02:49:34
2	Cr	267.716†	329.7	-378.1	0.0001	mg/L	0.0001	mg/L	02:49:24
2	Cu	324.752†	2724.2	-3249.0	-0.0131	mg/L	-0.0131	mg/L	02:49:24
2	Mg	279.077†	17.5	6.5	0.0257	mg/L	0.0257	mg/L	02:49:24
2	Mn	257.610†	10161.1	-10276.7	-0.0115	mg/L	-0.0115	mg/L	02:49:34
2	Mn	294.920†	-658.8	956.5	0.0040	mg/L	0.0040	mg/L	02:49:24
2	Mo	202.031†	70.9	4.5	0.0028	mg/L	0.0028	mg/L	02:49:34
2	Ni	231.604†	176.4	-57.4	0.0003	mg/L	0.0003	mg/L	02:49:34
2	P	214.914†	-40.3	4.1	0.0497	mg/L	0.0497	mg/L	02:49:34
2	Pb	220.353†	193.1	-72.0	-0.0052	mg/L	-0.0052	mg/L	02:49:34
2	Sb	206.836†	37.8	-26.3	-0.0081	mg/L	-0.0081	mg/L	02:49:34
2	Se	196.026†	15.6	-2.0	0.0036	mg/L	0.0036	mg/L	02:49:34
2	Sn	189.927†	20.9	-17.4	-0.0040	mg/L	-0.0040	mg/L	02:49:34
2	Ti	337.279†	257.1	766.5	0.0058	mg/L	0.0058	mg/L	02:49:24
2	Tl	190.801†	-7.4	0.6	0.0017	mg/L	0.0017	mg/L	02:49:34
2	V	292.402†	-212.4	227.1	0.0056	mg/L	0.0056	mg/L	02:49:24
2	Zn	213.857†	1084.8	-526.6	-0.0012	mg/L	-0.0012	mg/L	02:49:34

Mean Data: 1307101-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	4901745.0	1.81 mg/L	0.087			4.80%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 181.5%						
Ag 328.068†	-1297.8	-0.0054 mg/L	0.00011	-0.0054 mg/L	0.00011	1.96%
Al 237.313†	250.9	0.0411 mg/L	0.00134	0.0411 mg/L	0.00134	3.26%
As 188.979†	3.4	0.0068 mg/L	0.00229	0.0068 mg/L	0.00229	33.50%
B 249.677†	4.5	0.0038 mg/L	0.00144	0.0038 mg/L	0.00144	38.29%
B 182.528†	7.7	0.0082 mg/L	0.00269	0.0082 mg/L	0.00269	32.90%
Ba 233.527†	57.9	0.0036 mg/L	0.00008	0.0036 mg/L	0.00008	2.34%
Be 313.107†	1166.7	0.0009 mg/L	0.00000	0.0009 mg/L	0.00000	0.03%
Ca 315.887†	1637.6	0.0538 mg/L	0.00007	0.0538 mg/L	0.00007	0.13%
Cd 228.802†	-88.9	-0.0018 mg/L	0.00023	-0.0018 mg/L	0.00023	12.72%
Co 228.616†	107.4	0.0022 mg/L	0.00023	0.0022 mg/L	0.00023	10.63%
Cr 267.716†	-385.6	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	342.81%

Cu 324.752†	-3338.6	-0.0135 mg/L	0.00068	-0.0135 mg/L	0.00068	5.03%
Fe 234.349†	1.4	0.0115 mg/L	0.00212	0.0115 mg/L	0.00212	18.41%
K 766.490†	-419.6	-0.0544 mg/L	0.00314	-0.0544 mg/L	0.00314	5.78%
Li 670.784†	63.2	0.0062 mg/L	0.00064	0.0062 mg/L	0.00064	10.43%
Mg 279.077†	5.6	0.0256 mg/L	0.00011	0.0256 mg/L	0.00011	0.43%
Mn 257.610†	-10489.8	-0.0118 mg/L	0.00039	-0.0118 mg/L	0.00039	3.28%
Mn 294.920†	985.6	0.0041 mg/L	0.00011	0.0041 mg/L	0.00011	2.63%
Mo 202.031†	0.3	0.0026 mg/L	0.00025	0.0026 mg/L	0.00025	9.62%
Na 589.592†	-570.5	0.0094 mg/L	0.00044	0.0094 mg/L	0.00044	4.62%
Ni 231.604†	-59.6	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	22.97%
P 214.914†	6.7	0.0513 mg/L	0.00229	0.0513 mg/L	0.00229	4.47%
Pb 220.353†	-73.5	-0.0053 mg/L	0.00015	-0.0053 mg/L	0.00015	2.83%
Sb 206.836†	-25.8	-0.0078 mg/L	0.00033	-0.0078 mg/L	0.00033	4.18%
Se 196.026†	-2.2	0.0035 mg/L	0.00021	0.0035 mg/L	0.00021	5.91%
Sn 189.927†	-18.1	-0.0041 mg/L	0.00016	-0.0041 mg/L	0.00016	4.03%
Sr 407.771†	-8.0	0.0004 mg/L	0.00000	0.0004 mg/L	0.00000	0.82%
Ti 337.279†	761.0	0.0058 mg/L	0.00001	0.0058 mg/L	0.00001	0.16%
Tl 190.801†	-0.1	0.0010 mg/L	0.00099	0.0010 mg/L	0.00099	97.62%
V 292.402†	226.7	0.0056 mg/L	0.00001	0.0056 mg/L	0.00001	0.11%
Zn 213.857†	-545.3	-0.0013 mg/L	0.00019	-0.0013 mg/L	0.00019	14.78%
Internal Standard Check failed. Continue with analysis.						

Sequence No.: 188		Autosampler Location: 12
Sample ID: 1307101-02		Date Collected: 7/6/2013 2:51:11 AM
Analyst:		Data Type: Original
Initial Sample Wt:		Initial Sample Vol:
Dilution:		Sample Prep Vol:

Replicate Data: 1307101-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	-6.3	0.4	0.0015	mg/L	0.0015	mg/L	02:52:53
1	Fe 234.349†	452618.9	440177.9	293.4	mg/L	293.4	mg/L	02:52:51
1	K 766.490†	45228.2	43167.9	23.70	mg/L	23.70	mg/L	02:52:53
1	Li 670.784†	9916.0	9879.2	0.2760	mg/L	0.2760	mg/L	02:52:53
1	Na 589.592†	5784.1	5145.4	1.049	mg/L	1.049	mg/L	02:52:53
1	Sr 407.771†	464268.2	451443.4	0.5267	mg/L	0.5267	mg/L	02:52:51
1	Y 371.029	2777333.7	2777333.7	1.03	mg/L			02:53:06
1	Ag 328.068†	1659.7	-251.0	0.0078	mg/L	0.0078	mg/L	02:53:06
1	Al 237.313†	1476816.4	1436676.1	159.0	mg/L	159.0	mg/L	02:53:06
1	As 188.979†	143.3	146.0	0.1099	mg/L	0.1099	mg/L	02:53:16
1	B 182.528†	45.5	53.8	0.0576	mg/L	0.0576	mg/L	02:53:16
1	Ba 233.527†	920921.1	895718.8	7.807	mg/L	7.807	mg/L	02:53:06
1	Be 313.107†	21633.3	22477.0	0.0086	mg/L	0.0086	mg/L	02:53:06
1	Ca 315.887†	6064863.7	5900126.8	64.34	mg/L	64.34	mg/L	02:53:03
1	Cd 228.802†	1433.9	1235.5	0.0346	mg/L	0.0346	mg/L	02:53:16
1	Co 228.616†	5027.6	5131.3	0.0874	mg/L	0.0874	mg/L	02:53:16
1	Cr 267.716†	38188.8	36573.5	0.3222	mg/L	0.3222	mg/L	02:53:06
1	Cu 324.752†	791722.6	765169.8	4.129	mg/L	4.129	mg/L	02:53:06
1	Mg 279.077†	686147.2	667294.1	53.80	mg/L	53.80	mg/L	02:53:06
1	Mn 257.610†	2941229.1	2844355.8	3.595	mg/L	3.595	mg/L	02:53:06
1	Mn 294.920†	1484192.0	1444750.9	3.769	mg/L	3.769	mg/L	02:53:06
1	Mo 202.031†	959.5	897.2	-0.0265	mg/L	-0.0265	mg/L	02:53:16
1	Ni 231.604†	15112.9	14539.6	0.3258	mg/L	0.3258	mg/L	02:53:16
1	P 214.914†	13428.1	13086.3	8.201	mg/L	8.201	mg/L	02:53:16
1	Pb 220.353†	62860.2	60951.2	4.261	mg/L	4.261	mg/L	02:53:06
1	Sb 206.836†	147.0	95.1	-0.0376	mg/L	-0.0376	mg/L	02:53:16
1	Se 196.026†	-56.6	-65.9	-0.0989	mg/L	-0.0989	mg/L	02:53:16
1	Sn 189.927†	5896.1	5704.8	0.8828	mg/L	0.8828	mg/L	02:53:16
1	Ti 337.279†	6280696.6	6108774.6	7.135	mg/L	7.135	mg/L	02:53:03
1	Tl 190.801†	-3.5	1.4	-0.1746	mg/L	-0.1746	mg/L	02:53:16
1	V 292.402†	97393.1	95065.8	0.4214	mg/L	0.4214	mg/L	02:53:06
1	Zn 213.857†	711916.1	691213.1	5.068	mg/L	5.068	mg/L	02:53:06
2	B 249.677†	-3.8	2.8	0.0029	mg/L	0.0029	mg/L	02:52:57
2	Fe 234.349†	449804.4	436669.6	291.1	mg/L	291.1	mg/L	02:52:55
2	K 766.490†	44765.3	42640.9	23.41	mg/L	23.41	mg/L	02:52:57
2	Li 670.784†	9961.9	9906.8	0.2768	mg/L	0.2768	mg/L	02:52:57
2	Na 589.592†	5697.5	5051.5	1.032	mg/L	1.032	mg/L	02:52:57
2	Sr 407.771†	461835.9	448286.2	0.5231	mg/L	0.5231	mg/L	02:52:55
2	Y 371.029	2782238.0	2782238.0	1.03	mg/L			02:53:23
2	Ag 328.068†	1730.9	-184.7	0.0081	mg/L	0.0081	mg/L	02:53:23

2	Al 237.313†	1478396.0	1435677.9	158.9	mg/L	158.9	mg/L	02:53:23
2	As 188.979†	151.8	154.0	0.1157	mg/L	0.1157	mg/L	02:53:33
2	B 182.528†	43.6	51.9	0.0556	mg/L	0.0556	mg/L	02:53:33
2	Ba 233.527†	921950.3	895139.3	7.802	mg/L	7.802	mg/L	02:53:23
2	Be 313.107†	21445.0	22257.2	0.0085	mg/L	0.0085	mg/L	02:53:23
2	Ca 315.887†	6151683.7	5974016.0	65.14	mg/L	65.14	mg/L	02:53:19
2	Cd 228.802†	1436.3	1235.3	0.0346	mg/L	0.0346	mg/L	02:53:33
2	Co 228.616†	4973.4	5070.0	0.0860	mg/L	0.0860	mg/L	02:53:33
2	Cr 267.716†	38198.3	36517.2	0.3217	mg/L	0.3217	mg/L	02:53:23
2	Cu 324.752†	793292.7	765336.8	4.130	mg/L	4.130	mg/L	02:53:23
2	Mg 279.077†	686537.9	666497.1	53.74	mg/L	53.74	mg/L	02:53:23
2	Mn 257.610†	2945973.2	2843919.4	3.595	mg/L	3.595	mg/L	02:53:23
2	Mn 294.920†	1485497.7	1443474.2	3.766	mg/L	3.766	mg/L	02:53:23
2	Mo 202.031†	938.0	874.7	-0.0272	mg/L	-0.0272	mg/L	02:53:33
2	Ni 231.604†	15121.5	14522.2	0.3254	mg/L	0.3254	mg/L	02:53:33
2	P 214.914†	13410.6	13046.3	8.175	mg/L	8.175	mg/L	02:53:33
2	Pb 220.353†	62867.7	60850.7	4.254	mg/L	4.254	mg/L	02:53:23
2	Sb 206.836†	146.9	94.7	-0.0371	mg/L	-0.0371	mg/L	02:53:33
2	Se 196.026†	-52.1	-61.5	-0.0953	mg/L	-0.0953	mg/L	02:53:33
2	Sn 189.927†	5883.8	5682.8	0.8800	mg/L	0.8800	mg/L	02:53:33
2	Ti 337.279†	6365858.3	6180684.0	7.219	mg/L	7.219	mg/L	02:53:19
2	Tl 190.801†	1.6	6.3	-0.1683	mg/L	-0.1683	mg/L	02:53:33
2	V 292.402†	97241.5	94751.7	0.4198	mg/L	0.4198	mg/L	02:53:23
2	Zn 213.857†	712946.2	690992.7	5.066	mg/L	5.066	mg/L	02:53:23

Mean Data: 1307101-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2779785.9	1.03	mg/L	0.001				0.12%
Ag 328.068†	-217.9	0.0080	mg/L	0.00022	0.0080	mg/L	0.00022	2.74%
Al 237.313†	1436177.0	159.0	mg/L	0.08	159.0	mg/L	0.08	0.05%
As 188.979†	150.0	0.1128	mg/L	0.00412	0.1128	mg/L	0.00412	3.65%
B 249.677†	1.6	0.0022	mg/L	0.00093	0.0022	mg/L	0.00093	42.33%
B 182.528†	52.8	0.0566	mg/L	0.00140	0.0566	mg/L	0.00140	2.47%
Ba 233.527†	895429.1	7.804	mg/L	0.0036	7.804	mg/L	0.0036	0.05%
Be 313.107†	22367.1	0.0085	mg/L	0.00008	0.0085	mg/L	0.00008	0.97%
Ca 315.887†	5937071.4	64.74	mg/L	0.569	64.74	mg/L	0.569	0.88%
Cd 228.802†	1235.4	0.0346	mg/L	0.00003	0.0346	mg/L	0.00003	0.07%
Co 228.616†	5100.7	0.0867	mg/L	0.00099	0.0867	mg/L	0.00099	1.15%
Cr 267.716†	36545.3	0.3220	mg/L	0.00035	0.3220	mg/L	0.00035	0.11%
Cu 324.752†	765253.3	4.129	mg/L	0.0007	4.129	mg/L	0.0007	0.02%
Fe 234.349†	438423.8	292.3	mg/L	1.66	292.3	mg/L	1.66	0.57%
K 766.490†	42904.4	23.56	mg/L	0.203	23.56	mg/L	0.203	0.86%
Li 670.784†	9893.0	0.2764	mg/L	0.00054	0.2764	mg/L	0.00054	0.19%
Mg 279.077†	666895.6	53.77	mg/L	0.045	53.77	mg/L	0.045	0.08%
Mn 257.610†	2844137.6	3.595	mg/L	0.0000	3.595	mg/L	0.0000	0.00%
Mn 294.920†	1444112.6	3.768	mg/L	0.0024	3.768	mg/L	0.0024	0.06%
Mo 202.031†	886.0	-0.0268	mg/L	0.00043	-0.0268	mg/L	0.00043	1.61%
Na 589.592†	5098.5	1.041	mg/L	0.0121	1.041	mg/L	0.0121	1.16%
Ni 231.604†	14530.9	0.3256	mg/L	0.00028	0.3256	mg/L	0.00028	0.08%
P 214.914†	13066.3	8.188	mg/L	0.0177	8.188	mg/L	0.0177	0.22%
Pb 220.353†	60901.0	4.258	mg/L	0.0050	4.258	mg/L	0.0050	0.12%
Sb 206.836†	94.9	-0.0374	mg/L	0.00036	-0.0374	mg/L	0.00036	0.96%
Se 196.026†	-63.7	-0.0971	mg/L	0.00250	-0.0971	mg/L	0.00250	2.58%
Sn 189.927†	5693.8	0.8814	mg/L	0.00195	0.8814	mg/L	0.00195	0.22%
Sr 407.771†	449864.8	0.5249	mg/L	0.00260	0.5249	mg/L	0.00260	0.50%
Ti 337.279†	6144729.3	7.177	mg/L	0.0593	7.177	mg/L	0.0593	0.83%
Tl 190.801†	3.8	-0.1714	mg/L	0.00444	-0.1714	mg/L	0.00444	2.59%
V 292.402†	94908.8	0.4206	mg/L	0.00114	0.4206	mg/L	0.00114	0.27%
Zn 213.857†	691102.9	5.067	mg/L	0.0011	5.067	mg/L	0.0011	0.02%

Sequence No.: 189

Sample ID: 1307101-03

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 7/6/2013 2:56:41 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307101-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
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1	B 249.677†	27.6	33.7	0.0202 mg/L	0.0202 mg/L	02:58:25
1	Fe 234.349†	691978.9	682781.4	455.2 mg/L	455.2 mg/L	02:58:23
1	K 766.490†	38455.9	37127.3	20.41 mg/L	20.41 mg/L	02:58:25
1	Li 670.784†	12717.4	12784.1	0.3558 mg/L	0.3558 mg/L	02:58:25
1	Na 589.592†	8341.9	7751.4	1.524 mg/L	1.524 mg/L	02:58:25
1	Sr 407.771†	418964.1	413328.9	0.4823 mg/L	0.4823 mg/L	02:58:23
1	Y 371.029	2737392.9	2737392.9	1.01 mg/L		02:58:39
1	Ag 328.068†	2960.9	1056.4	0.0191 mg/L	0.0191 mg/L	02:58:39
1	Al 237.313†	1396686.9	1378566.8	152.6 mg/L	152.6 mg/L	02:58:35
1	As 188.979†	169.8	174.1	0.1304 mg/L	0.1304 mg/L	02:58:49
1	B 182.528†	75.2	83.7	0.0898 mg/L	0.0898 mg/L	02:58:49
1	Ba 233.527†	1178022.3	1162473.1	10.13 mg/L	10.13 mg/L	02:58:39
1	Be 313.107†	20677.3	21840.6	0.0084 mg/L	0.0084 mg/L	02:58:39
1	Ca 315.887†	6164163.8	6084168.4	66.35 mg/L	66.35 mg/L	02:58:35
1	Cd 228.802†	2676.0	2481.4	0.0708 mg/L	0.0708 mg/L	02:58:49
1	Co 228.616†	6048.2	6209.7	0.1099 mg/L	0.1099 mg/L	02:58:49
1	Cr 267.716†	62465.5	61069.6	0.5358 mg/L	0.5358 mg/L	02:58:39
1	Cu 324.752†	2361570.4	2325401.7	12.52 mg/L	12.52 mg/L	02:58:39
1	Mg 279.077†	525298.5	518318.2	41.80 mg/L	41.80 mg/L	02:58:39
1	Mn 257.610†	3554191.2	3490912.7	4.390 mg/L	4.390 mg/L	02:58:39
1	Mn 294.920†	1816302.7	1793511.3	4.679 mg/L	4.679 mg/L	02:58:39
1	Mo 202.031†	2209.9	2144.7	-0.0450 mg/L	-0.0450 mg/L	02:58:39
1	Ni 231.604†	33122.2	32524.2	0.7268 mg/L	0.7268 mg/L	02:58:39
1	P 214.914†	17759.1	17550.3	10.91 mg/L	10.91 mg/L	02:58:49
1	Pb 220.353†	163409.3	161056.8	11.31 mg/L	11.31 mg/L	02:58:39
1	Sb 206.836†	192.6	142.2	-0.0631 mg/L	-0.0631 mg/L	02:58:49
1	Se 196.026†	-112.1	-121.5	-0.1693 mg/L	-0.1693 mg/L	02:58:49
1	Sn 189.927†	11891.8	11704.5	1.772 mg/L	1.772 mg/L	02:58:49
1	Ti 337.279†	5844818.6	5767809.0	6.737 mg/L	6.737 mg/L	02:58:35
1	Tl 190.801†	2.8	7.5	-0.2656 mg/L	-0.2656 mg/L	02:58:49
1	V 292.402†	98772.3	97808.7	0.4331 mg/L	0.4331 mg/L	02:58:39
1	Zn 213.857†	1481935.6	1461107.5	10.71 mg/L	10.71 mg/L	02:58:39
2	B 249.677†	54.8	60.2	0.0349 mg/L	0.0349 mg/L	02:58:29
2	Fe 234.349†	689881.4	676739.0	451.2 mg/L	451.2 mg/L	02:58:27
2	K 766.490†	38587.1	37034.5	20.36 mg/L	20.36 mg/L	02:58:29
2	Li 670.784†	12774.9	12767.3	0.3554 mg/L	0.3554 mg/L	02:58:29
2	Na 589.592†	8334.5	7696.1	1.513 mg/L	1.513 mg/L	02:58:29
2	Sr 407.771†	418615.4	410574.3	0.4791 mg/L	0.4791 mg/L	02:58:27
2	Y 371.029	2753462.3	2753462.3	1.02 mg/L		02:58:56
2	Ag 328.068†	3154.0	1228.8	0.0200 mg/L	0.0200 mg/L	02:58:56
2	Al 237.313†	1375769.4	1350004.7	149.4 mg/L	149.4 mg/L	02:58:52
2	As 188.979†	177.0	180.2	0.1348 mg/L	0.1348 mg/L	02:59:06
2	B 182.528†	74.9	83.1	0.0890 mg/L	0.0890 mg/L	02:59:06
2	Ba 233.527†	1185707.6	1163228.3	10.14 mg/L	10.14 mg/L	02:58:56
2	Be 313.107†	20994.4	22032.7	0.0085 mg/L	0.0085 mg/L	02:58:56
2	Ca 315.887†	6054095.0	5940698.7	64.78 mg/L	64.78 mg/L	02:58:52
2	Cd 228.802†	2661.6	2451.9	0.0699 mg/L	0.0699 mg/L	02:59:06
2	Co 228.616†	6032.6	6159.5	0.1091 mg/L	0.1091 mg/L	02:59:06
2	Cr 267.716†	62593.1	60835.0	0.5337 mg/L	0.5337 mg/L	02:58:56
2	Cu 324.752†	2375886.6	2325846.0	12.52 mg/L	12.52 mg/L	02:58:56
2	Mg 279.077†	528881.6	518808.0	41.84 mg/L	41.84 mg/L	02:58:56
2	Mn 257.610†	3578257.4	3494053.7	4.395 mg/L	4.395 mg/L	02:58:56
2	Mn 294.920†	1829015.3	1795522.6	4.684 mg/L	4.684 mg/L	02:58:56
2	Mo 202.031†	2231.8	2153.4	-0.0440 mg/L	-0.0440 mg/L	02:58:56
2	Ni 231.604†	33401.7	32607.7	0.7286 mg/L	0.7286 mg/L	02:58:56
2	P 214.914†	17751.0	17440.1	10.84 mg/L	10.84 mg/L	02:59:06
2	Pb 220.353†	164451.9	161138.6	11.32 mg/L	11.32 mg/L	02:58:56
2	Sb 206.836†	188.1	136.7	-0.0645 mg/L	-0.0645 mg/L	02:59:06
2	Se 196.026†	-125.7	-134.2	-0.1772 mg/L	-0.1772 mg/L	02:59:06
2	Sn 189.927†	11924.1	11667.7	1.766 mg/L	1.766 mg/L	02:59:06
2	Ti 337.279†	5762924.6	5653816.4	6.604 mg/L	6.604 mg/L	02:58:52
2	Tl 190.801†	-2.5	2.4	-0.2683 mg/L	-0.2683 mg/L	02:59:06
2	V 292.402†	99716.8	98166.5	0.4349 mg/L	0.4349 mg/L	02:58:56
2	Zn 213.857†	1492026.9	1462472.8	10.72 mg/L	10.72 mg/L	02:58:56

Mean Data: 1307101-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2745427.6	1.02 mg/L	0.004			0.41%
Ag 328.068†	1142.6	0.0195 mg/L	0.00060	0.0195 mg/L	0.00060	3.10%
Al 237.313†	1364285.8	151.0 mg/L	2.24	151.0 mg/L	2.24	1.48%
As 188.979†	177.2	0.1326 mg/L	0.00314	0.1326 mg/L	0.00314	2.37%

2	Fe 234.349†	476339.2	464950.9	310.0 mg/L	310.0 mg/L	03:03:58
2	K 766.490†	97392.3	94247.4	51.54 mg/L	51.54 mg/L	03:03:58
2	Li 670.784†	17391.1	17211.1	0.4775 mg/L	0.4775 mg/L	03:04:00
2	Na 589.592†	7224.5	6572.2	1.309 mg/L	1.309 mg/L	03:04:00
2	Sr 407.771†	181892.6	177476.0	0.2073 mg/L	0.2073 mg/L	03:03:58
2	Y 371.029	2767152.7	2767152.7	1.02 mg/L		03:04:22
2	Ag 328.068†	1072.0	-818.7	0.0051 mg/L	0.0051 mg/L	03:04:25
2	Al 237.313†	1777497.0	1735456.7	192.1 mg/L	192.1 mg/L	03:04:22
2	As 188.979†	113.9	117.8	0.0892 mg/L	0.0892 mg/L	03:04:35
2	B 182.528†	41.7	50.2	0.0538 mg/L	0.0538 mg/L	03:04:35
2	Ba 233.527†	338881.5	330881.5	2.886 mg/L	2.886 mg/L	03:04:25
2	Be 313.107†	25262.1	26096.5	0.0093 mg/L	0.0093 mg/L	03:04:25
2	Ca 315.887†	2648063.5	2586667.3	28.23 mg/L	28.23 mg/L	03:04:22
2	Cd 228.802†	862.9	683.3	0.0171 mg/L	0.0171 mg/L	03:04:35
2	Co 228.616†	6505.2	6591.6	0.1085 mg/L	0.1085 mg/L	03:04:35
2	Cr 267.716†	49288.3	47544.4	0.4178 mg/L	0.4178 mg/L	03:04:25
2	Cu 324.752†	966671.1	938771.0	5.067 mg/L	5.067 mg/L	03:04:22
2	Mg 279.077†	990783.4	967106.6	77.96 mg/L	77.96 mg/L	03:04:22
2	Mn 257.610†	3059405.9	2970233.2	3.753 mg/L	3.753 mg/L	03:04:22
2	Mn 294.920†	1540984.3	1505496.9	3.928 mg/L	3.928 mg/L	03:04:22
2	Mo 202.031†	897.0	839.6	-0.0367 mg/L	-0.0367 mg/L	03:04:25
2	Ni 231.604†	13850.1	13361.1	0.2995 mg/L	0.2995 mg/L	03:04:35
2	P 214.914†	14231.0	13918.0	8.712 mg/L	8.712 mg/L	03:04:35
2	Pb 220.353†	30183.7	29280.4	2.022 mg/L	2.022 mg/L	03:04:25
2	Sb 206.836†	138.1	86.9	-0.0470 mg/L	-0.0470 mg/L	03:04:35
2	Se 196.026†	-48.4	-58.2	-0.0968 mg/L	-0.0968 mg/L	03:04:35
2	Sn 189.927†	2914.2	2815.3	0.4328 mg/L	0.4328 mg/L	03:04:35
2	Ti 337.279†	9582995.4	9354643.1	10.92 mg/L	10.92 mg/L	03:04:22
2	Tl 190.801†	-7.4	-2.5	-0.1896 mg/L	-0.1896 mg/L	03:04:35
2	V 292.402†	127567.7	124867.9	0.5505 mg/L	0.5505 mg/L	03:04:25
2	Zn 213.857†	505263.2	492045.2	3.601 mg/L	3.601 mg/L	03:04:25

Mean Data: 1307101-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2761384.8	1.02	mg/L	0.003				0.30%
Ag 328.068†	-757.0	0.0054	mg/L	0.00037	0.0054	mg/L	0.00037	6.92%
Al 237.313†	1734542.2	192.0	mg/L	0.14	192.0	mg/L	0.14	0.07%
As 188.979†	120.2	0.0909	mg/L	0.00241	0.0909	mg/L	0.00241	2.65%
B 249.677†	-12.1	-0.0054	mg/L	0.00895	-0.0054	mg/L	0.00895	165.92%
B 182.528†	53.7	0.0576	mg/L	0.00533	0.0576	mg/L	0.00533	9.26%
Ba 233.527†	333495.2	2.909	mg/L	0.0322	2.909	mg/L	0.0322	1.11%
Be 313.107†	26436.5	0.0094	mg/L	0.00021	0.0094	mg/L	0.00021	2.26%
Ca 315.887†	2580999.9	28.17	mg/L	0.087	28.17	mg/L	0.087	0.31%
Cd 228.802†	674.0	0.0168	mg/L	0.00033	0.0168	mg/L	0.00033	1.96%
Co 228.616†	6634.1	0.1094	mg/L	0.00122	0.1094	mg/L	0.00122	1.11%
Cr 267.716†	47987.2	0.4217	mg/L	0.00546	0.4217	mg/L	0.00546	1.29%
Cu 324.752†	938821.9	5.067	mg/L	0.0004	5.067	mg/L	0.0004	0.01%
Fe 234.349†	460123.6	306.8	mg/L	4.55	306.8	mg/L	4.55	1.48%
K 766.490†	93547.6	51.16	mg/L	0.539	51.16	mg/L	0.539	1.05%
Li 670.784†	17161.5	0.4762	mg/L	0.00193	0.4762	mg/L	0.00193	0.41%
Mg 279.077†	965126.2	77.80	mg/L	0.226	77.80	mg/L	0.226	0.29%
Mn 257.610†	2967174.2	3.750	mg/L	0.0045	3.750	mg/L	0.0045	0.12%
Mn 294.920†	1503820.5	3.923	mg/L	0.0062	3.923	mg/L	0.0062	0.16%
Mo 202.031†	864.6	-0.0352	mg/L	0.00218	-0.0352	mg/L	0.00218	6.21%
Na 589.592†	6577.1	1.310	mg/L	0.0013	1.310	mg/L	0.0013	0.10%
Ni 231.604†	13449.8	0.3015	mg/L	0.00280	0.3015	mg/L	0.00280	0.93%
P 214.914†	13977.0	8.749	mg/L	0.0522	8.749	mg/L	0.0522	0.60%
Pb 220.353†	29463.3	2.035	mg/L	0.0183	2.035	mg/L	0.0183	0.90%
Sb 206.836†	85.7	-0.0466	mg/L	0.00047	-0.0466	mg/L	0.00047	1.01%
Se 196.026†	-61.1	-0.0982	mg/L	0.00193	-0.0982	mg/L	0.00193	1.97%
Sn 189.927†	2837.6	0.4360	mg/L	0.00463	0.4360	mg/L	0.00463	1.06%
Sr 407.771†	176037.2	0.2056	mg/L	0.00237	0.2056	mg/L	0.00237	1.15%
Ti 337.279†	9351524.9	10.92	mg/L	0.005	10.92	mg/L	0.005	0.05%
Tl 190.801†	-8.9	-0.1939	mg/L	0.00612	-0.1939	mg/L	0.00612	3.16%
V 292.402†	126085.0	0.5560	mg/L	0.00786	0.5560	mg/L	0.00786	1.41%
Zn 213.857†	496069.2	3.630	mg/L	0.0421	3.630	mg/L	0.0421	1.16%

Sequence No.: 191

Sample ID: CCV1

Analyst:

Autosampler Location: 3

Date Collected: 7/6/2013 3:07:43 AM

Data Type: Original

Initial Sample Wt:
Dilution:

Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc.	Units	Analysis Time
1	B 249.677†	863.6	872.9	0.4878	mg/L	0.4878	mg/L	03:09:34
1	Fe 234.349†	3884.2	3890.0	2.590	mg/L	2.590	mg/L	03:09:34
1	K 766.490†	45896.8	45226.9	24.82	mg/L	24.82	mg/L	03:09:24
1	Li 670.784†	17683.2	17975.8	0.4985	mg/L	0.4985	mg/L	03:09:24
1	Na 589.592†	135833.4	135791.7	24.82	mg/L	24.82	mg/L	03:09:24
1	Sr 407.771†	41449.7	41512.8	0.0488	mg/L	0.0488	mg/L	03:09:24
1	Y 371.029	2692352.8	2692352.8	0.997	mg/L			03:09:51
1	Ag 328.068†	46582.2	44867.3	0.2506	mg/L	0.2506	mg/L	03:09:53
1	Al 237.313†	22262.9	22765.1	2.535	mg/L	2.535	mg/L	03:09:53
1	As 188.979†	654.1	662.9	0.4861	mg/L	0.4861	mg/L	03:10:03
1	B 182.528†	442.7	453.7	0.4869	mg/L	0.4869	mg/L	03:10:03
1	Ba 233.527†	56110.8	56388.8	0.4944	mg/L	0.4944	mg/L	03:09:53
1	Be 313.107†	108091.6	109878.2	0.0486	mg/L	0.0486	mg/L	03:09:51
1	Ca 315.887†	433432.2	436705.6	4.797	mg/L	4.797	mg/L	03:09:51
1	Cd 228.802†	7911.4	7777.9	0.2439	mg/L	0.2439	mg/L	03:10:03
1	Co 228.616†	23962.0	24281.1	0.4850	mg/L	0.4850	mg/L	03:09:53
1	Cr 267.716†	56270.1	55885.3	0.4909	mg/L	0.4909	mg/L	03:09:53
1	Cu 324.752†	97344.1	92855.2	0.5042	mg/L	0.5042	mg/L	03:09:53
1	Mg 279.077†	60605.9	60797.9	4.925	mg/L	4.925	mg/L	03:09:53
1	Mn 257.610†	400474.8	385693.8	0.4973	mg/L	0.4973	mg/L	03:09:53
1	Mn 294.920†	186992.5	188927.9	0.4942	mg/L	0.4942	mg/L	03:09:53
1	Mo 202.031†	11373.9	11374.7	0.4826	mg/L	0.4826	mg/L	03:10:03
1	Ni 231.604†	21944.8	21857.5	0.4896	mg/L	0.4896	mg/L	03:09:53
1	P 214.914†	7522.4	7573.7	4.782	mg/L	4.782	mg/L	03:10:03
1	Pb 220.353†	7075.3	6916.0	0.4884	mg/L	0.4884	mg/L	03:10:03
1	Sb 206.836†	1073.9	1029.5	0.4854	mg/L	0.4854	mg/L	03:10:03
1	Se 196.026†	1422.4	1416.0	0.9751	mg/L	0.9751	mg/L	03:10:03
1	Sn 189.927†	3325.3	3306.7	0.4910	mg/L	0.4910	mg/L	03:10:03
1	Ti 337.279†	422803.0	424786.3	0.5007	mg/L	0.5007	mg/L	03:09:53
1	Tl 190.801†	490.7	497.1	0.4807	mg/L	0.4807	mg/L	03:10:03
1	V 292.402†	107235.9	107930.0	0.5028	mg/L	0.5028	mg/L	03:09:53
1	Zn 213.857†	68873.1	67949.8	0.4985	mg/L	0.4985	mg/L	03:09:53
2	B 249.677†	858.0	866.7	0.4843	mg/L	0.4843	mg/L	03:09:47
2	Fe 234.349†	3879.8	3882.6	2.585	mg/L	2.585	mg/L	03:09:47
2	K 766.490†	45918.1	45213.5	24.82	mg/L	24.82	mg/L	03:09:37
2	Li 670.784†	17688.9	17968.1	0.4983	mg/L	0.4983	mg/L	03:09:37
2	Na 589.592†	135490.9	135345.2	24.74	mg/L	24.74	mg/L	03:09:37
2	Sr 407.771†	41289.6	41320.8	0.0485	mg/L	0.0485	mg/L	03:09:37
2	Y 371.029	2694392.6	2694392.6	0.998	mg/L			03:10:06
2	Ag 328.068†	45483.3	43730.3	0.2443	mg/L	0.2443	mg/L	03:10:08
2	Al 237.313†	21433.6	21916.8	2.441	mg/L	2.441	mg/L	03:10:08
2	As 188.979†	640.9	649.1	0.4761	mg/L	0.4761	mg/L	03:10:19
2	B 182.528†	437.9	448.6	0.4814	mg/L	0.4814	mg/L	03:10:19
2	Ba 233.527†	54474.0	54705.3	0.4797	mg/L	0.4797	mg/L	03:10:08
2	Be 313.107†	107852.0	109555.9	0.0485	mg/L	0.0485	mg/L	03:10:06
2	Ca 315.887†	433149.8	436093.2	4.790	mg/L	4.790	mg/L	03:10:06
2	Cd 228.802†	7904.9	7765.3	0.2435	mg/L	0.2435	mg/L	03:10:19
2	Co 228.616†	23381.5	23680.9	0.4730	mg/L	0.4730	mg/L	03:10:08
2	Cr 267.716†	54895.2	54464.3	0.4785	mg/L	0.4785	mg/L	03:10:08
2	Cu 324.752†	95147.7	90579.4	0.4919	mg/L	0.4919	mg/L	03:10:08
2	Mg 279.077†	58855.7	58997.3	4.780	mg/L	4.780	mg/L	03:10:08
2	Mn 257.610†	390232.1	375121.7	0.4837	mg/L	0.4837	mg/L	03:10:08
2	Mn 294.920†	182262.8	184044.5	0.4815	mg/L	0.4815	mg/L	03:10:08
2	Mo 202.031†	11319.7	11311.7	0.4800	mg/L	0.4800	mg/L	03:10:19
2	Ni 231.604†	21350.9	21245.5	0.4760	mg/L	0.4760	mg/L	03:10:08
2	P 214.914†	7482.3	7527.8	4.753	mg/L	4.753	mg/L	03:10:19
2	Pb 220.353†	7062.0	6897.3	0.4871	mg/L	0.4871	mg/L	03:10:19
2	Sb 206.836†	1076.8	1031.6	0.4864	mg/L	0.4864	mg/L	03:10:19
2	Se 196.026†	1395.8	1388.3	0.9561	mg/L	0.9561	mg/L	03:10:19
2	Sn 189.927†	3325.2	3304.1	0.4906	mg/L	0.4906	mg/L	03:10:19
2	Ti 337.279†	411392.1	413026.2	0.4870	mg/L	0.4870	mg/L	03:10:08
2	Tl 190.801†	487.6	493.6	0.4774	mg/L	0.4774	mg/L	03:10:19
2	V 292.402†	104631.1	105237.4	0.4905	mg/L	0.4905	mg/L	03:10:08
2	Zn 213.857†	67104.2	66124.2	0.4852	mg/L	0.4852	mg/L	03:10:08

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2693372.7	0.997 mg/L	0.0005			0.05%
Ag 328.068†	44298.8	0.2474 mg/L	0.00446	0.2474 mg/L	0.00446	1.80%
	QC value within limits for Ag 328.068 Recovery = 98.97%					
Al 237.313†	22341.0	2.488 mg/L	0.0664	2.488 mg/L	0.0664	2.67%
	QC value within limits for Al 237.313 Recovery = 99.50%					
As 188.979†	656.0	0.4811 mg/L	0.00706	0.4811 mg/L	0.00706	1.47%
	QC value within limits for As 188.979 Recovery = 96.22%					
B 249.677†	869.8	0.4860 mg/L	0.00246	0.4860 mg/L	0.00246	0.51%
	QC value within limits for B 249.677 Recovery = 97.20%					
B 182.528†	451.2	0.4841 mg/L	0.00390	0.4841 mg/L	0.00390	0.81%
	QC value within limits for B 182.528 Recovery = 96.83%					
Ba 233.527†	55547.0	0.4871 mg/L	0.01037	0.4871 mg/L	0.01037	2.13%
	QC value within limits for Ba 233.527 Recovery = 97.41%					
Be 313.107†	109717.0	0.0486 mg/L	0.00010	0.0486 mg/L	0.00010	0.20%
	QC value within limits for Be 313.107 Recovery = 97.13%					
Ca 315.887†	436399.4	4.794 mg/L	0.0048	4.794 mg/L	0.0048	0.10%
	QC value within limits for Ca 315.887 Recovery = 95.87%					
Cd 228.802†	7771.6	0.2437 mg/L	0.00028	0.2437 mg/L	0.00028	0.11%
	QC value within limits for Cd 228.802 Recovery = 97.46%					
Co 228.616†	23981.0	0.4790 mg/L	0.00847	0.4790 mg/L	0.00847	1.77%
	QC value within limits for Co 228.616 Recovery = 95.80%					
Cr 267.716†	55174.8	0.4847 mg/L	0.00876	0.4847 mg/L	0.00876	1.81%
	QC value within limits for Cr 267.716 Recovery = 96.94%					
Cu 324.752†	91717.3	0.4981 mg/L	0.00867	0.4981 mg/L	0.00867	1.74%
	QC value within limits for Cu 324.752 Recovery = 99.61%					
Fe 234.349†	3886.3	2.587 mg/L	0.0033	2.587 mg/L	0.0033	0.13%
	QC value within limits for Fe 234.349 Recovery = 103.49%					
K 766.490†	45220.2	24.82 mg/L	0.005	24.82 mg/L	0.005	0.02%
	QC value within limits for K 766.490 Recovery = 99.28%					
Li 670.784†	17971.9	0.4984 mg/L	0.00015	0.4984 mg/L	0.00015	0.03%
	QC value within limits for Li 670.784 Recovery = 99.69%					
Mg 279.077†	59897.6	4.853 mg/L	0.1026	4.853 mg/L	0.1026	2.11%
	QC value within limits for Mg 279.077 Recovery = 97.06%					
Mn 257.610†	380407.7	0.4905 mg/L	0.00962	0.4905 mg/L	0.00962	1.96%
	QC value within limits for Mn 257.610 Recovery = 98.10%					
Mn 294.920†	186486.2	0.4878 mg/L	0.00901	0.4878 mg/L	0.00901	1.85%
	QC value within limits for Mn 294.920 Recovery = 97.57%					
Mo 202.031†	11343.2	0.4813 mg/L	0.00184	0.4813 mg/L	0.00184	0.38%
	QC value within limits for Mo 202.031 Recovery = 96.26%					
Na 589.592†	135568.5	24.78 mg/L	0.057	24.78 mg/L	0.057	0.23%
	QC value within limits for Na 589.592 Recovery = 99.12%					
Ni 231.604†	21551.5	0.4828 mg/L	0.00965	0.4828 mg/L	0.00965	2.00%
	QC value within limits for Ni 231.604 Recovery = 96.56%					
P 214.914†	7550.7	4.768 mg/L	0.0203	4.768 mg/L	0.0203	0.42%
	QC value within limits for P 214.914 Recovery = 95.35%					
Pb 220.353†	6906.7	0.4878 mg/L	0.00093	0.4878 mg/L	0.00093	0.19%
	QC value within limits for Pb 220.353 Recovery = 97.56%					
Sb 206.836†	1030.6	0.4859 mg/L	0.00076	0.4859 mg/L	0.00076	0.16%
	QC value within limits for Sb 206.836 Recovery = 97.18%					
Se 196.026†	1402.2	0.9656 mg/L	0.01344	0.9656 mg/L	0.01344	1.39%
	QC value within limits for Se 196.026 Recovery = 96.56%					
Sn 189.927†	3305.4	0.4908 mg/L	0.00028	0.4908 mg/L	0.00028	0.06%
	QC value within limits for Sn 189.927 Recovery = 98.16%					
Sr 407.771†	41416.8	0.0487 mg/L	0.00016	0.0487 mg/L	0.00016	0.33%
	QC value within limits for Sr 407.771 Recovery = 97.32%					
Ti 337.279†	418906.2	0.4938 mg/L	0.00971	0.4938 mg/L	0.00971	1.97%
	QC value within limits for Ti 337.279 Recovery = 98.77%					
Tl 190.801†	495.3	0.4791 mg/L	0.00230	0.4791 mg/L	0.00230	0.48%
	QC value within limits for Tl 190.801 Recovery = 95.81%					
V 292.402†	106583.7	0.4967 mg/L	0.00870	0.4967 mg/L	0.00870	1.75%
	QC value within limits for V 292.402 Recovery = 99.34%					
Zn 213.857†	67037.0	0.4918 mg/L	0.00942	0.4918 mg/L	0.00942	1.92%
	QC value within limits for Zn 213.857 Recovery = 98.37%					

All analyte(s) passed QC.

Sequence No.: 192

Sample ID: CCB1

Analyst:

Initial Sample Wt:

Autosampler Location: 1

Date Collected: 7/6/2013 3:11:57 AM

Data Type: Original

Initial Sample Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-5.3	1.2	0.0019	mg/L	0.0019	mg/L	03:13:46
1	Fe 234.349†	6.9	0.1	0.0107	mg/L	0.0107	mg/L	03:13:46
1	K 766.490†	933.3	113.3	0.2361	mg/L	0.2361	mg/L	03:13:36
1	Li 670.784†	-118.7	117.2	0.0077	mg/L	0.0077	mg/L	03:13:36
1	Na 589.592†	278.0	-202.4	0.0764	mg/L	0.0764	mg/L	03:13:36
1	Sr 407.771†	130.5	59.7	0.0004	mg/L	0.0004	mg/L	03:13:36
1	Y 371.029	2707127.6	2707127.6	1.00	mg/L			03:14:02
1	Ag 328.068†	1674.4	-194.5	0.0007	mg/L	0.0007	mg/L	03:14:04
1	Al 237.313†	-238.2	192.7	0.0347	mg/L	0.0347	mg/L	03:14:04
1	As 188.979†	-5.7	1.0	0.0051	mg/L	0.0051	mg/L	03:14:14
1	B 182.528†	-3.8	5.8	0.0061	mg/L	0.0061	mg/L	03:14:14
1	Ba 233.527†	-47.9	49.2	0.0036	mg/L	0.0036	mg/L	03:14:14
1	Be 313.107†	-1265.1	175.8	0.0005	mg/L	0.0005	mg/L	03:14:04
1	Ca 315.887†	-1384.9	493.8	0.0413	mg/L	0.0413	mg/L	03:14:04
1	Cd 228.802†	162.2	2.8	0.0011	mg/L	0.0011	mg/L	03:14:14
1	Co 228.616†	-232.2	10.1	0.0002	mg/L	0.0002	mg/L	03:14:14
1	Cr 267.716†	576.4	8.9	0.0035	mg/L	0.0035	mg/L	03:14:04
1	Cu 324.752†	5886.9	1070.8	0.0102	mg/L	0.0102	mg/L	03:14:04
1	Mg 279.077†	105.7	102.1	0.0334	mg/L	0.0334	mg/L	03:14:04
1	Mn 257.610†	15658.3	-449.5	0.0011	mg/L	0.0011	mg/L	03:14:04
1	Mn 294.920†	-963.6	370.9	0.0025	mg/L	0.0025	mg/L	03:14:04
1	Mo 202.031†	64.6	28.5	0.0037	mg/L	0.0037	mg/L	03:14:14
1	Ni 231.604†	167.5	9.1	0.0018	mg/L	0.0018	mg/L	03:14:04
1	P 214.914†	-22.7	4.4	0.0496	mg/L	0.0496	mg/L	03:14:14
1	Pb 220.353†	221.4	38.7	0.0026	mg/L	0.0026	mg/L	03:14:14
1	Sb 206.836†	36.1	-11.8	-0.0013	mg/L	-0.0013	mg/L	03:14:14
1	Se 196.026†	17.6	6.7	0.0096	mg/L	0.0096	mg/L	03:14:14
1	Sn 189.927†	41.5	12.1	0.0004	mg/L	0.0004	mg/L	03:14:14
1	Ti 337.279†	-200.0	420.3	0.0054	mg/L	0.0054	mg/L	03:14:04
1	Tl 190.801†	-4.1	0.7	0.0018	mg/L	0.0018	mg/L	03:14:14
1	V 292.402†	-334.2	14.8	0.0046	mg/L	0.0046	mg/L	03:14:04
1	Zn 213.857†	1833.1	683.6	0.0077	mg/L	0.0077	mg/L	03:14:14
2	B 249.677†	0.4	6.9	0.0051	mg/L	0.0051	mg/L	03:13:58
2	Fe 234.349†	40.4	34.3	0.0334	mg/L	0.0334	mg/L	03:13:58
2	K 766.490†	958.4	157.5	0.2602	mg/L	0.2602	mg/L	03:13:48
2	Li 670.784†	-298.3	-68.0	0.0026	mg/L	0.0026	mg/L	03:13:48
2	Na 589.592†	211.2	-264.8	0.0650	mg/L	0.0650	mg/L	03:13:48
2	Sr 407.771†	72.6	3.3	0.0004	mg/L	0.0004	mg/L	03:13:48
2	Y 371.029	2654062.2	2654062.2	0.983	mg/L			03:14:16
2	Ag 328.068†	1716.6	-118.2	0.0011	mg/L	0.0011	mg/L	03:14:19
2	Al 237.313†	-239.2	187.0	0.0340	mg/L	0.0340	mg/L	03:14:19
2	As 188.979†	-4.0	2.6	0.0062	mg/L	0.0062	mg/L	03:14:29
2	B 182.528†	-6.2	3.2	0.0034	mg/L	0.0034	mg/L	03:14:29
2	Ba 233.527†	-53.9	42.2	0.0035	mg/L	0.0035	mg/L	03:14:29
2	Be 313.107†	-1231.9	184.3	0.0005	mg/L	0.0005	mg/L	03:14:19
2	Ca 315.887†	-1554.4	293.6	0.0391	mg/L	0.0391	mg/L	03:14:19
2	Cd 228.802†	154.4	-1.9	0.0009	mg/L	0.0009	mg/L	03:14:29
2	Co 228.616†	-203.6	34.6	0.0007	mg/L	0.0007	mg/L	03:14:29
2	Cr 267.716†	576.2	20.2	0.0036	mg/L	0.0036	mg/L	03:14:19
2	Cu 324.752†	5921.8	1223.8	0.0110	mg/L	0.0110	mg/L	03:14:19
2	Mg 279.077†	103.0	101.4	0.0334	mg/L	0.0334	mg/L	03:14:19
2	Mn 257.610†	15501.7	-296.5	0.0013	mg/L	0.0013	mg/L	03:14:19
2	Mn 294.920†	-1036.4	277.6	0.0022	mg/L	0.0022	mg/L	03:14:19
2	Mo 202.031†	69.0	34.3	0.0039	mg/L	0.0039	mg/L	03:14:29
2	Ni 231.604†	177.2	22.3	0.0021	mg/L	0.0021	mg/L	03:14:19
2	P 214.914†	-26.2	0.5	0.0471	mg/L	0.0471	mg/L	03:14:29
2	Pb 220.353†	210.9	32.5	0.0021	mg/L	0.0021	mg/L	03:14:29
2	Sb 206.836†	55.6	8.8	0.0083	mg/L	0.0083	mg/L	03:14:29
2	Se 196.026†	13.1	2.4	0.0067	mg/L	0.0067	mg/L	03:14:29
2	Sn 189.927†	40.5	11.9	0.0004	mg/L	0.0004	mg/L	03:14:29
2	Ti 337.279†	-90.1	528.1	0.0055	mg/L	0.0055	mg/L	03:14:19
2	Tl 190.801†	-7.8	-3.1	-0.0019	mg/L	-0.0019	mg/L	03:14:29
2	V 292.402†	-268.8	74.7	0.0049	mg/L	0.0049	mg/L	03:14:19
2	Zn 213.857†	1838.0	725.2	0.0080	mg/L	0.0080	mg/L	03:14:29

Analyte	Mean Corrected	Calib	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Y 371.029	2680594.9	0.992 mg/L	0.0139			1.40%
Ag 328.068†	-156.3	0.0009 mg/L	0.00030	0.0009 mg/L	0.00030	32.94%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	189.9	0.0344 mg/L	0.00045	0.0344 mg/L	0.00045	1.31%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	1.8	0.0057 mg/L	0.00082	0.0057 mg/L	0.00082	14.46%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 249.677†	4.1	0.0035 mg/L	0.00225	0.0035 mg/L	0.00225	63.74%
QC value within limits for B 249.677		Recovery =	Not calculated			
B 182.528†	4.5	0.0047 mg/L	0.00195	0.0047 mg/L	0.00195	41.17%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	45.7	0.0035 mg/L	0.00004	0.0035 mg/L	0.00004	1.23%
QC value greater than the upper limit for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	180.0	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.57%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.887†	393.7	0.0402 mg/L	0.00154	0.0402 mg/L	0.00154	3.83%
QC value greater than the upper limit for Ca 315.887		Recovery =	Not calculated			
Cd 228.802†	0.4	0.0010 mg/L	0.00010	0.0010 mg/L	0.00010	10.19%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	22.3	0.0005 mg/L	0.00035	0.0005 mg/L	0.00035	76.13%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	14.6	0.0035 mg/L	0.00007	0.0035 mg/L	0.00007	1.98%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	1147.3	0.0106 mg/L	0.00058	0.0106 mg/L	0.00058	5.50%
QC value greater than the upper limit for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	17.2	0.0221 mg/L	0.01611	0.0221 mg/L	0.01611	73.03%
QC value greater than the upper limit for Fe 234.349		Recovery =	Not calculated			
K 766.490†	135.4	0.2481 mg/L	0.01702	0.2481 mg/L	0.01702	6.86%
QC value greater than the upper limit for K 766.490		Recovery =	Not calculated			
Li 670.784†	24.6	0.0051 mg/L	0.00360	0.0051 mg/L	0.00360	70.20%
QC value within limits for Li 670.784		Recovery =	Not calculated			
Mg 279.077†	101.7	0.0334 mg/L	0.00004	0.0334 mg/L	0.00004	0.11%
QC value greater than the upper limit for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	-373.0	0.0012 mg/L	0.00014	0.0012 mg/L	0.00014	11.23%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mn 294.920†	324.2	0.0024 mg/L	0.00017	0.0024 mg/L	0.00017	7.29%
QC value within limits for Mn 294.920		Recovery =	Not calculated			
Mo 202.031†	31.4	0.0038 mg/L	0.00017	0.0038 mg/L	0.00017	4.43%
QC value greater than the upper limit for Mo 202.031		Recovery =	Not calculated			
Na 589.592†	-233.6	0.0707 mg/L	0.00804	0.0707 mg/L	0.00804	11.36%
QC value within limits for Na 589.592		Recovery =	Not calculated			
Ni 231.604†	15.7	0.0020 mg/L	0.00021	0.0020 mg/L	0.00021	10.52%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
P 214.914†	2.4	0.0484 mg/L	0.00174	0.0484 mg/L	0.00174	3.61%
QC value greater than the upper limit for P 214.914		Recovery =	Not calculated			
Pb 220.353†	35.6	0.0024 mg/L	0.00031	0.0024 mg/L	0.00031	13.06%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-1.5	0.0035 mg/L	0.00681	0.0035 mg/L	0.00681	194.27%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	4.6	0.0082 mg/L	0.00208	0.0082 mg/L	0.00208	25.49%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	12.0	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.84%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Sr 407.771†	31.5	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	11.49%
QC value within limits for Sr 407.771		Recovery =	Not calculated			
Ti 337.279†	474.2	0.0055 mg/L	0.00009	0.0055 mg/L	0.00009	1.63%
QC value greater than the upper limit for Ti 337.279		Recovery =	Not calculated			
Tl 190.801†	-1.2	0.0000 mg/L	0.00260	0.0000 mg/L	0.00260	>999.9%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	44.8	0.0048 mg/L	0.00019	0.0048 mg/L	0.00019	4.07%
QC value greater than the upper limit for V 292.402		Recovery =	Not calculated			
Zn 213.857†	704.4	0.0078 mg/L	0.00021	0.0078 mg/L	0.00021	2.72%
QC value within limits for Zn 213.857		Recovery =	Not calculated			
QC Failed. Continue with analysis.						

Sequence No.: 193
Sample ID: 1307101-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 7/6/2013 3:16:06 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307101-05

Repl#	Analyte	Net	Corrected	Calib.		Sample	Analysis	
		Intensity	Intensity	Conc.	Units	Conc.	Units	Time
1	B 249.677†	-36.0	-29.1	-0.0148	mg/L	-0.0148	mg/L	03:17:52
1	Fe 234.349†	961286.7	949588.5	633.1	mg/L	633.1	mg/L	03:17:50
1	K 766.490†	55190.6	53701.5	29.44	mg/L	29.44	mg/L	03:17:52
1	Li 670.784†	11915.8	12006.4	0.3345	mg/L	0.3345	mg/L	03:17:52
1	Na 589.592†	12578.9	11946.2	2.287	mg/L	2.287	mg/L	03:17:52
1	Sr 407.771†	350965.5	346626.4	0.4045	mg/L	0.4045	mg/L	03:17:50
1	Y 371.029	2734290.8	2734290.8	1.01	mg/L			03:18:06
1	Ag 328.068†	1343.4	-538.1	0.0147	mg/L	0.0147	mg/L	03:18:06
1	Al 237.313†	1904675.8	1881941.0	208.3	mg/L	208.3	mg/L	03:18:03
1	As 188.979†	286.5	289.7	0.2143	mg/L	0.2143	mg/L	03:18:16
1	B 182.528†	74.1	82.7	0.0887	mg/L	0.0887	mg/L	03:18:16
1	Ba 233.527†	397179.9	392446.3	3.422	mg/L	3.422	mg/L	03:18:06
1	Be 313.107†	23177.7	24333.8	0.0088	mg/L	0.0088	mg/L	03:18:06
1	Ca 315.887†	10457535.9	10332223.9	112.6	mg/L	112.6	mg/L	03:18:03
1	Cd 228.802†	1715.5	1535.6	0.0382	mg/L	0.0382	mg/L	03:18:16
1	Co 228.616†	11073.5	11180.6	0.2032	mg/L	0.2032	mg/L	03:18:16
1	Cr 267.716†	58636.1	57356.7	0.5034	mg/L	0.5034	mg/L	03:18:06
1	Cu 324.752†	1216843.6	1197241.1	6.456	mg/L	6.456	mg/L	03:18:06
1	Mg 279.077†	696359.1	687886.3	55.47	mg/L	55.47	mg/L	03:18:06
1	Mn 257.610†	5444629.4	5362337.7	6.757	mg/L	6.757	mg/L	03:18:03
1	Mn 294.920†	2795615.7	2762946.9	7.207	mg/L	7.207	mg/L	03:18:06
1	Mo 202.031†	2115.3	2053.7	-0.0414	mg/L	-0.0414	mg/L	03:18:06
1	Ni 231.604†	40085.5	39440.0	0.8809	mg/L	0.8809	mg/L	03:18:06
1	P 214.914†	78569.3	77640.8	48.60	mg/L	48.60	mg/L	03:18:06
1	Pb 220.353†	139637.7	137757.2	9.664	mg/L	9.664	mg/L	03:18:06
1	Sb 206.836†	212.4	161.9	-0.1046	mg/L	-0.1046	mg/L	03:18:16
1	Se 196.026†	-183.6	-192.2	-0.2534	mg/L	-0.2534	mg/L	03:18:16
1	Sn 189.927†	14031.1	13831.1	2.116	mg/L	2.116	mg/L	03:18:16
1	Ti 337.279†	8292163.1	8191931.3	9.567	mg/L	9.567	mg/L	03:18:03
1	Tl 190.801†	-12.1	-7.2	-0.3865	mg/L	-0.3865	mg/L	03:18:16
1	V 292.402†	130768.8	129526.6	0.5718	mg/L	0.5718	mg/L	03:18:06
1	Zn 213.857†	1389899.6	1371849.8	10.05	mg/L	10.05	mg/L	03:18:06
2	B 249.677†	-27.5	-20.7	-0.0101	mg/L	-0.0101	mg/L	03:17:56
2	Fe 234.349†	972198.6	963812.4	642.5	mg/L	642.5	mg/L	03:17:54
2	K 766.490†	55629.6	54332.3	29.78	mg/L	29.78	mg/L	03:17:56
2	Li 670.784†	12102.9	12234.2	0.3407	mg/L	0.3407	mg/L	03:17:56
2	Na 589.592†	12665.0	12076.1	2.310	mg/L	2.310	mg/L	03:17:56
2	Sr 407.771†	354684.4	351556.8	0.4103	mg/L	0.4103	mg/L	03:17:54
2	Y 371.029	2724518.2	2724518.2	1.01	mg/L			03:18:24
2	Ag 328.068†	1444.5	-433.1	0.0156	mg/L	0.0156	mg/L	03:18:24
2	Al 237.313†	1891020.9	1875152.6	207.5	mg/L	207.5	mg/L	03:18:20
2	As 188.979†	288.8	293.0	0.2167	mg/L	0.2167	mg/L	03:18:34
2	B 182.528†	73.3	82.2	0.0882	mg/L	0.0882	mg/L	03:18:34
2	Ba 233.527†	396787.2	393464.3	3.431	mg/L	3.431	mg/L	03:18:24
2	Be 313.107†	23166.5	24404.9	0.0089	mg/L	0.0089	mg/L	03:18:24
2	Ca 315.887†	10350319.4	10262985.3	111.9	mg/L	111.9	mg/L	03:18:20
2	Cd 228.802†	1730.8	1556.8	0.0387	mg/L	0.0387	mg/L	03:18:34
2	Co 228.616†	11161.4	11307.0	0.2058	mg/L	0.2058	mg/L	03:18:34
2	Cr 267.716†	58627.8	57556.3	0.5052	mg/L	0.5052	mg/L	03:18:24
2	Cu 324.752†	1214896.8	1199622.7	6.469	mg/L	6.469	mg/L	03:18:24
2	Mg 279.077†	694793.1	688801.2	55.54	mg/L	55.54	mg/L	03:18:24
2	Mn 257.610†	5408189.2	5345503.3	6.734	mg/L	6.734	mg/L	03:18:20
2	Mn 294.920†	2790715.6	2767994.6	7.220	mg/L	7.220	mg/L	03:18:24
2	Mo 202.031†	2097.6	2043.6	-0.0433	mg/L	-0.0433	mg/L	03:18:24
2	Ni 231.604†	40130.3	39626.3	0.8851	mg/L	0.8851	mg/L	03:18:24
2	P 214.914†	78418.0	77769.2	48.68	mg/L	48.68	mg/L	03:18:24
2	Pb 220.353†	139337.1	137954.0	9.678	mg/L	9.678	mg/L	03:18:24
2	Sb 206.836†	222.0	172.3	-0.1025	mg/L	-0.1025	mg/L	03:18:34
2	Se 196.026†	-182.3	-191.7	-0.2549	mg/L	-0.2549	mg/L	03:18:34
2	Sn 189.927†	14181.4	14029.8	2.144	mg/L	2.144	mg/L	03:18:34
2	Ti 337.279†	8248161.9	8177690.5	9.550	mg/L	9.550	mg/L	03:18:20
2	Tl 190.801†	-7.9	-3.0	-0.3882	mg/L	-0.3882	mg/L	03:18:34
2	V 292.402†	130570.9	129793.8	0.5730	mg/L	0.5730	mg/L	03:18:24
2	Zn 213.857†	1387556.2	1374451.4	10.07	mg/L	10.07	mg/L	03:18:24

Mean Data: 1307101-05

Mean Corrected

Calib

Sample Page 390 of 557

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2729404.5	1.01 mg/L	0.003			0.25%
Ag 328.068†	-485.6	0.0152 mg/L	0.00058	0.0152 mg/L	0.00058	3.82%
Al 237.313†	1878546.8	207.9 mg/L	0.53	207.9 mg/L	0.53	0.26%
As 188.979†	291.3	0.2155 mg/L	0.00172	0.2155 mg/L	0.00172	0.80%
B 249.677†	-24.9	-0.0125 mg/L	0.00329	-0.0125 mg/L	0.00329	26.41%
B 182.528†	82.5	0.0884 mg/L	0.00039	0.0884 mg/L	0.00039	0.44%
Ba 233.527†	392955.3	3.427 mg/L	0.0063	3.427 mg/L	0.0063	0.18%
Be 313.107†	24369.4	0.0089 mg/L	0.00003	0.0089 mg/L	0.00003	0.28%
Ca 315.887†	10297604.6	112.3 mg/L	0.53	112.3 mg/L	0.53	0.48%
Cd 228.802†	1546.2	0.0384 mg/L	0.00035	0.0384 mg/L	0.00035	0.92%
Co 228.616†	11243.8	0.2045 mg/L	0.00181	0.2045 mg/L	0.00181	0.89%
Cr 267.716†	57456.5	0.5043 mg/L	0.00123	0.5043 mg/L	0.00123	0.24%
Cu 324.752†	1198431.9	6.462 mg/L	0.0090	6.462 mg/L	0.0090	0.14%
Fe 234.349†	956700.5	637.8 mg/L	6.71	637.8 mg/L	6.71	1.05%
K 766.490†	54016.9	29.61 mg/L	0.243	29.61 mg/L	0.243	0.82%
Li 670.784†	12120.3	0.3376 mg/L	0.00443	0.3376 mg/L	0.00443	1.31%
Mg 279.077†	688343.8	55.51 mg/L	0.052	55.51 mg/L	0.052	0.09%
Mn 257.610†	5353920.5	6.746 mg/L	0.0168	6.746 mg/L	0.0168	0.25%
Mn 294.920†	2765470.8	7.214 mg/L	0.0093	7.214 mg/L	0.0093	0.13%
Mo 202.031†	2048.7	-0.0424 mg/L	0.00136	-0.0424 mg/L	0.00136	3.21%
Na 589.592†	12011.1	2.299 mg/L	0.0167	2.299 mg/L	0.0167	0.73%
Ni 231.604†	39533.1	0.8830 mg/L	0.00294	0.8830 mg/L	0.00294	0.33%
P 214.914†	77705.0	48.64 mg/L	0.057	48.64 mg/L	0.057	0.12%
Pb 220.353†	137855.6	9.671 mg/L	0.0099	9.671 mg/L	0.0099	0.10%
Sb 206.836†	167.1	-0.1035 mg/L	0.00149	-0.1035 mg/L	0.00149	1.44%
Se 196.026†	-192.0	-0.2541 mg/L	0.00107	-0.2541 mg/L	0.00107	0.42%
Sn 189.927†	13930.5	2.130 mg/L	0.0205	2.130 mg/L	0.0205	0.96%
Sr 407.771†	349091.6	0.4074 mg/L	0.00406	0.4074 mg/L	0.00406	1.00%
Ti 337.279†	8184810.9	9.558 mg/L	0.0118	9.558 mg/L	0.0118	0.12%
Tl 190.801†	-5.1	-0.3873 mg/L	0.00119	-0.3873 mg/L	0.00119	0.31%
V 292.402†	129660.2	0.5724 mg/L	0.00088	0.5724 mg/L	0.00088	0.15%
Zn 213.857†	1373150.6	10.06 mg/L	0.013	10.06 mg/L	0.013	0.13%

Sequence No.: 194
Sample ID: 1307101-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 7/6/2013 3:21:42 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307101-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-18.3	-11.6	-0.0051 mg/L	-0.0051 mg/L	03:23:24
1	Fe 234.349†	269013.5	266487.0	177.7 mg/L	177.7 mg/L	03:23:22
1	K 766.490†	59545.0	58169.5	31.88 mg/L	31.88 mg/L	03:23:22
1	Li 670.784†	8456.0	8612.4	0.2412 mg/L	0.2412 mg/L	03:23:24
1	Na 589.592†	13693.0	13085.0	2.494 mg/L	2.494 mg/L	03:23:24
1	Sr 407.771†	94313.2	93359.3	0.1092 mg/L	0.1092 mg/L	03:23:22
1	Y 371.029	2726574.1	2726574.1	1.01 mg/L		03:23:34
1	Ag 328.068†	1356.1	-521.7	0.0034 mg/L	0.0034 mg/L	03:23:37
1	Al 237.313†	828383.8	821055.2	90.88 mg/L	90.88 mg/L	03:23:34
1	As 188.979†	62.7	68.8	0.0539 mg/L	0.0539 mg/L	03:23:47
1	B 182.528†	23.2	32.5	0.0348 mg/L	0.0348 mg/L	03:23:47
1	Ba 233.527†	138848.7	137645.2	1.202 mg/L	1.202 mg/L	03:23:37
1	Be 313.107†	12563.0	13883.3	0.0048 mg/L	0.0048 mg/L	03:23:37
1	Ca 315.887†	3131277.1	3103823.4	33.86 mg/L	33.86 mg/L	03:23:34
1	Cd 228.802†	492.6	329.0	0.0083 mg/L	0.0083 mg/L	03:23:47
1	Co 228.616†	4257.7	4459.6	0.0741 mg/L	0.0741 mg/L	03:23:47
1	Cr 267.716†	22970.6	22189.2	0.1968 mg/L	0.1968 mg/L	03:23:37
1	Cu 324.752†	207082.2	200339.6	1.090 mg/L	1.090 mg/L	03:23:37
1	Mg 279.077†	520341.7	515464.4	41.57 mg/L	41.57 mg/L	03:23:34
1	Mn 257.610†	2110325.4	2074486.4	2.630 mg/L	2.630 mg/L	03:23:34
1	Mn 294.920†	1050602.8	1042094.6	2.719 mg/L	2.719 mg/L	03:23:34
1	Mo 202.031†	971.1	926.1	0.0091 mg/L	0.0091 mg/L	03:23:47
1	Ni 231.604†	8420.0	8183.1	0.1841 mg/L	0.1841 mg/L	03:23:47
1	P 214.914†	10245.1	10176.2	6.409 mg/L	6.409 mg/L	03:23:47
1	Pb 220.353†	14234.4	13918.9	0.9620 mg/L	0.9620 mg/L	03:23:47
1	Sb 206.836†	94.2	45.5	-0.0266 mg/L	-0.0266 mg/L	03:23:47
1	Se 196.026†	-15.4	-26.2	-0.0484 mg/L	-0.0484 mg/L	03:23:47
1	Sn 189.927†	1710.5	1665.2	0.2660 mg/L	0.2660 mg/L	03:23:47

1	Ti 337.279†	6114552.3	6057900.0	7.076	mg/L	7.076	mg/L	03:23:34
1	Tl 190.801†	0.4	5.2	-0.1014	mg/L	-0.1014	mg/L	03:23:47
1	V 292.402†	73808.1	73465.1	0.3249	mg/L	0.3249	mg/L	03:23:37
1	Zn 213.857†	195929.3	192948.7	1.412	mg/L	1.412	mg/L	03:23:37
2	B 249.677†	-9.7	-3.3	-0.0005	mg/L	-0.0005	mg/L	03:23:29
2	Fe 234.349†	277359.3	279275.9	186.2	mg/L	186.2	mg/L	03:23:27
2	K 766.490†	61068.2	60673.8	33.24	mg/L	33.24	mg/L	03:23:27
2	Li 670.784†	8364.3	8657.9	0.2424	mg/L	0.2424	mg/L	03:23:29
2	Na 589.592†	13486.7	13100.5	2.497	mg/L	2.497	mg/L	03:23:29
2	Sr 407.771†	96924.7	97526.2	0.1141	mg/L	0.1141	mg/L	03:23:27
2	Y 371.029	2682434.0	2682434.0	0.993	mg/L			03:23:51
2	Ag 328.068†	1359.9	-495.8	0.0038	mg/L	0.0038	mg/L	03:23:53
2	Al 237.313†	815680.4	821767.3	90.96	mg/L	90.96	mg/L	03:23:51
2	As 188.979†	68.6	75.7	0.0589	mg/L	0.0589	mg/L	03:24:03
2	B 182.528†	25.3	35.1	0.0375	mg/L	0.0375	mg/L	03:24:03
2	Ba 233.527†	140445.3	141516.3	1.236	mg/L	1.236	mg/L	03:23:53
2	Be 313.107†	12659.0	14184.8	0.0049	mg/L	0.0049	mg/L	03:23:53
2	Ca 315.887†	3077565.7	3100782.8	33.83	mg/L	33.83	mg/L	03:23:51
2	Cd 228.802†	490.0	334.4	0.0083	mg/L	0.0083	mg/L	03:24:03
2	Co 228.616†	4226.3	4497.4	0.0748	mg/L	0.0748	mg/L	03:24:03
2	Cr 267.716†	23201.7	22796.3	0.2021	mg/L	0.2021	mg/L	03:23:53
2	Cu 324.752†	209075.0	205721.9	1.119	mg/L	1.119	mg/L	03:23:53
2	Mg 279.077†	511695.5	515240.5	41.55	mg/L	41.55	mg/L	03:23:51
2	Mn 257.610†	2078091.8	2076429.9	2.631	mg/L	2.631	mg/L	03:23:51
2	Mn 294.920†	1033911.9	1042413.9	2.720	mg/L	2.720	mg/L	03:23:51
2	Mo 202.031†	954.5	925.2	0.0077	mg/L	0.0077	mg/L	03:24:03
2	Ni 231.604†	8381.4	8281.5	0.1863	mg/L	0.1863	mg/L	03:24:03
2	P 214.914†	10150.7	10248.1	6.454	mg/L	6.454	mg/L	03:24:03
2	Pb 220.353†	14127.9	14043.8	0.9707	mg/L	0.9707	mg/L	03:24:03
2	Sb 206.836†	108.8	61.7	-0.0215	mg/L	-0.0215	mg/L	03:24:03
2	Se 196.026†	-20.8	-31.9	-0.0541	mg/L	-0.0541	mg/L	03:24:03
2	Sn 189.927†	1691.2	1673.6	0.2672	mg/L	0.2672	mg/L	03:24:03
2	Ti 337.279†	6027708.3	6070127.7	7.090	mg/L	7.090	mg/L	03:23:51
2	Tl 190.801†	3.7	8.5	-0.1034	mg/L	-0.1034	mg/L	03:24:03
2	V 292.402†	74819.9	75687.0	0.3350	mg/L	0.3350	mg/L	03:23:53
2	Zn 213.857†	197766.9	197992.9	1.448	mg/L	1.448	mg/L	03:23:53

Mean Data: 1307101-06

Analyte	Mean Corrected		Calib	Std.Dev.	Sample			RSD
	Intensity	Conc.			Units	Conc.	Units	
Y 371.029	2704504.0	1.00	mg/L	0.012				1.15%
Ag 328.068†	-508.8	0.0036	mg/L	0.00025	0.0036	mg/L	0.00025	7.10%
Al 237.313†	821411.2	90.92	mg/L	0.056	90.92	mg/L	0.056	0.06%
As 188.979†	72.2	0.0564	mg/L	0.00353	0.0564	mg/L	0.00353	6.27%
B 249.677†	-7.4	-0.0028	mg/L	0.00329	-0.0028	mg/L	0.00329	117.09%
B 182.528†	33.8	0.0362	mg/L	0.00192	0.0362	mg/L	0.00192	5.30%
Ba 233.527†	139580.7	1.219	mg/L	0.0238	1.219	mg/L	0.0238	1.96%
Be 313.107†	14034.1	0.0049	mg/L	0.00009	0.0049	mg/L	0.00009	1.88%
Ca 315.887†	3102303.1	33.85	mg/L	0.023	33.85	mg/L	0.023	0.07%
Cd 228.802†	331.7	0.0083	mg/L	0.00002	0.0083	mg/L	0.00002	0.20%
Co 228.616†	4478.5	0.0745	mg/L	0.00051	0.0745	mg/L	0.00051	0.69%
Cr 267.716†	22492.8	0.1995	mg/L	0.00374	0.1995	mg/L	0.00374	1.88%
Cu 324.752†	203030.8	1.105	mg/L	0.0205	1.105	mg/L	0.0205	1.85%
Fe 234.349†	272881.4	181.9	mg/L	6.03	181.9	mg/L	6.03	3.31%
K 766.490†	59421.6	32.56	mg/L	0.965	32.56	mg/L	0.965	2.96%
Li 670.784†	8635.2	0.2418	mg/L	0.00088	0.2418	mg/L	0.00088	0.37%
Mg 279.077†	515352.4	41.56	mg/L	0.013	41.56	mg/L	0.013	0.03%
Mn 257.610†	2075458.2	2.631	mg/L	0.0004	2.631	mg/L	0.0004	0.02%
Mn 294.920†	1042254.3	2.720	mg/L	0.0006	2.720	mg/L	0.0006	0.02%
Mo 202.031†	925.7	0.0084	mg/L	0.00105	0.0084	mg/L	0.00105	12.47%
Na 589.592†	13092.7	2.495	mg/L	0.0020	2.495	mg/L	0.0020	0.08%
Ni 231.604†	8232.3	0.1852	mg/L	0.00155	0.1852	mg/L	0.00155	0.84%
P 214.914†	10212.2	6.432	mg/L	0.0317	6.432	mg/L	0.0317	0.49%
Pb 220.353†	13981.3	0.9664	mg/L	0.00620	0.9664	mg/L	0.00620	0.64%
Sb 206.836†	53.6	-0.0241	mg/L	0.00361	-0.0241	mg/L	0.00361	14.98%
Se 196.026†	-29.0	-0.0513	mg/L	0.00399	-0.0513	mg/L	0.00399	7.79%
Sn 189.927†	1669.4	0.2666	mg/L	0.00087	0.2666	mg/L	0.00087	0.33%
Sr 407.771†	95442.8	0.1117	mg/L	0.00344	0.1117	mg/L	0.00344	3.08%
Ti 337.279†	6064013.8	7.083	mg/L	0.0101	7.083	mg/L	0.0101	0.14%
Tl 190.801†	6.9	-0.1024	mg/L	0.00135	-0.1024	mg/L	0.00135	1.32%
V 292.402†	74576.1	0.3299	mg/L	0.00712	0.3299	mg/L	0.00712	2.16%
Zn 213.857†	195470.8	1.430	mg/L	0.0259	1.430	mg/L	0.0259	1.81%

Sequence No.: 195
Sample ID: 1307101-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 7/6/2013 3:25:41 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 1307101-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-34.5	-27.6	-0.0141 mg/L	-0.0141 mg/L	03:27:24
1	Fe 234.349†	408656.5	404887.6	270.0 mg/L	270.0 mg/L	03:27:22
1	K 766.490†	140151.2	138043.1	75.41 mg/L	75.41 mg/L	03:27:22
1	Li 670.784†	16869.9	16950.2	0.4703 mg/L	0.4703 mg/L	03:27:24
1	Na 589.592†	17767.7	17124.4	3.229 mg/L	3.229 mg/L	03:27:24
1	Sr 407.771†	70540.0	69820.0	0.0818 mg/L	0.0818 mg/L	03:27:24
1	Y 371.029	2726132.2	2726132.2	1.01 mg/L		03:27:37
1	Ag 328.068†	780.4	-1092.0	0.0026 mg/L	0.0026 mg/L	03:27:37
1	Al 237.313†	1540189.7	1526441.2	168.9 mg/L	168.9 mg/L	03:27:37
1	As 188.979†	71.5	77.5	0.0598 mg/L	0.0598 mg/L	03:27:47
1	B 182.528†	42.1	51.3	0.0549 mg/L	0.0549 mg/L	03:27:47
1	Ba 233.527†	225268.2	223291.4	1.949 mg/L	1.949 mg/L	03:27:37
1	Be 313.107†	17673.2	18948.5	0.0054 mg/L	0.0054 mg/L	03:27:37
1	Ca 315.887†	3356746.3	3327719.7	36.31 mg/L	36.31 mg/L	03:27:33
1	Cd 228.802†	332.3	170.2	0.0017 mg/L	0.0017 mg/L	03:27:47
1	Co 228.616†	7282.4	7457.1	0.1198 mg/L	0.1198 mg/L	03:27:47
1	Cr 267.716†	32323.7	31459.9	0.2776 mg/L	0.2776 mg/L	03:27:37
1	Cu 324.752†	90395.7	84760.6	0.4768 mg/L	0.4768 mg/L	03:27:37
1	Mg 279.077†	1123695.6	1113347.4	89.75 mg/L	89.75 mg/L	03:27:37
1	Mn 257.610†	3094316.1	3049757.4	3.864 mg/L	3.864 mg/L	03:27:37
1	Mn 294.920†	1552125.3	1539168.8	4.015 mg/L	4.015 mg/L	03:27:37
1	Mo 202.031†	497.6	457.1	-0.0211 mg/L	-0.0211 mg/L	03:27:47
1	Ni 231.604†	8892.9	8653.0	0.1945 mg/L	0.1945 mg/L	03:27:47
1	P 214.914†	21158.8	20991.1	13.19 mg/L	13.19 mg/L	03:27:37
1	Pb 220.353†	5320.7	5089.6	0.3241 mg/L	0.3241 mg/L	03:27:47
1	Sb 206.836†	127.1	78.1	-0.0386 mg/L	-0.0386 mg/L	03:27:47
1	Se 196.026†	-50.5	-61.0	-0.0908 mg/L	-0.0908 mg/L	03:27:47
1	Sn 189.927†	-100.5	-128.9	0.0020 mg/L	0.0020 mg/L	03:27:47
1	Ti 337.279†	11878501.4	11769768.1	13.74 mg/L	13.74 mg/L	03:27:33
1	Tl 190.801†	6.5	11.2	-0.1522 mg/L	-0.1522 mg/L	03:27:47
1	V 292.402†	129096.0	128255.8	0.5610 mg/L	0.5610 mg/L	03:27:37
1	Zn 213.857†	122611.9	120337.8	0.8741 mg/L	0.8741 mg/L	03:27:37
2	B 249.677†	-38.0	-31.4	-0.0162 mg/L	-0.0162 mg/L	03:27:28
2	Fe 234.349†	404250.9	403280.8	268.9 mg/L	268.9 mg/L	03:27:26
2	K 766.490†	139141.0	137991.6	75.38 mg/L	75.38 mg/L	03:27:26
2	Li 670.784†	16877.1	17072.5	0.4737 mg/L	0.4737 mg/L	03:27:28
2	Na 589.592†	17998.1	17475.5	3.293 mg/L	3.293 mg/L	03:27:28
2	Sr 407.771†	71245.8	71005.4	0.0832 mg/L	0.0832 mg/L	03:27:28
2	Y 371.029	2707486.8	2707486.8	1.00 mg/L		03:27:54
2	Ag 328.068†	792.5	-1074.6	0.0027 mg/L	0.0027 mg/L	03:27:54
2	Al 237.313†	1530332.2	1527116.2	169.0 mg/L	169.0 mg/L	03:27:54
2	As 188.979†	77.8	84.2	0.0647 mg/L	0.0647 mg/L	03:28:04
2	B 182.528†	30.3	39.8	0.0426 mg/L	0.0426 mg/L	03:28:04
2	Ba 233.527†	224010.2	223573.5	1.951 mg/L	1.951 mg/L	03:27:54
2	Be 313.107†	17594.5	18990.5	0.0054 mg/L	0.0054 mg/L	03:27:54
2	Ca 315.887†	3392222.1	3386014.8	36.94 mg/L	36.94 mg/L	03:27:50
2	Cd 228.802†	314.0	154.2	0.0012 mg/L	0.0012 mg/L	03:28:04
2	Co 228.616†	7240.5	7465.0	0.1194 mg/L	0.1194 mg/L	03:28:04
2	Cr 267.716†	32109.4	31466.7	0.2777 mg/L	0.2777 mg/L	03:27:54
2	Cu 324.752†	89534.0	84517.8	0.4757 mg/L	0.4757 mg/L	03:27:54
2	Mg 279.077†	1113335.9	1110679.7	89.53 mg/L	89.53 mg/L	03:27:54
2	Mn 257.610†	3075575.3	3052174.4	3.868 mg/L	3.868 mg/L	03:27:54
2	Mn 294.920†	1542940.0	1540595.8	4.019 mg/L	4.019 mg/L	03:27:54
2	Mo 202.031†	527.6	490.4	-0.0196 mg/L	-0.0196 mg/L	03:28:04
2	Ni 231.604†	8879.9	8700.7	0.1956 mg/L	0.1956 mg/L	03:28:04
2	P 214.914†	21061.5	21038.4	13.22 mg/L	13.22 mg/L	03:27:54
2	Pb 220.353†	5280.9	5086.2	0.3239 mg/L	0.3239 mg/L	03:28:04
2	Sb 206.836†	123.5	75.3	-0.0396 mg/L	-0.0396 mg/L	03:28:04
2	Se 196.026†	-39.4	-50.2	-0.0832 mg/L	-0.0832 mg/L	03:28:04
2	Sn 189.927†	-133.3	-162.3	-0.0026 mg/L	-0.0026 mg/L	03:28:04
2	Ti 337.279†	12007187.5	11979197.2	13.99 mg/L	13.99 mg/L	03:27:50

2	Tl 190.801†	-4.6	0.2	-0.1623 mg/L	-0.1623 mg/L	03:28:04
2	V 292.402†	128694.2	128735.8	0.5627 mg/L	0.5627 mg/L	03:27:54
2	Zn 213.857†	121967.7	120531.6	0.8755 mg/L	0.8755 mg/L	03:27:54

Mean Data: 1307101-07

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	2716809.5	1.01	mg/L	0.005			0.49%
Ag 328.068†	-1083.3	0.0026	mg/L	0.00005	0.0026 mg/L	0.00005	1.88%
Al 237.313†	1526778.7	169.0	mg/L	0.05	169.0 mg/L	0.05	0.03%
As 188.979†	80.8	0.0622	mg/L	0.00348	0.0622 mg/L	0.00348	5.60%
B 249.677†	-29.5	-0.0151	mg/L	0.00148	-0.0151 mg/L	0.00148	9.76%
B 182.528†	45.5	0.0488	mg/L	0.00870	0.0488 mg/L	0.00870	17.83%
Ba 233.527†	223432.4	1.950	mg/L	0.0017	1.950 mg/L	0.0017	0.09%
Be 313.107†	18969.5	0.0054	mg/L	0.00003	0.0054 mg/L	0.00003	0.53%
Ca 315.887†	3356867.3	36.62	mg/L	0.449	36.62 mg/L	0.449	1.23%
Cd 228.802†	162.2	0.0015	mg/L	0.00034	0.0015 mg/L	0.00034	22.89%
Co 228.616†	7461.1	0.1196	mg/L	0.00026	0.1196 mg/L	0.00026	0.22%
Cr 267.716†	31463.3	0.2777	mg/L	0.00004	0.2777 mg/L	0.00004	0.02%
Cu 324.752†	84639.2	0.4762	mg/L	0.00072	0.4762 mg/L	0.00072	0.15%
Fe 234.349†	404084.2	269.4	mg/L	0.76	269.4 mg/L	0.76	0.28%
K 766.490†	138017.3	75.39	mg/L	0.020	75.39 mg/L	0.020	0.03%
Li 670.784†	17011.3	0.4720	mg/L	0.00238	0.4720 mg/L	0.00238	0.50%
Mg 279.077†	1112013.5	89.64	mg/L	0.152	89.64 mg/L	0.152	0.17%
Mn 257.610†	3050965.9	3.866	mg/L	0.0024	3.866 mg/L	0.0024	0.06%
Mn 294.920†	1539882.3	4.017	mg/L	0.0026	4.017 mg/L	0.0026	0.07%
Mo 202.031†	473.7	-0.0204	mg/L	0.00112	-0.0204 mg/L	0.00112	5.51%
Na 589.592†	17299.9	3.261	mg/L	0.0452	3.261 mg/L	0.0452	1.39%
Ni 231.604†	8676.8	0.1951	mg/L	0.00075	0.1951 mg/L	0.00075	0.39%
P 214.914†	21014.7	13.20	mg/L	0.021	13.20 mg/L	0.021	0.16%
Pb 220.353†	5087.9	0.3240	mg/L	0.00018	0.3240 mg/L	0.00018	0.05%
Sb 206.836†	76.7	-0.0391	mg/L	0.00070	-0.0391 mg/L	0.00070	1.78%
Se 196.026†	-55.6	-0.0870	mg/L	0.00536	-0.0870 mg/L	0.00536	6.16%
Sn 189.927†	-145.6	-0.0003	mg/L	0.00322	-0.0003 mg/L	0.00322	999.76%
Sr 407.771†	70412.7	0.0825	mg/L	0.00098	0.0825 mg/L	0.00098	1.19%
Ti 337.279†	11874482.6	13.86	mg/L	0.173	13.86 mg/L	0.173	1.25%
Tl 190.801†	5.7	-0.1573	mg/L	0.00711	-0.1573 mg/L	0.00711	4.52%
V 292.402†	128495.8	0.5618	mg/L	0.00121	0.5618 mg/L	0.00121	0.22%
Zn 213.857†	120434.7	0.8748	mg/L	0.00104	0.8748 mg/L	0.00104	0.12%

Sequence No.: 196

Sample ID: 1307101-08

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 18

Date Collected: 7/6/2013 3:31:13 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1307101-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-19.4	-11.6	-0.0051 mg/L	-0.0051 mg/L	03:32:57
1	Fe 234.349†	457107.5	425228.2	283.5 mg/L	283.5 mg/L	03:32:54
1	K 766.490†	49611.9	45334.8	24.88 mg/L	24.88 mg/L	03:32:57
1	Li 670.784†	14662.6	13875.9	0.3858 mg/L	0.3858 mg/L	03:32:57
1	Na 589.592†	14558.9	13064.1	2.490 mg/L	2.490 mg/L	03:32:57
1	Sr 407.771†	298654.3	277759.6	0.3242 mg/L	0.3242 mg/L	03:32:54
1	Y 371.029	2903485.6	2903485.6	1.07 mg/L		03:33:07
1	Ag 328.068†	1160.7	-785.4	0.0046 mg/L	0.0046 mg/L	03:33:09
1	Al 237.313†	1285954.0	1196719.3	132.5 mg/L	132.5 mg/L	03:33:07
1	As 188.979†	119.1	117.5	0.0893 mg/L	0.0893 mg/L	03:33:20
1	B 182.528†	35.9	42.9	0.0460 mg/L	0.0460 mg/L	03:33:20
1	Ba 233.527†	259403.8	241413.5	2.106 mg/L	2.106 mg/L	03:33:09
1	Be 313.107†	17969.3	18154.4	0.0071 mg/L	0.0071 mg/L	03:33:09
1	Ca 315.887†	3595068.8	3346272.5	36.51 mg/L	36.51 mg/L	03:33:07
1	Cd 228.802†	854.9	636.3	0.0161 mg/L	0.0161 mg/L	03:33:20
1	Co 228.616†	7378.8	7106.1	0.1307 mg/L	0.1307 mg/L	03:33:20
1	Cr 267.716†	40963.6	37541.1	0.3307 mg/L	0.3307 mg/L	03:33:09
1	Cu 324.752†	682456.1	630067.9	3.400 mg/L	3.400 mg/L	03:33:07
1	Mg 279.077†	768155.8	714591.5	57.62 mg/L	57.62 mg/L	03:33:07
1	Mn 257.610†	3836182.8	3552626.4	4.508 mg/L	4.508 mg/L	03:33:07
1	Mn 294.920†	1924200.3	1791364.7	4.673 mg/L	4.673 mg/L	03:33:07

1	Mo 202.031†	931.5	830.6	-0.0238	mg/L	-0.0238	mg/L	03:33:20
1	Ni 231.604†	18109.6	16688.8	0.3737	mg/L	0.3737	mg/L	03:33:09
1	P 214.914†	12069.2	11254.7	7.061	mg/L	7.061	mg/L	03:33:20
1	Pb 220.353†	62391.7	57859.2	4.049	mg/L	4.049	mg/L	03:33:09
1	Sb 206.836†	121.1	64.9	-0.0490	mg/L	-0.0490	mg/L	03:33:20
1	Se 196.026†	-45.0	-52.8	-0.0879	mg/L	-0.0879	mg/L	03:33:20
1	Sn 189.927†	1964.5	1798.2	0.2873	mg/L	0.2873	mg/L	03:33:20
1	Ti 337.279†	4919740.6	4577323.8	5.348	mg/L	5.348	mg/L	03:33:07
1	Tl 190.801†	-10.4	-4.8	-0.1749	mg/L	-0.1749	mg/L	03:33:20
1	V 292.402†	88718.9	82881.1	0.3700	mg/L	0.3700	mg/L	03:33:09
1	Zn 213.857†	631161.2	586007.1	4.295	mg/L	4.295	mg/L	03:33:09
2	B 249.677†	-26.5	-18.4	-0.0089	mg/L	-0.0089	mg/L	03:33:01
2	Fe 234.349†	453048.6	426181.5	284.1	mg/L	284.1	mg/L	03:32:59
2	K 766.490†	49578.3	45821.1	25.15	mg/L	25.15	mg/L	03:33:01
2	Li 670.784†	14554.8	13927.5	0.3873	mg/L	0.3873	mg/L	03:33:01
2	Na 589.592†	14479.7	13141.5	2.504	mg/L	2.504	mg/L	03:33:01
2	Sr 407.771†	296232.7	278599.1	0.3252	mg/L	0.3252	mg/L	03:32:59
2	Y 371.029	2871267.0	2871267.0	1.06	mg/L	1.06	mg/L	03:33:23
2	Ag 328.068†	1226.9	-711.0	0.0050	mg/L	0.0050	mg/L	03:33:26
2	Al 237.313†	1270763.5	1195853.0	132.4	mg/L	132.4	mg/L	03:33:23
2	As 188.979†	119.5	119.0	0.0904	mg/L	0.0904	mg/L	03:33:36
2	B 182.528†	32.9	40.5	0.0434	mg/L	0.0434	mg/L	03:33:36
2	Ba 233.527†	260788.7	245424.1	2.141	mg/L	2.141	mg/L	03:33:26
2	Be 313.107†	18004.2	18374.8	0.0072	mg/L	0.0072	mg/L	03:33:26
2	Ca 315.887†	3554187.2	3345342.4	36.50	mg/L	36.50	mg/L	03:33:23
2	Cd 228.802†	864.9	654.6	0.0166	mg/L	0.0166	mg/L	03:33:36
2	Co 228.616†	7467.9	7266.9	0.1340	mg/L	0.1340	mg/L	03:33:36
2	Cr 267.716†	41180.5	38172.8	0.3362	mg/L	0.3362	mg/L	03:33:26
2	Cu 324.752†	675691.7	630828.4	3.404	mg/L	3.404	mg/L	03:33:23
2	Mg 279.077†	759462.6	714432.2	57.60	mg/L	57.60	mg/L	03:33:23
2	Mn 257.610†	3794080.9	3553065.2	4.509	mg/L	4.509	mg/L	03:33:23
2	Mn 294.920†	1901662.8	1790249.4	4.670	mg/L	4.670	mg/L	03:33:23
2	Mo 202.031†	966.4	873.2	-0.0221	mg/L	-0.0221	mg/L	03:33:36
2	Ni 231.604†	18111.5	16879.7	0.3780	mg/L	0.3780	mg/L	03:33:26
2	P 214.914†	12192.6	11496.8	7.213	mg/L	7.213	mg/L	03:33:36
2	Pb 220.353†	62841.9	58934.0	4.125	mg/L	4.125	mg/L	03:33:26
2	Sb 206.836†	129.3	73.8	-0.0450	mg/L	-0.0450	mg/L	03:33:36
2	Se 196.026†	-56.9	-64.4	-0.0959	mg/L	-0.0959	mg/L	03:33:36
2	Sn 189.927†	2068.3	1916.4	0.3048	mg/L	0.3048	mg/L	03:33:36
2	Ti 337.279†	4863722.5	4575982.2	5.346	mg/L	5.346	mg/L	03:33:23
2	Tl 190.801†	-10.3	-4.9	-0.1753	mg/L	-0.1753	mg/L	03:33:36
2	V 292.402†	89463.5	84507.6	0.3774	mg/L	0.3774	mg/L	03:33:26
2	Zn 213.857†	635111.2	596311.3	4.371	mg/L	4.371	mg/L	03:33:26

Mean Data: 1307101-08

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2887376.3	1.07 mg/L	0.008			0.79%
Ag 328.068†	-748.2	0.0048 mg/L	0.00030	0.0048 mg/L	0.00030	6.32%
Al 237.313†	1196286.1	132.4 mg/L	0.07	132.4 mg/L	0.07	0.05%
As 188.979†	118.2	0.0898 mg/L	0.00079	0.0898 mg/L	0.00079	0.88%
B 249.677†	-15.0	-0.0070 mg/L	0.00269	-0.0070 mg/L	0.00269	38.32%
B 182.528†	41.7	0.0447 mg/L	0.00181	0.0447 mg/L	0.00181	4.04%
Ba 233.527†	243418.8	2.124 mg/L	0.0247	2.124 mg/L	0.0247	1.16%
Be 313.107†	18264.6	0.0072 mg/L	0.00007	0.0072 mg/L	0.00007	0.97%
Ca 315.887†	3345807.5	36.50 mg/L	0.007	36.50 mg/L	0.007	0.02%
Cd 228.802†	645.4	0.0163 mg/L	0.00040	0.0163 mg/L	0.00040	2.42%
Co 228.616†	7186.5	0.1324 mg/L	0.00228	0.1324 mg/L	0.00228	1.72%
Cr 267.716†	37856.9	0.3334 mg/L	0.00389	0.3334 mg/L	0.00389	1.17%
Cu 324.752†	630448.2	3.402 mg/L	0.0029	3.402 mg/L	0.0029	0.08%
Fe 234.349†	425704.9	283.8 mg/L	0.45	283.8 mg/L	0.45	0.16%
K 766.490†	45578.0	25.01 mg/L	0.187	25.01 mg/L	0.187	0.75%
Li 670.784†	13901.7	0.3866 mg/L	0.00100	0.3866 mg/L	0.00100	0.26%
Mg 279.077†	714511.8	57.61 mg/L	0.009	57.61 mg/L	0.009	0.02%
Mn 257.610†	3552845.8	4.508 mg/L	0.0003	4.508 mg/L	0.0003	0.01%
Mn 294.920†	1790807.1	4.672 mg/L	0.0021	4.672 mg/L	0.0021	0.04%
Mo 202.031†	851.9	-0.0229 mg/L	0.00120	-0.0229 mg/L	0.00120	5.21%
Na 589.592†	13102.8	2.497 mg/L	0.0100	2.497 mg/L	0.0100	0.40%
Ni 231.604†	16784.3	0.3758 mg/L	0.00301	0.3758 mg/L	0.00301	0.80%
P 214.914†	11375.8	7.137 mg/L	0.1072	7.137 mg/L	0.1072	1.50%
Pb 220.353†	58396.6	4.087 mg/L	0.0536	4.087 mg/L	0.0536	1.31%
Sb 206.836†	69.3	-0.0470 mg/L	0.00281	-0.0470 mg/L	0.00281	5.98%

2	Ni 231.604†	18242.4	17548.5	0.3934 mg/L	0.3934 mg/L	03:38:59
2	P 214.914†	13341.5	12976.7	8.108 mg/L	8.108 mg/L	03:39:09
2	Pb 220.353†	32146.0	31019.6	2.158 mg/L	2.158 mg/L	03:38:59
2	Sb 206.836†	140.3	88.3	-0.0398 mg/L	-0.0398 mg/L	03:39:09
2	Se 196.026†	-51.2	-60.6	-0.0925 mg/L	-0.0925 mg/L	03:39:09
2	Sn 189.927†	3739.5	3600.3	0.5508 mg/L	0.5508 mg/L	03:39:09
2	Ti 337.279†	7180945.4	6970622.1	8.141 mg/L	8.141 mg/L	03:38:56
2	Tl 190.801†	-13.6	-8.4	-0.1766 mg/L	-0.1766 mg/L	03:39:09
2	V 292.402†	102010.9	99362.6	0.4473 mg/L	0.4473 mg/L	03:38:59
2	Zn 213.857†	500145.4	484308.0	3.543 mg/L	3.543 mg/L	03:38:59

Mean Data: 1307101-09

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2788537.8	1.03	mg/L	0.003			0.29%
Ag 328.068†	-775.9	0.0046	mg/L	0.00004	0.0046 mg/L	0.00004	0.83%
Al 237.313†	1175718.6	130.1	mg/L	0.26	130.1 mg/L	0.26	0.20%
As 188.979†	112.4	0.0855	mg/L	0.00017	0.0855 mg/L	0.00017	0.20%
B 249.677†	-34.9	-0.0176	mg/L	0.00568	-0.0176 mg/L	0.00568	32.31%
B 182.528†	40.1	0.0429	mg/L	0.00020	0.0429 mg/L	0.00020	0.47%
Ba 233.527†	615795.7	5.368	mg/L	0.0557	5.368 mg/L	0.0557	1.04%
Be 313.107†	19915.9	0.0073	mg/L	0.00015	0.0073 mg/L	0.00015	1.99%
Ca 315.887†	2875641.8	31.38	mg/L	0.122	31.38 mg/L	0.122	0.39%
Cd 228.802†	390.5	0.0084	mg/L	0.00009	0.0084 mg/L	0.00009	1.12%
Co 228.616†	6463.8	0.1121	mg/L	0.00003	0.1121 mg/L	0.00003	0.03%
Cr 267.716†	117351.8	1.027	mg/L	0.0103	1.027 mg/L	0.0103	1.01%
Cu 324.752†	1141723.6	6.155	mg/L	0.0025	6.155 mg/L	0.0025	0.04%
Fe 234.349†	420457.0	280.3	mg/L	0.23	280.3 mg/L	0.23	0.08%
K 766.490†	63308.5	34.68	mg/L	0.608	34.68 mg/L	0.608	1.75%
Li 670.784†	10767.4	0.3004	mg/L	0.00111	0.3004 mg/L	0.00111	0.37%
Mg 279.077†	689648.3	55.61	mg/L	0.210	55.61 mg/L	0.210	0.38%
Mn 257.610†	3265151.1	4.139	mg/L	0.0075	4.139 mg/L	0.0075	0.18%
Mn 294.920†	1644759.9	4.291	mg/L	0.0096	4.291 mg/L	0.0096	0.22%
Mo 202.031†	8514.3	0.2877	mg/L	0.00070	0.2877 mg/L	0.00070	0.24%
Na 589.592†	10984.6	2.112	mg/L	0.0274	2.112 mg/L	0.0274	1.30%
Ni 231.604†	17429.3	0.3907	mg/L	0.00376	0.3907 mg/L	0.00376	0.96%
P 214.914†	12977.6	8.109	mg/L	0.0008	8.109 mg/L	0.0008	0.01%
Pb 220.353†	30762.5	2.139	mg/L	0.0257	2.139 mg/L	0.0257	1.20%
Sb 206.836†	81.6	-0.0430	mg/L	0.00447	-0.0430 mg/L	0.00447	10.40%
Se 196.026†	-59.2	-0.0916	mg/L	0.00127	-0.0916 mg/L	0.00127	1.39%
Sn 189.927†	3609.3	0.5522	mg/L	0.00197	0.5522 mg/L	0.00197	0.36%
Sr 407.771†	159011.6	0.1858	mg/L	0.00027	0.1858 mg/L	0.00027	0.14%
Ti 337.279†	6979528.9	8.151	mg/L	0.0147	8.151 mg/L	0.0147	0.18%
Tl 190.801†	-6.1	-0.1745	mg/L	0.00302	-0.1745 mg/L	0.00302	1.73%
V 292.402†	98616.4	0.4439	mg/L	0.00486	0.4439 mg/L	0.00486	1.09%
Zn 213.857†	481034.4	3.519	mg/L	0.0341	3.519 mg/L	0.0341	0.97%

Sequence No.: 198

Sample ID: CF30511-DUP2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 7/6/2013 3:42:18 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30511-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-31.5	-24.5	-0.0122 mg/L	-0.0122 mg/L	03:44:02
1	Fe 234.349†	379751.1	373969.4	249.3 mg/L	249.3 mg/L	03:44:00
1	K 766.490†	51804.4	50198.8	27.53 mg/L	27.53 mg/L	03:44:02
1	Li 670.784†	10033.1	10116.2	0.2825 mg/L	0.2825 mg/L	03:44:02
1	Na 589.592†	10946.1	10299.9	1.987 mg/L	1.987 mg/L	03:44:02
1	Sr 407.771†	167358.5	164742.9	0.1925 mg/L	0.1925 mg/L	03:44:00
1	Y 371.029	2742745.1	2742745.1	1.02 mg/L		03:44:13
1	Ag 328.068†	1388.4	-497.9	0.0053 mg/L	0.0053 mg/L	03:44:15
1	Al 237.313†	1084088.3	1068032.7	118.2 mg/L	118.2 mg/L	03:44:13
1	As 188.979†	81.6	87.0	0.0670 mg/L	0.0670 mg/L	03:44:25
1	B 182.528†	29.1	38.2	0.0409 mg/L	0.0409 mg/L	03:44:25
1	Ba 233.527†	635585.6	626017.1	5.457 mg/L	5.457 mg/L	03:44:15
1	Be 313.107†	17181.9	18358.6	0.0069 mg/L	0.0069 mg/L	03:44:15
1	Ca 315.887†	2419020.0	2384109.0	26.02 mg/L	26.02 mg/L	03:44:13

1	Cd	228.802†	598.3	430.2	0.0102	mg/L	0.0102	mg/L	03:44:25
1	Co	228.616†	5421.2	5580.6	0.0973	mg/L	0.0973	mg/L	03:44:25
1	Cr	267.716†	55710.0	54296.6	0.4768	mg/L	0.4768	mg/L	03:44:15
1	Cu	324.752†	1004264.0	984189.0	5.306	mg/L	5.306	mg/L	03:44:13
1	Mg	279.077†	648975.6	639103.0	51.53	mg/L	51.53	mg/L	03:44:13
1	Mn	257.610†	2827889.0	2768812.1	3.508	mg/L	3.508	mg/L	03:44:13
1	Mn	294.920†	1414823.7	1394640.4	3.639	mg/L	3.639	mg/L	03:44:13
1	Mo	202.031†	2649.6	2573.3	0.0447	mg/L	0.0447	mg/L	03:44:25
1	Ni	231.604†	14925.0	14540.0	0.3259	mg/L	0.3259	mg/L	03:44:25
1	P	214.914†	11821.6	11668.9	7.300	mg/L	7.300	mg/L	03:44:25
1	Pb	220.353†	28181.1	27570.5	1.917	mg/L	1.917	mg/L	03:44:25
1	Sb	206.836†	118.4	68.8	-0.0379	mg/L	-0.0379	mg/L	03:44:25
1	Se	196.026†	-37.9	-48.3	-0.0779	mg/L	-0.0779	mg/L	03:44:25
1	Sn	189.927†	2045.3	1984.9	0.3085	mg/L	0.3085	mg/L	03:44:25
1	Ti	337.279†	5835946.8	5747818.0	6.714	mg/L	6.714	mg/L	03:44:13
1	Tl	190.801†	-9.8	-4.8	-0.1546	mg/L	-0.1546	mg/L	03:44:25
1	V	292.402†	86401.1	85435.5	0.3807	mg/L	0.3807	mg/L	03:44:15
1	Zn	213.857†	553127.2	543570.3	3.982	mg/L	3.982	mg/L	03:44:15
2	B	249.677†	-45.9	-38.3	-0.0198	mg/L	-0.0198	mg/L	03:44:07
2	Fe	234.349†	387073.4	376963.2	251.3	mg/L	251.3	mg/L	03:44:05
2	K	766.490†	52335.9	50151.9	27.51	mg/L	27.51	mg/L	03:44:07
2	Li	670.784†	10227.4	10196.0	0.2847	mg/L	0.2847	mg/L	03:44:07
2	Na	589.592†	11068.2	10299.6	1.987	mg/L	1.987	mg/L	03:44:07
2	Sr	407.771†	170080.6	165570.5	0.1934	mg/L	0.1934	mg/L	03:44:05
2	Y	371.029	2773427.5	2773427.5	1.03	mg/L	1.03	mg/L	03:44:29
2	Ag	328.068†	1242.4	-655.2	0.0045	mg/L	0.0045	mg/L	03:44:32
2	Al	237.313†	1097549.1	1069331.3	118.4	mg/L	118.4	mg/L	03:44:29
2	As	188.979†	89.8	94.0	0.0722	mg/L	0.0722	mg/L	03:44:42
2	B	182.528†	30.0	38.8	0.0415	mg/L	0.0415	mg/L	03:44:42
2	Ba	233.527†	654987.0	637987.6	5.561	mg/L	5.561	mg/L	03:44:32
2	Be	313.107†	17690.3	18666.5	0.0070	mg/L	0.0070	mg/L	03:44:32
2	Ca	315.887†	2447208.5	2385207.0	26.03	mg/L	26.03	mg/L	03:44:29
2	Cd	228.802†	596.3	421.7	0.0099	mg/L	0.0099	mg/L	03:44:42
2	Co	228.616†	5476.0	5574.9	0.0972	mg/L	0.0972	mg/L	03:44:42
2	Cr	267.716†	57513.1	55445.7	0.4868	mg/L	0.4868	mg/L	03:44:32
2	Cu	324.752†	1016676.9	985336.7	5.313	mg/L	5.313	mg/L	03:44:29
2	Mg	279.077†	657505.3	640339.6	51.63	mg/L	51.63	mg/L	03:44:29
2	Mn	257.610†	2863976.2	2773148.2	3.513	mg/L	3.513	mg/L	03:44:29
2	Mn	294.920†	1432958.7	1396887.9	3.644	mg/L	3.644	mg/L	03:44:29
2	Mo	202.031†	2668.3	2562.7	0.0439	mg/L	0.0439	mg/L	03:44:42
2	Ni	231.604†	15035.2	14484.8	0.3247	mg/L	0.3247	mg/L	03:44:42
2	P	214.914†	11806.8	11525.7	7.210	mg/L	7.210	mg/L	03:44:42
2	Pb	220.353†	28162.3	27245.1	1.894	mg/L	1.894	mg/L	03:44:42
2	Sb	206.836†	111.8	61.1	-0.0422	mg/L	-0.0422	mg/L	03:44:42
2	Se	196.026†	-36.2	-46.1	-0.0769	mg/L	-0.0769	mg/L	03:44:42
2	Sn	189.927†	2035.9	1953.5	0.3038	mg/L	0.3038	mg/L	03:44:42
2	Ti	337.279†	5910862.5	5757197.0	6.725	mg/L	6.725	mg/L	03:44:29
2	Tl	190.801†	-12.8	-7.7	-0.1586	mg/L	-0.1586	mg/L	03:44:42
2	V	292.402†	88887.5	86915.6	0.3874	mg/L	0.3874	mg/L	03:44:32
2	Zn	213.857†	570026.8	554002.5	4.059	mg/L	4.059	mg/L	03:44:32

Mean Data: CF30511-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2758086.3	1.02	mg/L	0.008				0.79%
Ag 328.068†	-576.5	0.0049	mg/L	0.00058	0.0049	mg/L	0.00058	11.79%
Al 237.313†	1068682.0	118.3	mg/L	0.10	118.3	mg/L	0.10	0.09%
As 188.979†	90.5	0.0696	mg/L	0.00363	0.0696	mg/L	0.00363	5.21%
B 249.677†	-31.4	-0.0160	mg/L	0.00542	-0.0160	mg/L	0.00542	33.80%
B 182.528†	38.5	0.0412	mg/L	0.00045	0.0412	mg/L	0.00045	1.09%
Ba 233.527†	632002.4	5.509	mg/L	0.0737	5.509	mg/L	0.0737	1.34%
Be 313.107†	18512.6	0.0070	mg/L	0.00009	0.0070	mg/L	0.00009	1.36%
Ca 315.887†	2384658.0	26.03	mg/L	0.008	26.03	mg/L	0.008	0.03%
Cd 228.802†	425.9	0.0101	mg/L	0.00021	0.0101	mg/L	0.00021	2.10%
Co 228.616†	5577.7	0.0973	mg/L	0.00010	0.0973	mg/L	0.00010	0.10%
Cr 267.716†	54871.1	0.4818	mg/L	0.00708	0.4818	mg/L	0.00708	1.47%
Cu 324.752†	984762.9	5.309	mg/L	0.0044	5.309	mg/L	0.0044	0.08%
Fe 234.349†	375466.3	250.3	mg/L	1.41	250.3	mg/L	1.41	0.56%
K 766.490†	50175.3	27.52	mg/L	0.018	27.52	mg/L	0.018	0.07%
Li 670.784†	10156.1	0.2836	mg/L	0.00155	0.2836	mg/L	0.00155	0.55%
Mg 279.077†	639721.3	51.58	mg/L	0.070	51.58	mg/L	0.070	0.14%
Mn 257.610†	2770980.2	3.510	mg/L	0.0036	3.510	mg/L	0.0036	0.10%

Mn 294.920†	1395764.2	3.641 mg/L	0.0041	3.641 mg/L	0.0041	0.11%
Mo 202.031†	2568.0	0.0443 mg/L	0.00056	0.0443 mg/L	0.00056	1.26%
Na 589.592†	10299.8	1.987 mg/L	0.0000	1.987 mg/L	0.0000	0.00%
Ni 231.604†	14512.4	0.3253 mg/L	0.00087	0.3253 mg/L	0.00087	0.27%
P 214.914†	11597.3	7.255 mg/L	0.0634	7.255 mg/L	0.0634	0.87%
Pb 220.353†	27407.8	1.905 mg/L	0.0162	1.905 mg/L	0.0162	0.85%
Sb 206.836†	64.9	-0.0400 mg/L	0.00303	-0.0400 mg/L	0.00303	7.57%
Se 196.026†	-47.2	-0.0774 mg/L	0.00074	-0.0774 mg/L	0.00074	0.96%
Sn 189.927†	1969.2	0.3062 mg/L	0.00328	0.3062 mg/L	0.00328	1.07%
Sr 407.771†	165156.7	0.1929 mg/L	0.00068	0.1929 mg/L	0.00068	0.35%
Ti 337.279†	5752507.5	6.719 mg/L	0.0077	6.719 mg/L	0.0077	0.12%
Tl 190.801†	-6.3	-0.1566 mg/L	0.00285	-0.1566 mg/L	0.00285	1.82%
V 292.402†	86175.5	0.3841 mg/L	0.00474	0.3841 mg/L	0.00474	1.23%
Zn 213.857†	548786.4	4.020 mg/L	0.0542	4.020 mg/L	0.0542	1.35%

Sequence No.: 199

Sample ID: CF30511-MS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 7/6/2013 3:47:51 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30511-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Units	Analysis Time
1	B 249.677†	633.9	626.4	0.3504 mg/L	0.3504 mg/L		03:49:38
1	Fe 234.349†	322380.5	315218.4	210.1 mg/L	210.1 mg/L		03:49:35
1	K 766.490†	85652.0	82933.1	45.37 mg/L	45.37 mg/L		03:49:38
1	Li 670.784†	23798.7	23506.1	0.6505 mg/L	0.6505 mg/L		03:49:38
1	Na 589.592†	122059.8	118871.0	21.74 mg/L	21.74 mg/L		03:49:35
1	Sr 407.771†	252509.0	246834.0	0.2882 mg/L	0.2882 mg/L		03:49:35
1	Y 371.029	2762346.0	2762346.0	1.02 mg/L			03:49:48
1	Ag 328.068†	35227.4	32580.4	0.1877 mg/L	0.1877 mg/L		03:49:51
1	Al 237.313†	1047367.2	1024551.2	113.4 mg/L	113.4 mg/L		03:49:48
1	As 188.979†	569.1	563.1	0.4131 mg/L	0.4131 mg/L		03:50:01
1	B 182.528†	363.4	364.9	0.3916 mg/L	0.3916 mg/L		03:50:01
1	Ba 233.527†	553867.3	541671.2	4.722 mg/L	4.722 mg/L		03:49:51
1	Be 313.107†	104330.8	103453.1	0.0443 mg/L	0.0443 mg/L		03:49:51
1	Ca 315.887†	3566500.5	3489217.2	38.07 mg/L	38.07 mg/L		03:49:48
1	Cd 228.802†	6500.3	6197.0	0.1910 mg/L	0.1910 mg/L		03:50:01
1	Co 228.616†	23059.0	22789.0	0.4417 mg/L	0.4417 mg/L		03:50:01
1	Cr 267.716†	74678.4	72454.6	0.6352 mg/L	0.6352 mg/L		03:49:51
1	Cu 324.752†	821104.0	798076.6	4.305 mg/L	4.305 mg/L		03:49:48
1	Mg 279.077†	629675.2	615696.1	49.65 mg/L	49.65 mg/L		03:49:48
1	Mn 257.610†	2843758.1	2764568.1	3.511 mg/L	3.511 mg/L		03:49:48
1	Mn 294.920†	1416973.8	1386856.2	3.618 mg/L	3.618 mg/L		03:49:48
1	Mo 202.031†	9205.7	8965.5	0.3278 mg/L	0.3278 mg/L		03:50:01
1	Ni 231.604†	29687.1	28870.2	0.6458 mg/L	0.6458 mg/L		03:49:51
1	P 214.914†	17599.1	17235.6	10.80 mg/L	10.80 mg/L		03:50:01
1	Pb 220.353†	54089.7	52707.1	3.691 mg/L	3.691 mg/L		03:49:51
1	Sb 206.836†	439.4	381.8	0.1210 mg/L	0.1210 mg/L		03:50:01
1	Se 196.026†	1008.7	975.4	0.6315 mg/L	0.6315 mg/L		03:50:01
1	Sn 189.927†	4306.3	4181.4	0.6410 mg/L	0.6410 mg/L		03:50:01
1	Ti 337.279†	5889359.6	5759264.5	6.727 mg/L	6.727 mg/L		03:49:48
1	Tl 190.801†	370.4	367.0	0.2289 mg/L	0.2289 mg/L		03:50:01
1	V 292.402†	169314.6	165904.9	0.7512 mg/L	0.7512 mg/L		03:49:51
1	Zn 213.857†	531699.8	518753.2	3.800 mg/L	3.800 mg/L		03:49:51
2	B 249.677†	616.2	613.2	0.3431 mg/L	0.3431 mg/L		03:49:42
2	Fe 234.349†	324737.8	319744.6	213.2 mg/L	213.2 mg/L		03:49:40
2	K 766.490†	84475.3	82360.3	45.06 mg/L	45.06 mg/L		03:49:42
2	Li 670.784†	23552.1	23426.0	0.6483 mg/L	0.6483 mg/L		03:49:42
2	Na 589.592†	122718.3	120354.2	22.01 mg/L	22.01 mg/L		03:49:40
2	Sr 407.771†	254088.4	250116.3	0.2920 mg/L	0.2920 mg/L		03:49:40
2	Y 371.029	2743157.1	2743157.1	1.02 mg/L			03:50:05
2	Ag 328.068†	34822.3	32422.4	0.1869 mg/L	0.1869 mg/L		03:50:07
2	Al 237.313†	1038990.9	1023467.5	113.3 mg/L	113.3 mg/L		03:50:05
2	As 188.979†	572.5	570.4	0.4183 mg/L	0.4183 mg/L		03:50:17
2	B 182.528†	366.6	370.5	0.3976 mg/L	0.3976 mg/L		03:50:17
2	Ba 233.527†	546108.4	537819.9	4.689 mg/L	4.689 mg/L		03:50:07
2	Be 313.107†	102795.7	102655.3	0.0440 mg/L	0.0440 mg/L		03:50:07
2	Ca 315.887†	3545467.2	3492901.6	38.11 mg/L	38.11 mg/L		03:50:05
2	Cd 228.802†	6575.4	6315.4	0.1946 mg/L	0.1946 mg/L		03:50:17

2	Co	228.616†	23297.9	23182.0	0.4496	mg/L	0.4496	mg/L	03:50:17
2	Cr	267.716†	73462.0	71767.7	0.6293	mg/L	0.6293	mg/L	03:50:07
2	Cu	324.752†	816312.8	798975.3	4.310	mg/L	4.310	mg/L	03:50:05
2	Mg	279.077†	625180.8	615577.6	49.64	mg/L	49.64	mg/L	03:50:05
2	Mn	257.610†	2822421.0	2763009.7	3.508	mg/L	3.508	mg/L	03:50:05
2	Mn	294.920†	1406349.0	1386086.6	3.616	mg/L	3.616	mg/L	03:50:05
2	Mo	202.031†	9281.1	9102.7	0.3331	mg/L	0.3331	mg/L	03:50:17
2	Ni	231.604†	29224.4	28617.6	0.6401	mg/L	0.6401	mg/L	03:50:07
2	P	214.914†	17843.5	17596.6	11.02	mg/L	11.02	mg/L	03:50:17
2	Pb	220.353†	53302.8	52302.2	3.662	mg/L	3.662	mg/L	03:50:07
2	Sb	206.836†	438.8	384.2	0.1214	mg/L	0.1214	mg/L	03:50:17
2	Se	196.026†	1027.6	1000.9	0.6484	mg/L	0.6484	mg/L	03:50:17
2	Sn	189.927†	4369.2	4272.8	0.6546	mg/L	0.6546	mg/L	03:50:17
2	Ti	337.279†	5845324.3	5756188.2	6.724	mg/L	6.724	mg/L	03:50:05
2	Tl	190.801†	379.3	378.2	0.2381	mg/L	0.2381	mg/L	03:50:17
2	V	292.402†	167082.1	164864.8	0.7465	mg/L	0.7465	mg/L	03:50:07
2	Zn	213.857†	524189.8	514995.4	3.773	mg/L	3.773	mg/L	03:50:07

Mean Data: CF30511-MS2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2752751.6	1.02	mg/L	0.005				0.49%
Ag 328.068†	32501.4	0.1873	mg/L	0.00057	0.1873	mg/L	0.00057	0.30%
Al 237.313†	1024009.4	113.3	mg/L	0.08	113.3	mg/L	0.08	0.07%
As 188.979†	566.7	0.4157	mg/L	0.00372	0.4157	mg/L	0.00372	0.89%
B 249.677†	619.8	0.3468	mg/L	0.00516	0.3468	mg/L	0.00516	1.49%
B 182.528†	367.7	0.3946	mg/L	0.00427	0.3946	mg/L	0.00427	1.08%
Ba 233.527†	539745.5	4.706	mg/L	0.0237	4.706	mg/L	0.0237	0.50%
Be 313.107†	103054.2	0.0442	mg/L	0.00025	0.0442	mg/L	0.00025	0.56%
Ca 315.887†	3491059.4	38.09	mg/L	0.028	38.09	mg/L	0.028	0.07%
Cd 228.802†	6256.2	0.1928	mg/L	0.00258	0.1928	mg/L	0.00258	1.34%
Co 228.616†	22985.5	0.4457	mg/L	0.00557	0.4457	mg/L	0.00557	1.25%
Cr 267.716†	72111.2	0.6323	mg/L	0.00423	0.6323	mg/L	0.00423	0.67%
Cu 324.752†	798526.0	4.308	mg/L	0.0034	4.308	mg/L	0.0034	0.08%
Fe 234.349†	317481.5	211.7	mg/L	2.13	211.7	mg/L	2.13	1.01%
K 766.490†	82646.7	45.22	mg/L	0.221	45.22	mg/L	0.221	0.49%
Li 670.784†	23466.1	0.6494	mg/L	0.00156	0.6494	mg/L	0.00156	0.24%
Mg 279.077†	615636.8	49.64	mg/L	0.007	49.64	mg/L	0.007	0.01%
Mn 257.610†	2763788.9	3.510	mg/L	0.0019	3.510	mg/L	0.0019	0.05%
Mn 294.920†	1386471.4	3.617	mg/L	0.0014	3.617	mg/L	0.0014	0.04%
Mo 202.031†	9034.1	0.3305	mg/L	0.00378	0.3305	mg/L	0.00378	1.14%
Na 589.592†	119612.6	21.88	mg/L	0.191	21.88	mg/L	0.191	0.87%
Ni 231.604†	28743.9	0.6430	mg/L	0.00397	0.6430	mg/L	0.00397	0.62%
P 214.914†	17416.1	10.91	mg/L	0.160	10.91	mg/L	0.160	1.46%
Pb 220.353†	52504.7	3.677	mg/L	0.0201	3.677	mg/L	0.0201	0.55%
Sb 206.836†	383.0	0.1212	mg/L	0.00026	0.1212	mg/L	0.00026	0.22%
Se 196.026†	988.2	0.6400	mg/L	0.01192	0.6400	mg/L	0.01192	1.86%
Sn 189.927†	4227.1	0.6478	mg/L	0.00959	0.6478	mg/L	0.00959	1.48%
Sr 407.771†	248475.1	0.2901	mg/L	0.00271	0.2901	mg/L	0.00271	0.93%
Ti 337.279†	5757726.4	6.725	mg/L	0.0025	6.725	mg/L	0.0025	0.04%
Tl 190.801†	372.6	0.2335	mg/L	0.00646	0.2335	mg/L	0.00646	2.77%
V 292.402†	165384.8	0.7488	mg/L	0.00329	0.7488	mg/L	0.00329	0.44%
Zn 213.857†	516874.3	3.786	mg/L	0.0196	3.786	mg/L	0.0196	0.52%

Sequence No.: 200

Sample ID: CF30511-SD2 @5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 7/6/2013 3:53:27 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CF30511-SD2 @5

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	B 249.677†	-19.7	-12.8	-0.0057	mg/L	-0.0057	mg/L	03:55:21
1	Fe 234.349†	117183.4	115321.9	76.90	mg/L	76.90	mg/L	03:55:11
1	K 766.490†	18097.3	16993.1	9.435	mg/L	9.435	mg/L	03:55:11
1	Li 670.784†	2786.6	2978.1	0.0863	mg/L	0.0863	mg/L	03:55:11
1	Na 589.592†	3439.4	2905.3	0.6418	mg/L	0.6418	mg/L	03:55:11
1	Sr 407.771†	43747.7	42984.7	0.0505	mg/L	0.0505	mg/L	03:55:11
1	Y 371.029	2744472.6	2744472.6	1.02	mg/L			03:55:38

1	Ag	328.068†	1355.0	-531.6	0.0008	mg/L	0.0008	mg/L	03:55:41
1	Al	237.313†	315671.1	311105.4	34.44	mg/L	34.44	mg/L	03:55:38
1	As	188.979†	22.1	28.4	0.0248	mg/L	0.0248	mg/L	03:55:51
1	B	182.528†	8.0	17.4	0.0186	mg/L	0.0186	mg/L	03:55:51
1	Ba	233.527†	165541.3	163018.3	1.423	mg/L	1.423	mg/L	03:55:41
1	Be	313.107†	4151.0	5523.3	0.0023	mg/L	0.0023	mg/L	03:55:41
1	Ca	315.887†	778184.5	767743.6	8.403	mg/L	8.403	mg/L	03:55:38
1	Cd	228.802†	265.0	101.8	0.0029	mg/L	0.0029	mg/L	03:55:51
1	Co	228.616†	1546.0	1763.3	0.0307	mg/L	0.0307	mg/L	03:55:51
1	Cr	267.716†	32424.2	31344.8	0.2767	mg/L	0.2767	mg/L	03:55:41
1	Cu	324.752†	311096.4	301369.7	1.628	mg/L	1.628	mg/L	03:55:38
1	Mg	279.077†	188828.9	185836.9	15.00	mg/L	15.00	mg/L	03:55:41
1	Mn	257.610†	918023.0	887420.8	1.126	mg/L	1.126	mg/L	03:55:38
1	Mn	294.920†	451089.2	445282.1	1.163	mg/L	1.163	mg/L	03:55:41
1	Mo	202.031†	2365.2	2291.8	0.0792	mg/L	0.0792	mg/L	03:55:51
1	Ni	231.604†	4992.6	4755.6	0.1078	mg/L	0.1078	mg/L	03:55:41
1	P	214.914†	3498.9	3470.6	2.203	mg/L	2.203	mg/L	03:55:51
1	Pb	220.353†	8690.9	8371.3	0.5823	mg/L	0.5823	mg/L	03:55:51
1	Sb	206.836†	65.8	17.0	-0.0112	mg/L	-0.0112	mg/L	03:55:51
1	Se	196.026†	-1.3	-12.2	-0.0187	mg/L	-0.0187	mg/L	03:55:51
1	Sn	189.927†	939.5	895.3	0.1363	mg/L	0.1363	mg/L	03:55:51
1	Ti	337.279†	1903365.3	1873860.3	2.192	mg/L	2.192	mg/L	03:55:38
1	Tl	190.801†	-7.8	-2.9	-0.0482	mg/L	-0.0482	mg/L	03:55:51
1	V	292.402†	26234.5	26167.5	0.1211	mg/L	0.1211	mg/L	03:55:41
1	Zn	213.857†	134037.1	130770.3	0.9586	mg/L	0.9586	mg/L	03:55:41
2	B	249.677†	-13.0	-6.5	-0.0022	mg/L	-0.0022	mg/L	03:55:34
2	Fe	234.349†	115256.5	114807.4	76.56	mg/L	76.56	mg/L	03:55:24
2	K	766.490†	18163.4	17275.8	9.589	mg/L	9.589	mg/L	03:55:24
2	Li	670.784†	2585.2	2810.9	0.0817	mg/L	0.0817	mg/L	03:55:24
2	Na	589.592†	3344.8	2852.2	0.6322	mg/L	0.6322	mg/L	03:55:24
2	Sr	407.771†	43037.4	42801.7	0.0503	mg/L	0.0503	mg/L	03:55:24
2	Y	371.029	2711441.6	2711441.6	1.00	mg/L			03:55:54
2	Ag	328.068†	1559.2	-312.0	0.0020	mg/L	0.0020	mg/L	03:55:56
2	Al	237.313†	303805.6	303070.1	33.55	mg/L	33.55	mg/L	03:55:54
2	As	188.979†	27.3	33.9	0.0288	mg/L	0.0288	mg/L	03:56:06
2	B	182.528†	10.8	20.3	0.0217	mg/L	0.0217	mg/L	03:56:06
2	Ba	233.527†	159788.8	159272.6	1.391	mg/L	1.391	mg/L	03:55:56
2	Be	313.107†	4050.9	5473.3	0.0023	mg/L	0.0023	mg/L	03:55:56
2	Ca	315.887†	748764.5	747766.4	8.186	mg/L	8.186	mg/L	03:55:54
2	Cd	228.802†	261.0	100.9	0.0029	mg/L	0.0029	mg/L	03:56:06
2	Co	228.616†	1480.9	1717.0	0.0298	mg/L	0.0298	mg/L	03:56:06
2	Cr	267.716†	31276.6	30590.3	0.2701	mg/L	0.2701	mg/L	03:55:56
2	Cu	324.752†	300438.9	294482.9	1.591	mg/L	1.591	mg/L	03:55:54
2	Mg	279.077†	181714.4	181013.6	14.61	mg/L	14.61	mg/L	03:55:56
2	Mn	257.610†	885136.9	865667.3	1.098	mg/L	1.098	mg/L	03:55:54
2	Mn	294.920†	435214.8	434876.8	1.136	mg/L	1.136	mg/L	03:55:56
2	Mo	202.031†	2264.3	2219.7	0.0764	mg/L	0.0764	mg/L	03:56:06
2	Ni	231.604†	4811.0	4634.5	0.1051	mg/L	0.1051	mg/L	03:55:56
2	P	214.914†	3386.5	3400.5	2.160	mg/L	2.160	mg/L	03:56:06
2	Pb	220.353†	8348.3	8134.1	0.5658	mg/L	0.5658	mg/L	03:56:06
2	Sb	206.836†	77.7	29.6	-0.0052	mg/L	-0.0052	mg/L	03:56:06
2	Se	196.026†	0.5	-10.4	-0.0174	mg/L	-0.0174	mg/L	03:56:06
2	Sn	189.927†	921.2	888.3	0.1351	mg/L	0.1351	mg/L	03:56:06
2	Ti	337.279†	1834728.5	1828306.9	2.139	mg/L	2.139	mg/L	03:55:54
2	Tl	190.801†	-7.1	-2.3	-0.0474	mg/L	-0.0474	mg/L	03:56:06
2	V	292.402†	25306.7	25557.8	0.1184	mg/L	0.1184	mg/L	03:55:56
2	Zn	213.857†	129624.1	127981.2	0.9382	mg/L	0.9382	mg/L	03:55:56

Mean Data: CF30511-SD2 @5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2727957.1	1.01	mg/L	0.009				0.86%
Ag 328.068†	-421.8	0.0014	mg/L	0.00085	0.0014	mg/L	0.00085	61.89%
Al 237.313†	307087.7	34.00	mg/L	0.629	34.00	mg/L	0.629	1.85%
As 188.979†	31.1	0.0268	mg/L	0.00282	0.0268	mg/L	0.00282	10.51%
B 249.677†	-9.7	-0.0040	mg/L	0.00251	-0.0040	mg/L	0.00251	63.32%
B 182.528†	18.8	0.0201	mg/L	0.00220	0.0201	mg/L	0.00220	10.95%
Ba 233.527†	161145.4	1.407	mg/L	0.0231	1.407	mg/L	0.0231	1.64%
Be 313.107†	5498.3	0.0023	mg/L	0.00001	0.0023	mg/L	0.00001	0.31%
Ca 315.887†	757755.0	8.295	mg/L	0.1540	8.295	mg/L	0.1540	1.86%
Cd 228.802†	101.4	0.0029	mg/L	0.00001	0.0029	mg/L	0.00001	0.51%
Co 228.616†	1740.2	0.0302	mg/L	0.00057	0.0302	mg/L	0.00057	1.90%

Cr 267.716†	30967.6	0.2734 mg/L	0.00465	0.2734 mg/L	0.00465	1.70%
Cu 324.752†	297926.3	1.609 mg/L	0.0262	1.609 mg/L	0.0262	1.63%
Fe 234.349†	115064.7	76.73 mg/L	0.242	76.73 mg/L	0.242	0.32%
K 766.490†	17134.4	9.512 mg/L	0.1090	9.512 mg/L	0.1090	1.15%
Li 670.784†	2894.5	0.0840 mg/L	0.00325	0.0840 mg/L	0.00325	3.87%
Mg 279.077†	183425.2	14.81 mg/L	0.275	14.81 mg/L	0.275	1.86%
Mn 257.610†	876544.1	1.112 mg/L	0.0197	1.112 mg/L	0.0197	1.77%
Mn 294.920†	440079.4	1.149 mg/L	0.0192	1.149 mg/L	0.0192	1.67%
Mo 202.031†	2255.8	0.0778 mg/L	0.00198	0.0778 mg/L	0.00198	2.55%
Na 589.592†	2878.8	0.6370 mg/L	0.00682	0.6370 mg/L	0.00682	1.07%
Ni 231.604†	4695.0	0.1064 mg/L	0.00191	0.1064 mg/L	0.00191	1.80%
P 214.914†	3435.6	2.181 mg/L	0.0308	2.181 mg/L	0.0308	1.41%
Pb 220.353†	8252.7	0.5740 mg/L	0.01168	0.5740 mg/L	0.01168	2.04%
Sb 206.836†	23.3	-0.0082 mg/L	0.00427	-0.0082 mg/L	0.00427	52.12%
Se 196.026†	-11.3	-0.0180 mg/L	0.00093	-0.0180 mg/L	0.00093	5.18%
Sn 189.927†	891.8	0.1357 mg/L	0.00083	0.1357 mg/L	0.00083	0.61%
Sr 407.771†	42893.2	0.0504 mg/L	0.00015	0.0504 mg/L	0.00015	0.30%
Ti 337.279†	1851083.6	2.165 mg/L	0.0376	2.165 mg/L	0.0376	1.74%
Tl 190.801†	-2.6	-0.0478 mg/L	0.00056	-0.0478 mg/L	0.00056	1.18%
V 292.402†	25862.7	0.1197 mg/L	0.00193	0.1197 mg/L	0.00193	1.61%
Zn 213.857†	129375.7	0.9484 mg/L	0.01445	0.9484 mg/L	0.01445	1.52%

Sequence No.: 201
Sample ID: CF30511-PDS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 7/6/2013 3:57:47 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CF30511-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	783.0	782.4	0.4379	mg/L	0.4379 mg/L	03:59:33
1	Fe 234.349†	441297.0	437292.7	291.6	mg/L	291.6 mg/L	03:59:31
1	K 766.490†	110825.3	109003.5	59.58	mg/L	59.58 mg/L	03:59:31
1	Li 670.784†	29395.6	29364.9	0.8116	mg/L	0.8116 mg/L	03:59:33
1	Na 589.592†	143600.3	141819.7	25.92	mg/L	25.92 mg/L	03:59:31
1	Sr 407.771†	204915.2	202988.4	0.2370	mg/L	0.2370 mg/L	03:59:31
1	Y 371.029	2725726.4	2725726.4	1.01	mg/L		03:59:44
1	Ag 328.068†	41459.6	39218.9	0.2266	mg/L	0.2266 mg/L	03:59:46
1	Al 237.313†	1251027.2	1240125.3	137.3	mg/L	137.3 mg/L	03:59:44
1	As 188.979†	716.3	716.4	0.5244	mg/L	0.5244 mg/L	03:59:57
1	B 182.528†	440.5	446.0	0.4787	mg/L	0.4787 mg/L	03:59:57
1	Ba 233.527†	692693.4	686515.7	5.984	mg/L	5.984 mg/L	03:59:46
1	Be 313.107†	121493.7	121831.2	0.0520	mg/L	0.0520 mg/L	03:59:46
1	Ca 315.887†	3420521.9	3391412.9	37.00	mg/L	37.00 mg/L	03:59:44
1	Cd 228.802†	7762.9	7533.5	0.2313	mg/L	0.2313 mg/L	03:59:57
1	Co 228.616†	28731.6	28713.1	0.5560	mg/L	0.5560 mg/L	03:59:57
1	Cr 267.716†	174261.2	172116.4	1.504	mg/L	1.504 mg/L	03:59:46
1	Cu 324.752†	1277356.6	1260982.9	6.797	mg/L	6.797 mg/L	03:59:44
1	Mg 279.077†	772410.0	765409.7	61.71	mg/L	61.71 mg/L	03:59:44
1	Mn 257.610†	3762331.9	3712178.5	4.712	mg/L	4.712 mg/L	03:59:44
1	Mn 294.920†	1882940.6	1867216.4	4.871	mg/L	4.871 mg/L	03:59:44
1	Mo 202.031†	19583.4	19370.0	0.7437	mg/L	0.7437 mg/L	03:59:57
1	Ni 231.604†	37681.1	37181.7	0.8317	mg/L	0.8317 mg/L	03:59:46
1	P 214.914†	20624.6	20464.8	12.79	mg/L	12.79 mg/L	03:59:57
1	Pb 220.353†	38116.8	37589.4	2.621	mg/L	2.621 mg/L	03:59:46
1	Sb 206.836†	1108.9	1051.0	0.4075	mg/L	0.4075 mg/L	03:59:57
1	Se 196.026†	1205.9	1184.1	0.7583	mg/L	0.7583 mg/L	03:59:57
1	Sn 189.927†	6937.3	6845.1	1.035	mg/L	1.035 mg/L	03:59:57
1	Ti 337.279†	7639506.9	7570924.6	8.842	mg/L	8.842 mg/L	03:59:44
1	Tl 190.801†	443.3	444.0	0.2544	mg/L	0.2544 mg/L	03:59:57
1	V 292.402†	202546.8	201060.3	0.9164	mg/L	0.9164 mg/L	03:59:46
1	Zn 213.857†	560672.2	554448.0	4.055	mg/L	4.055 mg/L	03:59:46
2	B 249.677†	813.2	810.2	0.4534	mg/L	0.4534 mg/L	03:59:38
2	Fe 234.349†	444448.5	439261.6	292.9	mg/L	292.9 mg/L	03:59:36
2	K 766.490†	111319.6	109204.3	59.69	mg/L	59.69 mg/L	03:59:36
2	Li 670.784†	29496.9	29388.7	0.8122	mg/L	0.8122 mg/L	03:59:38
2	Na 589.592†	144185.1	142024.9	25.95	mg/L	25.95 mg/L	03:59:36
2	Sr 407.771†	205881.8	203411.7	0.2375	mg/L	0.2375 mg/L	03:59:36
2	Y 371.029	2732887.5	2732887.5	1.01	mg/L		04:00:00
2	Ag 328.068†	41675.9	39325.0	0.2272	mg/L	0.2272 mg/L	04:00:03

2	Al 237.313†	1253907.1	1239723.1	137.2 mg/L	137.2 mg/L	04:00:00
2	As 188.979†	714.2	712.5	0.5215 mg/L	0.5215 mg/L	04:00:13
2	B 182.528†	434.3	438.8	0.4709 mg/L	0.4709 mg/L	04:00:13
2	Ba 233.527†	692955.7	684976.3	5.971 mg/L	5.971 mg/L	04:00:03
2	Be 313.107†	121494.0	121516.0	0.0519 mg/L	0.0519 mg/L	04:00:03
2	Ca 315.887†	3428246.2	3390165.4	36.99 mg/L	36.99 mg/L	04:00:00
2	Cd 228.802†	7724.1	7475.0	0.2295 mg/L	0.2295 mg/L	04:00:13
2	Co 228.616†	28615.2	28523.4	0.5522 mg/L	0.5522 mg/L	04:00:13
2	Cr 267.716†	175325.5	172715.9	1.510 mg/L	1.510 mg/L	04:00:03
2	Cu 324.752†	1280256.9	1260532.6	6.795 mg/L	6.795 mg/L	04:00:00
2	Mg 279.077†	774470.6	765440.7	61.71 mg/L	61.71 mg/L	04:00:00
2	Mn 257.610†	3773271.8	3713221.6	4.713 mg/L	4.713 mg/L	04:00:00
2	Mn 294.920†	1886804.0	1866145.5	4.868 mg/L	4.868 mg/L	04:00:00
2	Mo 202.031†	19526.3	19262.8	0.7389 mg/L	0.7389 mg/L	04:00:13
2	Ni 231.604†	37846.8	37247.6	0.8332 mg/L	0.8332 mg/L	04:00:03
2	P 214.914†	20538.3	20326.0	12.70 mg/L	12.70 mg/L	04:00:13
2	Pb 220.353†	38322.5	37693.7	2.628 mg/L	2.628 mg/L	04:00:03
2	Sb 206.836†	1094.7	1034.1	0.3992 mg/L	0.3992 mg/L	04:00:13
2	Se 196.026†	1222.2	1197.1	0.7669 mg/L	0.7669 mg/L	04:00:13
2	Sn 189.927†	6877.9	6768.4	1.023 mg/L	1.023 mg/L	04:00:13
2	Ti 337.279†	7656620.0	7568001.5	8.838 mg/L	8.838 mg/L	04:00:00
2	Tl 190.801†	447.0	446.5	0.2560 mg/L	0.2560 mg/L	04:00:13
2	V 292.402†	202508.8	200496.9	0.9138 mg/L	0.9138 mg/L	04:00:03
2	Zn 213.857†	561109.0	553423.8	4.047 mg/L	4.047 mg/L	04:00:03

Mean Data: CF30511-PDS2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2729306.9	1.01 mg/L		0.002				0.19%
Ag 328.068†	39271.9	0.2269 mg/L		0.00044	0.2269 mg/L		0.00044	0.19%
Al 237.313†	1239924.2	137.2 mg/L		0.03	137.2 mg/L		0.03	0.02%
As 188.979†	714.5	0.5230 mg/L		0.00203	0.5230 mg/L		0.00203	0.39%
B 249.677†	796.3	0.4457 mg/L		0.01095	0.4457 mg/L		0.01095	2.46%
B 182.528†	442.4	0.4748 mg/L		0.00547	0.4748 mg/L		0.00547	1.15%
Ba 233.527†	685746.0	5.978 mg/L		0.0095	5.978 mg/L		0.0095	0.16%
Be 313.107†	121673.6	0.0519 mg/L		0.00010	0.0519 mg/L		0.00010	0.19%
Ca 315.887†	3390789.1	36.99 mg/L		0.010	36.99 mg/L		0.010	0.03%
Cd 228.802†	7504.3	0.2304 mg/L		0.00131	0.2304 mg/L		0.00131	0.57%
Co 228.616†	28618.3	0.5541 mg/L		0.00268	0.5541 mg/L		0.00268	0.48%
Cr 267.716†	172416.1	1.507 mg/L		0.0037	1.507 mg/L		0.0037	0.25%
Cu 324.752†	1260757.7	6.796 mg/L		0.0017	6.796 mg/L		0.0017	0.03%
Fe 234.349†	438277.2	292.2 mg/L		0.93	292.2 mg/L		0.93	0.32%
K 766.490†	109103.9	59.63 mg/L		0.077	59.63 mg/L		0.077	0.13%
Li 670.784†	29376.8	0.8119 mg/L		0.00046	0.8119 mg/L		0.00046	0.06%
Mg 279.077†	765425.2	61.71 mg/L		0.002	61.71 mg/L		0.002	0.00%
Mn 257.610†	3712700.0	4.712 mg/L		0.0007	4.712 mg/L		0.0007	0.02%
Mn 294.920†	1866680.9	4.870 mg/L		0.0020	4.870 mg/L		0.0020	0.04%
Mo 202.031†	19316.4	0.7413 mg/L		0.00335	0.7413 mg/L		0.00335	0.45%
Na 589.592†	141922.3	25.94 mg/L		0.026	25.94 mg/L		0.026	0.10%
Ni 231.604†	37214.7	0.8324 mg/L		0.00103	0.8324 mg/L		0.00103	0.12%
P 214.914†	20395.4	12.74 mg/L		0.061	12.74 mg/L		0.061	0.48%
Pb 220.353†	37641.6	2.624 mg/L		0.0052	2.624 mg/L		0.0052	0.20%
Sb 206.836†	1042.6	0.4033 mg/L		0.00591	0.4033 mg/L		0.00591	1.47%
Se 196.026†	1190.6	0.7626 mg/L		0.00610	0.7626 mg/L		0.00610	0.80%
Sn 189.927†	6806.8	1.029 mg/L		0.0080	1.029 mg/L		0.0080	0.78%
Sr 407.771†	203200.0	0.2373 mg/L		0.00035	0.2373 mg/L		0.00035	0.15%
Ti 337.279†	7569463.1	8.840 mg/L		0.0024	8.840 mg/L		0.0024	0.03%
Tl 190.801†	445.3	0.2552 mg/L		0.00117	0.2552 mg/L		0.00117	0.46%
V 292.402†	200778.6	0.9151 mg/L		0.00183	0.9151 mg/L		0.00183	0.20%
Zn 213.857†	553935.9	4.051 mg/L		0.0054	4.051 mg/L		0.0054	0.13%

Sequence No.: 202

Autosampler Location: 24

Sample ID: 1307101-10

Date Collected: 7/6/2013 4:03:23 AM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 1307101-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
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1	B 249.677†	69.3	75.4	0.0433 mg/L	0.0433 mg/L	04:05:05
1	Fe 234.349†	503171.3	500158.3	333.5 mg/L	333.5 mg/L	04:05:02
1	K 766.490†	20856.0	19913.6	11.03 mg/L	11.03 mg/L	04:05:05
1	Li 670.784†	6010.2	6209.9	0.1751 mg/L	0.1751 mg/L	04:05:05
1	Na 589.592†	11347.3	10799.8	2.078 mg/L	2.078 mg/L	04:05:05
1	Sr 407.771†	609425.4	605713.9	0.7066 mg/L	0.7066 mg/L	04:05:02
1	Y 371.029	2717269.6	2717269.6	1.01 mg/L		04:05:18
1	Ag 328.068†	3011.0	1127.9	0.0164 mg/L	0.0164 mg/L	04:05:18
1	Al 237.313†	911129.5	906116.5	100.3 mg/L	100.3 mg/L	04:05:18
1	As 188.979†	166.2	171.9	0.1289 mg/L	0.1289 mg/L	04:05:29
1	B 182.528†	70.3	79.5	0.0852 mg/L	0.0852 mg/L	04:05:29
1	Ba 233.527†	1718391.4	1708222.0	14.89 mg/L	14.89 mg/L	04:05:18
1	Be 313.107†	17818.3	19149.9	0.0080 mg/L	0.0080 mg/L	04:05:18
1	Ca 315.887†	4118633.8	4095902.9	44.68 mg/L	44.68 mg/L	04:05:15
1	Cd 228.802†	1574.0	1405.6	0.0392 mg/L	0.0392 mg/L	04:05:29
1	Co 228.616†	4060.3	4277.8	0.0785 mg/L	0.0785 mg/L	04:05:29
1	Cr 267.716†	31428.0	30674.0	0.2708 mg/L	0.2708 mg/L	04:05:18
1	Cu 324.752†	6901734.5	6855697.7	36.89 mg/L	36.89 mg/L	04:05:15
1	Mg 279.077†	269206.5	267594.7	21.59 mg/L	21.59 mg/L	04:05:18
1	Mn 257.610†	2158364.9	2129397.4	2.666 mg/L	2.666 mg/L	04:05:18
1	Mn 294.920†	1106736.1	1101456.3	2.874 mg/L	2.874 mg/L	04:05:18
1	Mo 202.031†	1047.2	1005.0	-0.2121 mg/L	-0.2121 mg/L	04:05:18
1	Ni 231.604†	22759.9	22465.9	0.5025 mg/L	0.5025 mg/L	04:05:18
1	P 214.914†	18960.9	18874.7	11.49 mg/L	11.49 mg/L	04:05:18
1	Pb 220.353†	106248.9	105432.0	7.391 mg/L	7.391 mg/L	04:05:18
1	Sb 206.836†	164.8	116.0	-0.0388 mg/L	-0.0388 mg/L	04:05:29
1	Se 196.026†	-80.6	-91.0	-0.1240 mg/L	-0.1240 mg/L	04:05:29
1	Sn 189.927†	24693.2	24516.3	3.655 mg/L	3.655 mg/L	04:05:29
1	Ti 337.279†	2868922.3	2852402.0	3.334 mg/L	3.334 mg/L	04:05:18
1	Tl 190.801†	-12.3	-7.5	-0.2072 mg/L	-0.2072 mg/L	04:05:29
1	V 292.402†	82517.7	82373.0	0.3615 mg/L	0.3615 mg/L	04:05:18
1	Zn 213.857†	2990311.1	2971300.3	21.80 mg/L	21.80 mg/L	04:05:18
2	B 249.677†	66.7	71.6	0.0412 mg/L	0.0412 mg/L	04:05:09
2	Fe 234.349†	514959.2	502097.8	334.8 mg/L	334.8 mg/L	04:05:07
2	K 766.490†	20782.6	19445.9	10.77 mg/L	10.77 mg/L	04:05:09
2	Li 670.784†	5980.7	6067.0	0.1712 mg/L	0.1712 mg/L	04:05:09
2	Na 589.592†	11259.0	10498.2	2.023 mg/L	2.023 mg/L	04:05:09
2	Sr 407.771†	623208.7	607581.2	0.7088 mg/L	0.7088 mg/L	04:05:07
2	Y 371.029	2770186.4	2770186.4	1.03 mg/L		04:05:35
2	Ag 328.068†	3000.2	1060.2	0.0161 mg/L	0.0161 mg/L	04:05:35
2	Al 237.313†	930403.9	907609.1	100.5 mg/L	100.5 mg/L	04:05:35
2	As 188.979†	172.7	175.0	0.1312 mg/L	0.1312 mg/L	04:05:46
2	B 182.528†	76.3	83.9	0.0900 mg/L	0.0900 mg/L	04:05:46
2	Ba 233.527†	1753504.8	1709829.9	14.90 mg/L	14.90 mg/L	04:05:35
2	Be 313.107†	18080.7	19067.3	0.0080 mg/L	0.0080 mg/L	04:05:35
2	Ca 315.887†	4168695.4	4066509.7	44.36 mg/L	44.36 mg/L	04:05:32
2	Cd 228.802†	1580.7	1382.2	0.0385 mg/L	0.0385 mg/L	04:05:46
2	Co 228.616†	4033.5	4174.6	0.0764 mg/L	0.0764 mg/L	04:05:46
2	Cr 267.716†	32060.9	30694.3	0.2710 mg/L	0.2710 mg/L	04:05:35
2	Cu 324.752†	6978097.3	6799103.4	36.58 mg/L	36.58 mg/L	04:05:32
2	Mg 279.077†	275450.2	268570.8	21.67 mg/L	21.67 mg/L	04:05:35
2	Mn 257.610†	2201844.0	2130807.8	2.667 mg/L	2.667 mg/L	04:05:35
2	Mn 294.920†	1130195.0	1103314.8	2.879 mg/L	2.879 mg/L	04:05:35
2	Mo 202.031†	1042.4	980.4	-0.2116 mg/L	-0.2116 mg/L	04:05:35
2	Ni 231.604†	23240.1	22501.9	0.5033 mg/L	0.5033 mg/L	04:05:35
2	P 214.914†	19416.1	18958.5	11.54 mg/L	11.54 mg/L	04:05:35
2	Pb 220.353†	108729.7	105833.5	7.420 mg/L	7.420 mg/L	04:05:35
2	Sb 206.836†	149.1	97.6	-0.0478 mg/L	-0.0478 mg/L	04:05:46
2	Se 196.026†	-77.2	-86.2	-0.1210 mg/L	-0.1210 mg/L	04:05:46
2	Sn 189.927†	24809.6	24161.0	3.602 mg/L	3.602 mg/L	04:05:46
2	Ti 337.279†	2918680.6	2846442.7	3.327 mg/L	3.327 mg/L	04:05:35
2	Tl 190.801†	-5.9	-0.9	-0.2017 mg/L	-0.2017 mg/L	04:05:46
2	V 292.402†	84186.3	82433.1	0.3618 mg/L	0.3618 mg/L	04:05:35
2	Zn 213.857†	3050630.1	2973333.2	21.82 mg/L	21.82 mg/L	04:05:35

Mean Data: 1307101-10

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2743728.0	1.02 mg/L	0.014			1.36%
Ag 328.068†	1094.0	0.0163 mg/L	0.00024	0.0163 mg/L	0.00024	1.49%
Al 237.313†	906862.8	100.4 mg/L	0.12	100.4 mg/L	0.12	0.12%
As 188.979†	173.4	0.1300 mg/L	0.00162	0.1300 mg/L	0.00162	1.25%

2	Fe 234.349†	3900.9	3967.0	2.641 mg/L	2.641 mg/L	04:10:55
2	K 766.490†	45295.6	45323.8	24.88 mg/L	24.88 mg/L	04:10:45
2	Li 670.784†	17573.5	18137.3	0.5030 mg/L	0.5030 mg/L	04:10:45
2	Na 589.592†	134303.2	136332.1	24.92 mg/L	24.92 mg/L	04:10:45
2	Sr 407.771†	40837.4	41529.7	0.0488 mg/L	0.0488 mg/L	04:10:45
2	Y 371.029	2651508.6	2651508.6	0.982 mg/L		04:11:14
2	Ag 328.068†	45096.7	44073.9	0.2462 mg/L	0.2462 mg/L	04:11:14
2	Al 237.313†	21875.1	22714.1	2.529 mg/L	2.529 mg/L	04:11:24
2	As 188.979†	649.9	668.7	0.4904 mg/L	0.4904 mg/L	04:11:24
2	B 182.528†	449.2	467.1	0.5013 mg/L	0.5013 mg/L	04:11:24
2	Ba 233.527†	55244.9	56373.8	0.4943 mg/L	0.4943 mg/L	04:11:14
2	Be 313.107†	107388.2	110832.1	0.0491 mg/L	0.0491 mg/L	04:11:14
2	Ca 315.887†	431897.9	441840.8	4.853 mg/L	4.853 mg/L	04:11:14
2	Cd 228.802†	7866.9	7854.8	0.2463 mg/L	0.2463 mg/L	04:11:24
2	Co 228.616†	23829.8	24516.7	0.4897 mg/L	0.4897 mg/L	04:11:24
2	Cr 267.716†	55084.4	55547.0	0.4880 mg/L	0.4880 mg/L	04:11:14
2	Cu 324.752†	97965.4	94992.4	0.5157 mg/L	0.5157 mg/L	04:11:14
2	Mg 279.077†	58937.6	60035.1	4.864 mg/L	4.864 mg/L	04:11:14
2	Mn 257.610†	391555.8	382797.1	0.4936 mg/L	0.4936 mg/L	04:11:14
2	Mn 294.920†	182601.6	187344.7	0.4901 mg/L	0.4901 mg/L	04:11:14
2	Mo 202.031†	11381.0	11557.6	0.4903 mg/L	0.4903 mg/L	04:11:24
2	Ni 231.604†	21554.0	21798.6	0.4883 mg/L	0.4883 mg/L	04:11:14
2	P 214.914†	7480.2	7647.0	4.828 mg/L	4.828 mg/L	04:11:24
2	Pb 220.353†	7110.7	7061.4	0.4987 mg/L	0.4987 mg/L	04:11:24
2	Sb 206.836†	1066.4	1038.5	0.4897 mg/L	0.4897 mg/L	04:11:24
2	Se 196.026†	1408.5	1423.9	0.9804 mg/L	0.9804 mg/L	04:11:24
2	Sn 189.927†	3333.9	3366.9	0.5000 mg/L	0.5000 mg/L	04:11:24
2	Ti 337.279†	412056.7	420373.2	0.4956 mg/L	0.4956 mg/L	04:11:14
2	Tl 190.801†	492.8	506.8	0.4902 mg/L	0.4902 mg/L	04:11:24
2	V 292.402†	104703.5	107007.5	0.4987 mg/L	0.4987 mg/L	04:11:14
2	Zn 213.857†	69786.0	69944.1	0.5132 mg/L	0.5132 mg/L	04:11:14

Mean Data: CCV1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2652454.5	0.982 mg/L	0.0005			0.05%
Ag 328.068†	44065.6	0.2461 mg/L	0.00007	0.2461 mg/L	0.00007	0.03%
QC value within limits for Ag 328.068		Recovery = 98.45%				
Al 237.313†	22677.2	2.525 mg/L	0.0058	2.525 mg/L	0.0058	0.23%
QC value within limits for Al 237.313		Recovery = 100.99%				
As 188.979†	666.1	0.4885 mg/L	0.00263	0.4885 mg/L	0.00263	0.54%
QC value within limits for As 188.979		Recovery = 97.70%				
B 249.677†	871.5	0.4870 mg/L	0.00302	0.4870 mg/L	0.00302	0.62%
QC value within limits for B 249.677		Recovery = 97.40%				
B 182.528†	463.0	0.4969 mg/L	0.00627	0.4969 mg/L	0.00627	1.26%
QC value within limits for B 182.528		Recovery = 99.38%				
Ba 233.527†	56366.3	0.4942 mg/L	0.00009	0.4942 mg/L	0.00009	0.02%
QC value within limits for Ba 233.527		Recovery = 98.84%				
Be 313.107†	110747.1	0.0490 mg/L	0.00005	0.0490 mg/L	0.00005	0.11%
QC value within limits for Be 313.107		Recovery = 98.04%				
Ca 315.887†	441722.2	4.852 mg/L	0.0018	4.852 mg/L	0.0018	0.04%
QC value within limits for Ca 315.887		Recovery = 97.03%				
Cd 228.802†	7848.5	0.2461 mg/L	0.00028	0.2461 mg/L	0.00028	0.11%
QC value within limits for Cd 228.802		Recovery = 98.42%				
Co 228.616†	24503.2	0.4895 mg/L	0.00038	0.4895 mg/L	0.00038	0.08%
QC value within limits for Co 228.616		Recovery = 97.89%				
Cr 267.716†	55472.0	0.4873 mg/L	0.00093	0.4873 mg/L	0.00093	0.19%
QC value within limits for Cr 267.716		Recovery = 97.46%				
Cu 324.752†	94914.1	0.5153 mg/L	0.00059	0.5153 mg/L	0.00059	0.12%
QC value within limits for Cu 324.752		Recovery = 103.05%				
Fe 234.349†	3957.9	2.635 mg/L	0.0085	2.635 mg/L	0.0085	0.32%
QC value within limits for Fe 234.349		Recovery = 105.39%				
K 766.490†	45304.9	24.86 mg/L	0.015	24.86 mg/L	0.015	0.06%
QC value within limits for K 766.490		Recovery = 99.46%				
Li 670.784†	18154.6	0.5035 mg/L	0.00067	0.5035 mg/L	0.00067	0.13%
QC value within limits for Li 670.784		Recovery = 100.69%				
Mg 279.077†	60038.2	4.864 mg/L	0.0004	4.864 mg/L	0.0004	0.01%
QC value within limits for Mg 279.077		Recovery = 97.28%				
Mn 257.610†	382767.7	0.4935 mg/L	0.00005	0.4935 mg/L	0.00005	0.01%
QC value within limits for Mn 257.610		Recovery = 98.71%				
Mn 294.920†	187229.7	0.4898 mg/L	0.00042	0.4898 mg/L	0.00042	0.09%
QC value within limits for Mn 294.920		Recovery = 97.96%				

Mo	202.031†	11517.8	0.4886 mg/L	0.00239	0.4886 mg/L	0.00239	0.49%
	QC value within limits for Mo 202.031		Recovery = 97.72%				
Na	589.592†	136432.0	24.94 mg/L	0.026	24.94 mg/L	0.026	0.10%
	QC value within limits for Na 589.592		Recovery = 99.75%				
Ni	231.604†	21810.0	0.4885 mg/L	0.00035	0.4885 mg/L	0.00035	0.07%
	QC value within limits for Ni 231.604		Recovery = 97.71%				
P	214.914†	7640.4	4.823 mg/L	0.0058	4.823 mg/L	0.0058	0.12%
	QC value within limits for P 214.914		Recovery = 96.47%				
Pb	220.353†	7082.4	0.5002 mg/L	0.00209	0.5002 mg/L	0.00209	0.42%
	QC value within limits for Pb 220.353		Recovery = 100.04%				
Sb	206.836†	1033.6	0.4874 mg/L	0.00328	0.4874 mg/L	0.00328	0.67%
	QC value within limits for Sb 206.836		Recovery = 97.47%				
Se	196.026†	1415.5	0.9747 mg/L	0.00813	0.9747 mg/L	0.00813	0.83%
	QC value within limits for Se 196.026		Recovery = 97.47%				
Sn	189.927†	3370.0	0.5004 mg/L	0.00064	0.5004 mg/L	0.00064	0.13%
	QC value within limits for Sn 189.927		Recovery = 100.08%				
Sr	407.771†	41554.0	0.0488 mg/L	0.00004	0.0488 mg/L	0.00004	0.08%
	QC value within limits for Sr 407.771		Recovery = 97.64%				
Ti	337.279†	420282.2	0.4955 mg/L	0.00015	0.4955 mg/L	0.00015	0.03%
	QC value within limits for Ti 337.279		Recovery = 99.09%				
Tl	190.801†	504.8	0.4882 mg/L	0.00275	0.4882 mg/L	0.00275	0.56%
	QC value within limits for Tl 190.801		Recovery = 97.64%				
V	292.402†	106939.3	0.4984 mg/L	0.00048	0.4984 mg/L	0.00048	0.10%
	QC value within limits for V 292.402		Recovery = 99.68%				
Zn	213.857†	69999.7	0.5136 mg/L	0.00058	0.5136 mg/L	0.00058	0.11%
	QC value within limits for Zn 213.857		Recovery = 102.72%				

All analyte(s) passed QC.

Sequence No.: 204	Autosampler Location: 1
Sample ID: CCB1	Date Collected: 7/6/2013 4:13:03 AM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

Replicate Data: CCB1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	4.2	10.7	0.0072 mg/L	0.0072 mg/L	04:14:54
1	Fe 234.349†	37.2	30.2	0.0307 mg/L	0.0307 mg/L	04:14:54
1	K 766.490†	1171.6	346.3	0.3631 mg/L	0.3631 mg/L	04:14:44
1	Li 670.784†	-156.1	80.5	0.0067 mg/L	0.0067 mg/L	04:14:44
1	Na 589.592†	355.9	-126.1	0.0903 mg/L	0.0903 mg/L	04:14:44
1	Sr 407.771†	92.2	21.0	0.0004 mg/L	0.0004 mg/L	04:14:44
1	Y 371.029	2718234.4	2718234.4	1.01 mg/L		04:15:10
1	Ag 328.068†	1732.6	-143.5	0.0010 mg/L	0.0010 mg/L	04:15:13
1	Al 237.313†	-251.3	180.8	0.0334 mg/L	0.0334 mg/L	04:15:13
1	As 188.979†	-2.8	3.9	0.0072 mg/L	0.0072 mg/L	04:15:23
1	B 182.528†	-3.0	6.6	0.0070 mg/L	0.0070 mg/L	04:15:23
1	Ba 233.527†	-31.3	65.9	0.0037 mg/L	0.0037 mg/L	04:15:23
1	Be 313.107†	-1195.6	249.9	0.0005 mg/L	0.0005 mg/L	04:15:13
1	Ca 315.887†	-1275.5	608.2	0.0426 mg/L	0.0426 mg/L	04:15:13
1	Cd 228.802†	153.3	-6.7	0.0008 mg/L	0.0008 mg/L	04:15:23
1	Co 228.616†	-217.6	25.6	0.0005 mg/L	0.0005 mg/L	04:15:23
1	Cr 267.716†	551.1	-18.6	0.0032 mg/L	0.0032 mg/L	04:15:13
1	Cu 324.752†	7048.8	2201.3	0.0162 mg/L	0.0162 mg/L	04:15:13
1	Mg 279.077†	89.0	84.9	0.0320 mg/L	0.0320 mg/L	04:15:13
1	Mn 257.610†	15628.2	-543.3	0.0010 mg/L	0.0010 mg/L	04:15:13
1	Mn 294.920†	-873.0	464.8	0.0027 mg/L	0.0027 mg/L	04:15:13
1	Mo 202.031†	95.9	59.4	0.0049 mg/L	0.0049 mg/L	04:15:23
1	Ni 231.604†	173.5	14.4	0.0019 mg/L	0.0019 mg/L	04:15:13
1	P 214.914†	-19.6	7.6	0.0515 mg/L	0.0515 mg/L	04:15:23
1	Pb 220.353†	250.6	66.9	0.0046 mg/L	0.0046 mg/L	04:15:23
1	Sb 206.836†	48.6	0.4	0.0044 mg/L	0.0044 mg/L	04:15:23
1	Se 196.026†	25.7	14.6	0.0150 mg/L	0.0150 mg/L	04:15:23
1	Sn 189.927†	30.3	0.8	-0.0013 mg/L	-0.0013 mg/L	04:15:23
1	Ti 337.279†	34.4	654.0	0.0057 mg/L	0.0057 mg/L	04:15:13
1	Tl 190.801†	-3.1	1.7	0.0028 mg/L	0.0028 mg/L	04:15:23
1	V 292.402†	-214.3	135.3	0.0052 mg/L	0.0052 mg/L	04:15:13
1	Zn 213.857†	2541.6	1380.1	0.0128 mg/L	0.0128 mg/L	04:15:23
2	B 249.677†	-5.9	0.6	0.0016 mg/L	0.0016 mg/L	04:15:07
2	Fe 234.349†	31.5	24.6	0.0270 mg/L	0.0270 mg/L	04:15:07

2	K 766.490†	1099.2	278.1	0.3259 mg/L	0.3259 mg/L	04:14:57
2	Li 670.784†	-169.3	66.8	0.0063 mg/L	0.0063 mg/L	04:14:57
2	Na 589.592†	314.4	-166.3	0.0830 mg/L	0.0830 mg/L	04:14:57
2	Sr 407.771†	55.2	-15.5	0.0003 mg/L	0.0003 mg/L	04:14:57
2	Y 371.029	2709122.9	2709122.9	1.00 mg/L		04:15:25
2	Ag 328.068†	1790.3	-80.2	0.0013 mg/L	0.0013 mg/L	04:15:27
2	Al 237.313†	-350.5	81.0	0.0223 mg/L	0.0223 mg/L	04:15:27
2	As 188.979†	-8.3	-1.7	0.0032 mg/L	0.0032 mg/L	04:15:38
2	B 182.528†	-5.8	3.8	0.0039 mg/L	0.0039 mg/L	04:15:38
2	Ba 233.527†	-23.1	74.0	0.0038 mg/L	0.0038 mg/L	04:15:38
2	Be 313.107†	-1334.3	107.7	0.0004 mg/L	0.0004 mg/L	04:15:27
2	Ca 315.887†	-1328.2	551.3	0.0419 mg/L	0.0419 mg/L	04:15:27
2	Cd 228.802†	158.4	-1.1	0.0010 mg/L	0.0010 mg/L	04:15:38
2	Co 228.616†	-214.0	28.4	0.0006 mg/L	0.0006 mg/L	04:15:38
2	Cr 267.716†	616.1	48.0	0.0038 mg/L	0.0038 mg/L	04:15:27
2	Cu 324.752†	7035.3	2211.4	0.0163 mg/L	0.0163 mg/L	04:15:27
2	Mg 279.077†	162.5	158.6	0.0380 mg/L	0.0380 mg/L	04:15:27
2	Mn 257.610†	15581.0	-538.1	0.0010 mg/L	0.0010 mg/L	04:15:27
2	Mn 294.920†	-951.7	383.4	0.0025 mg/L	0.0025 mg/L	04:15:27
2	Mo 202.031†	78.2	42.0	0.0042 mg/L	0.0042 mg/L	04:15:38
2	Ni 231.604†	162.8	4.3	0.0017 mg/L	0.0017 mg/L	04:15:27
2	P 214.914†	-18.4	8.8	0.0523 mg/L	0.0523 mg/L	04:15:38
2	Pb 220.353†	186.6	3.9	0.0001 mg/L	0.0001 mg/L	04:15:38
2	Sb 206.836†	57.1	9.1	0.0085 mg/L	0.0085 mg/L	04:15:38
2	Se 196.026†	21.6	10.6	0.0123 mg/L	0.0123 mg/L	04:15:38
2	Sn 189.927†	33.8	4.4	-0.0007 mg/L	-0.0007 mg/L	04:15:38
2	Ti 337.279†	-38.5	581.4	0.0056 mg/L	0.0056 mg/L	04:15:27
2	Tl 190.801†	-3.7	1.1	0.0022 mg/L	0.0022 mg/L	04:15:38
2	V 292.402†	-261.3	87.8	0.0050 mg/L	0.0050 mg/L	04:15:27
2	Zn 213.857†	2504.6	1351.7	0.0126 mg/L	0.0126 mg/L	04:15:38

Mean Data: CCB1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 371.029	2713678.6	1.00 mg/L		0.002			0.24%
Ag 328.068†	-111.8	0.0012 mg/L		0.00025	0.0012 mg/L	0.00025	21.47%
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 237.313†	130.9	0.0278 mg/L		0.00780	0.0278 mg/L	0.00780	28.03%
QC value within limits for Al 237.313			Recovery =	Not calculated			
As 188.979†	1.1	0.0052 mg/L		0.00286	0.0052 mg/L	0.00286	55.10%
QC value within limits for As 188.979			Recovery =	Not calculated			
B 249.677†	5.6	0.0044 mg/L		0.00397	0.0044 mg/L	0.00397	89.86%
QC value within limits for B 249.677			Recovery =	Not calculated			
B 182.528†	5.2	0.0054 mg/L		0.00213	0.0054 mg/L	0.00213	39.00%
QC value within limits for B 182.528			Recovery =	Not calculated			
Ba 233.527†	70.0	0.0037 mg/L		0.00005	0.0037 mg/L	0.00005	1.33%
QC value greater than the upper limit for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	178.8	0.0005 mg/L		0.00004	0.0005 mg/L	0.00004	9.61%
QC value within limits for Be 313.107			Recovery =	Not calculated			
Ca 315.887†	579.7	0.0423 mg/L		0.00044	0.0423 mg/L	0.00044	1.03%
QC value greater than the upper limit for Ca 315.887			Recovery =	Not calculated			
Cd 228.802†	-3.9	0.0009 mg/L		0.00012	0.0009 mg/L	0.00012	13.98%
QC value within limits for Cd 228.802			Recovery =	Not calculated			
Co 228.616†	27.0	0.0005 mg/L		0.00004	0.0005 mg/L	0.00004	7.31%
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	14.7	0.0035 mg/L		0.00041	0.0035 mg/L	0.00041	11.67%
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 324.752†	2206.4	0.0163 mg/L		0.00004	0.0163 mg/L	0.00004	0.24%
QC value greater than the upper limit for Cu 324.752			Recovery =	Not calculated			
Fe 234.349†	27.4	0.0288 mg/L		0.00264	0.0288 mg/L	0.00264	9.15%
QC value greater than the upper limit for Fe 234.349			Recovery =	Not calculated			
K 766.490†	312.2	0.3445 mg/L		0.02629	0.3445 mg/L	0.02629	7.63%
QC value greater than the upper limit for K 766.490			Recovery =	Not calculated			
Li 670.784†	73.7	0.0065 mg/L		0.00027	0.0065 mg/L	0.00027	4.12%
QC value within limits for Li 670.784			Recovery =	Not calculated			
Mg 279.077†	121.8	0.0350 mg/L		0.00420	0.0350 mg/L	0.00420	11.99%
QC value greater than the upper limit for Mg 279.077			Recovery =	Not calculated			
Mn 257.610†	-540.7	0.0010 mg/L		0.00001	0.0010 mg/L	0.00001	0.54%
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Mn 294.920†	424.1	0.0026 mg/L		0.00015	0.0026 mg/L	0.00015	5.73%
QC value within limits for Mn 294.920			Recovery =	Not calculated			
Mo 202.031†	50.7	0.0046 mg/L		0.00052	0.0046 mg/L	0.00052	11.41%

QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated					
Na 589.592†	-146.2	0.0866 mg/L	0.00518	0.0866 mg/L	0.00518	5.98%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	9.3	0.0018 mg/L	0.00016	0.0018 mg/L	0.00016	8.72%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	8.2	0.0519 mg/L	0.00051	0.0519 mg/L	0.00051	0.97%
QC value greater than the upper limit for P 214.914	Recovery = Not calculated					
Pb 220.353†	35.4	0.0023 mg/L	0.00314	0.0023 mg/L	0.00314	133.67%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	4.8	0.0065 mg/L	0.00287	0.0065 mg/L	0.00287	44.42%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	12.6	0.0137 mg/L	0.00195	0.0137 mg/L	0.00195	14.26%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	2.6	-0.0010 mg/L	0.00037	-0.0010 mg/L	0.00037	36.96%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	2.8	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	8.13%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	617.7	0.0056 mg/L	0.00006	0.0056 mg/L	0.00006	1.07%
QC value greater than the upper limit for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	1.4	0.0025 mg/L	0.00042	0.0025 mg/L	0.00042	16.55%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	111.6	0.0051 mg/L	0.00016	0.0051 mg/L	0.00016	3.11%
QC value greater than the upper limit for V 292.402	Recovery = Not calculated					
Zn 213.857†	1365.9	0.0127 mg/L	0.00015	0.0127 mg/L	0.00015	1.15%
QC value greater than the upper limit for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 205
Sample ID: IFA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 7/6/2013 4:17:15 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: IFA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-17.7	-13.0	-0.0059 mg/L	-0.0059 mg/L	04:18:57
1	Fe 234.349†	136008.1	149428.6	99.26 mg/L	99.26 mg/L	04:18:55
1	K 766.490†	991.3	271.3	0.3222 mg/L	0.3222 mg/L	04:18:57
1	Li 670.784†	-189.3	27.6	0.0052 mg/L	0.0052 mg/L	04:18:57
1	Na 589.592†	432.8	-4.2	0.1125 mg/L	0.1125 mg/L	04:18:57
1	Sr 407.771†	6461.0	7028.2	0.0086 mg/L	0.0086 mg/L	04:18:57
1	Y 371.029	2458336.9	2458336.9	0.910 mg/L		04:19:10
1	Ag 328.068†	1241.4	-501.2	0.0015 mg/L	0.0015 mg/L	04:19:12
1	Al 237.313†	2150409.4	2363138.4	261.5 mg/L	261.5 mg/L	04:19:10
1	As 188.979†	18.8	27.3	0.0242 mg/L	0.0242 mg/L	04:19:23
1	B 182.528†	32.0	44.7	0.0478 mg/L	0.0478 mg/L	04:19:23
1	Ba 233.527†	40.5	141.5	0.0044 mg/L	0.0044 mg/L	04:19:23
1	Be 313.107†	4685.1	6585.6	0.0008 mg/L	0.0008 mg/L	04:19:12
1	Ca 315.887†	20318874.0	22326725.1	243.4 mg/L	243.4 mg/L	04:19:07
1	Cd 228.802†	177.4	35.8	0.0004 mg/L	0.0004 mg/L	04:19:23
1	Co 228.616†	656.7	963.3	-0.0030 mg/L	-0.0030 mg/L	04:19:23
1	Cr 267.716†	665.5	164.9	0.0048 mg/L	0.0048 mg/L	04:19:23
1	Cu 324.752†	4628.7	282.8	0.0183 mg/L	0.0183 mg/L	04:19:12
1	Mg 279.077†	2820201.1	3098621.3	249.7 mg/L	249.7 mg/L	04:19:10
1	Mn 257.610†	27697.1	14359.0	-0.0024 mg/L	-0.0024 mg/L	04:19:12
1	Mn 294.920†	16778.9	19767.7	0.0531 mg/L	0.0531 mg/L	04:19:12
1	Mo 202.031†	464.6	474.5	0.0077 mg/L	0.0077 mg/L	04:19:23
1	Ni 231.604†	158.0	15.5	0.0020 mg/L	0.0020 mg/L	04:19:23
1	P 214.914†	-193.2	-185.2	-0.0692 mg/L	-0.0692 mg/L	04:19:23
1	Pb 220.353†	928.5	838.1	0.0056 mg/L	0.0056 mg/L	04:19:23
1	Sb 206.836†	121.0	85.1	0.0157 mg/L	0.0157 mg/L	04:19:23
1	Se 196.026†	27.0	18.8	-0.0020 mg/L	-0.0020 mg/L	04:19:23
1	Sn 189.927†	-950.9	-1074.1	-0.0099 mg/L	-0.0099 mg/L	04:19:23
1	Ti 337.279†	8093364.7	8892999.8	10.38 mg/L	10.38 mg/L	04:19:10
1	Tl 190.801†	46.4	55.8	0.0005 mg/L	0.0005 mg/L	04:19:23
1	V 292.402†	3224.0	3890.6	0.0016 mg/L	0.0016 mg/L	04:19:23
1	Zn 213.857†	2337.9	1423.3	0.0087 mg/L	0.0087 mg/L	04:19:23
2	B 249.677†	-4.9	1.1	0.0019 mg/L	0.0019 mg/L	04:19:02
2	Fe 234.349†	135894.4	149463.6	99.28 mg/L	99.28 mg/L	04:18:59
2	K 766.490†	1025.3	309.9	0.3432 mg/L	0.3432 mg/L	04:19:02

2	Li 670.784†	-273.7	-65.5	0.0026 mg/L	0.0026 mg/L	04:19:02
2	Na 589.592†	460.7	27.0	0.1181 mg/L	0.1181 mg/L	04:19:02
2	Sr 407.771†	6237.8	6790.4	0.0083 mg/L	0.0083 mg/L	04:19:02
2	Y 371.029	2455708.0	2455708.0	0.909 mg/L		04:19:29
2	Ag 328.068†	1252.1	-488.0	0.0016 mg/L	0.0016 mg/L	04:19:32
2	Al 237.313†	2148071.3	2363096.0	261.5 mg/L	261.5 mg/L	04:19:29
2	As 188.979†	0.3	7.0	0.0095 mg/L	0.0095 mg/L	04:19:42
2	B 182.528†	25.6	37.7	0.0404 mg/L	0.0404 mg/L	04:19:42
2	Ba 233.527†	60.9	164.0	0.0046 mg/L	0.0046 mg/L	04:19:42
2	Be 313.107†	4761.2	6674.9	0.0008 mg/L	0.0008 mg/L	04:19:32
2	Ca 315.887†	20282109.3	22310186.0	243.2 mg/L	243.2 mg/L	04:19:27
2	Cd 228.802†	176.8	35.5	0.0004 mg/L	0.0004 mg/L	04:19:42
2	Co 228.616†	653.9	961.1	-0.0030 mg/L	-0.0030 mg/L	04:19:42
2	Cr 267.716†	682.0	184.0	0.0050 mg/L	0.0050 mg/L	04:19:42
2	Cu 324.752†	4706.8	374.1	0.0188 mg/L	0.0188 mg/L	04:19:32
2	Mg 279.077†	2807327.7	3087778.8	248.8 mg/L	248.8 mg/L	04:19:29
2	Mn 257.610†	28059.6	14790.3	-0.0018 mg/L	-0.0018 mg/L	04:19:32
2	Mn 294.920†	17308.6	20370.0	0.0546 mg/L	0.0546 mg/L	04:19:32
2	Mo 202.031†	434.7	442.3	0.0063 mg/L	0.0063 mg/L	04:19:42
2	Ni 231.604†	169.9	28.9	0.0023 mg/L	0.0023 mg/L	04:19:42
2	P 214.914†	-202.3	-195.5	-0.0756 mg/L	-0.0756 mg/L	04:19:42
2	Pb 220.353†	895.4	802.8	0.0032 mg/L	0.0032 mg/L	04:19:42
2	Sb 206.836†	96.5	58.3	0.0032 mg/L	0.0032 mg/L	04:19:42
2	Se 196.026†	25.5	17.2	-0.0031 mg/L	-0.0031 mg/L	04:19:42
2	Sn 189.927†	-953.3	-1077.9	-0.0106 mg/L	-0.0106 mg/L	04:19:42
2	Ti 337.279†	8082497.3	8890566.0	10.38 mg/L	10.38 mg/L	04:19:29
2	Tl 190.801†	52.4	62.4	0.0070 mg/L	0.0070 mg/L	04:19:42
2	V 292.402†	3217.6	3887.3	0.0016 mg/L	0.0016 mg/L	04:19:42
2	Zn 213.857†	2323.9	1410.7	0.0086 mg/L	0.0086 mg/L	04:19:42

Mean Data: IFA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2457022.4	0.910 mg/L	0.0007			0.08%
Ag 328.068†	-494.6	0.0015 mg/L	0.00005	0.0015 mg/L	0.00005	3.42%
	QC value within limits for Ag 328.068	Recovery = Not calculated				
Al 237.313†	2363117.2	261.5 mg/L	0.00	261.5 mg/L	0.00	0.00%
	QC value within limits for Al 237.313	Recovery = 104.61%				
As 188.979†	17.2	0.0168 mg/L	0.01043	0.0168 mg/L	0.01043	61.99%
	QC value greater than the upper limit for As 188.979	Recovery = Not calculated				
B 249.677†	-5.9	-0.0020 mg/L	0.00553	-0.0020 mg/L	0.00553	275.95%
	QC value within limits for B 249.677	Recovery = Not calculated				
B 182.528†	41.2	0.0441 mg/L	0.00526	0.0441 mg/L	0.00526	11.92%
	QC value greater than the upper limit for B 182.528	Recovery = Not calculated				
Ba 233.527†	152.8	0.0045 mg/L	0.00014	0.0045 mg/L	0.00014	3.10%
	QC value greater than the upper limit for Ba 233.527	Recovery = Not calculated				
Be 313.107†	6630.3	0.0008 mg/L	0.00003	0.0008 mg/L	0.00003	3.51%
	QC value greater than the upper limit for Be 313.107	Recovery = Not calculated				
Ca 315.887†	22318455.6	243.3 mg/L	0.13	243.3 mg/L	0.13	0.05%
	QC value within limits for Ca 315.887	Recovery = 97.31%				
Cd 228.802†	35.6	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	2.07%
	QC value within limits for Cd 228.802	Recovery = Not calculated				
Co 228.616†	962.2	-0.0030 mg/L	0.00003	-0.0030 mg/L	0.00003	0.93%
	QC value less than the lower limit for Co 228.616	Recovery = Not calculated				
Cr 267.716†	174.4	0.0049 mg/L	0.00012	0.0049 mg/L	0.00012	2.37%
	QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 324.752†	328.5	0.0186 mg/L	0.00035	0.0186 mg/L	0.00035	1.86%
	QC value greater than the upper limit for Cu 324.752	Recovery = Not calculated				
Fe 234.349†	149446.1	99.27 mg/L	0.017	99.27 mg/L	0.017	0.02%
	QC value within limits for Fe 234.349	Recovery = 99.27%				
K 766.490†	290.6	0.3327 mg/L	0.01488	0.3327 mg/L	0.01488	4.47%
	QC value greater than the upper limit for K 766.490	Recovery = Not calculated				
Li 670.784†	-18.9	0.0039 mg/L	0.00181	0.0039 mg/L	0.00181	46.04%
	QC value within limits for Li 670.784	Recovery = Not calculated				
Mg 279.077†	3093200.1	249.3 mg/L	0.62	249.3 mg/L	0.62	0.25%
	QC value within limits for Mg 279.077	Recovery = 99.71%				
Mn 257.610†	14574.6	-0.0021 mg/L	0.00039	-0.0021 mg/L	0.00039	18.66%
	QC value within limits for Mn 257.610	Recovery = Not calculated				
Mn 294.920†	20068.8	0.0539 mg/L	0.00111	0.0539 mg/L	0.00111	2.06%
	QC value greater than the upper limit for Mn 294.920	Recovery = Not calculated				
Mo 202.031†	458.4	0.0070 mg/L	0.00097	0.0070 mg/L	0.00097	13.88%
	QC value greater than the upper limit for Mo 202.031	Recovery = Not calculated				

Na 589.592†	11.4	0.1153 mg/L	0.00402	0.1153 mg/L	0.00402	3.49%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	22.2	0.0021 mg/L	0.00021	0.0021 mg/L	0.00021	9.72%
QC value greater than the upper limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	-190.4	-0.0724 mg/L	0.00452	-0.0724 mg/L	0.00452	6.25%
QC value less than the lower limit for P 214.914 Recovery = Not calculated						
Pb 220.353†	820.4	0.0044 mg/L	0.00176	0.0044 mg/L	0.00176	40.00%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	71.7	0.0094 mg/L	0.00885	0.0094 mg/L	0.00885	94.03%
QC value greater than the upper limit for Sb 206.836 Recovery = Not calculated						
Se 196.026†	18.0	-0.0026 mg/L	0.00078	-0.0026 mg/L	0.00078	30.33%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-1076.0	-0.0102 mg/L	0.00048	-0.0102 mg/L	0.00048	4.69%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	6909.3	0.0084 mg/L	0.00020	0.0084 mg/L	0.00020	2.33%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	8891782.9	10.38 mg/L	0.002	10.38 mg/L	0.002	0.02%
QC value within limits for Ti 337.279 Recovery = 103.83%						
Tl 190.801†	59.1	0.0038 mg/L	0.00457	0.0038 mg/L	0.00457	121.65%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	3888.9	0.0016 mg/L	0.00002	0.0016 mg/L	0.00002	1.22%
QC value greater than the upper limit for V 292.402 Recovery = Not calculated						
Zn 213.857†	1417.0	0.0086 mg/L	0.00007	0.0086 mg/L	0.00007	0.80%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

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Sequence No.: 206                               Autosampler Location: 159
Sample ID: IFB                                 Date Collected: 7/6/2013 4:21:20 AM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: IFB						
Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	B 249.677†	-20.0	-15.3	-0.0072 mg/L	-0.0072 mg/L	04:23:04
1	Fe 234.349†	135799.9	147696.4	98.10 mg/L	98.10 mg/L	04:23:02
1	K 766.490†	1005.9	276.2	0.3248 mg/L	0.3248 mg/L	04:23:04
1	Li 670.784†	-268.9	-56.8	0.0029 mg/L	0.0029 mg/L	04:23:04
1	Na 589.592†	357.8	-90.5	0.0968 mg/L	0.0968 mg/L	04:23:04
1	Sr 407.771†	6344.8	6830.4	0.0083 mg/L	0.0083 mg/L	04:23:04
1	Y 371.029	2483360.3	2483360.3	0.919 mg/L		04:23:17
1	Ag 328.068†	88860.2	94783.9	0.5295 mg/L	0.5295 mg/L	04:23:20
1	Al 237.313†	2138542.2	2326423.3	257.5 mg/L	257.5 mg/L	04:23:17
1	As 188.979†	-3.8	2.5	0.0058 mg/L	0.0058 mg/L	04:23:30
1	B 182.528†	25.0	36.8	0.0394 mg/L	0.0394 mg/L	04:23:30
1	Ba 233.527†	26130.6	28518.1	0.2516 mg/L	0.2516 mg/L	04:23:30
1	Be 313.107†	515776.9	562424.5	0.2478 mg/L	0.2478 mg/L	04:23:17
1	Ca 315.887†	20444248.3	22238133.5	242.4 mg/L	242.4 mg/L	04:23:14
1	Cd 228.802†	14608.4	15729.8	0.4905 mg/L	0.4905 mg/L	04:23:30
1	Co 228.616†	10022.7	11143.0	0.2229 mg/L	0.2229 mg/L	04:23:30
1	Cr 267.716†	26087.5	27808.0	0.2458 mg/L	0.2458 mg/L	04:23:20
1	Cu 324.752†	48888.4	48370.8	0.2646 mg/L	0.2646 mg/L	04:23:20
1	Mg 279.077†	2801825.8	3047412.2	245.6 mg/L	245.6 mg/L	04:23:17
1	Mn 257.610†	199716.1	201149.4	0.2382 mg/L	0.2382 mg/L	04:23:20
1	Mn 294.920†	101211.2	111415.1	0.2921 mg/L	0.2921 mg/L	04:23:20
1	Mo 202.031†	432.7	434.7	0.0047 mg/L	0.0047 mg/L	04:23:30
1	Ni 231.604†	18582.8	20053.6	0.4487 mg/L	0.4487 mg/L	04:23:30
1	P 214.914†	-201.3	-191.8	-0.0751 mg/L	-0.0751 mg/L	04:23:30
1	Pb 220.353†	7109.4	7550.5	0.4797 mg/L	0.4797 mg/L	04:23:30
1	Sb 206.836†	98.8	59.6	0.0021 mg/L	0.0021 mg/L	04:23:30
1	Se 196.026†	26.3	17.7	-0.0025 mg/L	-0.0025 mg/L	04:23:30
1	Sn 189.927†	-987.1	-1102.9	-0.0148 mg/L	-0.0148 mg/L	04:23:30
1	Ti 337.279†	11349.3	12963.9	0.0200 mg/L	0.0200 mg/L	04:23:20
1	Tl 190.801†	42.3	50.8	-0.0048 mg/L	-0.0048 mg/L	04:23:30
1	V 292.402†	51997.8	56903.8	0.2643 mg/L	0.2643 mg/L	04:23:20
1	Zn 213.857†	62418.0	66743.8	0.4859 mg/L	0.4859 mg/L	04:23:20
2	B 249.677†	-7.2	-1.3	0.0006 mg/L	0.0006 mg/L	04:23:09
2	Fe 234.349†	132648.8	144314.3	95.86 mg/L	95.86 mg/L	04:23:07
2	K 766.490†	909.1	171.3	0.2677 mg/L	0.2677 mg/L	04:23:09
2	Li 670.784†	-266.1	-54.0	0.0030 mg/L	0.0030 mg/L	04:23:09

2	Na	589.592†	428.3	-13.8	0.1107 mg/L	0.1107 mg/L	04:23:09
2	Sr	407.771†	6275.6	6757.3	0.0082 mg/L	0.0082 mg/L	04:23:09
2	Y	371.029	2482581.8	2482581.8	0.919 mg/L		04:23:37
2	Ag	328.068†	87862.5	93728.7	0.5236 mg/L	0.5236 mg/L	04:23:39
2	Al	237.313†	2117973.1	2304773.7	255.1 mg/L	255.1 mg/L	04:23:37
2	As	188.979†	-11.3	-5.7	-0.0002 mg/L	-0.0002 mg/L	04:23:49
2	B	182.528†	24.0	35.6	0.0382 mg/L	0.0382 mg/L	04:23:49
2	Ba	233.527†	25937.2	28316.6	0.2498 mg/L	0.2498 mg/L	04:23:49
2	Be	313.107†	511142.0	557557.7	0.2456 mg/L	0.2456 mg/L	04:23:37
2	Ca	315.887†	19832018.6	21579003.8	235.2 mg/L	235.2 mg/L	04:23:34
2	Cd	228.802†	14545.1	15666.0	0.4886 mg/L	0.4886 mg/L	04:23:49
2	Co	228.616†	9952.9	11070.5	0.2215 mg/L	0.2215 mg/L	04:23:49
2	Cr	267.716†	25805.1	27509.5	0.2432 mg/L	0.2432 mg/L	04:23:39
2	Cu	324.752†	48300.5	47747.8	0.2612 mg/L	0.2612 mg/L	04:23:39
2	Mg	279.077†	2776486.3	3020798.6	243.5 mg/L	243.5 mg/L	04:23:37
2	Mn	257.610†	197990.9	199340.5	0.2364 mg/L	0.2364 mg/L	04:23:39
2	Mn	294.920†	99771.0	109882.6	0.2881 mg/L	0.2881 mg/L	04:23:39
2	Mo	202.031†	424.2	425.6	0.0047 mg/L	0.0047 mg/L	04:23:49
2	Ni	231.604†	18486.0	19954.7	0.4465 mg/L	0.4465 mg/L	04:23:49
2	P	214.914†	-208.4	-199.7	-0.0800 mg/L	-0.0800 mg/L	04:23:49
2	Pb	220.353†	7055.0	7493.7	0.4762 mg/L	0.4762 mg/L	04:23:49
2	Sb	206.836†	102.3	63.5	0.0045 mg/L	0.0045 mg/L	04:23:49
2	Se	196.026†	12.1	2.3	-0.0127 mg/L	-0.0127 mg/L	04:23:49
2	Sn	189.927†	-993.5	-1110.2	-0.0203 mg/L	-0.0203 mg/L	04:23:49
2	Ti	337.279†	8346.4	9700.6	0.0162 mg/L	0.0162 mg/L	04:23:39
2	Tl	190.801†	51.1	60.4	0.0057 mg/L	0.0057 mg/L	04:23:49
2	V	292.402†	51493.9	56373.4	0.2618 mg/L	0.2618 mg/L	04:23:39
2	Zn	213.857†	61782.9	66074.1	0.4811 mg/L	0.4811 mg/L	04:23:39

Mean Data: IFB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2482971.1	0.919 mg/L		0.0002			0.02%
Ag 328.068†	94256.3	0.5266 mg/L		0.00417	0.5266 mg/L	0.00417	0.79%
QC value within limits for Ag 328.068			Recovery = 105.32%				
Al 237.313†	2315598.5	256.3 mg/L		1.69	256.3 mg/L	1.69	0.66%
QC value within limits for Al 237.313			Recovery = 102.51%				
As 188.979†	-1.6	0.0028 mg/L		0.00423	0.0028 mg/L	0.00423	151.80%
QC value within limits for As 188.979			Recovery = Not calculated				
B 249.677†	-8.3	-0.0033 mg/L		0.00550	-0.0033 mg/L	0.00550	165.42%
QC value within limits for B 249.677			Recovery = Not calculated				
B 182.528†	36.2	0.0388 mg/L		0.00086	0.0388 mg/L	0.00086	2.22%
QC value within limits for B 182.528			Recovery = Not calculated				
Ba 233.527†	28417.3	0.2507 mg/L		0.00124	0.2507 mg/L	0.00124	0.50%
QC value within limits for Ba 233.527			Recovery = 100.28%				
Be 313.107†	559991.1	0.2467 mg/L		0.00151	0.2467 mg/L	0.00151	0.61%
QC value within limits for Be 313.107			Recovery = 98.68%				
Ca 315.887†	21908568.7	238.8 mg/L		5.08	238.8 mg/L	5.08	2.13%
QC value within limits for Ca 315.887			Recovery = 95.52%				
Cd 228.802†	15697.9	0.4896 mg/L		0.00138	0.4896 mg/L	0.00138	0.28%
QC value within limits for Cd 228.802			Recovery = 97.91%				
Co 228.616†	11106.8	0.2222 mg/L		0.00102	0.2222 mg/L	0.00102	0.46%
QC value within limits for Co 228.616			Recovery = 88.88%				
Cr 267.716†	27658.7	0.2445 mg/L		0.00184	0.2445 mg/L	0.00184	0.75%
QC value within limits for Cr 267.716			Recovery = 97.80%				
Cu 324.752†	48059.3	0.2629 mg/L		0.00237	0.2629 mg/L	0.00237	0.90%
QC value within limits for Cu 324.752			Recovery = 105.17%				
Fe 234.349†	146005.4	96.98 mg/L		1.586	96.98 mg/L	1.586	1.64%
QC value within limits for Fe 234.349			Recovery = 96.98%				
K 766.490†	223.7	0.2963 mg/L		0.04043	0.2963 mg/L	0.04043	13.65%
QC value within limits for K 766.490			Recovery = Not calculated				
Li 670.784†	-55.4	0.0029 mg/L		0.00006	0.0029 mg/L	0.00006	1.92%
QC value within limits for Li 670.784			Recovery = Not calculated				
Mg 279.077†	3034105.4	244.5 mg/L		1.52	244.5 mg/L	1.52	0.62%
QC value within limits for Mg 279.077			Recovery = 97.81%				
Mn 257.610†	200244.9	0.2373 mg/L		0.00129	0.2373 mg/L	0.00129	0.54%
QC value within limits for Mn 257.610			Recovery = 94.92%				
Mn 294.920†	110648.8	0.2901 mg/L		0.00283	0.2901 mg/L	0.00283	0.97%
QC value within limits for Mn 294.920			Recovery = 116.03%				
Mo 202.031†	430.1	0.0047 mg/L		0.00002	0.0047 mg/L	0.00002	0.47%
QC value within limits for Mo 202.031			Recovery = Not calculated				
Na 589.592†	-52.1	0.1037 mg/L		0.00987	0.1037 mg/L	0.00987	9.52%

2	Sr 407.771†	97.7	-14.3	0.0004	mg/L	0.0004	mg/L	04:27:29
2	Y 371.029	4687760.5	4687760.5	1.74	mg/L			04:27:58
2	Ag 328.068†	1120.0	-1219.8	-0.0050	mg/L	-0.0050	mg/L	04:28:01
2	Al 237.313†	3451.7	2419.3	0.2811	mg/L	0.2811	mg/L	04:28:11
2	As 188.979†	-10.2	0.8	0.0049	mg/L	0.0049	mg/L	04:28:11
2	B 182.528†	-4.8	6.8	0.0072	mg/L	0.0072	mg/L	04:28:11
2	Ba 233.527†	-32.8	78.1	0.0038	mg/L	0.0038	mg/L	04:28:11
2	Be 313.107†	-381.9	1218.0	0.0009	mg/L	0.0009	mg/L	04:28:01
2	Ca 315.887†	913.3	2401.8	0.0621	mg/L	0.0621	mg/L	04:28:01
2	Cd 228.802†	153.0	-70.9	-0.0012	mg/L	-0.0012	mg/L	04:28:11
2	Co 228.616†	-225.5	111.9	0.0022	mg/L	0.0022	mg/L	04:28:11
2	Cr 267.716†	314.2	-385.2	0.0000	mg/L	0.0000	mg/L	04:28:01
2	Cu 324.752†	3085.1	-3025.3	-0.0119	mg/L	-0.0119	mg/L	04:28:01
2	Mg 279.077†	213.5	119.6	0.0348	mg/L	0.0348	mg/L	04:28:01
2	Mn 257.610†	10662.9	-9928.7	-0.0111	mg/L	-0.0111	mg/L	04:28:11
2	Mn 294.920†	-633.1	967.5	0.0040	mg/L	0.0040	mg/L	04:28:01
2	Mo 202.031†	71.0	5.0	0.0028	mg/L	0.0028	mg/L	04:28:11
2	Ni 231.604†	205.7	-39.5	0.0007	mg/L	0.0007	mg/L	04:28:11
2	P 214.914†	-36.6	6.0	0.0508	mg/L	0.0508	mg/L	04:28:11
2	Pb 220.353†	203.9	-64.6	-0.0047	mg/L	-0.0047	mg/L	04:28:11
2	Sb 206.836†	39.3	-25.2	-0.0075	mg/L	-0.0075	mg/L	04:28:11
2	Se 196.026†	20.5	0.9	0.0056	mg/L	0.0056	mg/L	04:28:11
2	Sn 189.927†	-2.3	-30.7	-0.0059	mg/L	-0.0059	mg/L	04:28:11
2	Ti 337.279†	456.5	882.8	0.0059	mg/L	0.0059	mg/L	04:28:01
2	Tl 190.801†	-13.6	-3.0	-0.0018	mg/L	-0.0018	mg/L	04:28:11
2	V 292.402†	-207.4	228.8	0.0056	mg/L	0.0056	mg/L	04:28:01
2	Zn 213.857†	1309.3	-391.0	-0.0002	mg/L	-0.0002	mg/L	04:28:11

Mean Data: WASH

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	4756956.8	1.76 mg/L	0.036			2.06%
Internal Standard Check greater than the upper limit for Y 371.029. Recovery = 176.1%						
Ag 328.068†	-1227.7	-0.0050 mg/L	0.00006	-0.0050 mg/L	0.00006	1.23%
Al 237.313†	1607.7	0.1913 mg/L	0.12701	0.1913 mg/L	0.12701	66.41%
As 188.979†	2.3	0.0060 mg/L	0.00157	0.0060 mg/L	0.00157	25.96%
B 249.677†	0.4	0.0015 mg/L	0.00068	0.0015 mg/L	0.00068	45.87%
B 182.528†	6.6	0.0070 mg/L	0.00027	0.0070 mg/L	0.00027	3.80%
Ba 233.527†	71.8	0.0038 mg/L	0.00008	0.0038 mg/L	0.00008	2.08%
Be 313.107†	1196.4	0.0009 mg/L	0.00001	0.0009 mg/L	0.00001	1.48%
Ca 315.887†	2448.4	0.0626 mg/L	0.00072	0.0626 mg/L	0.00072	1.15%
Cd 228.802†	-79.3	-0.0015 mg/L	0.00037	-0.0015 mg/L	0.00037	25.36%
Co 228.616†	113.7	0.0023 mg/L	0.00005	0.0023 mg/L	0.00005	2.32%
Cr 267.716†	-368.8	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	116.40%
Cu 324.752†	-3016.1	-0.0118 mg/L	0.00007	-0.0118 mg/L	0.00007	0.59%
Fe 234.349†	18.5	0.0229 mg/L	0.00787	0.0229 mg/L	0.00787	34.41%
K 766.490†	-399.8	-0.0436 mg/L	0.00019	-0.0436 mg/L	0.00019	0.44%
Li 670.784†	46.0	0.0057 mg/L	0.00019	0.0057 mg/L	0.00019	3.37%
Mg 279.077†	102.7	0.0334 mg/L	0.00192	0.0334 mg/L	0.00192	5.75%
Mn 257.610†	-10111.1	-0.0113 mg/L	0.00033	-0.0113 mg/L	0.00033	2.92%
Mn 294.920†	961.2	0.0040 mg/L	0.00002	0.0040 mg/L	0.00002	0.58%
Mo 202.031†	4.9	0.0028 mg/L	0.00000	0.0028 mg/L	0.00000	0.16%
Na 589.592†	-576.7	0.0083 mg/L	0.00287	0.0083 mg/L	0.00287	34.55%
Ni 231.604†	-46.9	0.0006 mg/L	0.00023	0.0006 mg/L	0.00023	40.52%
P 214.914†	5.9	0.0508 mg/L	0.00007	0.0508 mg/L	0.00007	0.15%
Pb 220.353†	-64.5	-0.0047 mg/L	0.00004	-0.0047 mg/L	0.00004	0.86%
Sb 206.836†	-26.2	-0.0080 mg/L	0.00068	-0.0080 mg/L	0.00068	8.43%
Se 196.026†	0.3	0.0052 mg/L	0.00057	0.0052 mg/L	0.00057	10.87%
Sn 189.927†	-27.9	-0.0055 mg/L	0.00057	-0.0055 mg/L	0.00057	10.35%
Sr 407.771†	-6.6	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.50%
Ti 337.279†	848.1	0.0059 mg/L	0.00006	0.0059 mg/L	0.00006	0.97%
Tl 190.801†	-3.0	-0.0018 mg/L	0.00004	-0.0018 mg/L	0.00004	1.96%
V 292.402†	232.2	0.0056 mg/L	0.00002	0.0056 mg/L	0.00002	0.42%
Zn 213.857†	-428.3	-0.0005 mg/L	0.00039	-0.0005 mg/L	0.00039	85.68%
Internal Standard Check failed. Continue with analysis.						

Metals Logbooks

HOLDING TIME SUMMARY

6010B

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SS-503-01	06/21/13 12:00	07/02/13 20:05	07/03/13 11:53	12.00	180.00	07/05/13 14:57	14.12	180.00	
SS-503-02	06/21/13 12:10	07/02/13 20:05	07/03/13 11:53	11.99	180.00	07/05/13 15:01	14.12	180.00	
SS-504-01	06/21/13 13:25	07/02/13 20:05	07/03/13 11:53	11.94	180.00	07/05/13 15:05	14.07	180.00	
SS-504-02	06/21/13 13:40	07/02/13 20:05	07/03/13 11:53	11.93	180.00	07/05/13 15:09	14.06	180.00	

PAH Data Package

PAH Sample Data

ESS Laboratory

SDG: 1307061

CLASS: MSSVOA

METHOD: 8270C SIM

ANALYSES DATA PACKAGE COVER PAGE

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Client Sample Id:

SS-503-01

SS-503-02

SS-504-01

SS-504-02

Lab Sample Id:

1307061-01

1307061-02

1307061-03

1307061-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: _____

Name: _____

Date: _____

Title: _____

METHOD DETECTION AND REPORTING LIMITS

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Instrument: SVOAMS4

Analyte	MDL	MRL	Units
1,1-Biphenyl	0.0009	0.017	mg/kg
2-Methylnaphthalene	0.002	0.017	mg/kg
Acenaphthene	0.002	0.017	mg/kg
Acenaphthylene	0.002	0.017	mg/kg
Anthracene	0.001	0.017	mg/kg
Benzo(a)anthracene	0.001	0.017	mg/kg
Benzo(a)pyrene	0.001	0.017	mg/kg
Benzo(b)fluoranthene	0.002	0.017	mg/kg
Benzo(g,h,i)perylene	0.002	0.017	mg/kg
Benzo(k)fluoranthene	0.001	0.017	mg/kg
Chrysene	0.001	0.017	mg/kg
Dibenzo(a,h)Anthracene	0.002	0.017	mg/kg
Fluoranthene	0.001	0.017	mg/kg
Fluorene	0.002	0.017	mg/kg
Indeno(1,2,3-cd)Pyrene	0.002	0.017	mg/kg
Naphthalene	0.002	0.017	mg/kg
Phenanthrene	0.002	0.017	mg/kg
Pyrene	0.003	0.017	mg/kg

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-503-02

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1307061</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1307061-02</u>
		File ID:	<u>SV415996.D</u>
Sampled:	<u>06/21/13 12:10</u>	Prepared:	<u>07/05/13 10:30</u>
		Analyzed:	<u>07/08/13 13:26</u>
Solids:	<u>93.02</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15 g / 0.5 ml</u>
Batch:	<u>CG30504</u>	Sequence:	<u>CWG0078</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.024	
83-32-9	Acenaphthene	1	0.035	
208-96-8	Acenaphthylene	1	0.324	
120-12-7	Anthracene	1	0.358	
56-55-3	Benzo(a)anthracene	1	1.15	
50-32-8	Benzo(a)pyrene	1	1.09	
205-99-2	Benzo(b)fluoranthene	1	1.42	
191-24-2	Benzo(g,h,i)perylene	1	0.570	
207-08-9	Benzo(k)fluoranthene	1	0.467	
218-01-9	Chrysene	1	1.11	
53-70-3	Dibenzo(a,h)Anthracene	1	0.173	
206-44-0	Fluoranthene	10	2.68	D
86-73-7	Fluorene	1	0.056	
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.690	
91-20-3	Naphthalene	1	0.033	
85-01-8	Phenanthrene	1	0.982	
129-00-0	Pyrene	10	2.62	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3584	0.0964	27	30 - 130	*
2-Fluorobiphenyl	0.3584	0.163	45	30 - 130	
Nitrobenzene-d5	0.3584	0.119	33	30 - 130	
p-Terphenyl-d14	0.3584	0.216	60	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	386239	7.91	430529	7.91	
Naphthalene-d8	1436123	10.65	1631234	10.65	
Acenaphthene-d10	629382	14.75	726567	14.75	
Phenanthrene-d10	1197566	18.26	1345074	18.26	
Chrysene-d12	1417303	24.58	1744736	24.55	
Perylene-d12	1222087	27.72	1603521	27.68	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-504-01

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1307061</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1307061-03</u>
		File ID:	<u>SV415997.D</u>
Sampled:	<u>06/21/13 13:25</u>	Prepared:	<u>07/05/13 10:30</u>
		Analyzed:	<u>07/08/13 14:16</u>
Solids:	<u>95.30</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>15.2 g / 0.5 ml</u>
Batch:	<u>CG30504</u>	Sequence:	<u>CWG0078</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.022	
83-32-9	Acenaphthene	1	0.025	
208-96-8	Acenaphthylene	1	0.175	
120-12-7	Anthracene	1	0.199	
56-55-3	Benzo(a)anthracene	1	0.573	
50-32-8	Benzo(a)pyrene	1	0.616	
205-99-2	Benzo(b)fluoranthene	1	0.940	
191-24-2	Benzo(g,h,i)perylene	1	0.233	
207-08-9	Benzo(k)fluoranthene	1	0.320	
218-01-9	Chrysene	1	0.563	
53-70-3	Dibenzo(a,h)Anthracene	1	0.066	
206-44-0	Fluoranthene	1	1.03	
86-73-7	Fluorene	1	0.033	
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.293	
91-20-3	Naphthalene	1	0.035	
85-01-8	Phenanthrene	1	0.550	
129-00-0	Pyrene	1	1.10	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3452	0.142	41	30 - 130	
2-Fluorobiphenyl	0.3452	0.198	57	30 - 130	
Nitrobenzene-d5	0.3452	0.180	52	30 - 130	
p-Terphenyl-d14	0.3452	0.245	71	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	403919	7.91	430529	7.91	
Naphthalene-d8	1519823	10.65	1631234	10.65	
Acenaphthene-d10	674023	14.75	726567	14.75	
Phenanthrene-d10	1275004	18.26	1345074	18.26	
Chrysene-d12	1374027	24.57	1744736	24.55	
Perylene-d12	684524	27.7	1603521	27.68	*

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

8270C SIM

SS-504-02

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1307061</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Soil</u>	Laboratory ID:	<u>1307061-04</u>
		File ID:	<u>SV415998.D</u>
Sampled:	<u>06/21/13 13:40</u>	Prepared:	<u>07/05/13 10:30</u>
		Analyzed:	<u>07/08/13 15:05</u>
Solids:	<u>89.57</u>	Preparation:	<u>3541</u>
		Initial/Final:	<u>14.9 g / 0.5 ml</u>
Batch:	<u>CG30504</u>	Sequence:	<u>CWG0078</u>
		Calibration:	<u>1306027</u>
		Instrument:	<u>SVOAMS4</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	1	0.019	U
83-32-9	Acenaphthene	1	0.019	U
208-96-8	Acenaphthylene	1	0.099	
120-12-7	Anthracene	1	0.073	
56-55-3	Benzo(a)anthracene	1	0.369	
50-32-8	Benzo(a)pyrene	1	0.445	
205-99-2	Benzo(b)fluoranthene	1	0.652	
191-24-2	Benzo(g,h,i)perylene	1	0.167	
207-08-9	Benzo(k)fluoranthene	1	0.203	
218-01-9	Chrysene	1	0.395	
53-70-3	Dibenzo(a,h)Anthracene	1	0.045	
206-44-0	Fluoranthene	1	0.733	
86-73-7	Fluorene	1	0.019	U
193-39-5	Indeno(1,2,3-cd)Pyrene	1	0.217	
91-20-3	Naphthalene	1	0.021	
85-01-8	Phenanthrene	1	0.275	
129-00-0	Pyrene	1	0.738	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3747	0.159	42	30 - 130	
2-Fluorobiphenyl	0.3747	0.184	49	30 - 130	
Nitrobenzene-d5	0.3747	0.167	45	30 - 130	
p-Terphenyl-d14	0.3747	0.227	61	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	409834	7.91	430529	7.91	
Naphthalene-d8	1580057	10.65	1631234	10.65	
Acenaphthene-d10	687459	14.75	726567	14.75	
Phenanthrene-d10	1307497	18.26	1345074	18.26	
Chrysene-d12	1535217	24.57	1744736	24.55	
Perylene-d12	893962	27.69	1603521	27.68	

* Values outside of QC limits

Data File : Q:\SVOA\MS4\0713\070813\SV415995.qgd
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 Analyzed by : IBM
 Analyzed : 7/8/2013 12:52:09 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1307061-01
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 7
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	364533	20.0000	ng/uL	84.67
2	Naphthalene-D10	10.66	136	1387154	20.0000	ng/uL	85.04
3	Acenaphthene-D10	14.75	164	591931	20.0000	ng/uL	81.47
4	Phenanthrene-D10	18.26	188	1108730	20.0000	ng/uL	82.43
5	Chrysene-D12	24.57	240	1376895	20.0000	ng/uL	78.92
6	Perylene-D12	27.70	264	1247133	20.0000	ng/uL	77.77
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

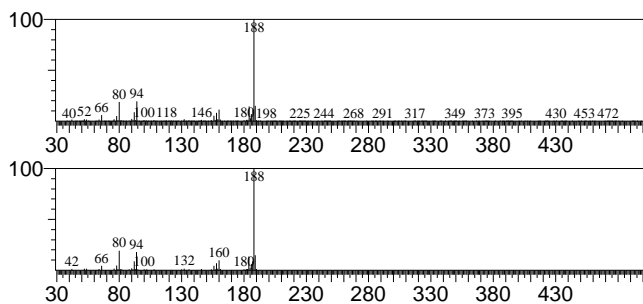
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	60351	3.16	ng/uL	126.4100
8	Nitrobenzene-D5 (Surr)	9.10	82	87661	3.69	ng/uL	147.6900
9	2-Fluorobiphenyl (Surr)	13.25	172	231984	4.64	ng/uL	185.4800
10	2,4,6-Tribromophenol (Surr)	16.63	330	40940	18.54	ng/uL	494.3000
11	Terphenyl-D14 (Surr)	22.19	244	343094	6.20	ng/uL	248.0900
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.70	128	65017	0.7837	ng/uL	97
18	2-Methylnaphthalene	12.32	142	48679	0.9070	ng/uL	89
19	1-Methylnaphthalene	12.54	142	45633	0.8626	ng/uL	97
20	Biphenyl	13.46	154	10844	0.1834	ng/uL	92
22	Acenaphthylene	14.40	152	250067	3.3364	ng/uL	83
23	Acenaphthene	14.83	153	13590	0.2831	ng/uL	89
24	Fluorene	16.06	166	20670	0.3957	ng/uL	91
29	Phenanthrene	18.31	178	509841	6.5303	ng/uL	90
30	Anthracene	18.43	178	243993	3.1266	ng/uL	97
31	Di-n-butylphthalate	19.95	149	19252	0.1821	ng/uL	88
32	Fluoranthene	21.14	202	1549359	17.1001	ng/uL	98
33	Pyrene	21.65	202	1518026	16.0998	ng/uL	98
34	Butylbenzylphthalate	23.48	149	41188	0.8906	ng/uL	94
35	Benz[a]anthracene	24.54	228	926526	9.7192	ng/uL	99
36	Chrysene	24.62	228	1113472	12.2898	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	24.97	149	48776	0.7230	ng/uL	94
39	Benzo[b]fluoranthene	26.94	252	1642186	16.6309	ng/uL	98
40	Benzo[k]fluoranthene	26.97	252	549011	5.8685	ng/uL	76
41	Benzo[a]pyrene	27.58	252	1005923	11.5855	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.65	276	764354	9.4239	ng/uL	97
43	Dibenz[a,h]anthracene	29.70	278	184281	2.3721	ng/uL	66
44	Benzo[ghi]perylene	30.09	276	686680	8.0632	ng/uL	98

ID#:4 R.Time:18.3(Scan#:3759)



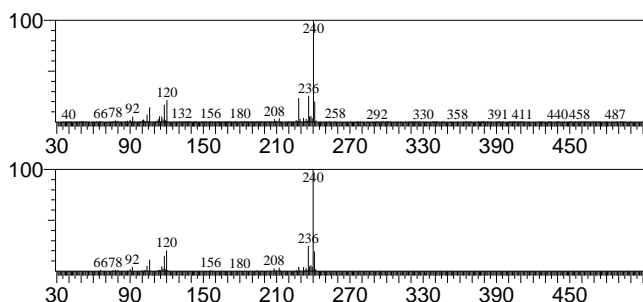
473,962 188 ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.261
Area:1108730
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	97480	20.82	19.71

18.0 19.0

ID#:5 R.Time:24.6(Scan#:5249)



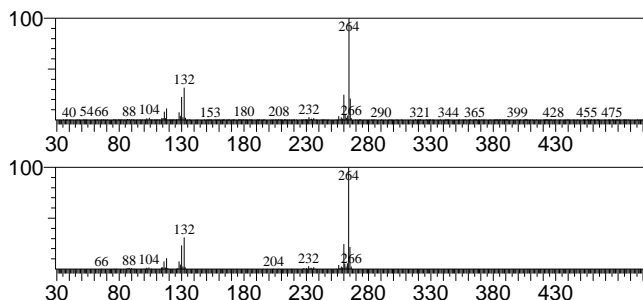
572,631 240 ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.567
Area:1376895
SI:96

#	m/z	Intensity	Ratio	Setting
1	120	127087	23.21	21.04
2	236	150244	27.44	26.98

24.0 25.0

ID#:6 R.Time:27.7(Scan#:6001)



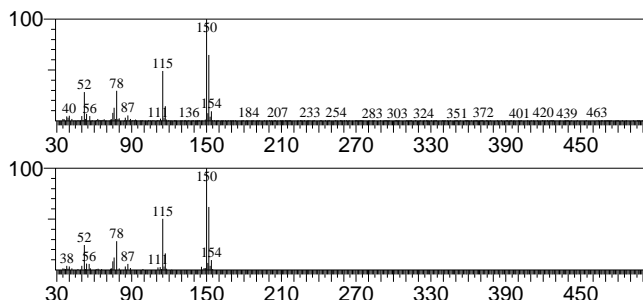
493,696 264 ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.702
Area:1247133
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	122199	27.10	26.80
2	265	95093	21.09	21.15

28.0

ID#:7 R.Time:8.2(Scan#:1399)



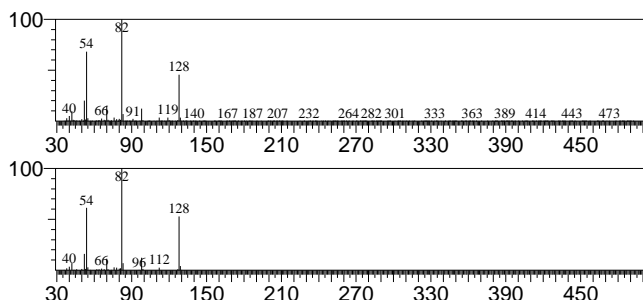
264,999 152 ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.226
Area:60351
SI:97

#	m/z	Intensity	Ratio	Setting
1	150	44789	155.32	155.60

8.0 9.0

ID#:8 R.Time:9.1(Scan#:1609)



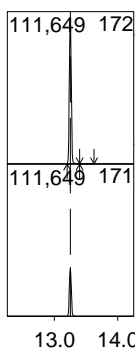
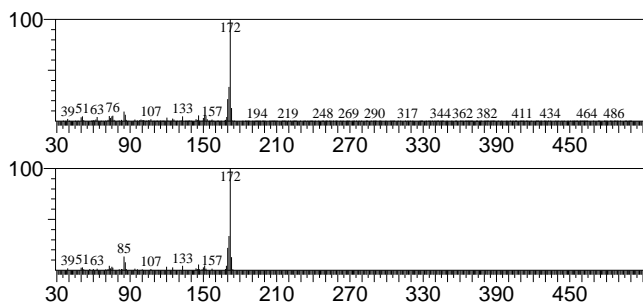
36,660 82 ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.097
Area:87661
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	17074	47.49	48.05
2	54	24806	68.99	70.83

9.0 10.0

ID#:9 R.Time:13.3(Scan#:2605)



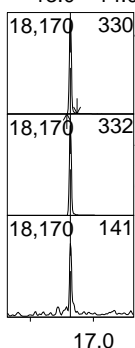
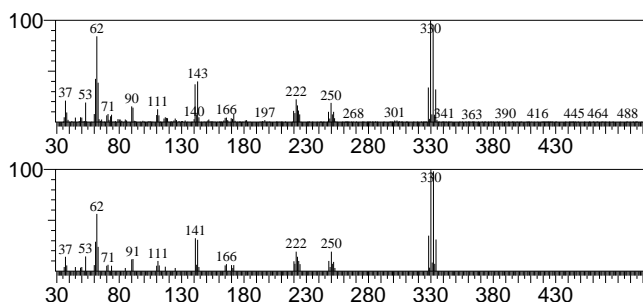
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.251
Area:231984
SI:97

Conc.:4.637ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	37840	33.65	33.30

ID#:10 R.Time:16.6(Scan#:3397)



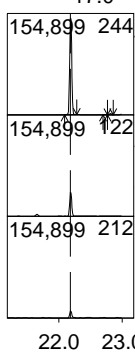
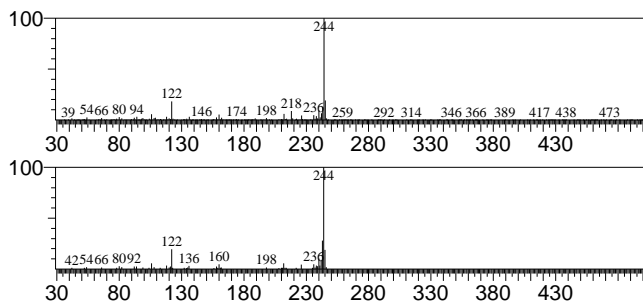
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.633
Area:40940
SI:95

Conc.:18.536ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	16990	93.01	93.70
2	141	12232	66.96	75.95

ID#:11 R.Time:22.2(Scan#:4677)



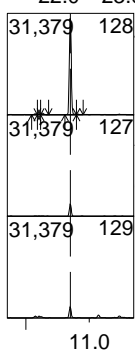
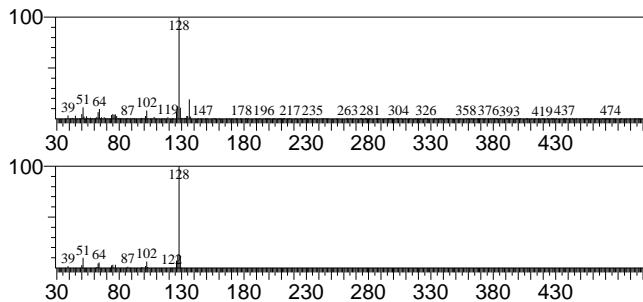
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.187
Area:343094
SI:96

Conc.:6.202ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	36612	24.37	21.72
2	212	10836	7.21	7.05

ID#:17 R.Time:10.7(Scan#:1993)



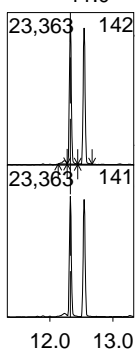
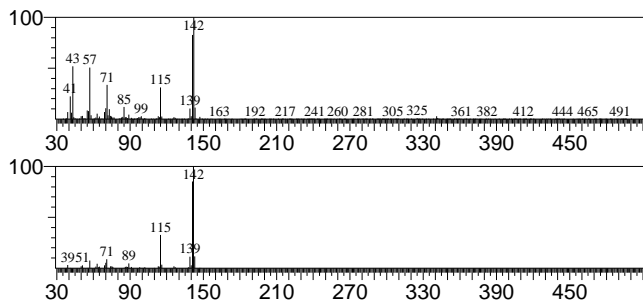
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.702
Area:65017
SI:97

Conc.:0.784ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	3932	12.42	12.40
2	129	3505	11.07	11.19

ID#:18 R.Time:12.3(Scan#:2383)



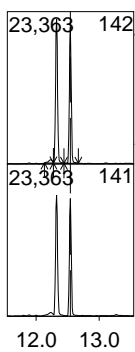
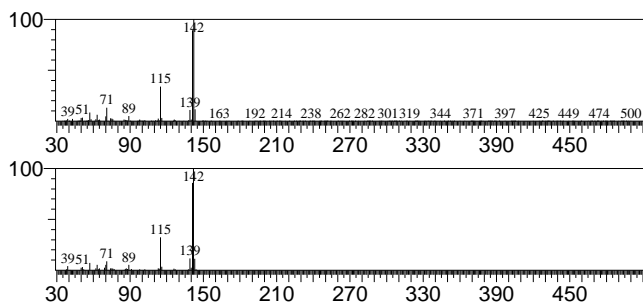
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.324
Area:48679
SI:89

Conc.:0.907ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	19409	83.44	82.70

ID#:19 R.Time:12.5(Scan#:2435)

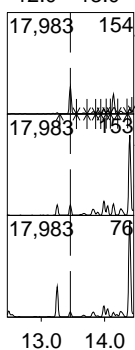
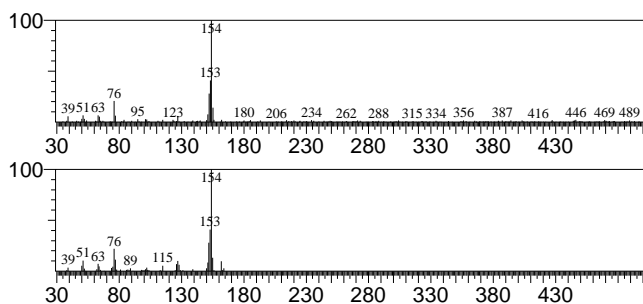


ID#:19 Mass:142.00
 Type:Target
 Name:1-Methylnaphthalene

R.T.:12.542
 Area:45633
 SI:97
 Conc.:0.863ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	19036	85.91	86.60

ID#:20 R.Time:13.5(Scan#:2655)

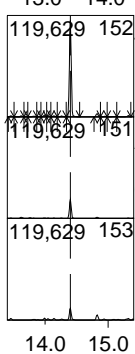
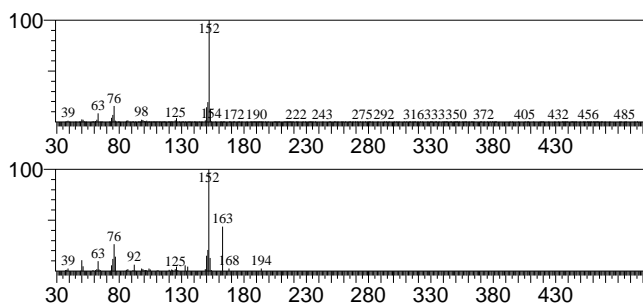


ID#:20 Mass:154.00
 Type:Target
 Name:Biphenyl

R.T.:13.460
 Area:10844
 SI:92
 Conc.:0.183ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	1912	37.76	38.13
2	76	892	17.62	19.22

ID#:22 R.Time:14.4(Scan#:2881)

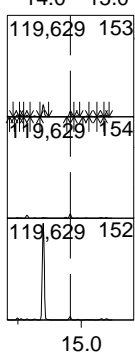
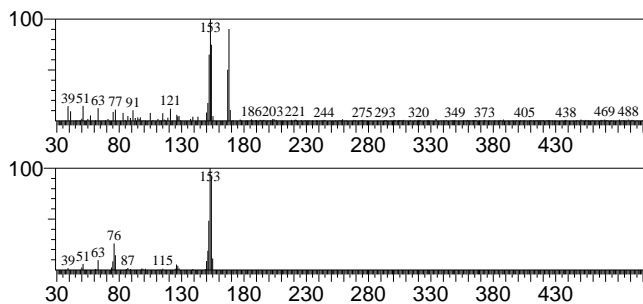


ID#:22 Mass:152.00
 Type:Target
 Name:Acenaphthylene

R.T.:14.400
 Area:250067
 SI:83
 Conc.:3.336ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	23504	19.56	19.59
2	153	14949	12.44	12.59

ID#:23 R.Time:14.8(Scan#:2983)

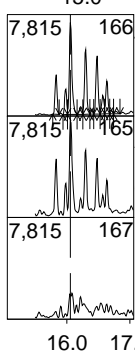
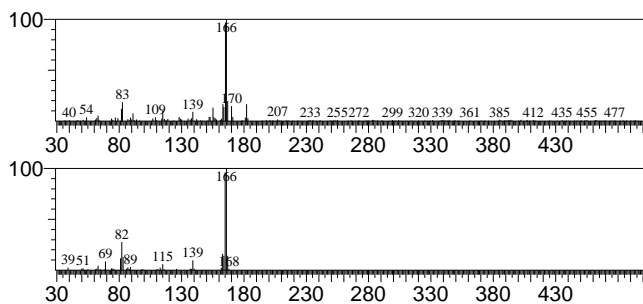


ID#:23 Mass:153.00
 Type:Target
 Name:Acenaphthene

R.T.:14.825
 Area:13590
 SI:89
 Conc.:0.283ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	5205	82.36	94.92
2	152	4050	* 64.08	48.56

ID#:24 R.Time:16.1(Scan#:3269)

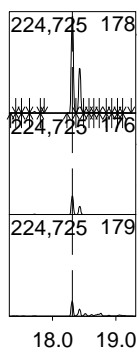
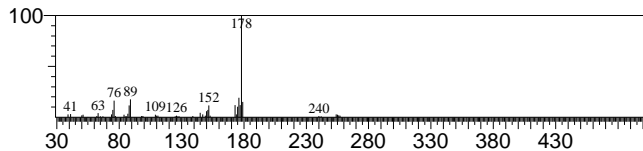
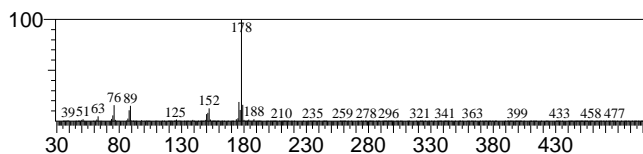


ID#:24 Mass:166.00
 Type:Target
 Name:Fluorene

R.T.:16.060
 Area:20670
 SI:91
 Conc.:0.396ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	7090	98.88	91.92
2	167	1391	* 19.40	13.05

ID#:29 R.Time:18.3(Scan#:3769)

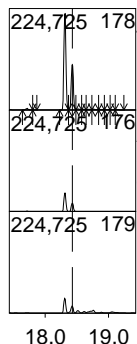
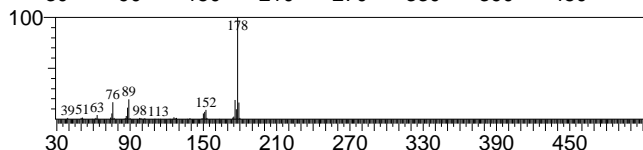
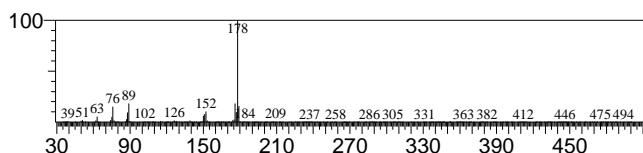


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.313
Area:509841
SI:90
Conc.:6.530ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	42307	19.02	19.17
2	179	34699	15.60	14.03

ID#:30 R.Time:18.4(Scan#:3795)

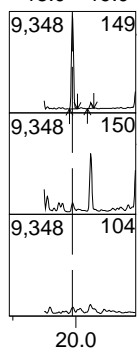
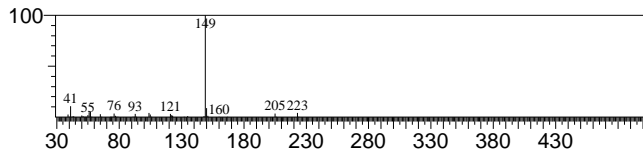
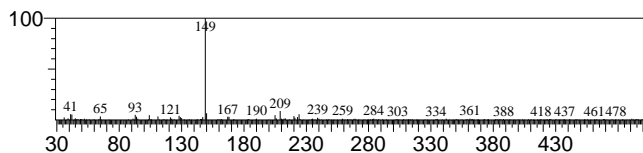


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.429
Area:243993
SI:97
Conc.:3.127ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	18829	18.45	18.55
2	179	15685	15.37	14.27

ID#:31 R.Time:19.9(Scan#:4139)

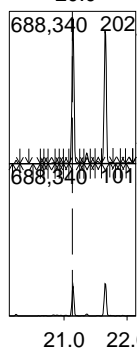
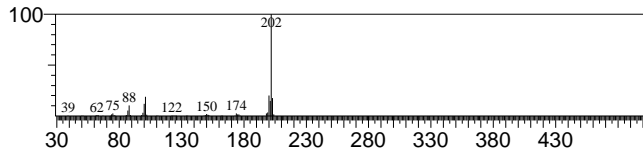
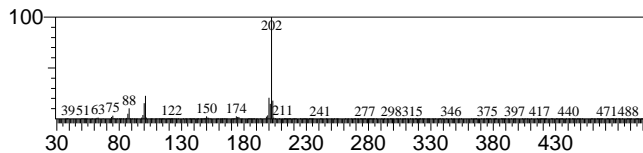


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:19.945
Area:19252
SI:88
Conc.:0.182ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	741	8.36	8.75
2	104	365	4.12	4.04

ID#:32 R.Time:21.1(Scan#:4427)

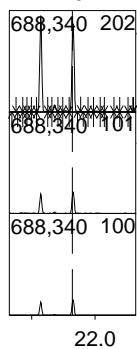
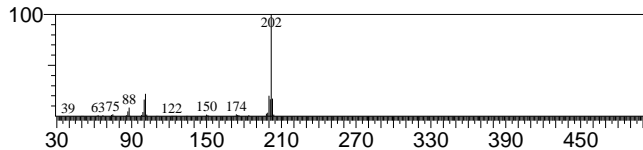
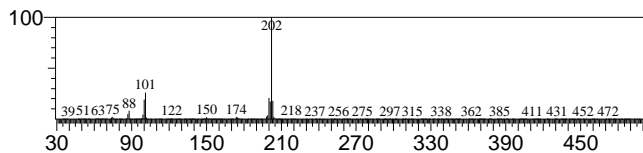


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.143
Area:1549359
SI:98
Conc.:17.100ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	136864	20.54	18.58

ID#:33 R.Time:21.7(Scan#:4549)

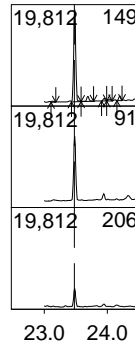
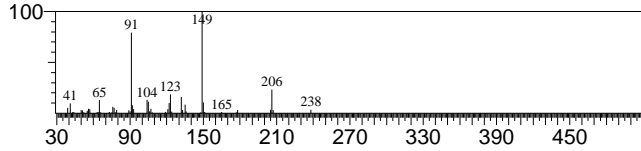
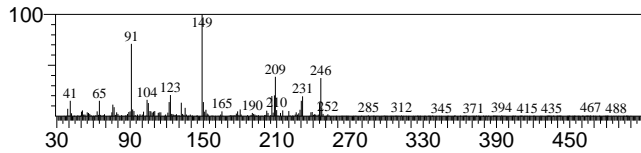


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.653
Area:1518026
SI:98
Conc.:16.100ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	146046	24.45	21.53
2	100	105790	17.71	15.51

ID#:34 R.Time:23.5(Scan#:4989)

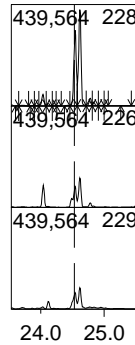
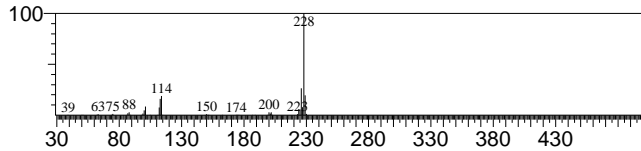
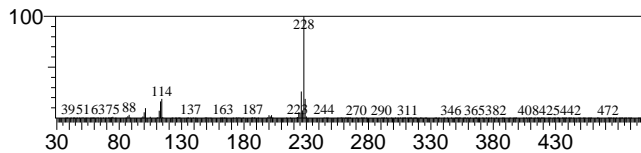


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.484
Area:41188
SI:94
Conc.:0.891ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	12841	69.32	68.53
2	206	3552	19.18	19.94

ID#:35 R.Time:24.5(Scan#:5243)

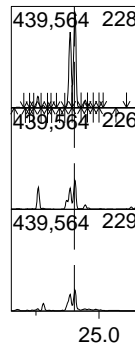
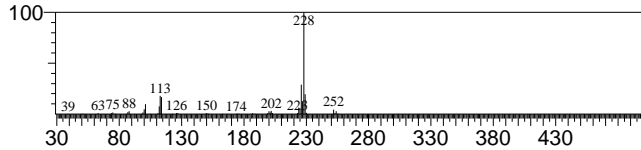
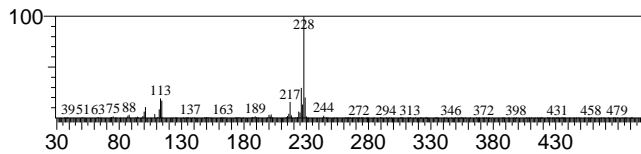


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.543
Area:926526
SI:99
Conc.:9.719ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	80974	27.49	26.70
2	229	58989	20.03	19.69

ID#:36 R.Time:24.6(Scan#:5261)

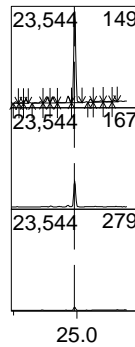
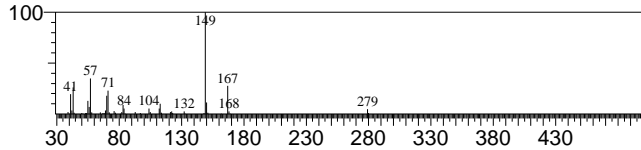
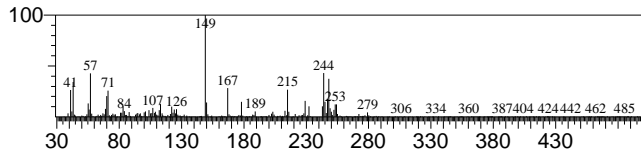


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.619
Area:1113472
SI:97
Conc.:12.290ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	117652	30.44	29.84
2	229	81802	21.17	19.72

ID#:37 R.Time:25.0(Scan#:5345)

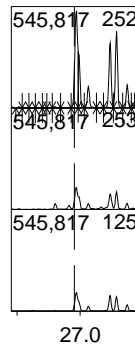
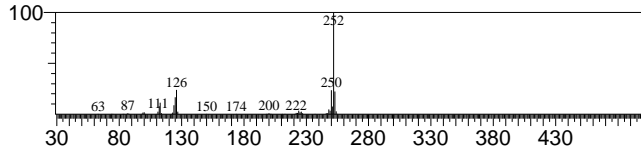
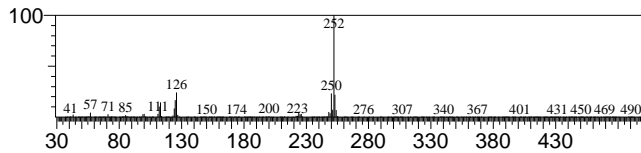


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.967
Area:48776
SI:94
Conc.:0.723ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	6111	27.95	29.63
2	279	753	3.44	3.69

ID#:39 R.Time:26.9(Scan#:5819)

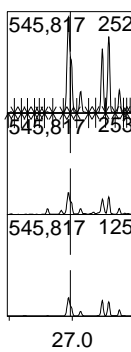
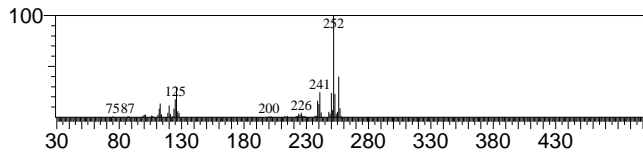
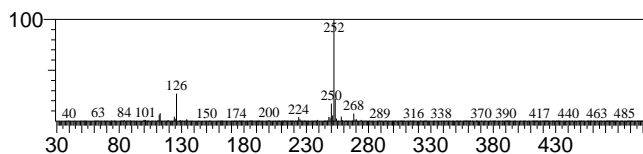


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.938
Area:1642186
SI:98
Conc.:16.631ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	78858	22.33	20.72
2	125	66291	* 18.77	14.26

ID#:40 R.Time:27.0(Scan#:5827)

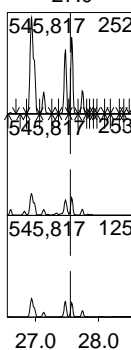
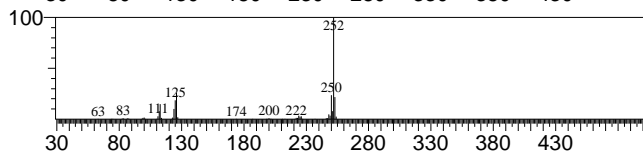
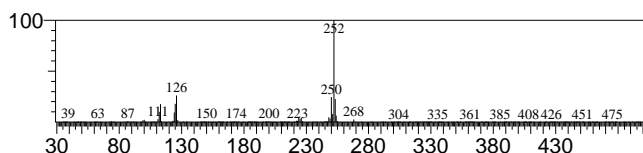


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:26.975
Area:549011
SI:76
Conc.:5.869ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	21028	24.19	20.26
2	125	14000	16.11	13.59

ID#:41 R.Time:27.6(Scan#:5971)

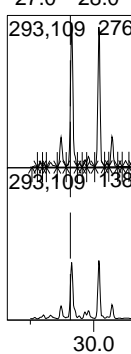
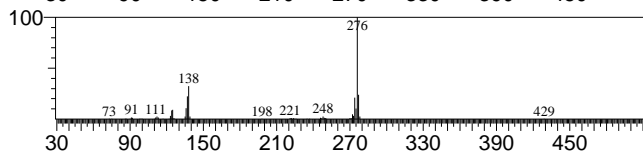
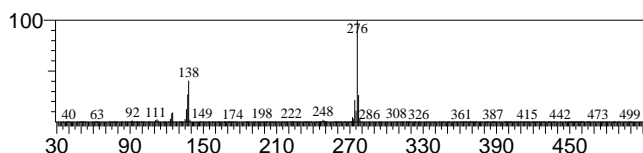


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.576
Area:1005923
SI:98
Conc.:11.586ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	93088	22.52	21.88
2	125	75160	18.18	16.90

ID#:42 R.Time:29.7(Scan#:6469)

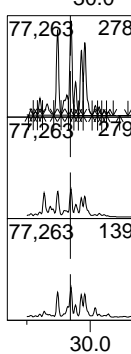
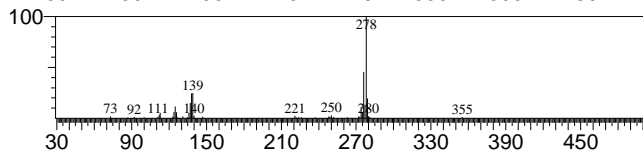
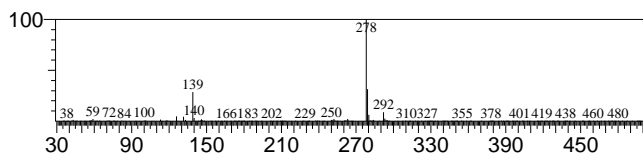


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.653
Area:764354
SI:97
Conc.:9.424ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	106277	38.97	33.97

ID#:43 R.Time:29.7(Scan#:6481)

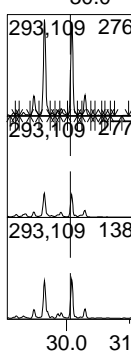
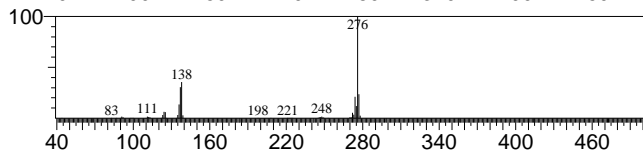
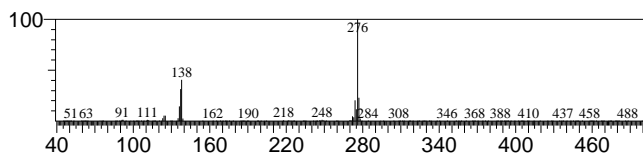


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.699
Area:184281
SI:66
Conc.:2.372ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	18596	28.20	23.57
2	139	18061	27.39	29.78

ID#:44 R.Time:30.1(Scan#:6573)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.085
Area:686680
SI:98
Conc.:8.063ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	63789	23.78	24.13
2	138	111770	41.67	39.10

Data File : Q:\SVOA\MS4\0713\070813\SV415996.qgd
 Method File : Q:\SVOA\MS4\0713\070813\SIMA4AW0708.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 7/8/2013 1:41:55 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1307061-02
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 8
 Injection Volume : 1

Internal Standard

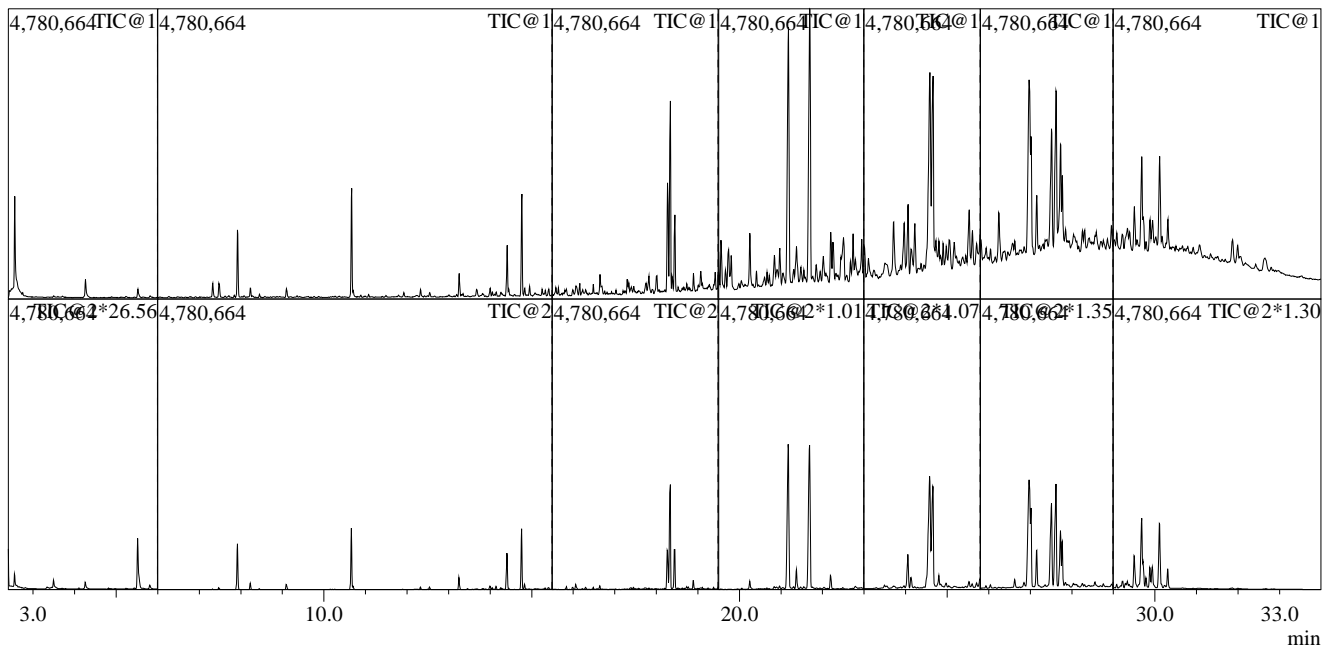
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	386239	20.0000	ng/uL	89.71
2	Naphthalene-D10	10.66	136	1436123	20.0000	ng/uL	88.04
3	Acenaphthene-D10	14.76	164	629382	20.0000	ng/uL	86.62
4	Phenanthrene-D10	18.27	188	1197566	20.0000	ng/uL	89.03
5	Chrysene-D12	24.59	240	1417303	20.0000	ng/uL	81.23
6	Perylene-D12	27.72	264	1222087	20.0000	ng/uL	76.21
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

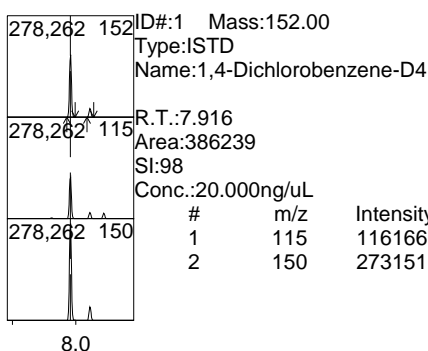
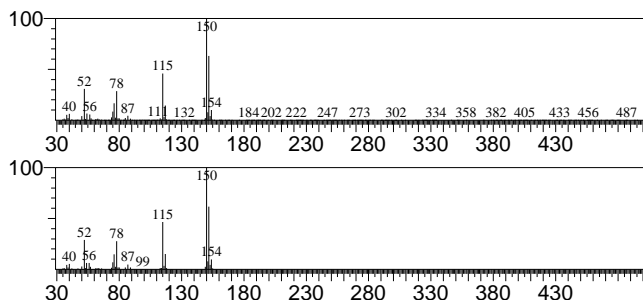
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	54484	2.69	ng/uL	107.7000
8	Nitrobenzene-D5 (Surr)	9.10	82	81542	3.32	ng/uL	132.6900
9	2-Fluorobiphenyl (Surr)	13.25	172	241275	4.54	ng/uL	181.4300
10	2,4,6-Tribromophenol (Surr)	16.64	330	34605	14.35	ng/uL	382.7500
11	Terphenyl-D14 (Surr)	22.19	244	344030	6.04	ng/uL	241.6700
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.70	128	78100	0.9093	ng/uL	96
18	2-Methylnaphthalene	12.32	142	37965	0.6833	ng/uL	88
19	1-Methylnaphthalene	12.54	142	35003	0.6391	ng/uL	96
20	Biphenyl	13.46	154	11999	0.1909	ng/uL	92
22	Acenaphthylene	14.40	152	720543	9.0414	ng/uL	83
23	Acenaphthene	14.83	153	49935	0.9785	ng/uL	94
24	Fluorene	16.06	166	86932	1.5651	ng/uL	96
29	Phenanthrene	18.33	178	2310076	27.3937	ng/uL	92
30	Anthracene	18.44	178	842667	9.9971	ng/uL	98
31	Di-n-butylphthalate	19.95	149	15403	0.1349	ng/uL	85
32	Fluoranthene	21.17	202	5411815	55.2987	ng/uL	98
33	Pyrene	21.68	202	5374329	55.3736	ng/uL	97
34	Butylbenzylphthalate	23.49	149	39920	0.8385	ng/uL	93
35	Benz[a]anthracene	24.57	228	3151273	32.1143	ng/uL	98
36	Chrysene	24.65	228	2887858	30.9657	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.98	149	58915	0.8484	ng/uL	94
39	Benzo[b]fluoranthene	26.97	252	3822141	39.5012	ng/uL	95
40	Benzo[k]fluoranthene	27.01	252	1193581	13.0200	ng/uL	81
41	Benzo[a]pyrene	27.61	252	2586993	30.4058	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.68	276	1529989	19.2501	ng/uL	98
43	Dibenz[a,h]anthracene	29.72	278	368347	4.8386	ng/uL	67
44	Benzo[ghi]perylene	30.11	276	1327904	15.9123	ng/uL	98



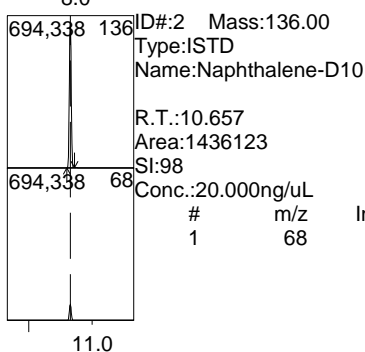
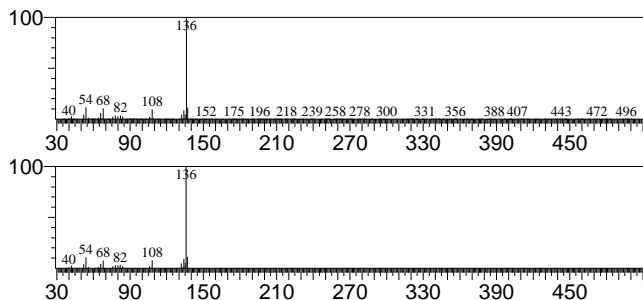
ID#:1 R.Time:7.9(Scan#:1325)



ID#:1 Mass:152.00
 Type:ISTD
 Name:1,4-Dichlorobenzene-D4
 R.T.:7.916
 Area:386239
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	116166	65.60	64.19
2	150	273151	154.26	151.89

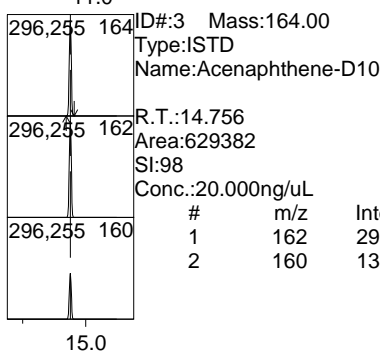
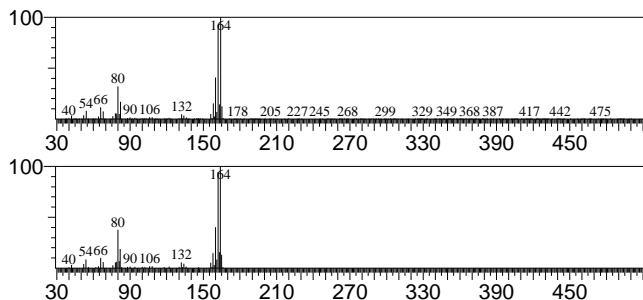
ID#:2 R.Time:10.7(Scan#:1983)



ID#:2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.657
 Area:1436123
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	76666	11.00	9.71

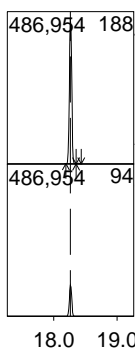
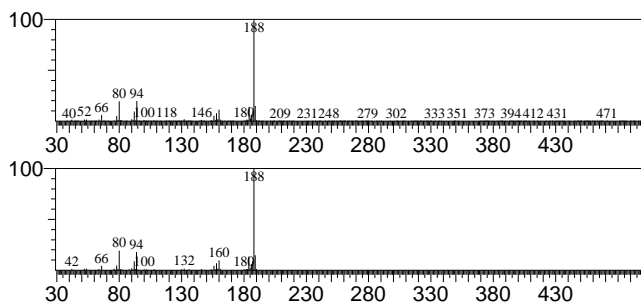
ID#:3 R.Time:14.8(Scan#:2967)



ID#:3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.756
 Area:629382
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	292582	100.83	98.82
2	160	138784	47.83	47.25

ID#:4 R.Time:18.3(Scan#:3759)

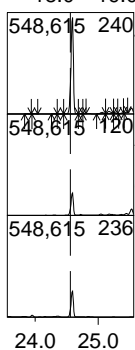
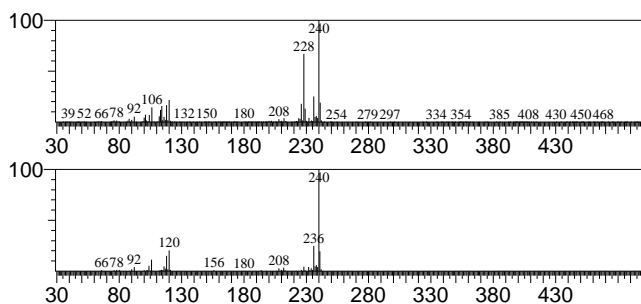


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.265
Area:1197566
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	100367	21.56	19.71

ID#5 R.Time:24.6(Scan#:5255)

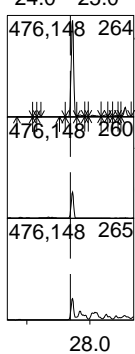
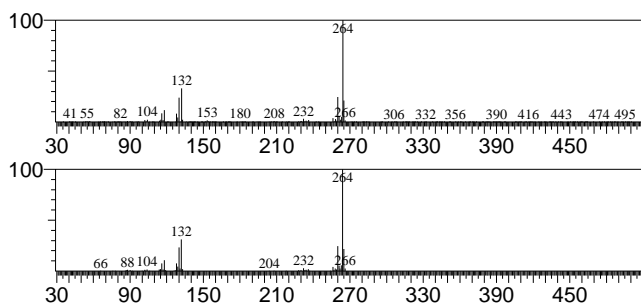


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.589
Area:1417303
SI:89

#	m/z	Intensity	Ratio	Setting
1	120	120932	23.02	21.04
2	236	140373	26.72	26.98

ID#6 R.Time:27.7(Scan#:6007)

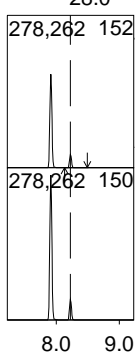
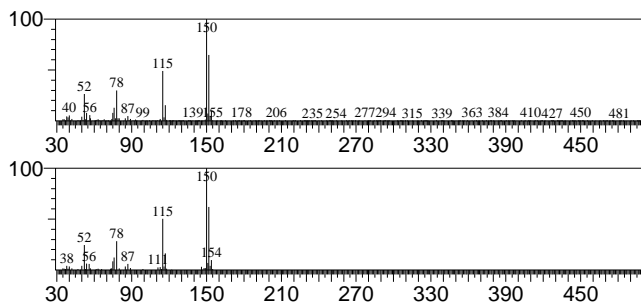


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.723
Area:1222087
SI:98

#	m/z	Intensity	Ratio	Setting
1	260	120119	27.15	26.80
2	265	91526	20.68	21.15

ID#7 R.Time:8.2(Scan#:1399)

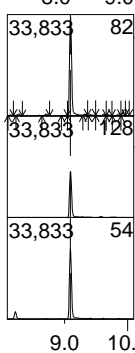
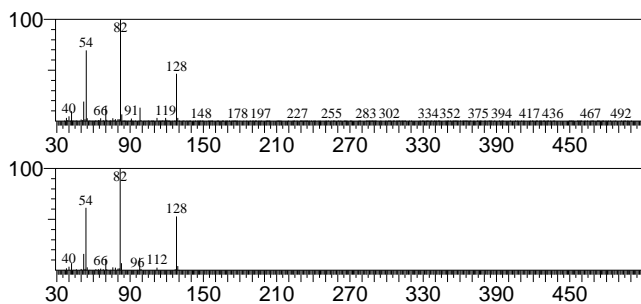


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.226
Area:54484
SI:97

#	m/z	Intensity	Ratio	Setting
1	150	39057	156.65	155.60

ID#8 R.Time:9.1(Scan#:1609)

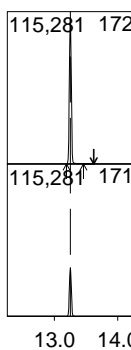
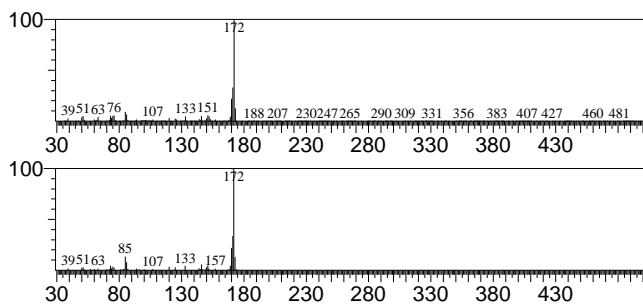


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.096
Area:81542
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	15551	47.30	48.05
2	54	22572	68.65	70.83

ID#:9 R.Time:13.3(Scan#:2605)



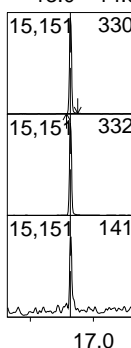
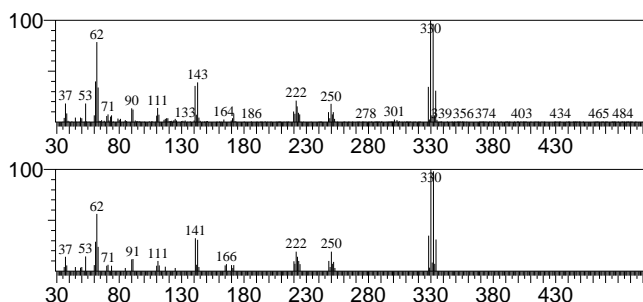
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.251
Area:241275
SI:96

Conc.:4.536ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	38975	33.67	33.30

ID#:10 R.Time:16.6(Scan#:3397)



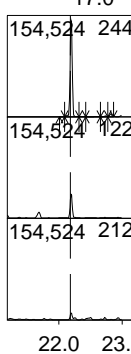
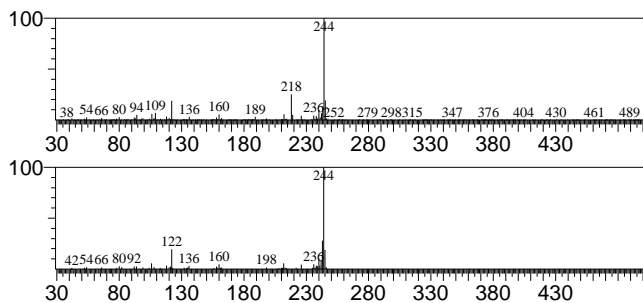
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.636
Area:34605
SI:95

Conc.:14.353ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	14441	95.90	93.70
2	141	10164	67.50	75.95

ID#:11 R.Time:22.2(Scan#:4679)



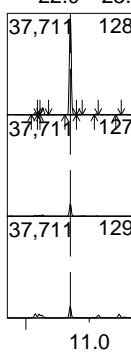
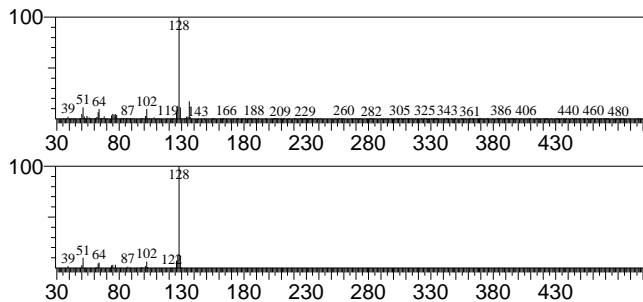
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.195
Area:344030
SI:96

Conc.:6.042ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	36479	24.15	21.72
2	212	10588	7.01	7.05

ID#:17 R.Time:10.7(Scan#:1993)



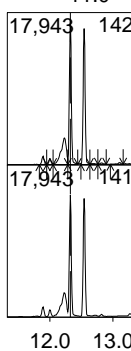
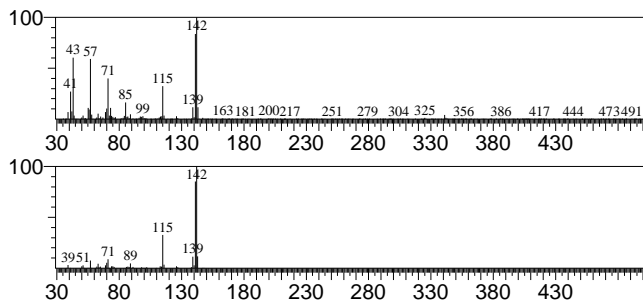
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.703
Area:78100
SI:96

Conc.:0.909ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	4718	12.44	12.40
2	129	4315	11.38	11.19

ID#:18 R.Time:12.3(Scan#:2383)



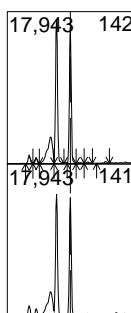
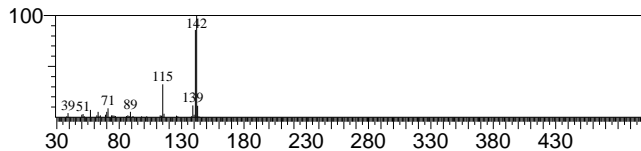
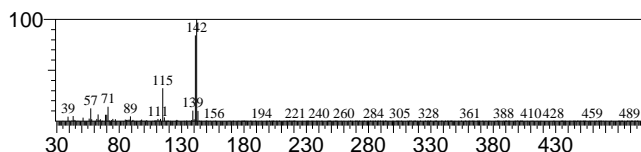
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.324
Area:37965
SI:88

Conc.:0.683ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	14879	83.95	82.70

ID#:19 R.Time:12.5(Scan#:2435)



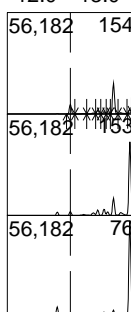
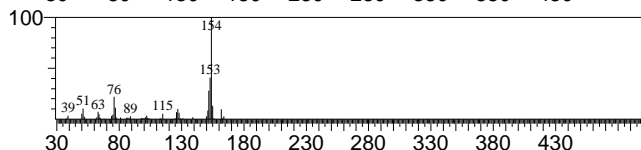
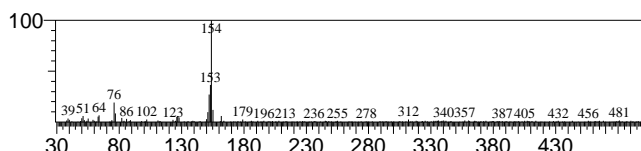
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.542
Area:35003
SI:96

Conc.:0.639ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	14688	87.07	86.60

ID#:20 R.Time:13.5(Scan#:2655)



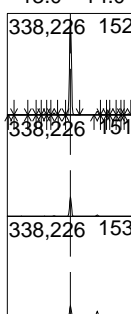
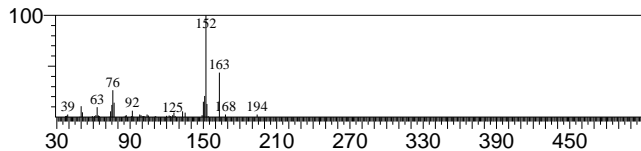
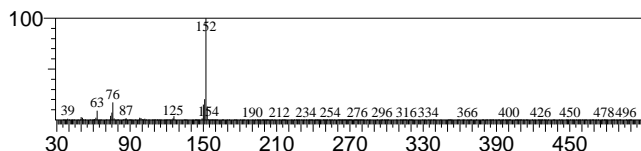
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.460
Area:11999
SI:92

Conc.:0.191ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	2136	37.93	38.13
2	76	1095	19.45	19.22

ID#:22 R.Time:14.4(Scan#:2881)



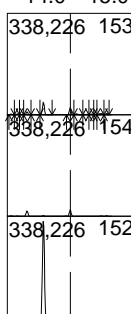
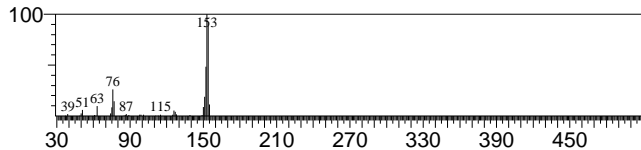
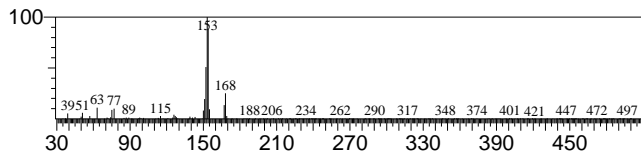
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.403
Area:720543
SI:83

Conc.:9.041ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	66484	19.78	19.59
2	153	42465	12.64	12.59

ID#:23 R.Time:14.8(Scan#:2983)



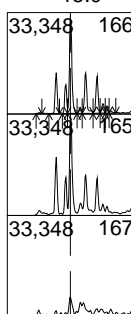
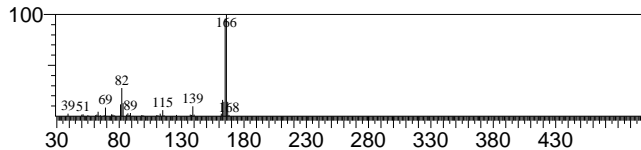
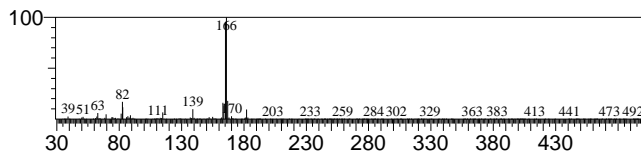
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.827
Area:49935
SI:94

Conc.:0.978ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	21361	89.27	94.92
2	152	12658	52.90	48.56

ID#:24 R.Time:16.1(Scan#:3269)



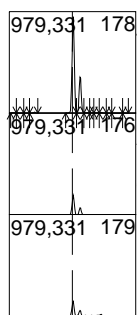
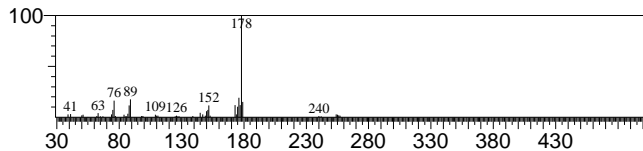
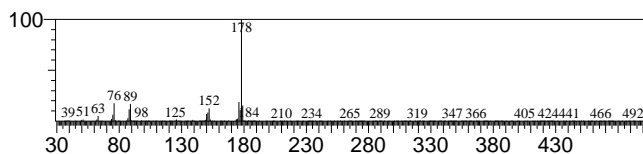
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.061
Area:86932
SI:96

Conc.:1.565ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	30338	96.60	91.92
2	167	5673	* 18.06	13.05

ID#:29 R.Time:18.3(Scan#:3773)

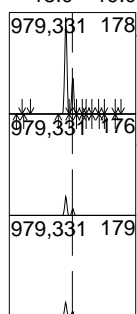
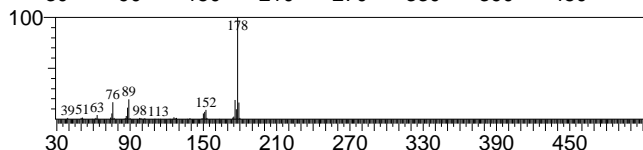
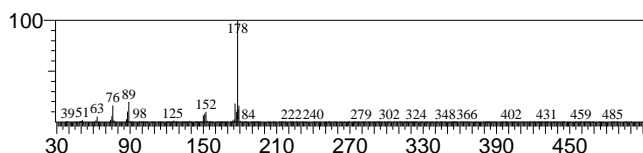


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.327
Area:2310076
SI:92
Conc.:27.394ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	188990	19.61	19.17
2	179	147247	15.28	14.03

ID#:30 R.Time:18.4(Scan#:3797)

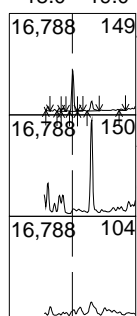
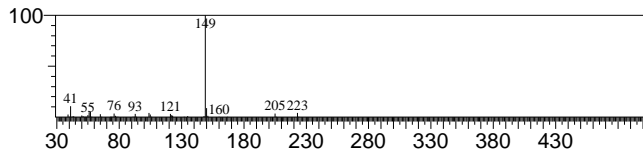
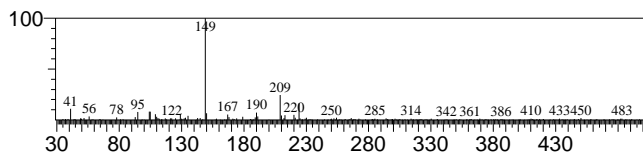


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.437
Area:842667
SI:98
Conc.:9.997ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	66515	18.61	18.55
2	179	55356	15.49	14.27

ID#:31 R.Time:19.9(Scan#:4141)

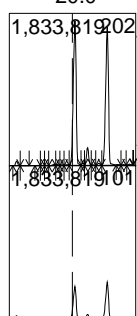
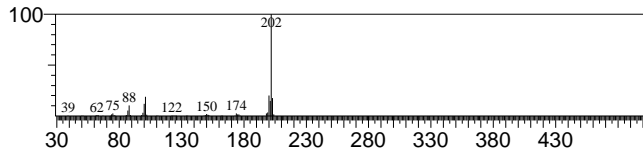
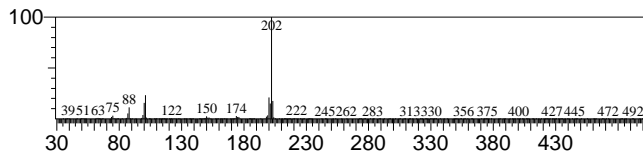


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:19.950
Area:15403
SI:85
Conc.:0.135ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	527	7.47	8.75
2	104	358	5.08	4.04

ID#:32 R.Time:21.2(Scan#:4435)

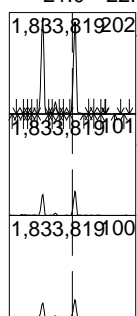
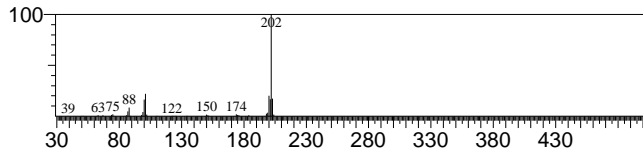
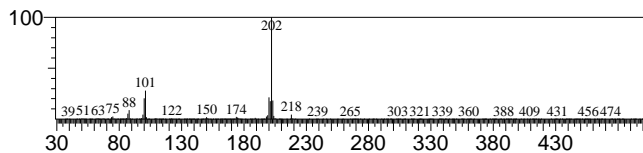


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.174
Area:5411815
SI:98
Conc.:55.299ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	361133	21.88	18.58

ID#:33 R.Time:21.7(Scan#:4557)

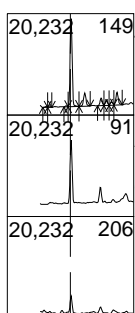
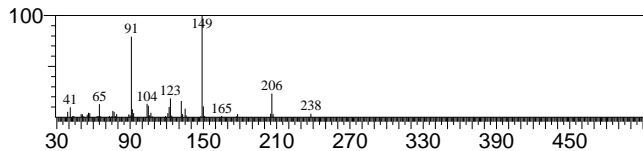
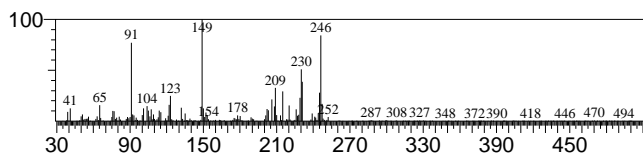


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.685
Area:5374329
SI:97
Conc.:55.374ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	390433	25.90	21.53
2	100	283949	18.83	15.51

ID#:34 R.Time:23.5(Scan#:4991)

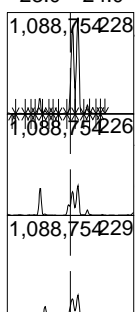
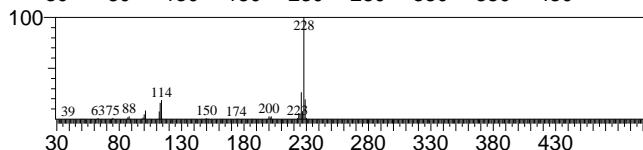
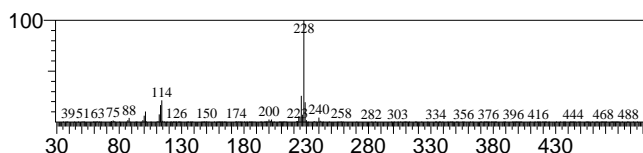


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.491
Area:39920
SI:93
Conc.:0.839ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	13080	71.59	68.53
2	206	3406	18.64	19.94

ID#:35 R.Time:24.6(Scan#:5249)

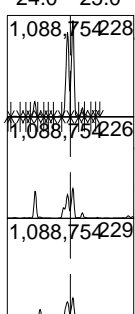
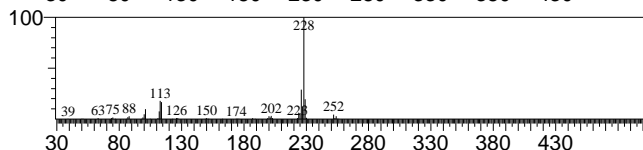
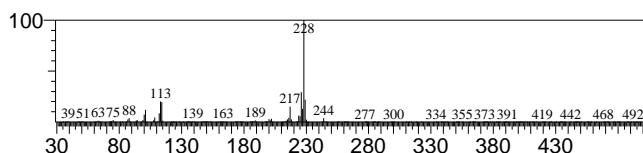


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.566
Area:3151273
SI:98
Conc.:32.114ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	191735	26.56	26.70
2	229	145089	20.10	19.69

ID#:36 R.Time:24.7(Scan#:5269)

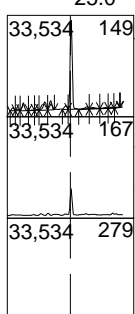
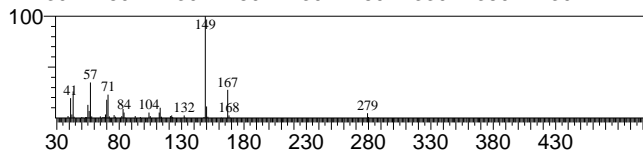
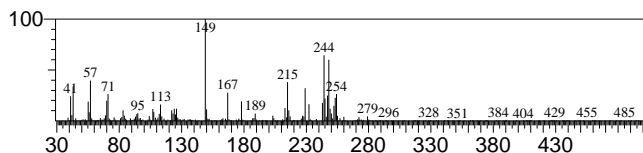


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.650
Area:2887858
SI:96
Conc.:30.966ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	270066	30.59	29.84
2	229	194906	22.08	19.72

ID#:37 R.Time:25.0(Scan#:5347)

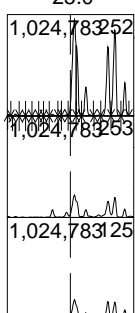
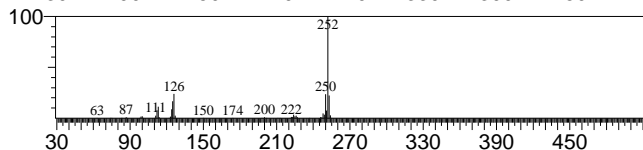
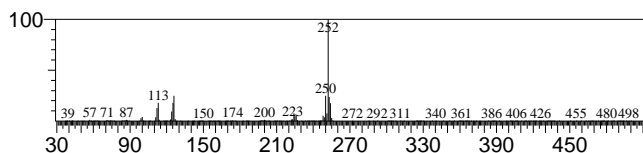


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.975
Area:58915
SI:94
Conc.:0.848ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	8229	27.00	29.63
2	279	1005	3.30	3.69

ID#:39 R.Time:27.0(Scan#:5827)

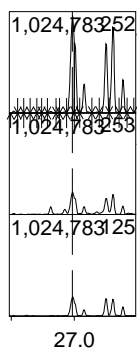
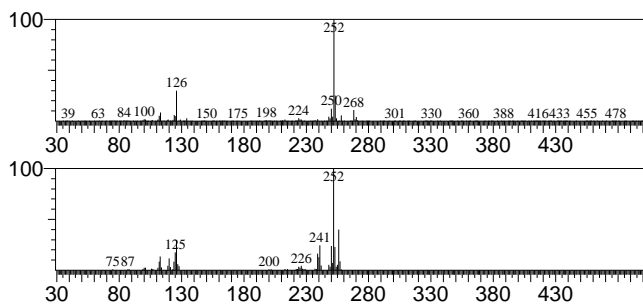


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.972
Area:3822141
SI:95
Conc.:39.501ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	115763	22.90	20.72
2	125	101773	* 20.13	14.26

ID#:40 R.Time:27.0(Scan#:5835)

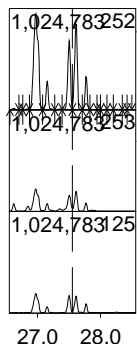
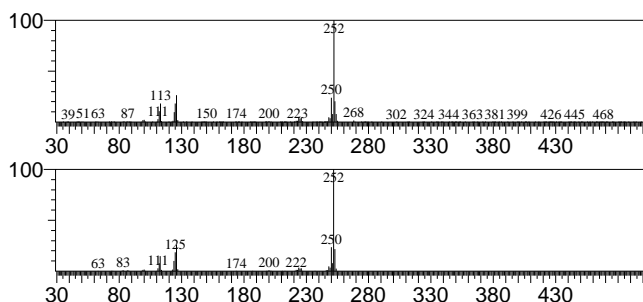


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.008
Area:1193581
SI:81
Conc.:13.020ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	41216	24.19	20.26
2	125	25702	15.08	13.59

ID#:41 R.Time:27.6(Scan#:5979)

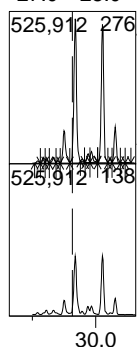
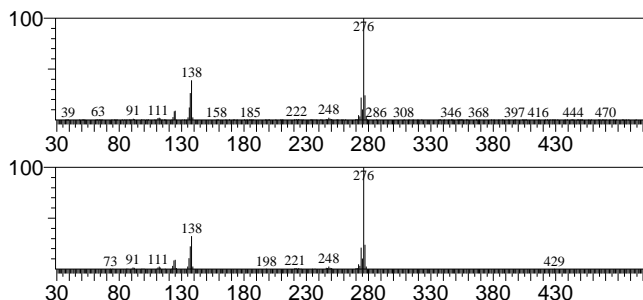


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.612
Area:2586993
SI:98
Conc.:30.406ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	172343	22.08	21.88
2	125	150437	19.28	16.90

ID#:42 R.Time:29.7(Scan#:6475)

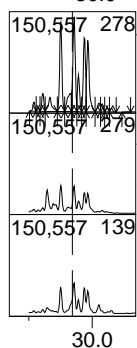
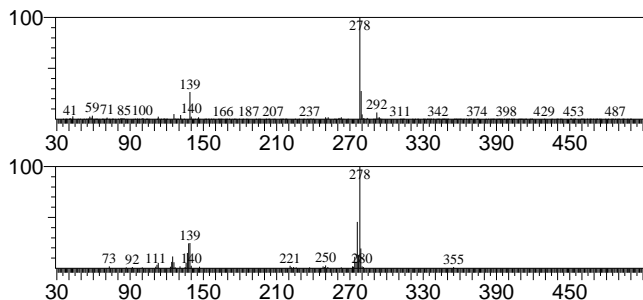


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.678
Area:1529989
SI:98
Conc.:19.250ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	187659	40.13	33.97

ID#:43 R.Time:29.7(Scan#:6485)

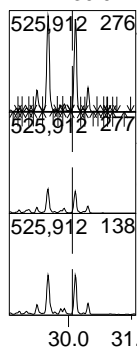
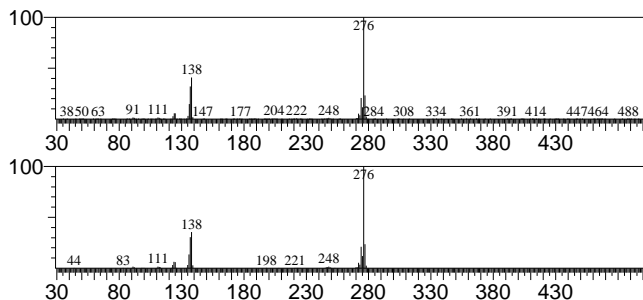


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.716
Area:368347
SI:67
Conc.:4.839ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	35665	27.71	23.57
2	139	36295	28.20	29.78

ID#:44 R.Time:30.1(Scan#:6579)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.110
Area:1327904
SI:98
Conc.:15.912ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	109173	23.86	24.13
2	138	195413	42.71	39.10

Data File : Q:\SVOA\MS4\0713\070813\SV415997.qgd
 Method File : Q:\SVOA\MS4\0713\070813\SIMA4AW0708.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 7/8/2013 2:31:39 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1307061-03
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 9
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	403919	20.0000	ng/uL	93.82
2	Naphthalene-D10	10.66	136	1519823	20.0000	ng/uL	93.17
3	Acenaphthene-D10	14.76	164	674023	20.0000	ng/uL	92.77
4	Phenanthrene-D10	18.26	188	1275004	20.0000	ng/uL	94.79
5	Chrysene-D12	24.58	240	1374027	20.0000	ng/uL	78.75
6	Perylene-D12	27.70	264	684524	20.0000	ng/uL	42.69
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

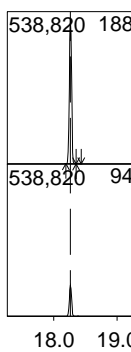
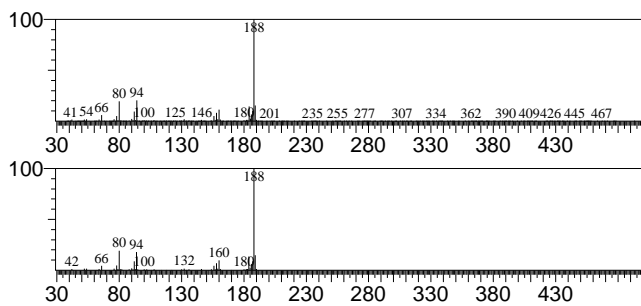
Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	86959	4.11	ng/uL	164.3800
8	Nitrobenzene-D5 (Surr)	9.10	82	135670	5.22	ng/uL	208.6200
9	2-Fluorobiphenyl (Surr)	13.25	172	326489	5.73	ng/uL	229.2400
10	2,4,6-Tribromophenol (Surr)	16.63	330	35770	13.91	ng/uL	371.0600
11	Terphenyl-D14 (Surr)	22.19	244	391378	7.09	ng/uL	283.5900
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.70	128	90792	0.9989	ng/uL	97
18	2-Methylnaphthalene	12.32	142	37095	0.6308	ng/uL	89
19	1-Methylnaphthalene	12.54	142	25373	0.4378	ng/uL	94
20	Biphenyl	13.46	154	11167	0.1659	ng/uL	92
22	Acenaphthylene	14.40	152	433458	5.0788	ng/uL	83
23	Acenaphthene	14.83	153	40129	0.7343	ng/uL	95
24	Fluorene	16.06	166	56447	0.9489	ng/uL	96
29	Phenanthrene	18.32	178	1430832	15.9368	ng/uL	91
30	Anthracene	18.43	178	516767	5.7584	ng/uL	98
31	Di-n-butylphthalate	19.95	149	13969	0.1149	ng/uL	90
32	Fluoranthene	21.16	202	3122153	29.9650	ng/uL	98
33	Pyrene	21.67	202	2989034	31.7670	ng/uL	98
34	Butylbenzylphthalate	23.49	149	46164	1.0002	ng/uL	96
35	Benz[a]anthracene	24.55	228	1578998	16.5982	ng/uL	98
36	Chrysene	24.63	228	1475729	16.3222	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.98	149	1238792	18.4003	ng/uL	98
39	Benzo[b]fluoranthene	26.94	252	1475275	27.2201	ng/uL	97
40	Benzo[k]fluoranthene	26.98	252	475676	9.2637	ng/uL	80
41	Benzo[a]pyrene	27.58	252	850772	17.8520	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.66	276	378347	8.4986	ng/uL	98
43	Dibenz[a,h]anthracene	29.71	278	81813	1.9187	ng/uL	67
44	Benzo[ghi]perylene	30.09	276	315153	6.7422	ng/uL	97

ID#:4 R.Time:18.3(Scan#:3759)

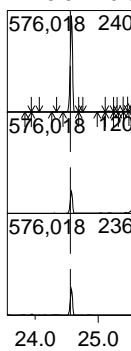
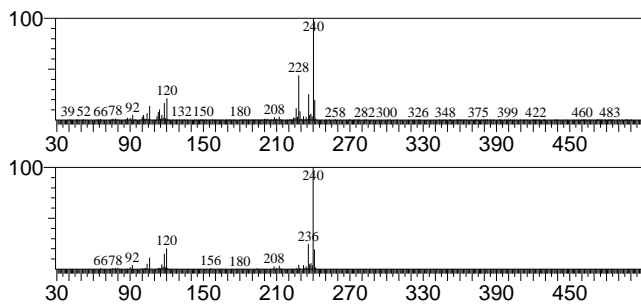


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.264
Area:1275004
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	111912	21.23	19.71

ID#5 R.Time:24.6(Scan#:5251)

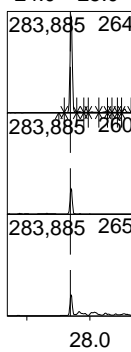
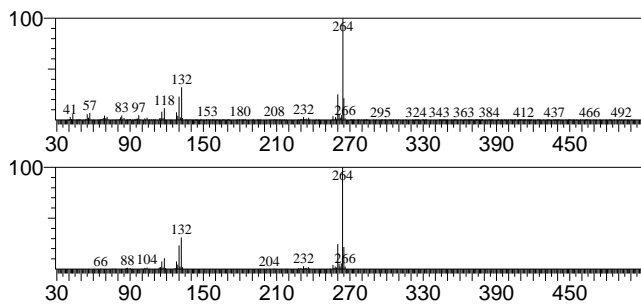


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.575
Area:1374027
SI:92
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	124828	22.41	21.04
2	236	149259	26.80	26.98

ID#6 R.Time:27.7(Scan#:6001)

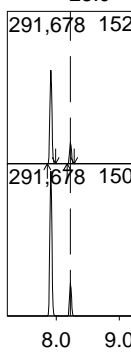
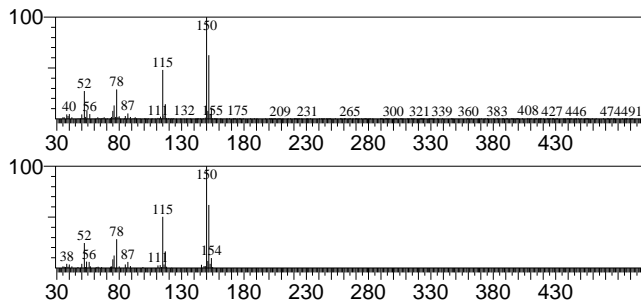


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.703
Area:684524
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	69603	26.35	26.80
2	265	55057	20.84	21.15

ID#7 R.Time:8.2(Scan#:1399)

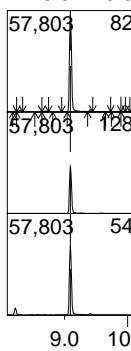
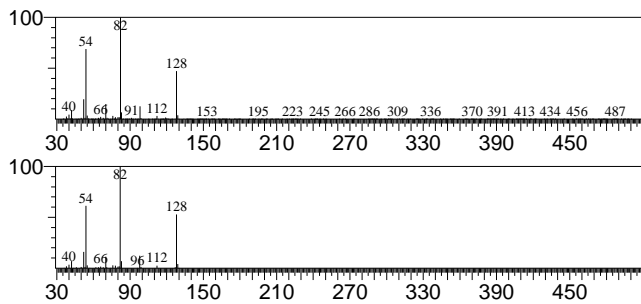


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.226
Area:86959
SI:97
Conc.:4.109ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	64051	155.03	155.60

ID#8 R.Time:9.1(Scan#:1607)

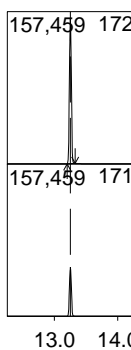
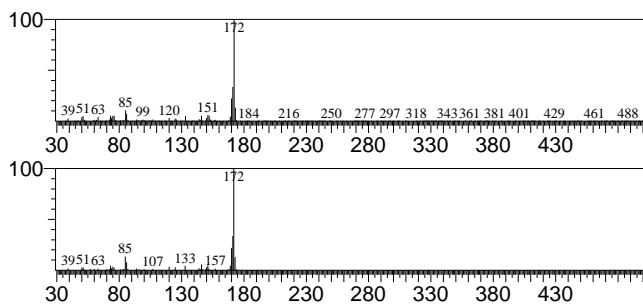


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.095
Area:135670
SI:97
Conc.:5.215ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	27887	48.55	48.05
2	54	41550	72.33	70.83

ID#:9 R.Time:13.3(Scan#:2605)



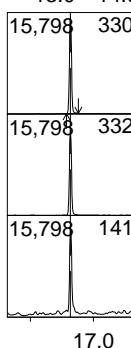
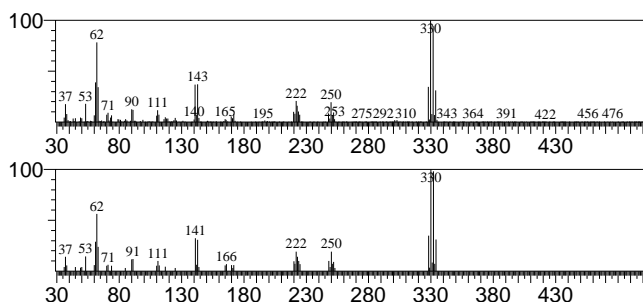
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.252
Area:326489
SI:97

Conc.:5.731ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	53419	33.87	33.30

ID#:10 R.Time:16.6(Scan#:3397)



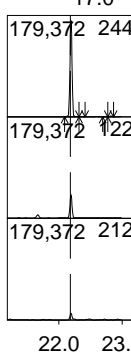
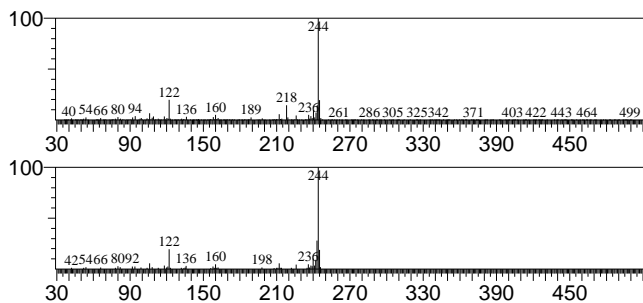
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.635
Area:35770
SI:96

Conc.:13.915ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	13946	88.39	93.70
2	141	13135	83.25	75.95

ID#:11 R.Time:22.2(Scan#:4679)



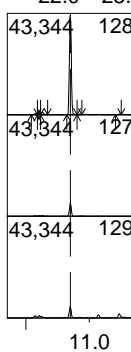
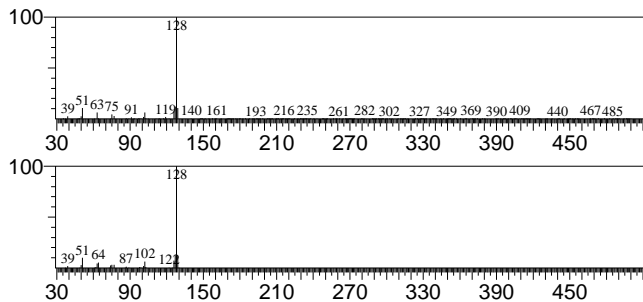
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.192
Area:391378
SI:97

Conc.:7.090ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	41459	23.49	21.72
2	212	12276	6.96	7.05

ID#:17 R.Time:10.7(Scan#:1993)



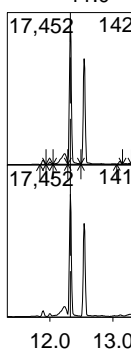
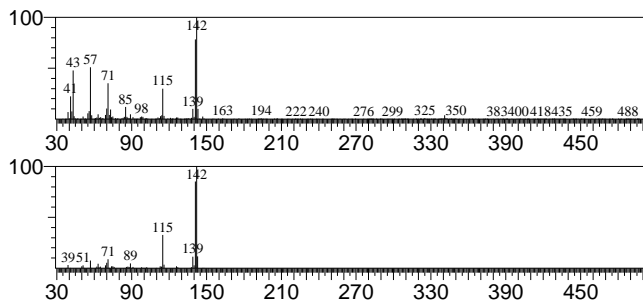
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.703
Area:90792
SI:97

Conc.:0.999ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	5375	12.39	12.40
2	129	4904	11.31	11.19

ID#:18 R.Time:12.3(Scan#:2383)



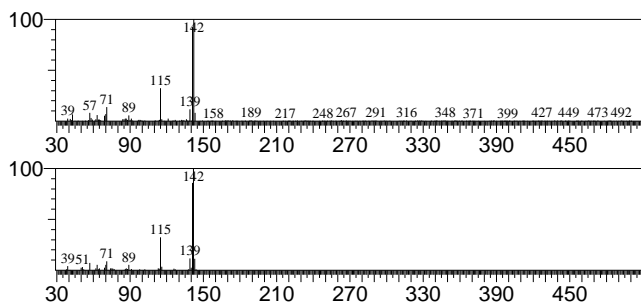
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.325
Area:37095
SI:89

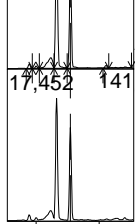
Conc.:0.631ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	14679	84.66	82.70

ID#:19 R.Time:12.5(Scan#:2435)



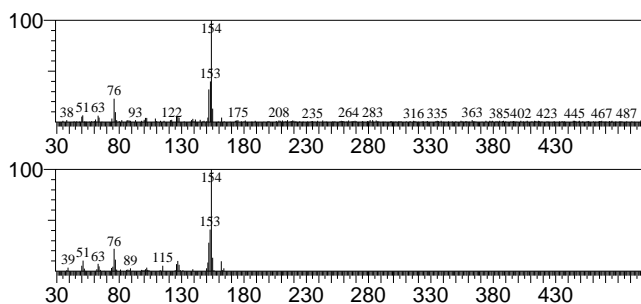
17,452 142 ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene



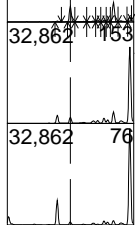
R.T.:12.543
Area:25373
SI:94
Conc.:0.438ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	11182	88.09	86.60

ID#:20 R.Time:13.5(Scan#:2655)



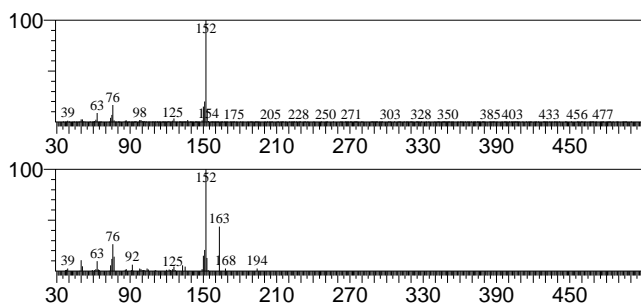
32,862 154 ID#:20 Mass:154.00
Type:Target
Name:Biphenyl



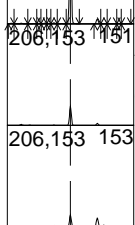
R.T.:13.460
Area:11167
SI:92
Conc.:0.166ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	2032	39.08	38.13
2	76	1008	19.39	19.22

ID#:22 R.Time:14.4(Scan#:2881)



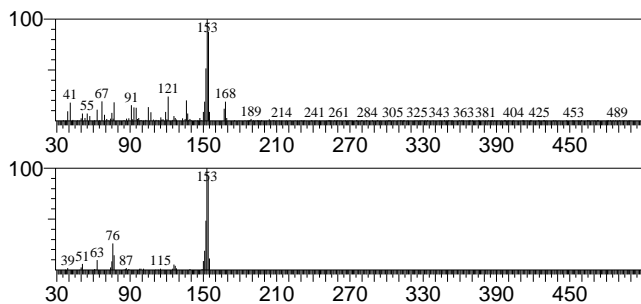
206,153 152 ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene



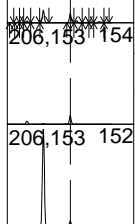
R.T.:14.402
Area:433458
SI:83
Conc.:5.079ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	40378	19.62	19.59
2	153	25949	12.61	12.59

ID#:23 R.Time:14.8(Scan#:2983)



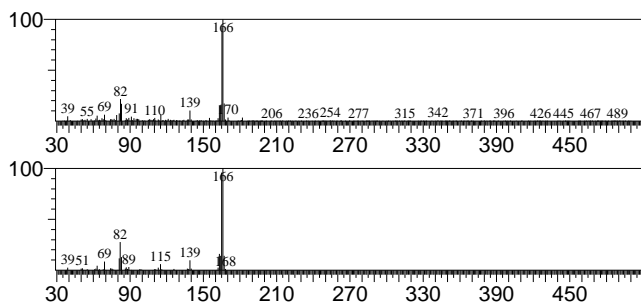
206,153 153 ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene



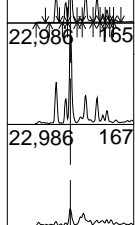
R.T.:14.827
Area:40129
SI:95
Conc.:0.734ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	17804	90.88	94.92
2	152	10120	51.66	48.56

ID#:24 R.Time:16.1(Scan#:3269)



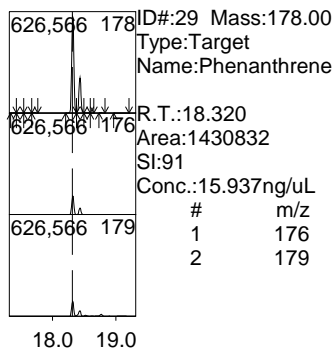
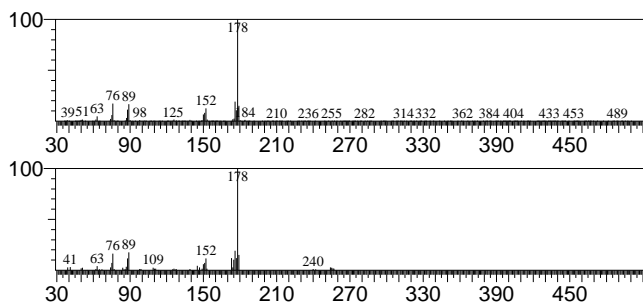
22,986 166 ID#:24 Mass:166.00
Type:Target
Name:Fluorene



R.T.:16.059
Area:56447
SI:96
Conc.:0.949ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	21094	94.39	91.92
2	167	3692	16.52	13.05

ID#:29 R.Time:18.3(Scan#:3771)

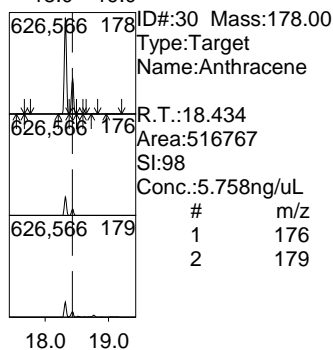
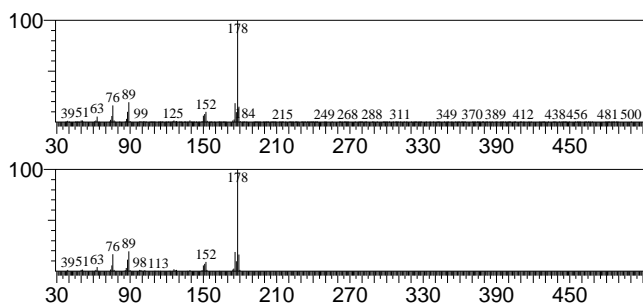


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.320
Area:1430832
SI:91
Conc.:15.937ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	119070	19.22	19.17
2	179	96424	15.56	14.03

ID#:30 R.Time:18.4(Scan#:3797)

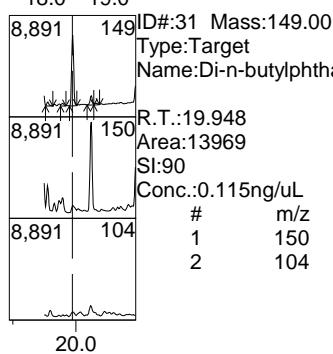
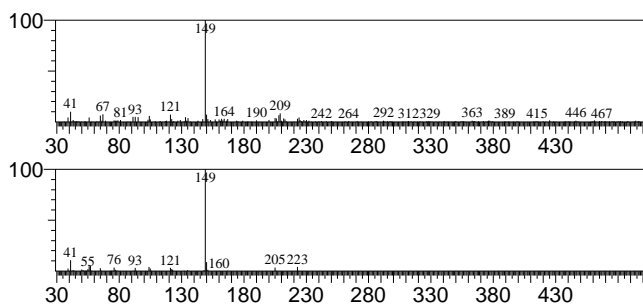


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.434
Area:516767
SI:98
Conc.:5.758ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	42495	18.51	18.55
2	179	32807	14.29	14.27

ID#:31 R.Time:19.9(Scan#:4141)

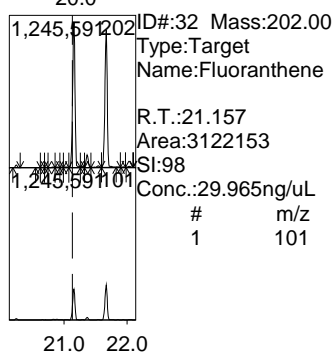
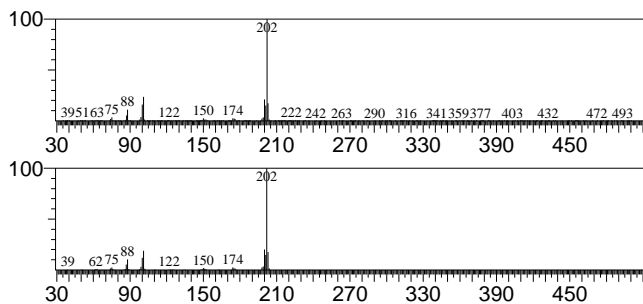


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:19.948
Area:13969
SI:90
Conc.:0.115ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	561	8.71	8.75
2	104	313	4.86	4.04

ID#:32 R.Time:21.2(Scan#:4431)

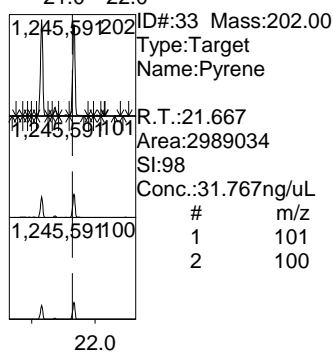
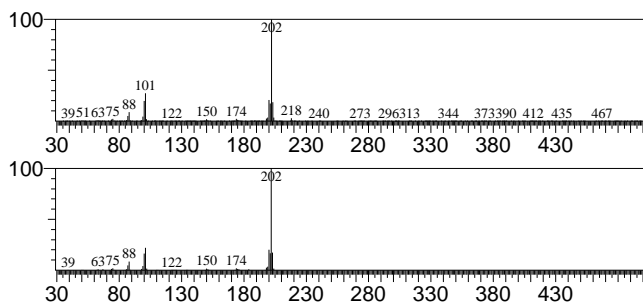


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.157
Area:3122153
SI:98
Conc.:29.965ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	252205	21.37	18.58

ID#:33 R.Time:21.7(Scan#:4553)

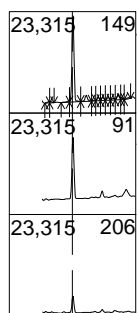
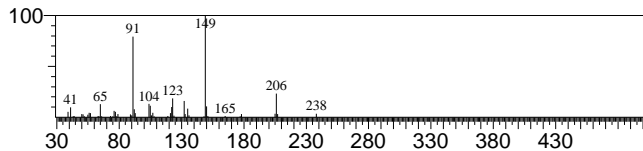
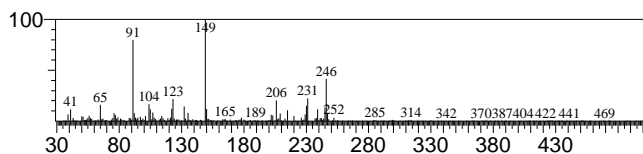


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.667
Area:2989034
SI:98
Conc.:31.767ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	281728	25.45	21.53
2	100	203334	18.37	15.51

ID#:34 R.Time:23.5(Scan#:4991)

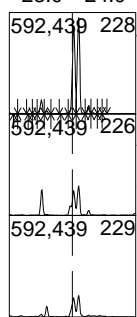
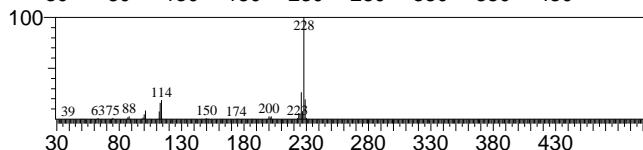
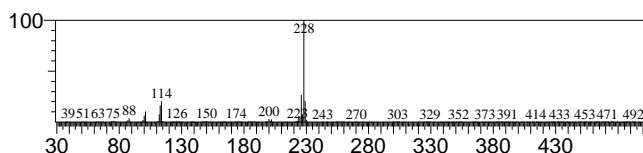


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.488
Area:46164
SI:96
Conc.:1.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	14240	71.48	68.53
2	206	3762	18.89	19.94

ID#:35 R.Time:24.6(Scan#:5245)

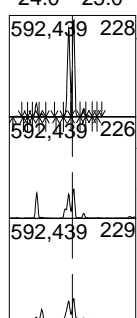
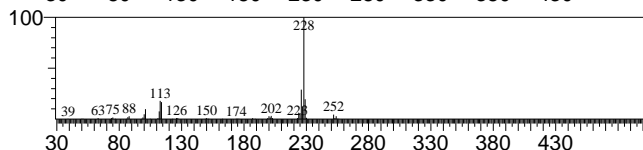
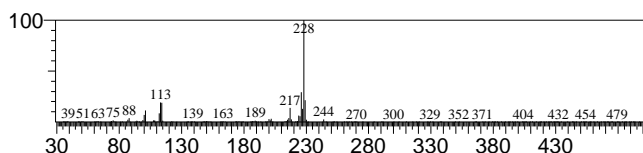


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.553
Area:1578998
SI:98
Conc.:16.598ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	117298	26.84	26.70
2	229	87657	20.06	19.69

ID#:36 R.Time:24.6(Scan#:5265)

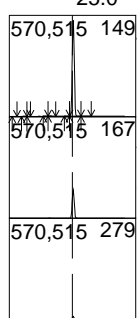
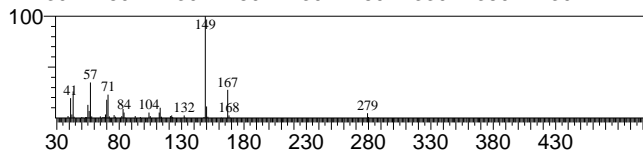
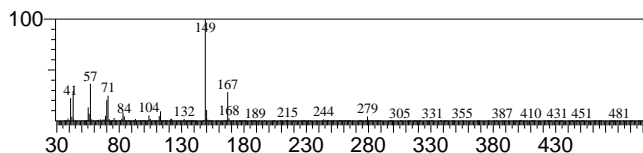


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.630
Area:1475729
SI:96
Conc.:16.322ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	154462	29.81	29.84
2	229	111463	21.51	19.72

ID#:37 R.Time:25.0(Scan#:5347)

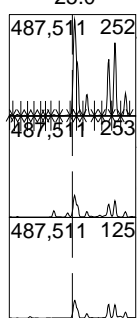
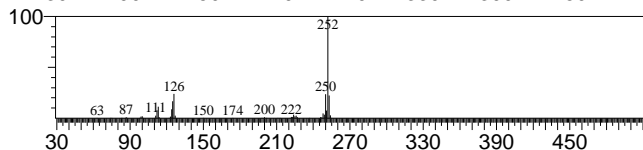
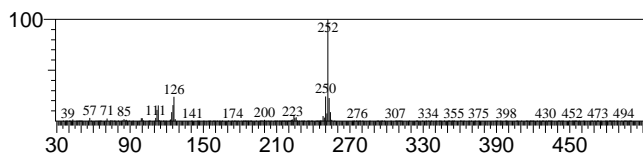


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.976
Area:1238792
SI:98
Conc.:18.400ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	161495	29.12	29.63
2	279	19962	3.60	3.69

ID#:39 R.Time:26.9(Scan#:5819)

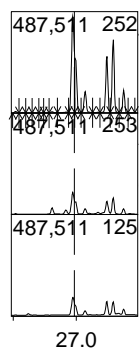
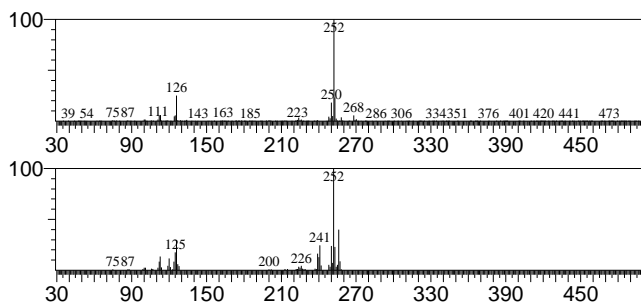


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.945
Area:1475275
SI:97
Conc.:27.220ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	74406	22.51	20.72
2	125	58641	17.74	14.26

ID#:40 R.Time:27.0(Scan#:5829)

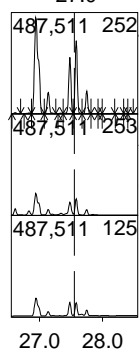
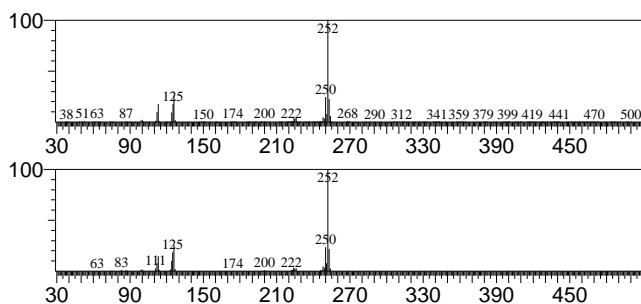


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:26.983
Area:475676
SI:80
Conc.:9.264ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	19832	23.92	20.26
2	125	12393	14.95	13.59

ID#:41 R.Time:27.6(Scan#:5973)

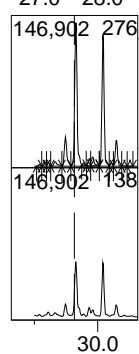
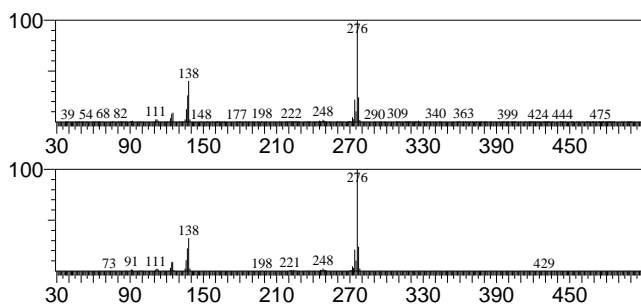


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.583
Area:850772
SI:97
Conc.:17.852ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	78936	22.29	21.88
2	125	60343	17.04	16.90

ID#:42 R.Time:29.7(Scan#:6471)

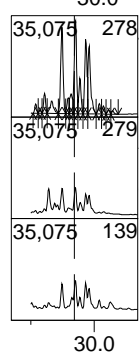
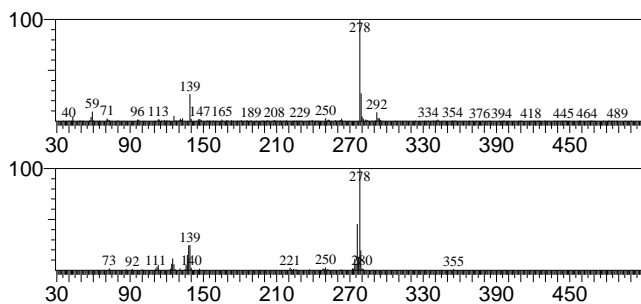


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.655
Area:378347
SI:98
Conc.:8.499ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	51969	37.25	33.97

ID#:43 R.Time:29.7(Scan#:6483)

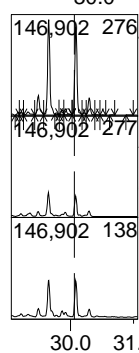
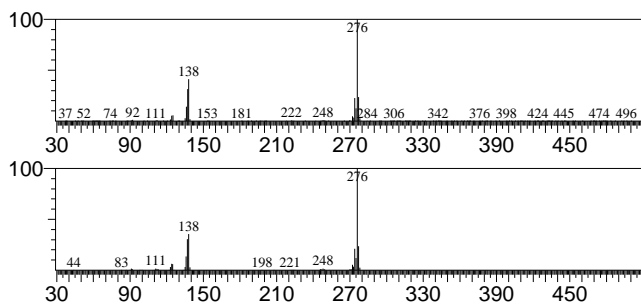


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.705
Area:81813
SI:67
Conc.:1.919ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	8116	27.18	23.57
2	139	8361	28.00	29.78

ID#:44 R.Time:30.1(Scan#:6573)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.086
Area:315153
SI:97
Conc.:6.742ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	29684	23.31	24.13
2	138	52145	40.94	39.10

Data File : Q:\SVOA\MS4\0713\070813\SV415998.qgd
 Method File : Q:\SVOA\MS4\0713\070813\SIMA4AW0708.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 7/8/2013 3:21:34 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : 1307061-04
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 10
 Injection Volume : 1

Internal Standard

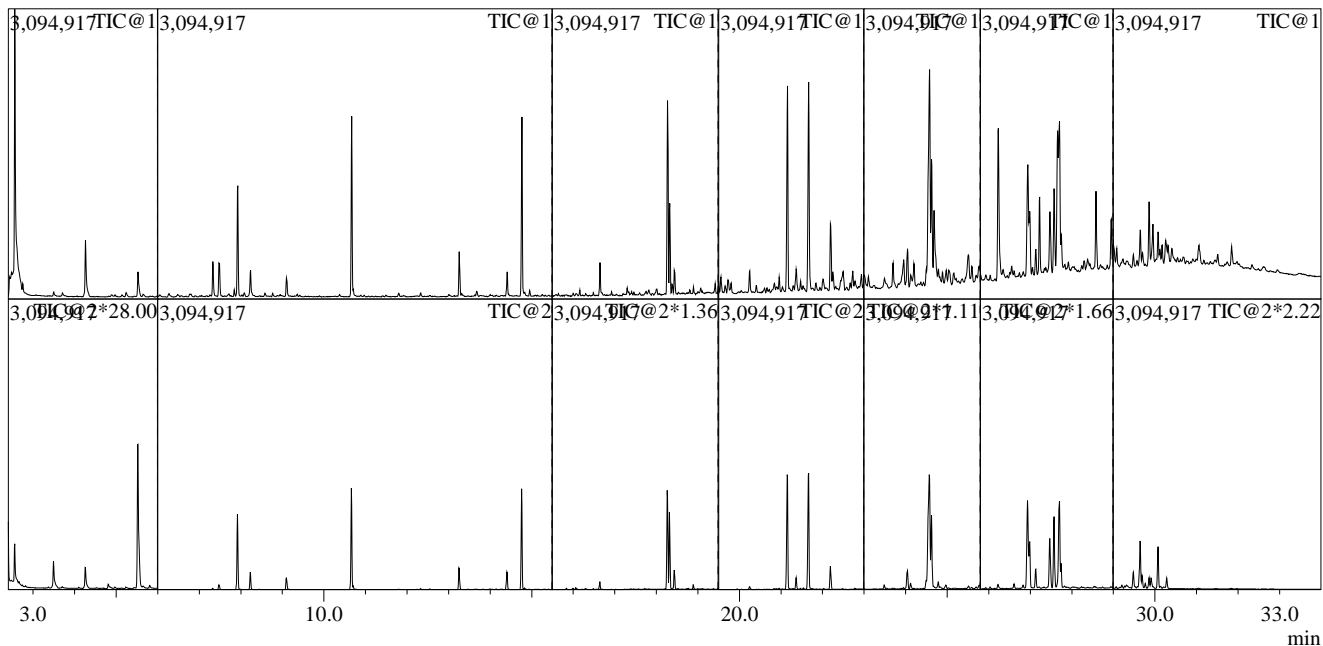
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	409834	20.0000	ng/uL	95.19
2	Naphthalene-D10	10.66	136	1580057	20.0000	ng/uL	96.86
3	Acenaphthene-D10	14.76	164	687459	20.0000	ng/uL	94.62
4	Phenanthrene-D10	18.26	188	1307497	20.0000	ng/uL	97.21
5	Chrysene-D12	24.57	240	1535217	20.0000	ng/uL	87.99
6	Perylene-D12	27.70	264	893962	20.0000	ng/uL	55.75
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

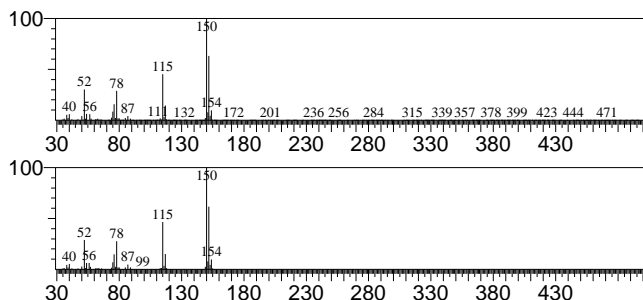
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	91149	4.25	ng/uL	169.8100
8	Nitrobenzene-D5 (Surr)	9.10	82	120369	4.45	ng/uL	178.0300
9	2-Fluorobiphenyl (Surr)	13.25	172	284704	4.90	ng/uL	196.0000
10	2,4,6-Tribromophenol (Surr)	16.64	330	33574	12.68	ng/uL	338.0400
11	Terphenyl-D14 (Surr)	22.19	244	374354	6.07	ng/uL	242.7700
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.70	128	51977	0.5500	ng/uL	97
18	2-Methylnaphthalene	12.33	142	9536	0.1560	ng/uL	82
19	1-Methylnaphthalene	12.54	142	6318	0.1049	ng/uL	93
20	Biphenyl	13.46	154	3912	0.0570	ng/uL	87
22	Acenaphthylene	14.40	152	229038	2.6312	ng/uL	82
23	Acenaphthene	14.83	153	7868	0.1411	ng/uL	87
24	Fluorene	16.06	166	16099	0.2654	ng/uL	94
29	Phenanthrene	18.32	178	677037	7.3535	ng/uL	91
30	Anthracene	18.43	178	179478	1.9502	ng/uL	98
31	Di-n-butylphthalate	19.95	149	11379	0.0913	ng/uL	92
32	Fluoranthene	21.15	202	2090151	19.5618	ng/uL	98
33	Pyrene	21.66	202	2069836	19.6883	ng/uL	98
34	Butylbenzylphthalate	23.49	149	33811	0.6557	ng/uL	95
35	Benz[a]anthracene	24.55	228	1045779	9.8389	ng/uL	99
36	Chrysene	24.62	228	1064947	10.5421	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.97	149	41807	0.5558	ng/uL	93
39	Benzo[b]fluoranthene	26.93	252	1231353	17.3968	ng/uL	97
40	Benzo[k]fluoranthene	26.97	252	364323	5.4329	ng/uL	78
41	Benzo[a]pyrene	27.57	252	740213	11.8933	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.64	276	336284	5.7841	ng/uL	97
43	Dibenz[a,h]anthracene	29.69	278	66933	1.2020	ng/uL	65
44	Benzo[ghi]perylene	30.07	276	272500	4.4639	ng/uL	97



ID#:1 R.Time:7.9(Scan#:1325)

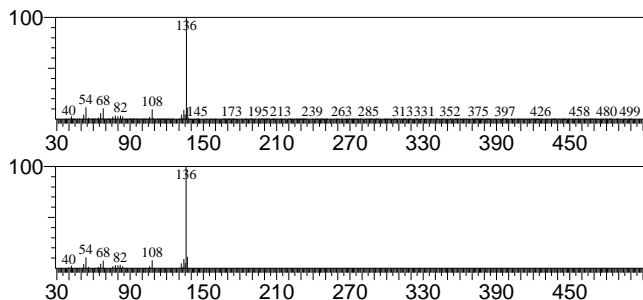


ID#1 Mass:152.00
Type:ISTD
Name:1,4-Dichlorobenzene-D4

R.T.:7.917
Area:409834
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	127258	67.16	64.19
2	150	294591	155.46	151.89

ID#:2 R.Time:10.7(Scan#:1983)

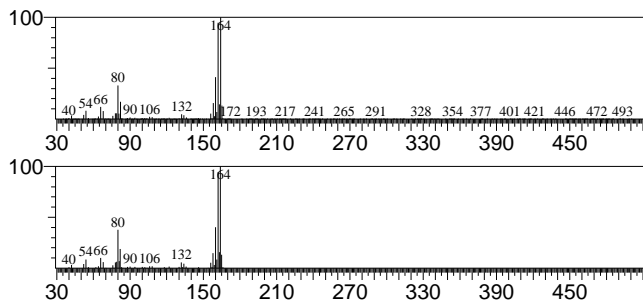


ID#2 Mass:136.00
Type:ISTD
Name:Naphthalene-D10

R.T.:10.659
Area:1580057
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	82497	10.83	9.71

ID#:3 R.Time:14.8(Scan#:2967)

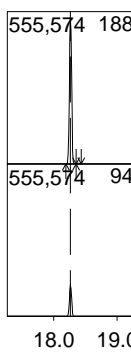
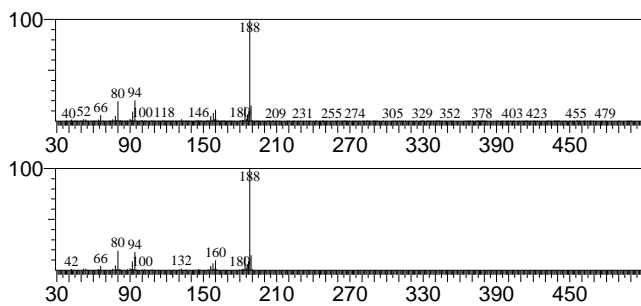


ID#3 Mass:164.00
Type:ISTD
Name:Acenaphthene-D10

R.T.:14.758
Area:687459
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	323612	99.95	98.82
2	160	153193	47.31	47.25

ID#:4 R.Time:18.3(Scan#:3759)

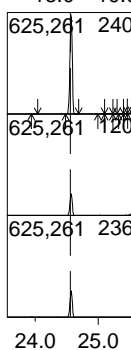
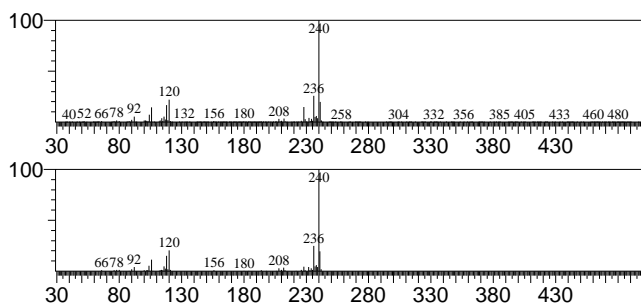


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.265
Area:1307497
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	115278	21.27	19.71

ID#5 R.Time:24.6(Scan#:5251)

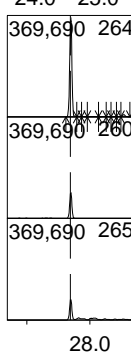
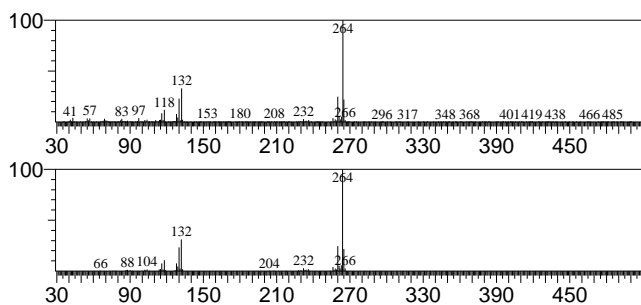


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.572
Area:1535217
SI:97

#	m/z	Intensity	Ratio	Setting
1	120	133576	22.13	21.04
2	236	160970	26.67	26.98

ID#6 R.Time:27.7(Scan#:6001)

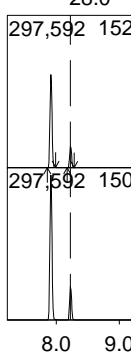
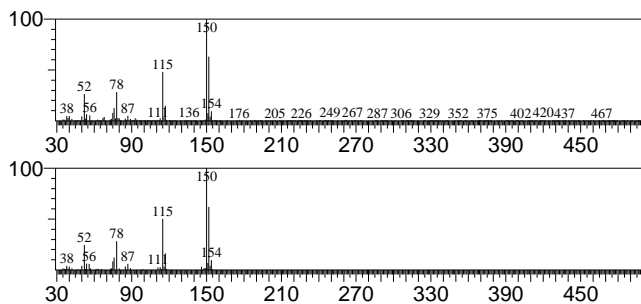


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.697
Area:893962
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	92603	26.25	26.80
2	265	72147	20.45	21.15

ID#7 R.Time:8.2(Scan#:1399)

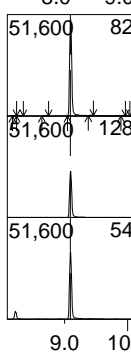
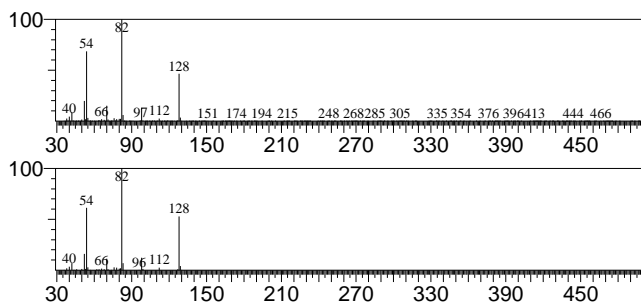


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.228
Area:91149
SI:97

#	m/z	Intensity	Ratio	Setting
1	150	66850	156.99	155.60

ID#8 R.Time:9.1(Scan#:1609)

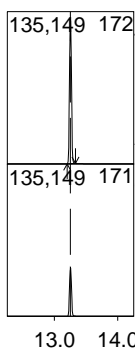
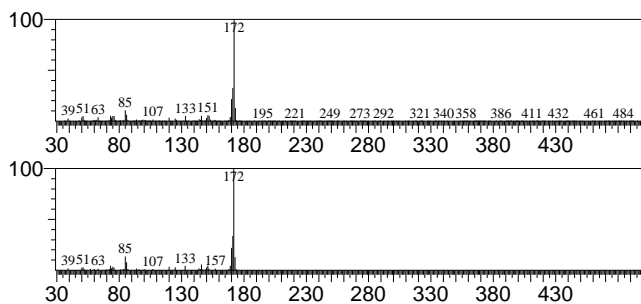


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.098
Area:120369
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	24461	47.92	48.05
2	54	34263	67.13	70.83

ID#:9 R.Time:13.3(Scan#:2605)



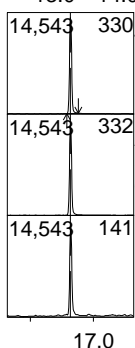
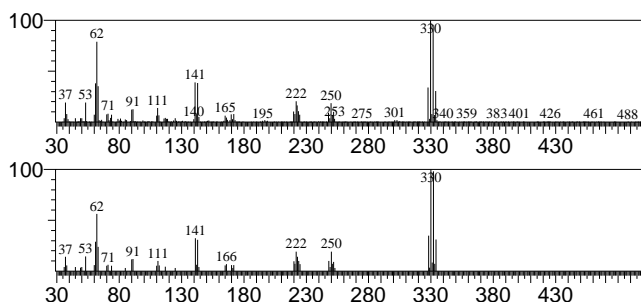
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.254
Area:284704
SI:97

Conc.:4.900ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	45225	33.57	33.30

ID#:10 R.Time:16.6(Scan#:3397)



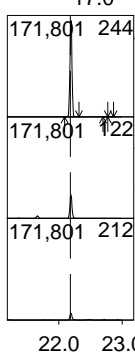
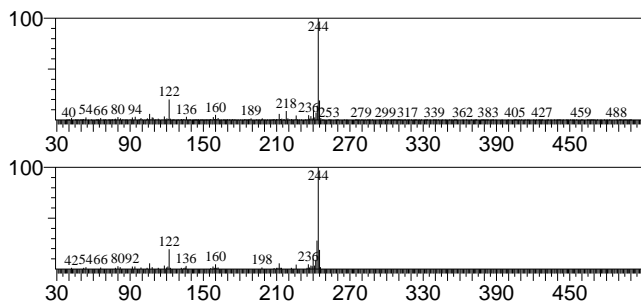
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.637
Area:33574
SI:96

Conc.:12.677ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	13668	94.27	93.70
2	141	11852	81.74	75.95

ID#:11 R.Time:22.2(Scan#:4679)



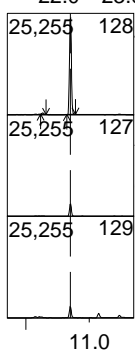
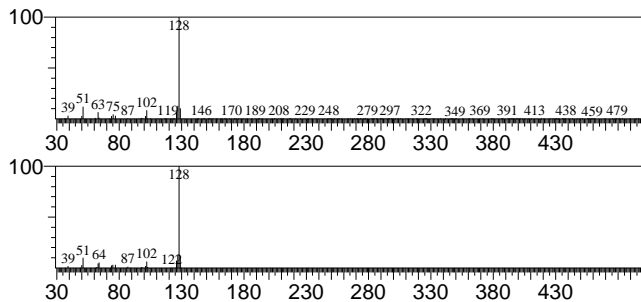
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.191
Area:374354
SI:97

Conc.:6.069ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	39706	23.58	21.72
2	212	11822	7.02	7.05

ID#:17 R.Time:10.7(Scan#:1995)



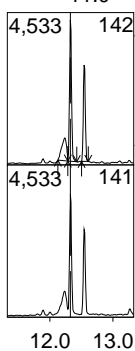
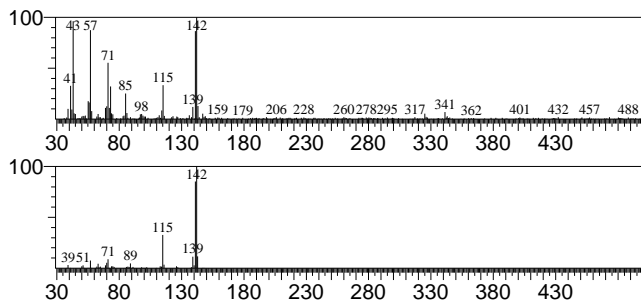
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.704
Area:51977
SI:97

Conc.:0.550ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	3183	12.64	12.40
2	129	2597	10.31	11.19

ID#:18 R.Time:12.3(Scan#:2383)



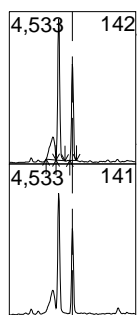
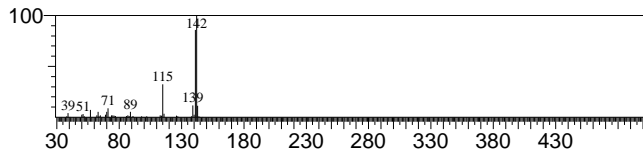
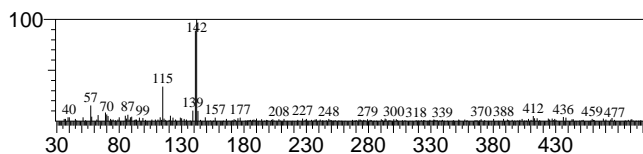
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.327
Area:9536
SI:82

Conc.:0.156ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	3665	84.45	82.70

ID#:19 R.Time:12.5(Scan#:2435)



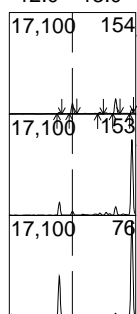
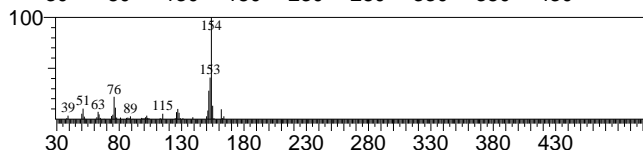
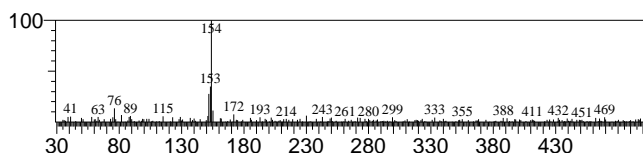
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.545
Area:6318
SI:93

Conc.:0.105ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	2630	87.09	86.60

ID#:20 R.Time:13.5(Scan#:2655)



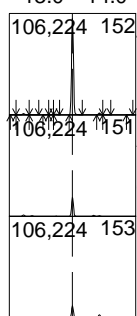
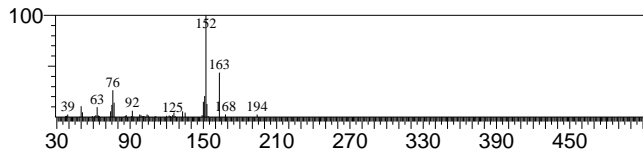
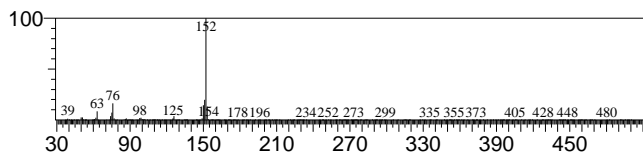
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.462
Area:3912
SI:87

Conc.:0.057ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	663	36.87	38.13
2	76	340	18.91	19.22

ID#:22 R.Time:14.4(Scan#:2881)



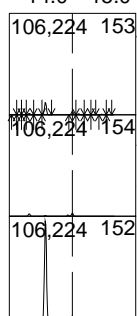
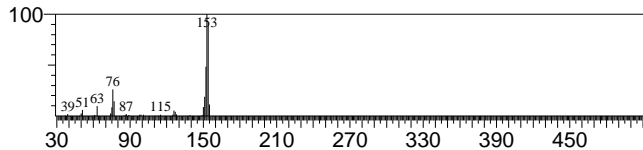
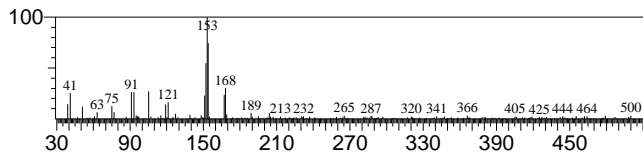
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.403
Area:229038
SI:82

Conc.:2.631ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	20385	19.44	19.59
2	153	13258	12.64	12.59

ID#:23 R.Time:14.8(Scan#:2983)



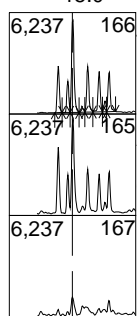
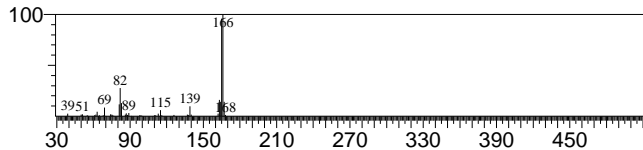
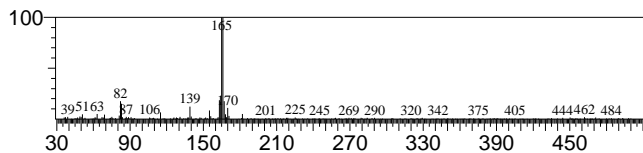
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.829
Area:7868
SI:87

Conc.:0.141ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	2979	81.55	94.92
2	152	1974	54.04	48.56

ID#:24 R.Time:16.1(Scan#:3271)



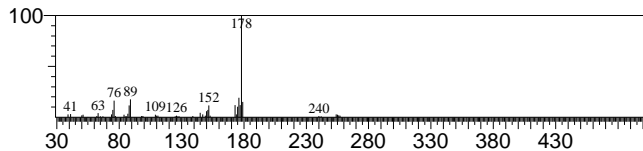
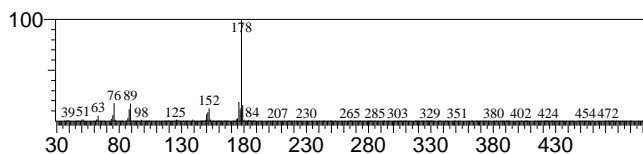
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.063
Area:16099
SI:94

Conc.:0.265ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	5557	100.80	91.92
2	167	902	16.36	13.05

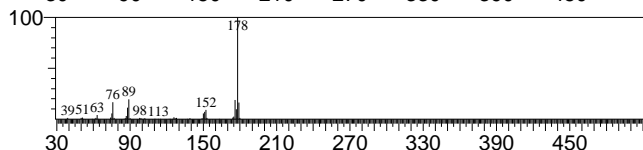
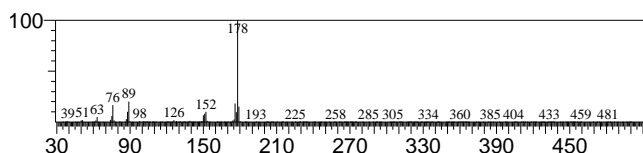
ID#:29 R.Time:18.3(Scan#:3771)



ID#:29 Mass:178.00
 Type:Target
 Name:Phenanthrene
 R.T.:18.318
 Area:677037
 SI:91
 Conc.:7.354ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	59693	19.21	19.17
2	179	46084	14.83	14.03

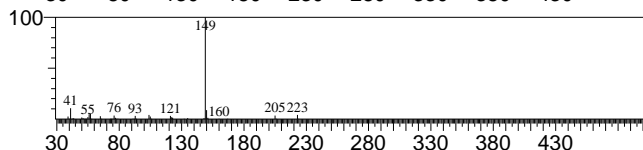
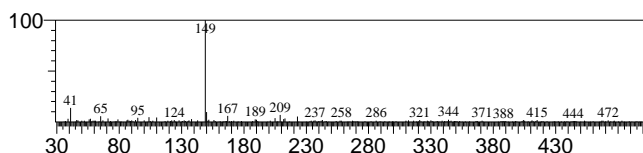
ID#:30 R.Time:18.4(Scan#:3797)



ID#:30 Mass:178.00
 Type:Target
 Name:Anthracene
 R.T.:18.433
 Area:179478
 SI:98
 Conc.:1.950ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	14295	18.40	18.55
2	179	11077	14.26	14.27

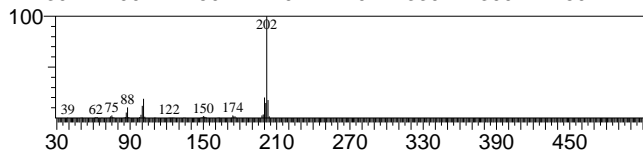
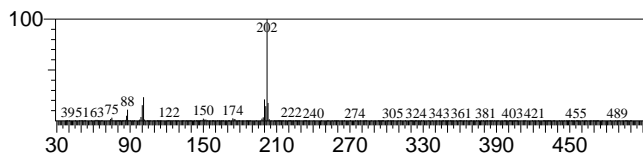
ID#:31 R.Time:19.9(Scan#:4141)



ID#:31 Mass:149.00
 Type:Target
 Name:Di-n-butylphthalate
 R.T.:19.948
 Area:11379
 SI:92
 Conc.:0.091ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	453	8.51	8.75
2	104	241	4.53	4.04

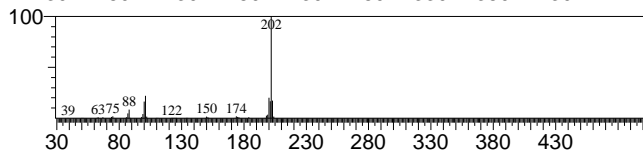
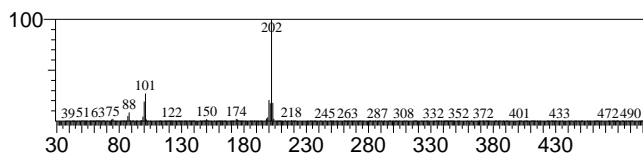
ID#:32 R.Time:21.2(Scan#:4429)



ID#:32 Mass:202.00
 Type:Target
 Name:Fluoranthene
 R.T.:21.152
 Area:2090151
 SI:98
 Conc.:19.562ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	179293	21.12	18.58

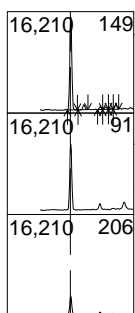
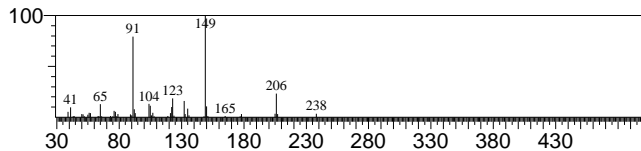
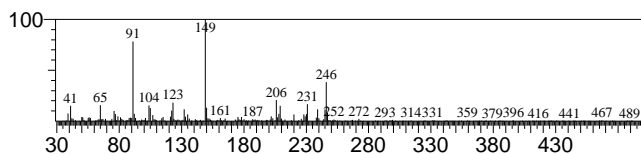
ID#:33 R.Time:21.7(Scan#:4551)



ID#:33 Mass:202.00
 Type:Target
 Name:Pyrene
 R.T.:21.661
 Area:2069836
 SI:98
 Conc.:19.688ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	201133	24.76	21.53
2	100	146604	18.04	15.51

ID#:34 R.Time:23.5(Scan#:4989)

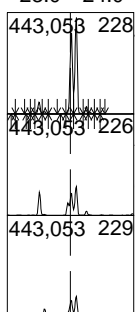
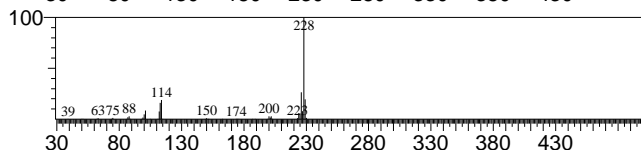
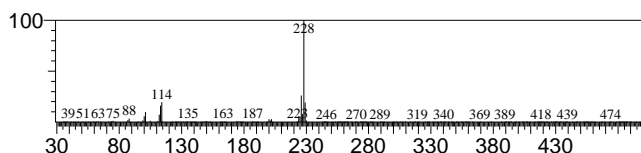


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.485
Area:33811
SI:95
Conc.:0.656ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	10850	70.09	68.53
2	206	3010	19.45	19.94

ID#:35 R.Time:24.5(Scan#:5243)

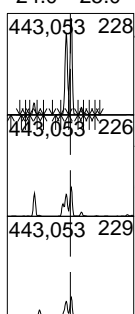
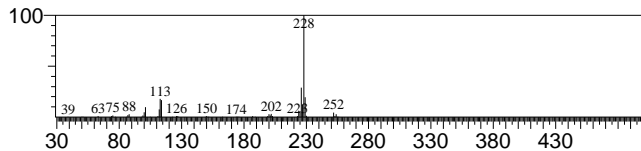
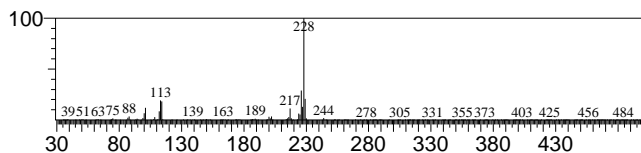


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.545
Area:1045779
SI:99
Conc.:9.839ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	85729	27.06	26.70
2	229	62479	19.72	19.69

ID#:36 R.Time:24.6(Scan#:5263)

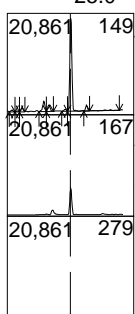
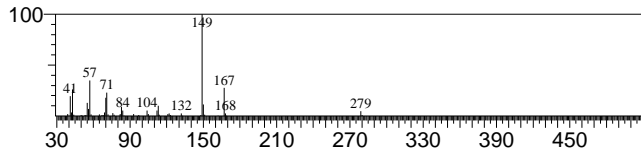
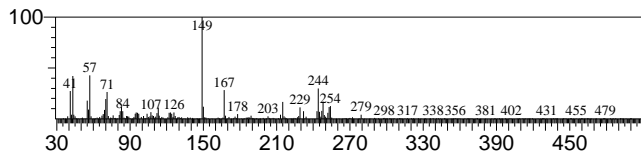


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.623
Area:1064947
SI:96
Conc.:10.542ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	121917	29.82	29.84
2	229	85398	20.89	19.72

ID#:37 R.Time:25.0(Scan#:5345)

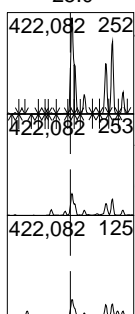
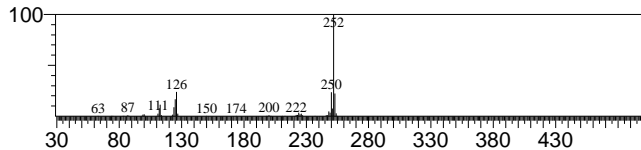
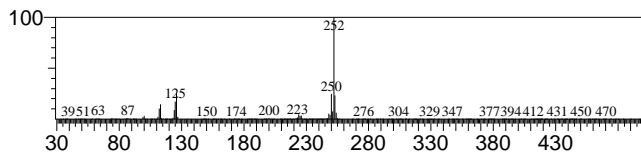


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.969
Area:41807
SI:93
Conc.:0.556ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	5601	28.35	29.63
2	279	697	3.53	3.69

ID#:39 R.Time:26.9(Scan#:5817)

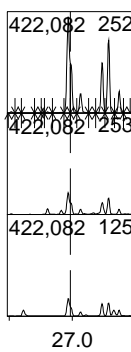
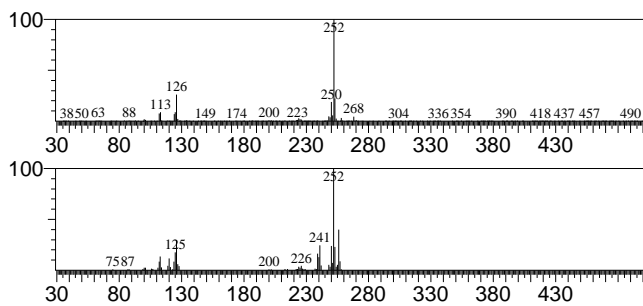


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.934
Area:1231353
SI:97
Conc.:17.397ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	66814	22.21	20.72
2	125	52113	17.32	14.26

ID#:40 R.Time:27.0(Scan#:5827)

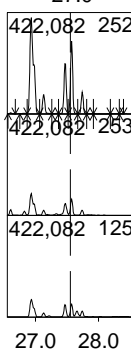
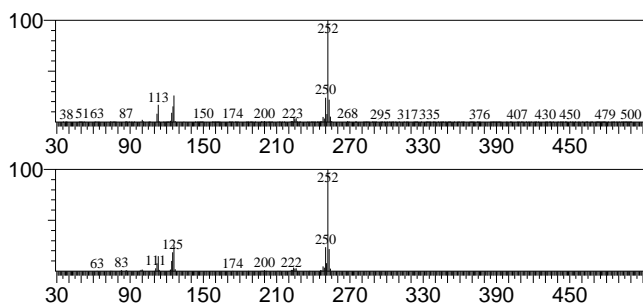


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:26.973
Area:364323
SI:78
Conc.:5.433ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	17599	23.55	20.26
2	125	10803	14.46	13.59

ID#:41 R.Time:27.6(Scan#:5971)

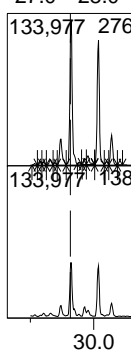
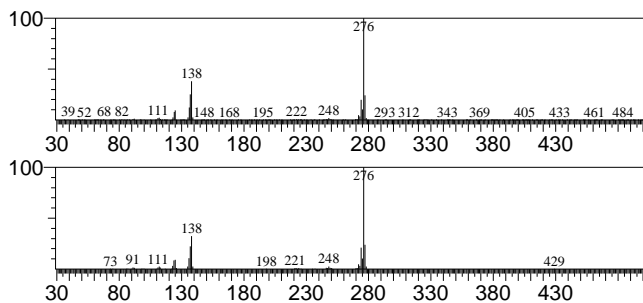


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.573
Area:740213
SI:97
Conc.:11.893ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	65795	21.72	21.88
2	125	46644	15.40	16.90

ID#:42 R.Time:29.6(Scan#:6467)

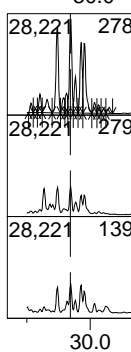
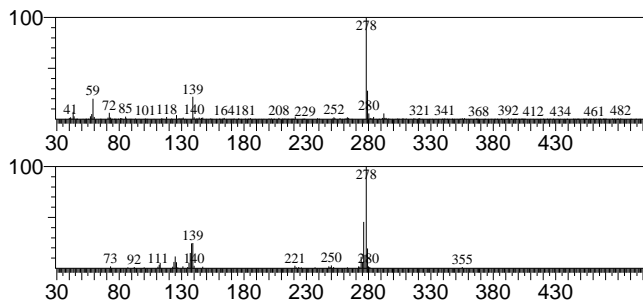


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.642
Area:336284
SI:97
Conc.:5.784ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	47537	37.11	33.97

ID#:43 R.Time:29.7(Scan#:6479)

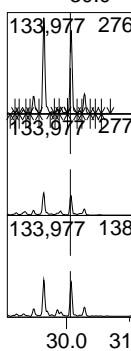
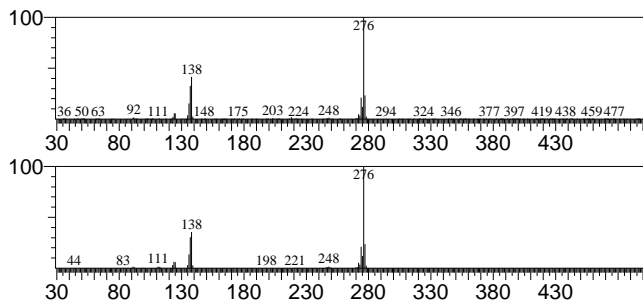


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.694
Area:66933
SI:65
Conc.:1.202ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	6986	28.92	23.57
2	139	6724	27.84	29.78

ID#:44 R.Time:30.1(Scan#:6571)



ID#:44 Mass:276.00
Type:Target
Name:Benzo[ghi]perylene

R.T.:30.074
Area:272500
SI:97
Conc.:4.464ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	24783	22.47	24.13
2	138	44582	40.43	39.10

PAH Quality Control Data

PREPARATION BATCH SUMMARY

8270C SIM

Laboratory: ESS Laboratory SDG: 1307061
Client: AMEC Environmental and Infrastructure - KPB Project: Gorham Site C-1 Phase III
Batch: CG30504 Batch Matrix: Solid Preparation: 3541

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SS-503-01	1307061-01	SV415995.D	07/05/13 10:30	Data Package
SS-503-02	1307061-02	SV416001.D	07/05/13 10:30	Data Package
SS-503-02	1307061-02	SV415996.D	07/05/13 10:30	Data Package
SS-504-01	1307061-03	SV415997.D	07/05/13 10:30	Data Package
SS-504-02	1307061-04	SV415998.D	07/05/13 10:30	Data Package
Blank	CG30504-BLK1	SV415991.D	07/05/13 10:30	
LCS	CG30504-BS1	SV415992.D	07/05/13 10:30	
LCS Dup	CG30504-BSD1	SV415993.D	07/05/13 10:30	
SS-504-02	CG30504-MS1	SV415999.D	07/05/13 10:30	
SS-504-02	CG30504-MSD1	SV416000.D	07/05/13 10:30	

METHOD BLANK DATA SHEET

8270C SIM

Laboratory:	<u>ESS Laboratory</u>	SDG:	<u>1307061</u>
Client:	<u>AMEC Environmental and Infrastructure - KPB</u>	Project:	<u>Gorham Site C-1 Phase III</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>CG30504-BLK1</u>
Prepared:	<u>07/05/13 10:30</u>	Preparation:	<u>3541</u>
Analyzed:	<u>07/08/13 09:20</u>	Instrument:	<u>SVOAMS4</u>
Batch:	<u>CG30504</u>	Sequence:	<u>CWG0078</u>
		Calibration:	<u>1306027</u>

CAS NO.	COMPOUND	CONC. (mg/kg wet)	Q
91-57-6	2-Methylnaphthalene	0.017	U
83-32-9	Acenaphthene	0.017	U
208-96-8	Acenaphthylene	0.017	U
120-12-7	Anthracene	0.017	U
56-55-3	Benzo(a)anthracene	0.017	U
50-32-8	Benzo(a)pyrene	0.017	U
205-99-2	Benzo(b)fluoranthene	0.017	U
191-24-2	Benzo(g,h,i)perylene	0.017	U
207-08-9	Benzo(k)fluoranthene	0.017	U
218-01-9	Chrysene	0.017	U
53-70-3	Dibenzo(a,h)Anthracene	0.017	U
206-44-0	Fluoranthene	0.017	U
86-73-7	Fluorene	0.017	U
193-39-5	Indeno(1,2,3-cd)Pyrene	0.017	U
91-20-3	Naphthalene	0.017	U
85-01-8	Phenanthrene	0.017	U
129-00-0	Pyrene	0.017	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg wet)	CONC (mg/kg wet)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	0.3333	0.133	40	30 - 130	
2-Fluorobiphenyl	0.3333	0.143	43	30 - 130	
Nitrobenzene-d5	0.3333	0.147	44	30 - 130	
p-Terphenyl-d14	0.3333	0.245	73	30 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,4-Dichlorobenzene-d4	343399	7.91	430529	7.91	
Naphthalene-d8	1287688	10.65	1631234	10.65	
Acenaphthene-d10	561958	14.75	726567	14.75	
Phenanthrene-d10	1072225	18.25	1345074	18.26	
Chrysene-d12	1283302	24.55	1744736	24.55	
Perylene-d12	1179822	27.68	1603521	27.68	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

8270C SIM

<u>SS-504-02</u>

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CG30504

Laboratory ID: CG30504-MS1

Preparation: 3541

Initial/Final: 15.4 g / 0.5 ml

Source Sample Name: SS-504-02

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	0.2900	0.006	0.183	61	40 - 140
Acenaphthene	0.2900	0.005	0.203	68	40 - 140
Acenaphthylene	0.2900	0.099	0.336	82	40 - 140
Anthracene	0.2900	0.073	0.331	89	40 - 140
Benzo(a)anthracene	0.2900	0.369	0.798	148 *	40 - 140
Benzo(a)pyrene	0.2900	0.445	0.892	154 *	40 - 140
Benzo(b)fluoranthene	0.2900	0.652	1.15	170 *	40 - 140
Benzo(g,h,i)perylene	0.2900	0.167	0.377	72	40 - 140
Benzo(k)fluoranthene	0.2900	0.203	0.609	140	40 - 140
Chrysene	0.2900	0.395	0.824	148 *	40 - 140
Dibenzo(a,h)Anthracene	0.2900	0.045	0.200	53	40 - 140
Fluoranthene	0.2900	0.733	1.35	214 *	40 - 140
Fluorene	0.2900	0.010	0.225	74	40 - 140
Indeno(1,2,3-cd)Pyrene	0.2900	0.217	0.492	95	40 - 140
Naphthalene	0.2900	0.021	0.199	62	40 - 140
Phenanthrene	0.2900	0.275	0.668	136	40 - 140
Pyrene	0.2900	0.738	1.44	243 *	40 - 140

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
2-Methylnaphthalene	0.3101	0.169	52	8	30	40 - 140
Acenaphthene	0.3101	0.193	61	5	30	40 - 140
Acenaphthylene	0.3101	0.276	57	20	30	40 - 140
Anthracene	0.3101	0.273	64	19	30	40 - 140
Benzo(a)anthracene	0.3101	0.582	69	31 *	30	40 - 140
Benzo(a)pyrene	0.3101	0.630	59	34 *	30	40 - 140
Benzo(b)fluoranthene	0.3101	0.828	57	32 *	30	40 - 140
Benzo(g,h,i)perylene	0.3101	0.278	36 *	30	30	40 - 140
Benzo(k)fluoranthene	0.3101	0.462	83	27	30	40 - 140
Chrysene	0.3101	0.571	57	36 *	30	40 - 140
Dibenzo(a,h)Anthracene	0.3101	0.185	45	8	30	40 - 140
Fluoranthene	0.3101	0.920	60	38 *	30	40 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

8270C SIM

SS-504-02

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CG30504

Laboratory ID: CG30504-MSD1

Preparation: 3541

Initial/Final: 14.4 g / 0.5 ml

Source Sample Name: SS-504-02

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Fluorene	0.3101	0.211	65	6	30	40 - 140
Indeno(1,2,3-cd)Pyrene	0.3101	0.323	34 *	41 *	30	40 - 140
Naphthalene	0.3101	0.169	48	16	30	40 - 140
Phenanthrene	0.3101	0.461	60	37 *	30	40 - 140
Pyrene	0.3101	0.987	80	38 *	30	40 - 140

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Matrix: Solid

Batch: CG30504

Laboratory ID: CG30504-BS1

Preparation: 3541

Initial/Final: 15 g / 0.5 ml

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
2-Methylnaphthalene	0.2667	0.132	49	40 - 140
Acenaphthene	0.2667	0.138	52	40 - 140
Acenaphthylene	0.2667	0.129	48	40 - 140
Anthracene	0.2667	0.181	68	40 - 140
Benzo(a)anthracene	0.2667	0.218	82	40 - 140
Benzo(a)pyrene	0.2667	0.206	77	40 - 140
Benzo(b)fluoranthene	0.2667	0.211	79	40 - 140
Benzo(g,h,i)perylene	0.2667	0.216	81	40 - 140
Benzo(k)fluoranthene	0.2667	0.210	79	40 - 140
Chrysene	0.2667	0.210	79	40 - 140
Dibenzo(a,h)Anthracene	0.2667	0.228	85	40 - 140
Fluoranthene	0.2667	0.200	75	40 - 140
Fluorene	0.2667	0.151	57	40 - 140
Indeno(1,2,3-cd)Pyrene	0.2667	0.217	81	40 - 140
Naphthalene	0.2667	0.129	48	40 - 140
Phenanthrene	0.2667	0.180	67	40 - 140
Pyrene	0.2667	0.221	83	40 - 140

COMPOUND	SPIKE ADDED (mg/kg wet)	LCSD CONCENTRATION (mg/kg wet)	LCSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
2-Methylnaphthalene	0.2667	0.110	41	18	30	40 - 140
Acenaphthene	0.2667	0.133	50	4	30	40 - 140
Acenaphthylene	0.2667	0.124	46	4	30	40 - 140
Anthracene	0.2667	0.182	68	0.6	30	40 - 140
Benzo(a)anthracene	0.2667	0.206	77	6	30	40 - 140
Benzo(a)pyrene	0.2667	0.205	77	0.3	30	40 - 140
Benzo(b)fluoranthene	0.2667	0.213	80	1	30	40 - 140
Benzo(g,h,i)perylene	0.2667	0.215	80	0.6	30	40 - 140
Benzo(k)fluoranthene	0.2667	0.208	78	1	30	40 - 140
Chrysene	0.2667	0.199	75	5	30	40 - 140

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 Method File : Q:\SVOA\MS4\0713\070813\SIMA4AW0708.qgm
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 Level # : 1
 Sample Name : CG30504-BLK1
 Sample ID :
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 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 3
 Injection Volume : 1

Internal Standard

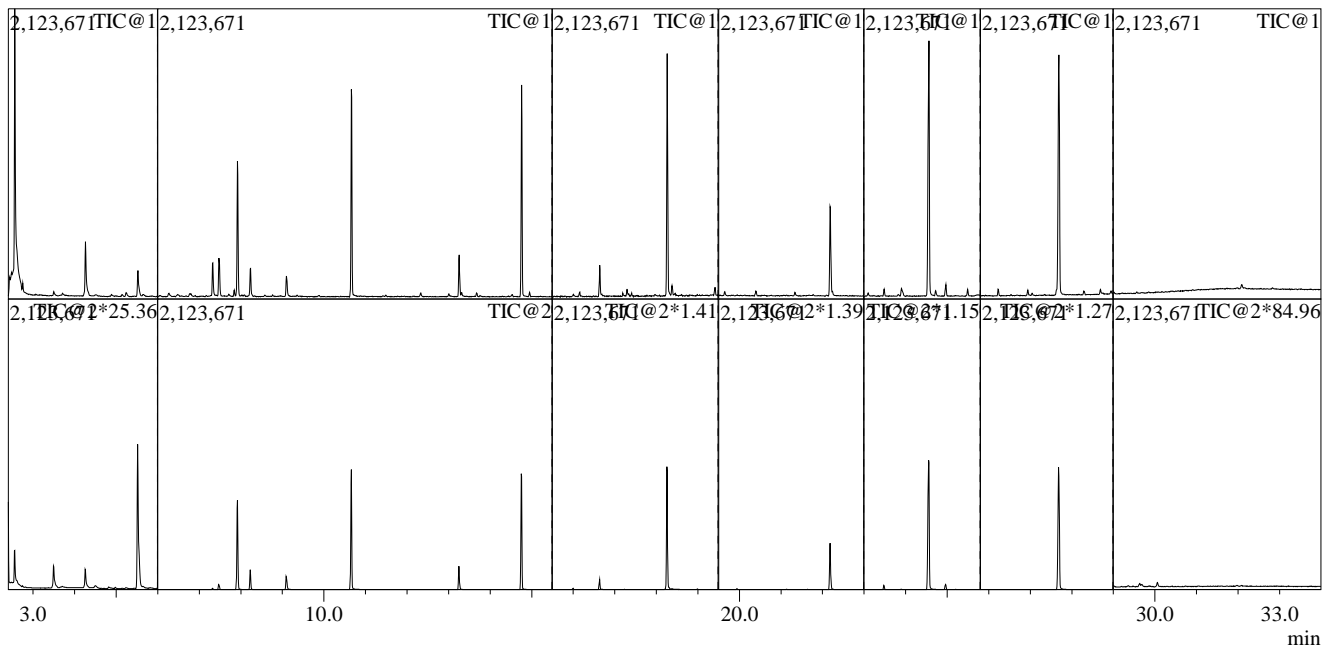
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	343399	20.0000	ng/uL	79.76
2	Naphthalene-D10	10.66	136	1287688	20.0000	ng/uL	78.94
3	Acenaphthene-D10	14.75	164	561958	20.0000	ng/uL	77.34
4	Phenanthrene-D10	18.26	188	1072225	20.0000	ng/uL	79.71
5	Chrysene-D12	24.55	240	1283302	20.0000	ng/uL	73.55
6	Perylene-D12	27.68	264	1179822	20.0000	ng/uL	73.58
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

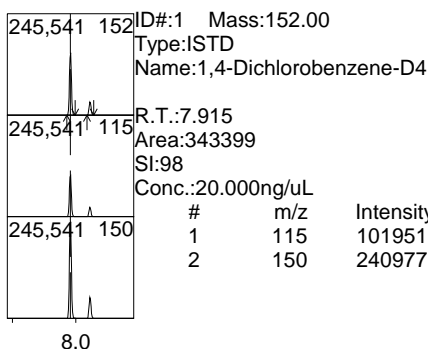
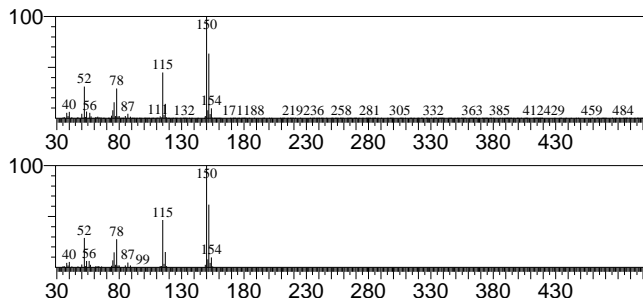
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	71548	3.98	ng/uL	159.0800
8	Nitrobenzene-D5 (Surr)	9.10	82	97324	4.42	ng/uL	176.6300
9	2-Fluorobiphenyl (Surr)	13.25	172	203967	4.29	ng/uL	171.7700
10	2,4,6-Tribromophenol (Surr)	16.63	330	30472	14.10	ng/uL	376.1300
11	Terphenyl-D14 (Surr)	22.18	244	378300	7.34	ng/uL	293.4900
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.70	128	2021	0.0262	ng/uL	78
29	Phenanthrene	18.31	178	5817	0.0770	ng/uL	70
31	Di-n-butylphthalate	19.94	149	9520	0.0931	ng/uL	91
32	Fluoranthene	21.13	202	3667	0.0419	ng/uL	85
34	Butylbenzylphthalate	23.48	149	27375	0.6351	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.96	149	45658	0.7261	ng/uL	97



ID#:1 R.Time:7.9(Scan#:1325)



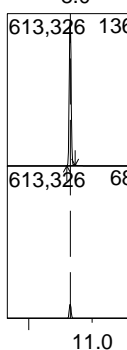
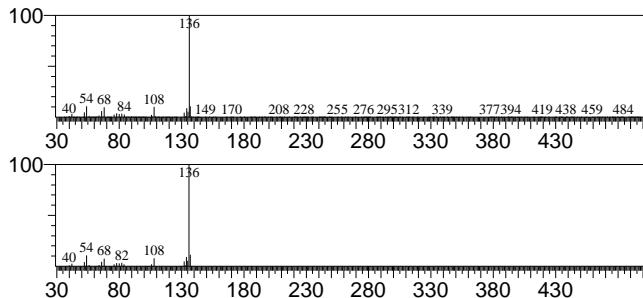
ID#:1 Mass:152.00

Type:ISTD
Name:1,4-Dichlorobenzene-D4

R.T.:7.915
Area:343399
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	101951	65.16	64.19
2	150	240977	154.01	151.89

ID#:2 R.Time:10.7(Scan#:1983)



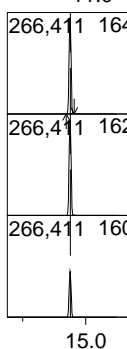
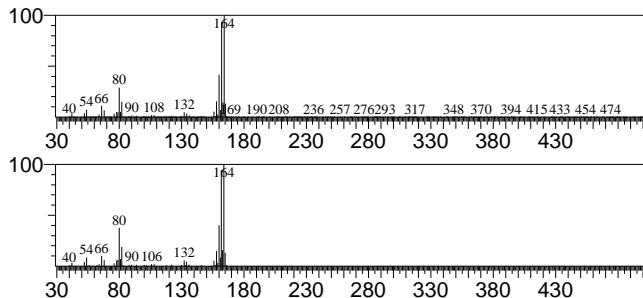
ID#:2 Mass:136.00

Type:ISTD
Name:Naphthalene-D10

R.T.:10.655
Area:1287688
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	59042	9.70	9.71

ID#:3 R.Time:14.8(Scan#:2965)



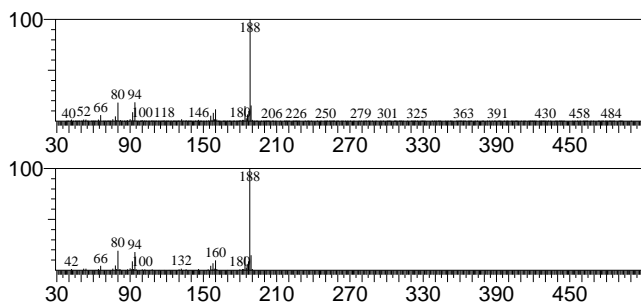
ID#:3 Mass:164.00

Type:ISTD
Name:Acenaphthene-D10

R.T.:14.752
Area:561958
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	260421	98.68	98.82
2	160	123774	46.90	47.25

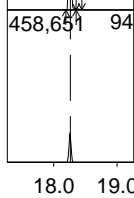
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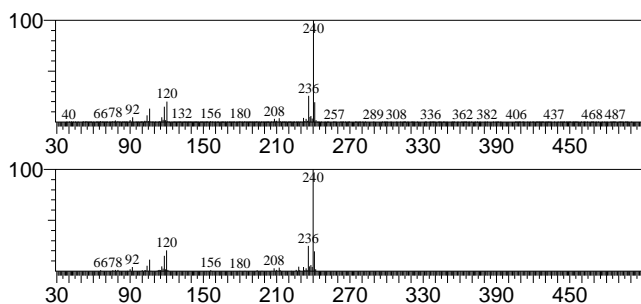
458,651 188 ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.256
Area:1072225
SI:98

#	m/z	Intensity	Ratio	Setting
1	94	87324	19.32	19.71



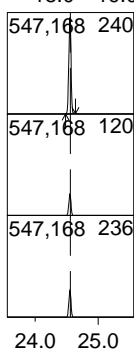
ID#5 R.Time:24.6(Scan#:5245)



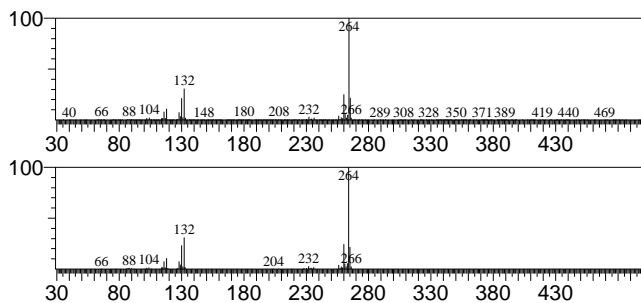
547,168 240 ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.552
Area:1283302
SI:98

#	m/z	Intensity	Ratio	Setting
1	120	113469	21.85	21.04
2	236	142745	27.49	26.98



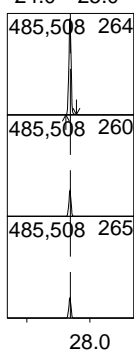
ID#6 R.Time:27.7(Scan#:5997)



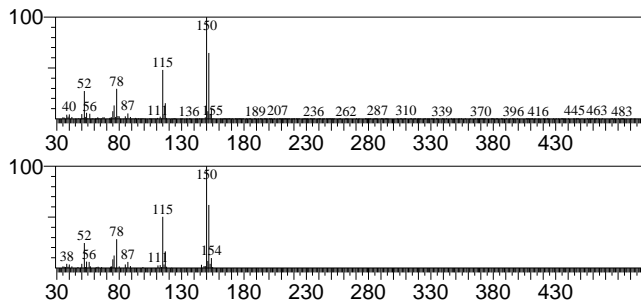
485,508 264 ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.684
Area:1179822
SI:99

#	m/z	Intensity	Ratio	Setting
1	260	122362	26.73	26.80
2	265	96903	21.17	21.15



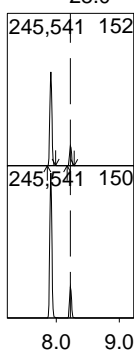
ID#7 R.Time:8.2(Scan#:1399)



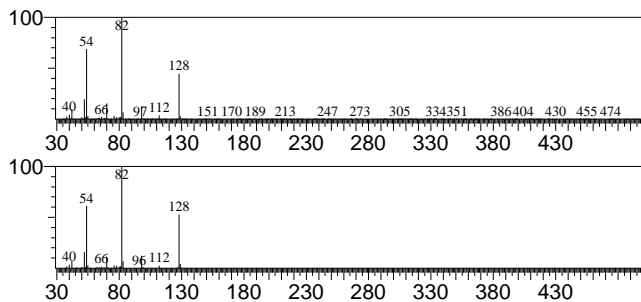
245,541 152 ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.226
Area:71548
SI:98

#	m/z	Intensity	Ratio	Setting
1	150	52311	155.50	155.60



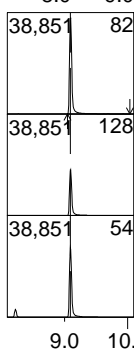
ID#8 R.Time:9.1(Scan#:1609)



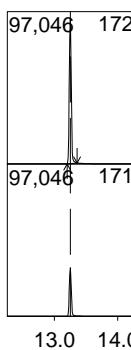
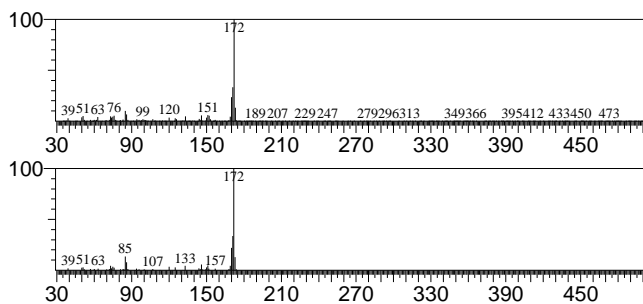
38,851 82 ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.097
Area:97324
SI:97

#	m/z	Intensity	Ratio	Setting
1	128	17792	46.93	48.05
2	54	25916	68.36	70.83



ID#:9 R.Time:13.3(Scan#:2605)



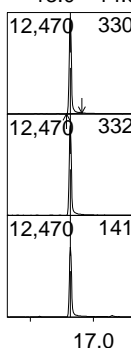
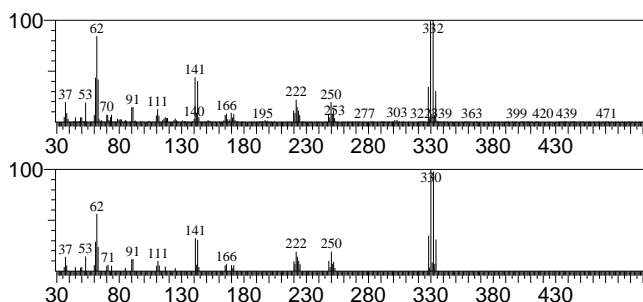
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.250
Area:203967
SI:97

Conc.:4.294ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	32621	33.49	33.30

ID#:10 R.Time:16.6(Scan#:3397)



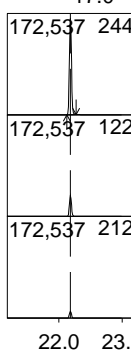
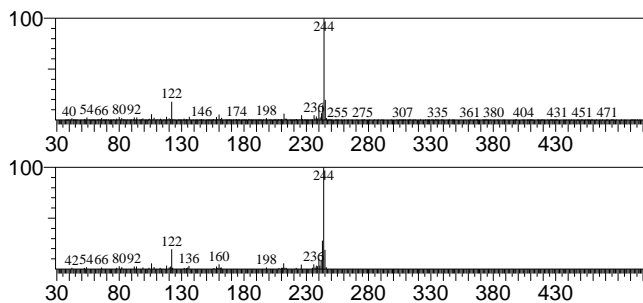
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.631
Area:30472
SI:95

Conc.:14.105ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	11421	92.98	93.70
2	141	8919	72.61	75.95

ID#:11 R.Time:22.2(Scan#:4677)



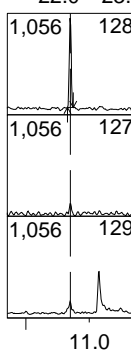
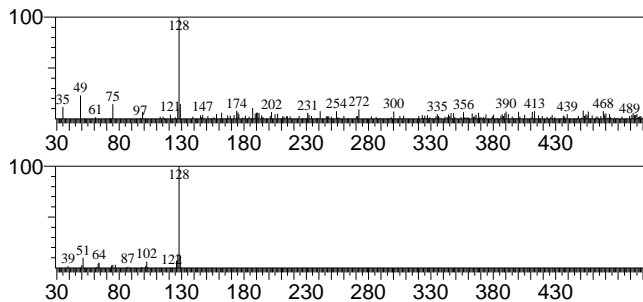
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.183
Area:378300
SI:97

Conc.:7.337ng/uL

#	m/z	Intensity	Ratio	Setting
1	222	36769	21.73	21.72
2	212	12090	7.15	7.05

ID#:17 R.Time:10.7(Scan#:1993)



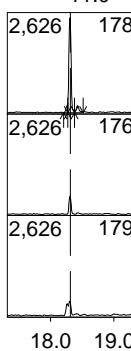
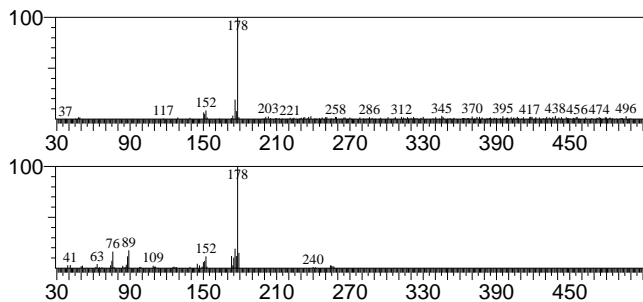
ID#17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.702
Area:2021
SI:78

Conc.:0.026ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	120	12.04	12.40
2	129	65	* 6.52	11.19

ID#:29 R.Time:18.3(Scan#:3769)



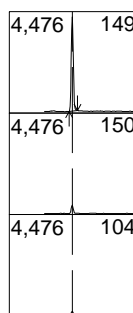
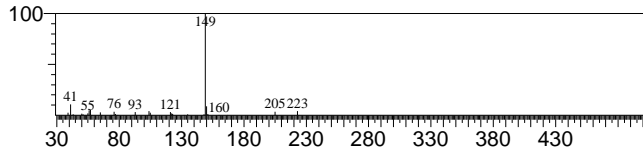
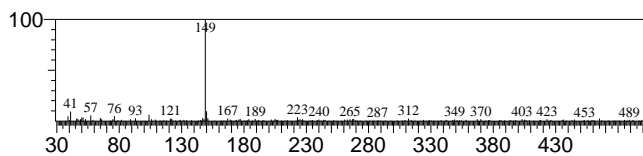
ID#29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.307
Area:5817
SI:70

Conc.:0.077ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	484	19.18	19.17
2	179	233	* 9.23	14.03

ID#:31 R.Time:19.9(Scan#:4139)

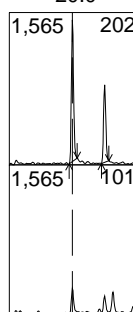
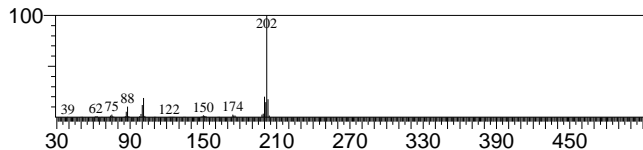
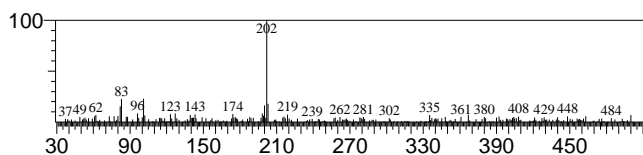


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:19.942
Area:9520
SI:91
Conc.:0.093ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	368	8.48	8.75
2	104	183	4.22	4.04

ID#:32 R.Time:21.1(Scan#:4425)

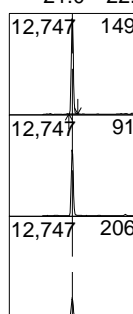
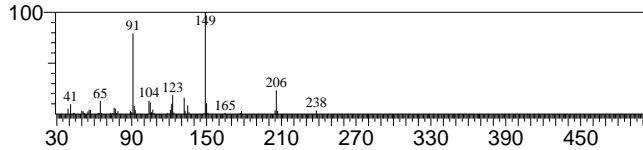
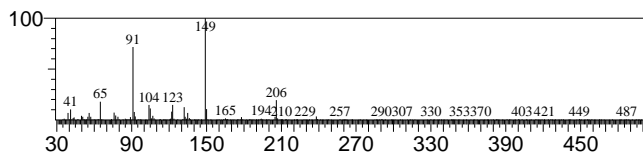


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.134
Area:3667
SI:85
Conc.:0.042ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	246	16.68	18.58

ID#:34 R.Time:23.5(Scan#:4987)

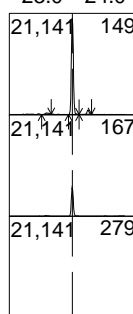
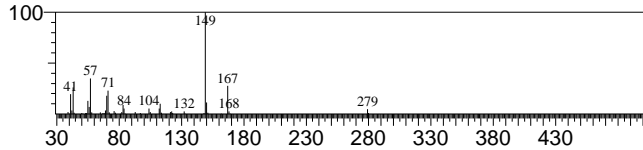
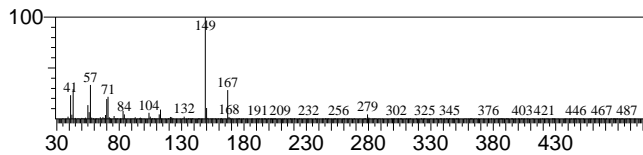


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.477
Area:27375
SI:96
Conc.:0.635ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	8577	69.04	68.53
2	206	2489	20.03	19.94

ID#:37 R.Time:25.0(Scan#:5343)



ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.961
Area:45658
SI:97
Conc.:0.726ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	6103	29.34	29.63
2	279	736	3.54	3.69

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 Analyzed : 7/8/2013 10:24:05 AM
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 Level # : 1
 Sample Name : CG30504-BS1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 4
 Injection Volume : 1

Internal Standard	ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
	1	1,4-Dichlorobenzene-D4	7.92	152	367576	20.0000	ng/uL	85.38
	2	Naphthalene-D10	10.66	136	1390454	20.0000	ng/uL	85.24
	3	Acenaphthene-D10	14.75	164	596621	20.0000	ng/uL	82.12
	4	Phenanthrene-D10	18.26	188	1156226	20.0000	ng/uL	85.96
	5	Chrysene-D12	24.56	240	1316061	20.0000	ng/uL	75.43
	6	Perylene-D12	27.69	264	1255092	20.0000	ng/uL	78.27
	12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate	ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
	7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	92237	4.7898	ng/uL	191.59
	8	Nitrobenzene-D5 (Surr)	9.09	82	127647	5.3636	ng/uL	214.54
	9	2-Fluorobiphenyl (Surr)	13.25	172	272615	5.4062	ng/uL	216.25
	10	2,4,6-Tribromophenol (Surr)	16.63	330	47726	20.8036	ng/uL	554.76
	11	Terphenyl-D14 (Surr)	22.18	244	448256	8.4777	ng/uL	339.11
	13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

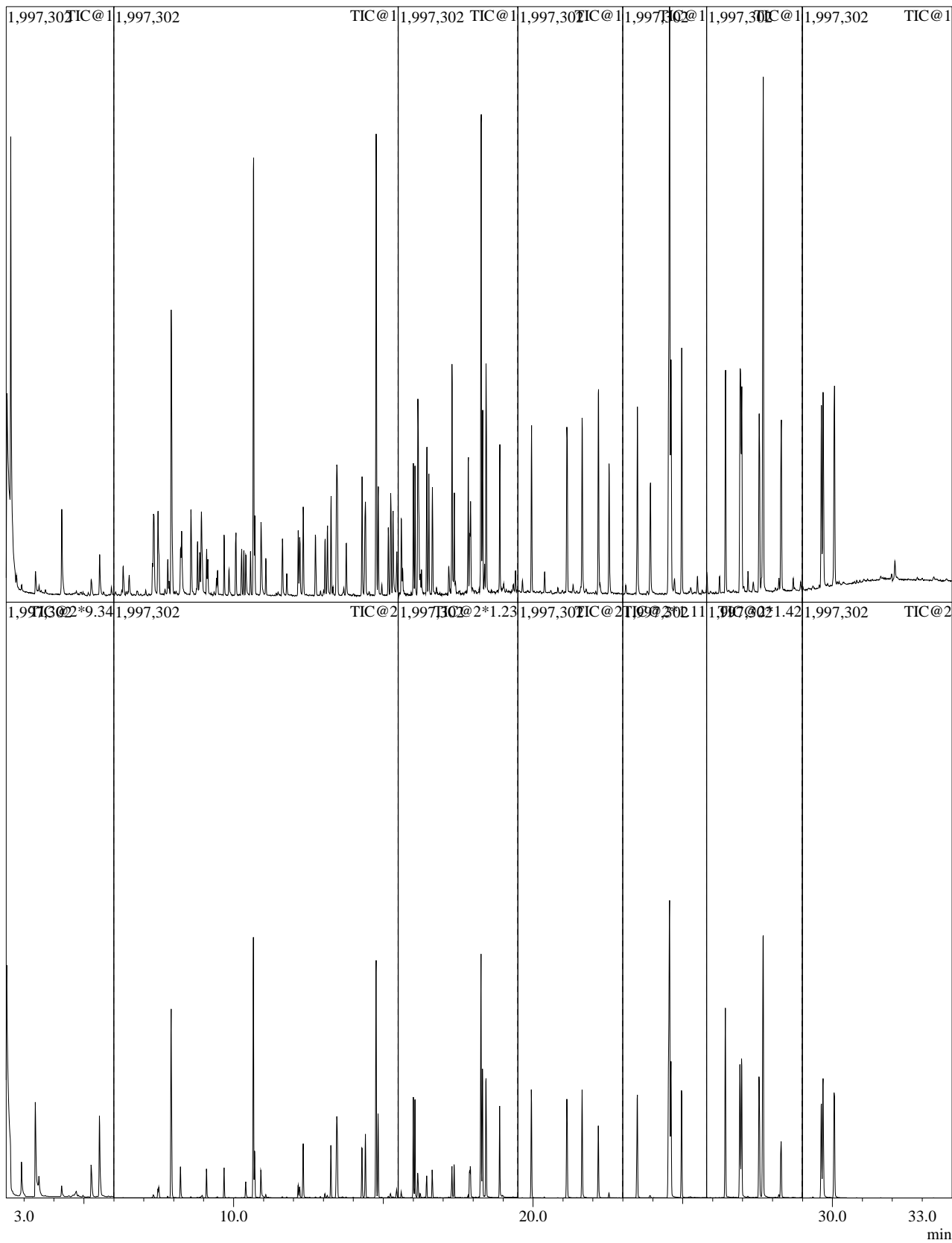
Target	ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
	14	1,4-Dioxane (IS1)	2.92	88	31737	3.0482	ng/uL	93
	15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
	16	Pyridine	3.37	79	92762	2.9445	ng/uL	96
	17	Naphthalene	10.70	128	321784	3.8696	ng/uL	98
	18	2-Methylnaphthalene	12.32	142	213191	3.9629	ng/uL	98
	19	1-Methylnaphthalene	12.54	142	2389	0.0451	ng/uL	85
	20	Biphenyl	13.46	154	231983	3.8929	ng/uL	91
	21	Dimethylphthalate	14.29	163	252651	4.8252	ng/uL	73
	22	Acenaphthylene	14.40	152	292950	3.8778	ng/uL	85
	23	Acenaphthene	14.83	153	199813	4.1304	ng/uL	98
	24	Fluorene	16.06	166	238510	4.5298	ng/uL	98
	25	Diethylphthalate	16.00	149	337952	5.2132	ng/uL	97
	26	Hexachlorobenzene	17.37	284	73841	7.7563	ng/uL	96
	27	Pentachloronitrobenzene	17.91	237	33204	6.9464	ng/uL	94
	28	Pentachlorophenol	17.88	266	39363	4.2091	ng/uL	90
	29	Phenanthrene	18.31	178	440017	5.4044	ng/uL	90
	30	Anthracene	18.43	178	441069	5.4198	ng/uL	97
	31	Di-n-butylphthalate	19.94	149	691866	6.2767	ng/uL	98
	32	Fluoranthene	21.13	202	566677	5.9974	ng/uL	98
	33	Pyrene	21.64	202	598838	6.6447	ng/uL	98
	34	Butylbenzylphthalate	23.48	149	361075	8.1680	ng/uL	97
	35	Benz[a]anthracene	24.53	228	595668	6.5374	ng/uL	99
	36	Chrysene	24.61	228	545443	6.2986	ng/uL	99
	37	Bis(2-ethylhexyl)phthalate	24.96	149	538751	8.3548	ng/uL	98
	38	Di-n-octylphthalate	26.42	149	889084	8.1171	ng/uL	98
	39	Benzo[b]fluoranthene	26.91	252	629369	6.3334	ng/uL	95
	40	Benzo[k]fluoranthene	26.97	252	594022	6.3094	ng/uL	70
	41	Benzo[a]pyrene	27.55	252	539059	6.1691	ng/uL	99
	42	Indeno[1,2,3-cd]pyrene	29.63	276	532508	6.5238	ng/uL	97
	43	Dibenz[a,h]anthracene	29.69	278	534359	6.8348	ng/uL	94
	44	Benzo[ghi]perylene	30.06	276	555279	6.4789	ng/uL	98

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 Sample Name : CG30504-BSD1
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 [6]=20, [7]=5
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 Dilution Factor : 1
 Vial # : 5
 Injection Volume : 1

Internal Standard							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	324572	20.0000	ng/uL	75.39
2	Naphthalene-D10	10.66	136	1247678	20.0000	ng/uL	76.49
3	Acenaphthene-D10	14.75	164	530181	20.0000	ng/uL	72.97
4	Phenanthrene-D10	18.26	188	1044519	20.0000	ng/uL	77.66
5	Chrysene-D12	24.56	240	1262025	20.0000	ng/uL	72.33
6	Perylene-D12	27.69	264	1074191	20.0000	ng/uL	66.99
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	51004	2.9995	ng/uL	119.98
8	Nitrobenzene-D5 (Surr)	9.10	82	78876	3.6935	ng/uL	147.74
9	2-Fluorobiphenyl (Surr)	13.25	172	204019	4.5529	ng/uL	182.12
10	2,4,6-Tribromophenol (Surr)	16.63	330	40881	19.6893	ng/uL	525.05
11	Terphenyl-D14 (Surr)	22.18	244	356987	7.0407	ng/uL	281.63
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.92	88	17327	1.8847	ng/uL	92
15	1,4-Dioxane (IS7)	2.92	88	17327	0.0000	ng/uL	92
16	Pyridine	3.38	79	56181	2.0196	ng/uL	95
17	Naphthalene	10.70	128	215307	2.8854	ng/uL	98
18	2-Methylnaphthalene	12.32	142	159431	3.3027	ng/uL	98
19	1-Methylnaphthalene	12.54	142	1172	0.0246	ng/uL	81
20	Biphenyl	13.46	154	185393	3.5009	ng/uL	91
21	Dimethylphthalate	14.29	163	231027	4.9652	ng/uL	74
22	Acenaphthylene	14.40	152	249780	3.7207	ng/uL	84
23	Acenaphthene	14.83	153	171304	3.9848	ng/uL	98
24	Fluorene	16.06	166	218089	4.6610	ng/uL	96
25	Diethylphthalate	16.00	149	306186	5.3360	ng/uL	97
26	Hexachlorobenzene	17.37	284	67411	7.8487	ng/uL	96
27	Pentachloronitrobenzene	17.91	237	29699	6.8776	ng/uL	94
28	Pentachlorophenol	17.88	266	40820	4.7945	ng/uL	91
29	Phenanthrene	18.31	178	399012	5.4249	ng/uL	90
30	Anthracene	18.43	178	400697	5.4503	ng/uL	97
31	Di-n-butylphthalate	19.94	149	611862	6.1445	ng/uL	98
32	Fluoranthene	21.13	202	503663	5.9006	ng/uL	98
33	Pyrene	21.64	202	523335	6.0555	ng/uL	98
34	Butylbenzylphthalate	23.48	149	320500	7.5606	ng/uL	98
35	Benz[a]anthracene	24.53	228	540131	6.1817	ng/uL	98
36	Chrysene	24.61	228	496265	5.9760	ng/uL	98
37	Bis(2-ethylhexyl)phthalate	24.96	149	476920	7.7126	ng/uL	98
38	Di-n-octylphthalate	26.42	149	803934	8.5757	ng/uL	98
39	Benzo[b]fluoranthene	26.91	252	544327	6.4001	ng/uL	96
40	Benzo[k]fluoranthene	26.97	252	501721	6.2265	ng/uL	71
41	Benzo[a]pyrene	27.55	252	460258	6.1544	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.63	276	455887	6.5256	ng/uL	97
43	Dibenz[a,h]anthracene	29.69	278	448709	6.7058	ng/uL	94
44	Benzo[ghi]perylene	30.06	276	472679	6.4440	ng/uL	98



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 Sample ID :
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 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 11
 Injection Volume : 1

Internal Standard

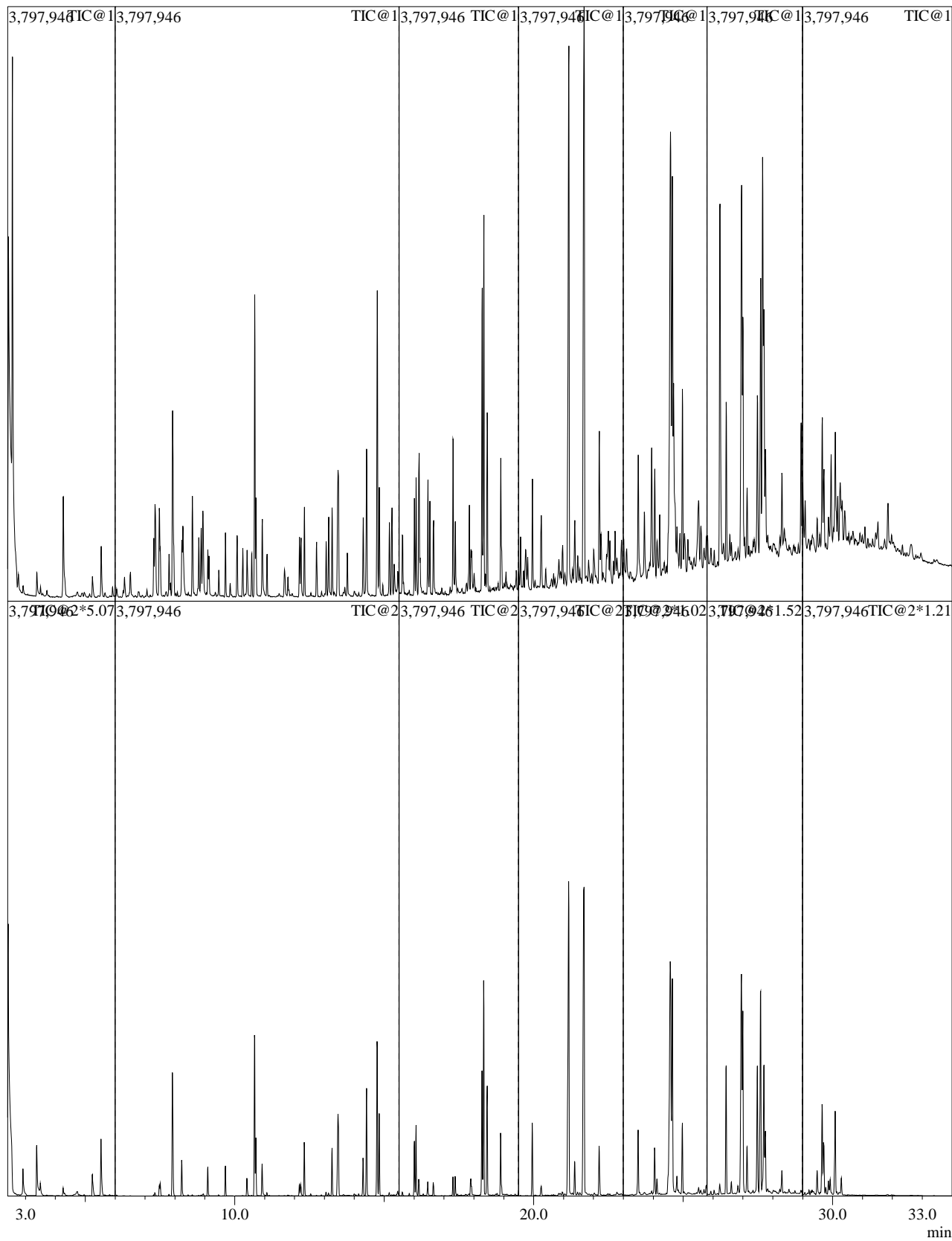
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	410163	20.0000	ng/uL	95.27
2	Naphthalene-D10	10.66	136	1574874	20.0000	ng/uL	96.54
3	Acenaphthene-D10	14.76	164	688232	20.0000	ng/uL	94.72
4	Phenanthrene-D10	18.27	188	1315675	20.0000	ng/uL	97.81
5	Chrysene-D12	24.58	240	1473612	20.0000	ng/uL	84.46
6	Perylene-D12	27.70	264	874870	20.0000	ng/uL	54.56
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	111366	5.1827	ng/uL	207.31
8	Nitrobenzene-D5 (Surr)	9.10	82	156457	5.8043	ng/uL	232.17
9	2-Fluorobiphenyl (Surr)	13.26	172	360004	6.1889	ng/uL	247.56
10	2,4,6-Tribromophenol (Surr)	16.64	330	39771	15.0474	ng/uL	401.26
11	Terphenyl-D14 (Surr)	22.19	244	493172	8.3300	ng/uL	333.20
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.92	88	46499	4.0023	ng/uL	90
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	3.38	79	95930	2.7289	ng/uL	93
17	Naphthalene	10.71	128	518305	5.5030	ng/uL	97
18	2-Methylnaphthalene	12.33	142	306861	5.0361	ng/uL	98
19	1-Methylnaphthalene	12.55	142	11890	0.1980	ng/uL	95
20	Biphenyl	13.46	154	335149	4.8755	ng/uL	93
21	Dimethylphthalate	14.29	163	336315	5.5681	ng/uL	74
22	Acenaphthylene	14.41	152	806806	9.2582	ng/uL	83
23	Acenaphthene	14.83	153	313200	5.6124	ng/uL	99
24	Fluorene	16.06	166	377905	6.2218	ng/uL	97
25	Diethylphthalate	16.01	149	407045	5.4905	ng/uL	97
26	Hexachlorobenzene	17.37	284	84205	7.7752	ng/uL	95
27	Pentachloronitrobenzene	17.92	237	17348	3.1894	ng/uL	75
28	Pentachlorophenol	17.89	266	63660	5.8761	ng/uL	95
29	Phenanthrene	18.33	178	1708222	18.4383	ng/uL	92
30	Anthracene	18.44	178	844471	9.1192	ng/uL	98
31	Di-n-butylphthalate	19.95	149	789569	6.2950	ng/uL	98
32	Fluoranthene	21.16	202	4014512	37.3384	ng/uL	98
33	Pyrene	21.68	202	4015109	39.7883	ng/uL	98
34	Butylbenzylphthalate	23.49	149	414136	8.3667	ng/uL	98
35	Benz[a]anthracene	24.56	228	2246443	22.0185	ng/uL	98
36	Chrysene	24.64	228	2204898	22.7391	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.97	149	629399	8.7170	ng/uL	98
38	Di-n-octylphthalate	26.44	149	1030454	13.4964	ng/uL	98
39	Benzo[b]fluoranthene	26.95	252	2189058	31.6023	ng/uL	97
40	Benzo[k]fluoranthene	27.00	252	1103497	16.8147	ng/uL	68
41	Benzo[a]pyrene	27.59	252	1498872	24.6085	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.65	276	771277	13.5555	ng/uL	98
43	Dibenz[a,h]anthracene	29.70	278	300038	5.5055	ng/uL	67
44	Benzo[ghi]perylene	30.08	276	621454	10.4024	ng/uL	97



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 Analyzed : 7/8/2013 5:01:02 PM
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 Dilution Factor : 1
 Vial # : 12
 Injection Volume : 1

Internal Standard

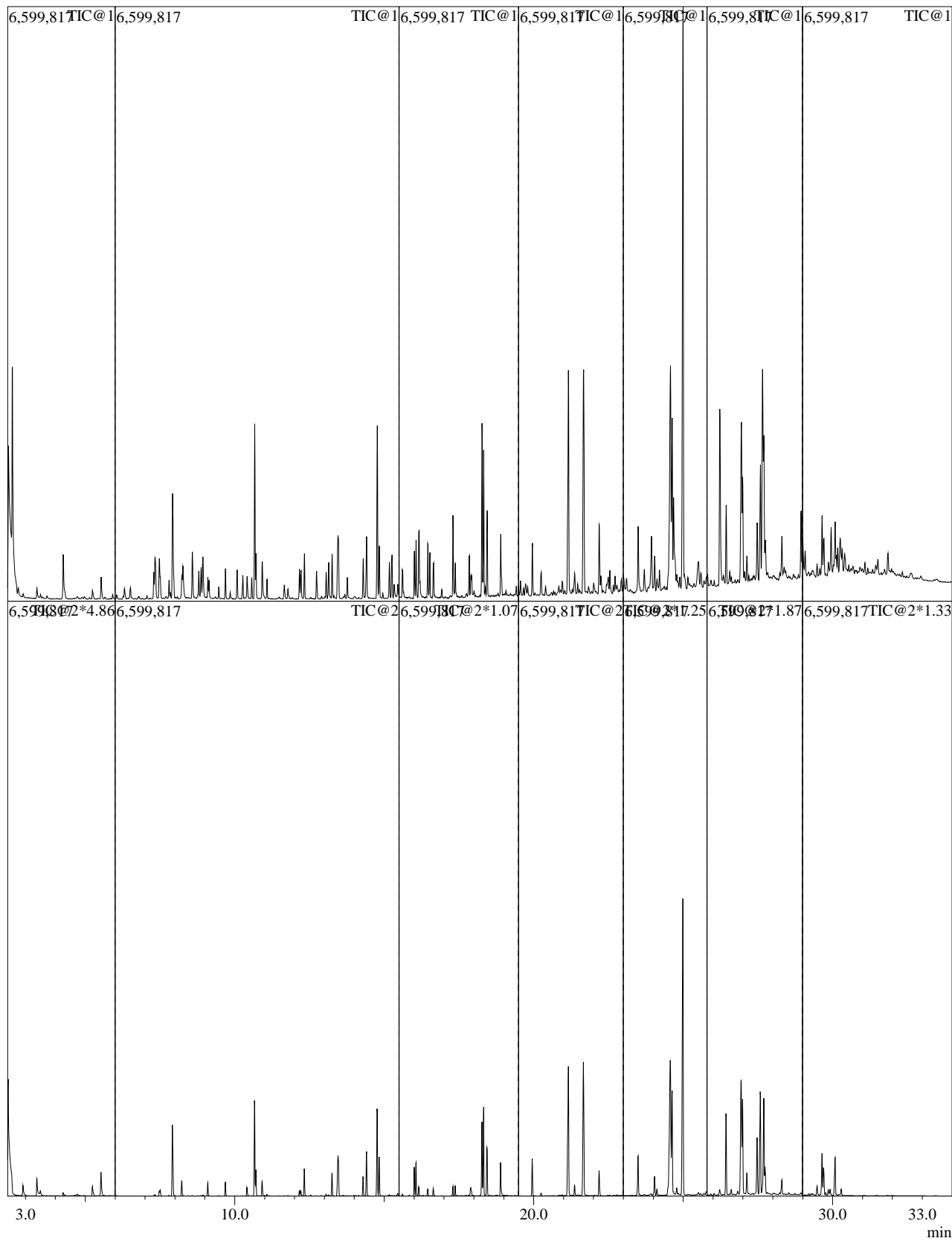
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1	1,4-Dichlorobenzene-D4	7.92	152	408280	20.0000	ng/uL	94.83
2	Naphthalene-D10	10.66	136	1570368	20.0000	ng/uL	96.27
3	Acenaphthene-D10	14.76	164	656085	20.0000	ng/uL	90.30
4	Phenanthrene-D10	18.27	188	1275787	20.0000	ng/uL	94.85
5	Chrysene-D12	24.57	240	1422486	20.0000	ng/uL	81.53
6	Perylene-D12	27.70	264	902940	20.0000	ng/uL	56.31
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(SI)	ng/uL	---

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	85164	3.9816	ng/uL	159.26
8	Nitrobenzene-D5 (Surr)	9.10	82	124104	4.6172	ng/uL	184.69
9	2-Fluorobiphenyl (Surr)	13.26	172	312922	5.6431	ng/uL	225.72
10	2,4,6-Tribromophenol (Surr)	16.64	330	37493	14.6095	ng/uL	389.59
11	Terphenyl-D14 (Surr)	22.19	244	418413	7.3213	ng/uL	292.85
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(SI)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.92	88	34522	2.9851	ng/uL	91
15	1,4-Dioxane (IS7)	-	88	---	N.D.	ng/uL	---
16	Pyridine	3.38	79	60368	1.7252	ng/uL	94
17	Naphthalene	10.71	128	410660	4.3726	ng/uL	97
18	2-Methylnaphthalene	12.33	142	264226	4.3489	ng/uL	98
19	1-Methylnaphthalene	12.55	142	9508	0.1588	ng/uL	94
20	Biphenyl	13.46	154	298644	4.5573	ng/uL	93
21	Dimethylphthalate	14.29	163	289140	5.0216	ng/uL	74
22	Acenaphthylene	14.41	152	590333	7.1061	ng/uL	83
23	Acenaphthene	14.83	153	264772	4.9771	ng/uL	99
24	Fluorene	16.06	166	315776	5.4536	ng/uL	96
25	Diethylphthalate	16.01	149	352044	4.8818	ng/uL	97
26	Hexachlorobenzene	17.37	284	74795	7.0384	ng/uL	95
27	Pentachloronitrobenzene	17.92	237	15638	2.9649	ng/uL	80
28	Pentachlorophenol	17.89	266	49809	4.7900	ng/uL	93
29	Phenanthrene	18.32	178	1068666	11.8957	ng/uL	92
30	Anthracene	18.44	178	631033	7.0274	ng/uL	98
31	Di-n-butylphthalate	19.95	149	683053	5.6160	ng/uL	98
32	Fluoranthene	21.15	202	2474322	23.7328	ng/uL	98
33	Pyrene	21.66	202	2479127	25.4502	ng/uL	97
34	Butylbenzylphthalate	23.49	149	374858	7.8454	ng/uL	98
35	Benz[a]anthracene	24.55	228	1478311	15.0104	ng/uL	98
36	Chrysene	24.63	228	1378344	14.7258	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	24.99	149	4694289	67.3510	ng/uL	98
38	Di-n-octylphthalate	26.44	149	893498	11.3388	ng/uL	98
39	Benzo[b]fluoranthene	26.94	252	1527585	21.3674	ng/uL	98
40	Benzo[k]fluoranthene	26.99	252	807333	11.9194	ng/uL	74
41	Benzo[a]pyrene	27.58	252	1021303	16.2465	ng/uL	97
42	Indeno[1,2,3-cd]pyrene	29.65	276	489080	8.3285	ng/uL	96
43	Dibenz[a,h]anthracene	29.70	278	268248	4.7692	ng/uL	94
44	Benzo[ghi]perylene	30.08	276	442688	7.1797	ng/uL	97



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Internal Standard

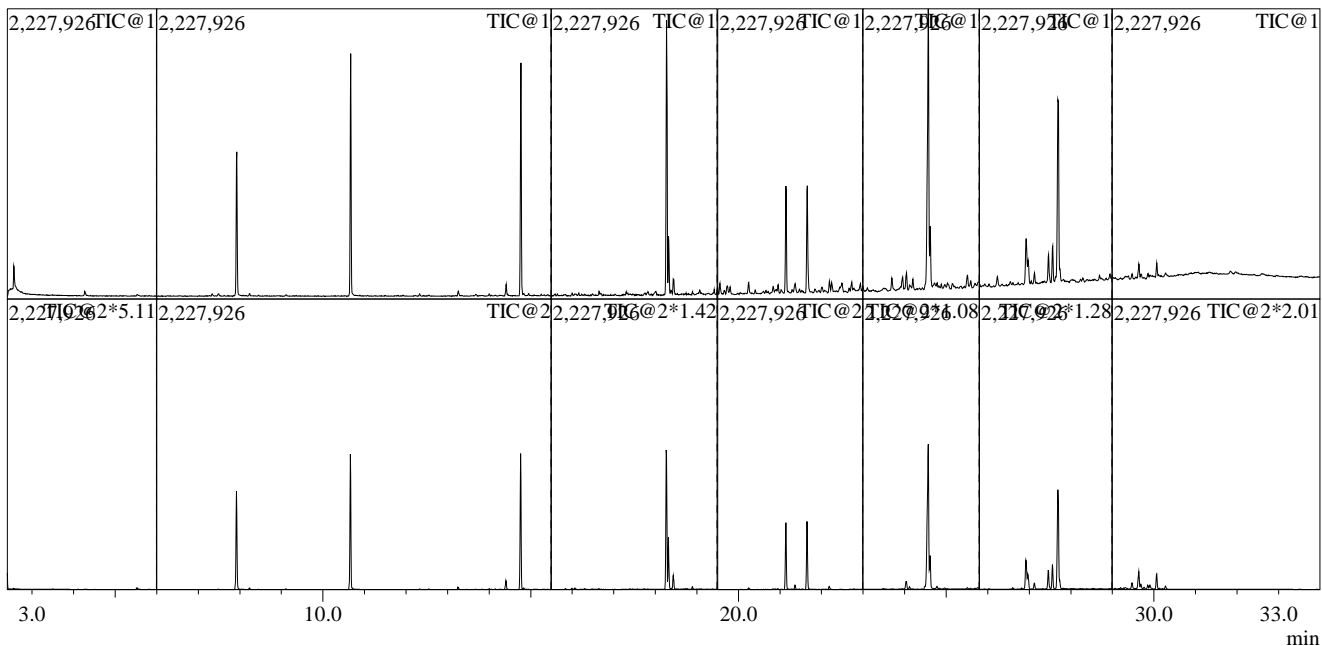
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.92	152	389325	20.0000	ng/uL	90.43
2	Naphthalene-D10	10.66	136	1504234	20.0000	ng/uL	92.21
3	Acenaphthene-D10	14.76	164	669040	20.0000	ng/uL	92.08
4	Phenanthrene-D10	18.26	188	1233655	20.0000	ng/uL	91.72
5	Chrysene-D12	24.56	240	1506196	20.0000	ng/uL	86.33
6	Perylene-D12	27.69	264	949745	20.0000	ng/uL	59.23
12	1,4-Dioxane-d8 (IS)	-	64	---	N.D.(Peak)	ng/uL	---

Surrogate

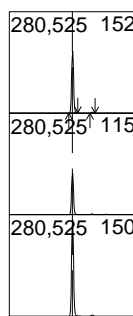
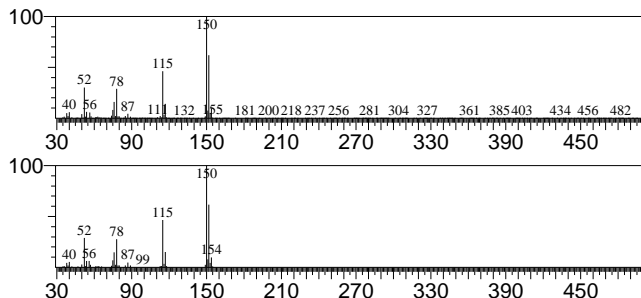
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.23	152	5495	0.27	ng/uL	10.7800
8	Nitrobenzene-D5 (Surr)	9.11	82	6403	0.25	ng/uL	9.9500
9	2-Fluorobiphenyl (Surr)	13.25	172	24508	0.43	ng/uL	17.3400
10	2,4,6-Tribromophenol (Surr)	16.64	330	2343	0.29	ng/uL	7.6900
11	Terphenyl-D14 (Surr)	22.19	244	39505	0.65	ng/uL	26.1100
13	1,4-Dioxane-d8 (Surr)	-	64	---	N.D.(Peak)	ng/uL	-

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
17	Naphthalene	10.71	128	8080	0.0898	ng/uL	91
18	2-Methylnaphthalene	12.33	142	3432	0.0590	ng/uL	81
19	1-Methylnaphthalene	12.55	142	3449	0.0601	ng/uL	89
22	Acenaphthylene	14.40	152	79988	0.9442	ng/uL	87
23	Acenaphthene	14.83	153	5763	0.1062	ng/uL	91
24	Fluorene	16.06	166	9323	0.1579	ng/uL	92
29	Phenanthrene	18.32	178	298165	3.4323	ng/uL	91
30	Anthracene	18.43	178	98297	1.1321	ng/uL	97
32	Fluoranthene	21.14	202	755359	7.4926	ng/uL	98
33	Pyrene	21.65	202	753115	7.3017	ng/uL	98
34	Butylbenzylphthalate	23.48	149	4636	0.0916	ng/uL	90
35	Benz[a]anthracene	24.54	228	349199	3.3486	ng/uL	98
36	Chrysene	24.61	228	353260	3.5644	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	24.97	149	6984	0.0946	ng/uL	92
39	Benzo[b]fluoranthene	26.92	252	357996	4.7608	ng/uL	97
40	Benzo[k]fluoranthene	26.96	252	129997	1.8247	ng/uL	75
41	Benzo[a]pyrene	27.56	252	225862	3.4159	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.63	276	96600	1.5639	ng/uL	97
43	Dibenz[a,h]anthracene	29.69	278	20290	0.3430	ng/uL	66
44	Benzo[ghi]perylene	30.06	276	79705	1.2290	ng/uL	97



ID#1 R.Time:7.9(Scan#:1325)

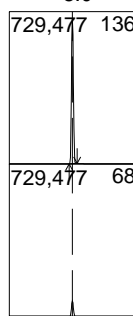
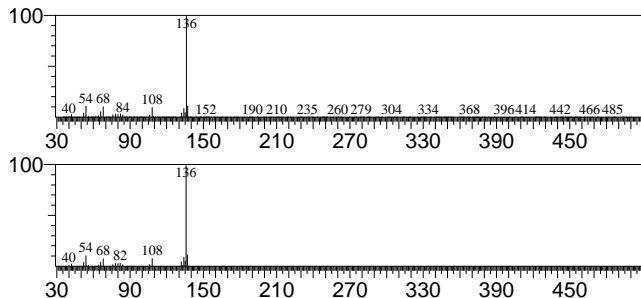


ID#1 Mass:152.00
Type:ISTD
Name:1,4-Dichlorobenzene-D4

R.T.:7.918
Area:389325
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	118914	66.62	64.19
2	150	277314	155.35	151.89

ID#2 R.Time:10.7(Scan#:1983)

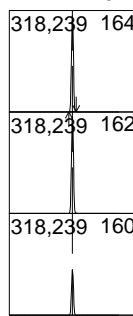
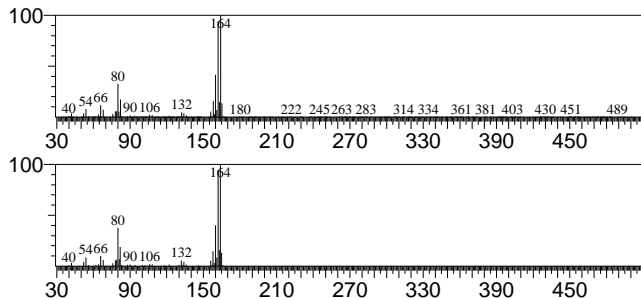


ID#2 Mass:136.00
Type:ISTD
Name:Naphthalene-D10

R.T.:10.659
Area:1504234
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	78317	10.70	9.71

ID#3 R.Time:14.8(Scan#:2967)

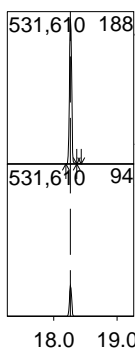
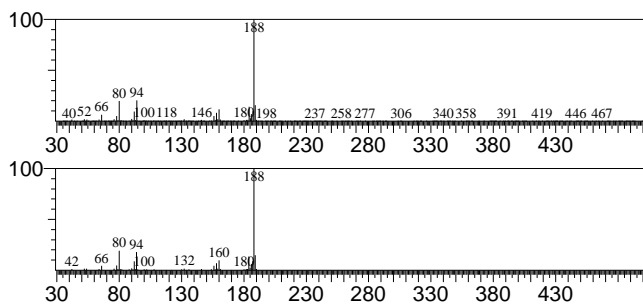


ID#3 Mass:164.00
Type:ISTD
Name:Acenaphthene-D10

R.T.:14.758
Area:669040
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	316835	100.02	98.82
2	160	148420	46.85	47.25

ID#:4 R.Time:18.3(Scan#:3759)

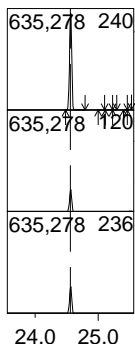
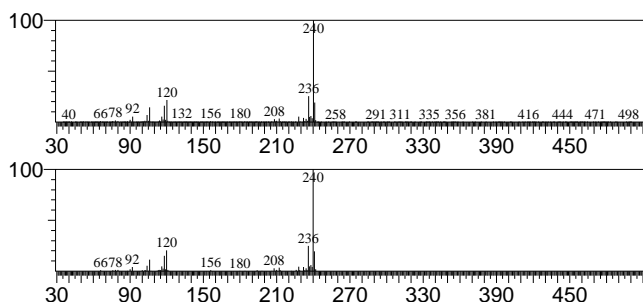


ID#4 Mass:188.00
Type:ISTD
Name:Phenanthrene-D10

R.T.:18.265
Area:1233655
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	110451	20.99	19.71

ID#5 R.Time:24.6(Scan#:5249)

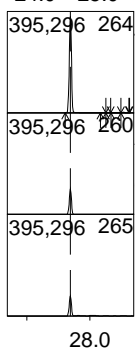
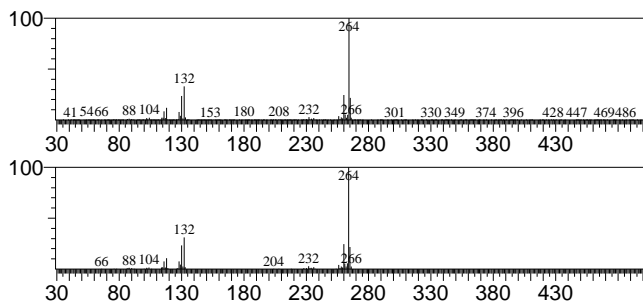


ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12

R.T.:24.564
Area:1506196
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	135007	21.99	21.04
2	236	165602	26.97	26.98

ID#6 R.Time:27.7(Scan#:5999)

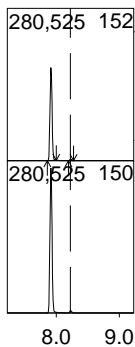
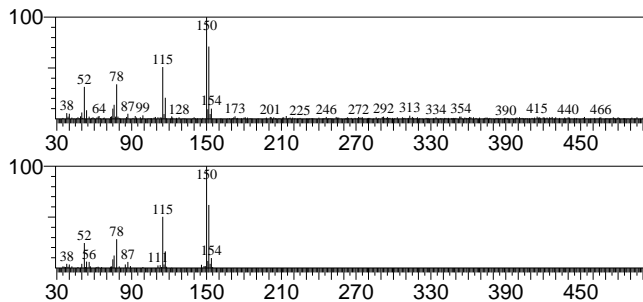


ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12

R.T.:27.690
Area:949745
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	100491	26.32	26.80
2	265	79925	20.93	21.15

ID#7 R.Time:8.2(Scan#:1401)

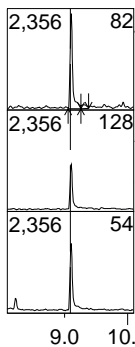
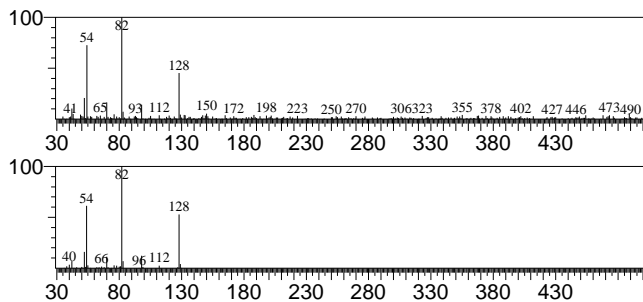


ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)

R.T.:8.229
Area:5495
SI:94
Conc.:0.269ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	3980	155.35	155.60

ID#8 R.Time:9.1(Scan#:1611)

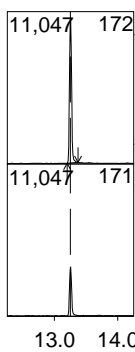
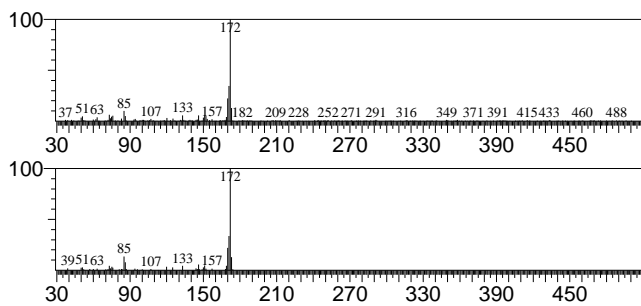


ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)

R.T.:9.106
Area:6403
SI:94
Conc.:0.249ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	1040	46.97	48.05
2	54	1519	68.61	70.83

ID#:9 R.Time:13.3(Scan#:2605)



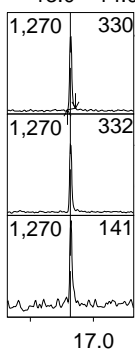
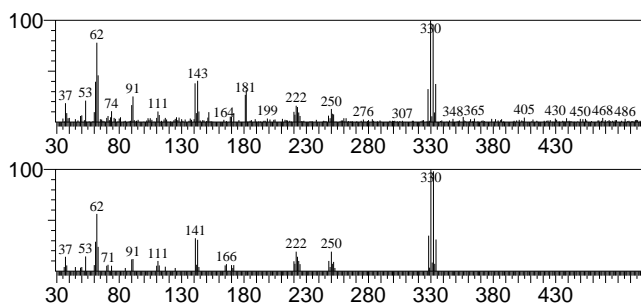
ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

R.T.:13.254
Area:24508
SI:95

Conc.:0.433ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	3627	33.54	33.30

ID#:10 R.Time:16.6(Scan#:3399)



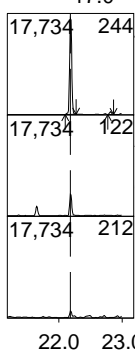
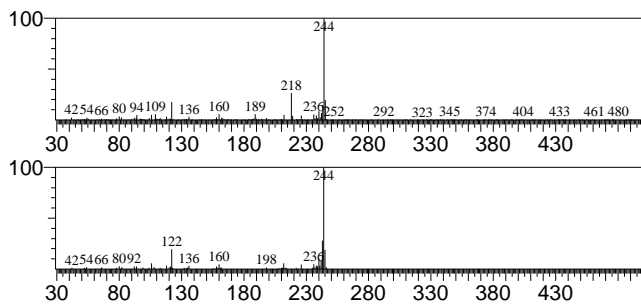
ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

R.T.:16.639
Area:2343
SI:93

Conc.:0.288ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	831	89.55	93.70
2	141	1037	* 111.75	75.95

ID#:11 R.Time:22.2(Scan#:4677)



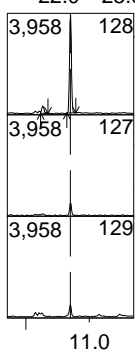
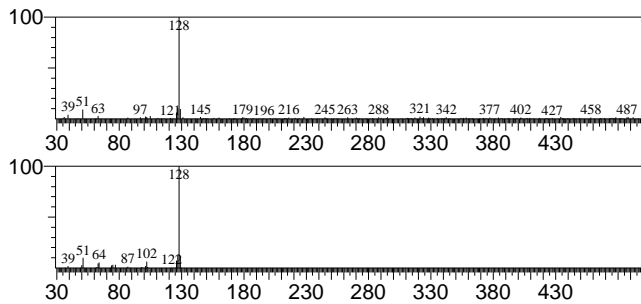
ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

R.T.:22.187
Area:39505
SI:95

Conc.:0.653ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	3780	22.06	21.72
2	212	1150	6.71	7.05

ID#:17 R.Time:10.7(Scan#:1995)



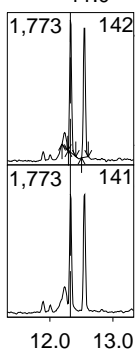
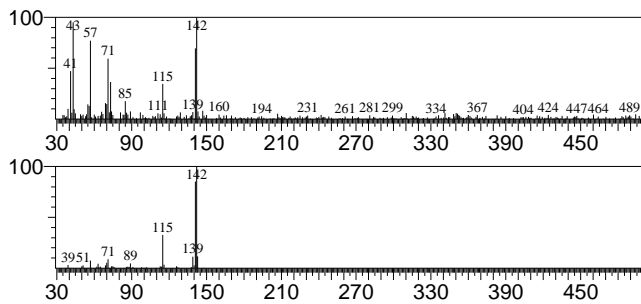
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Type:Target
Name:Naphthalene

R.T.:10.705
Area:8080
SI:91

Conc.:0.090ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	496	12.70	12.40
2	129	409	10.47	11.19

ID#:18 R.Time:12.3(Scan#:2383)



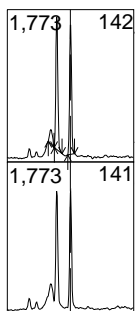
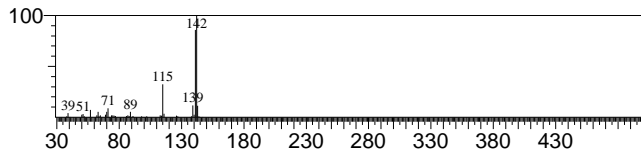
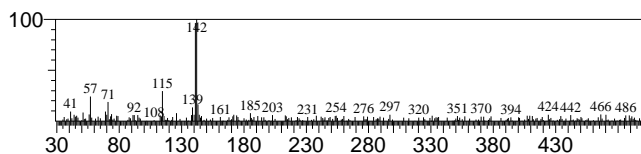
ID#18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.328
Area:3432
SI:81

Conc.:0.059ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1399	85.15	82.70

ID#:19 R.Time:12.5(Scan#:2435)



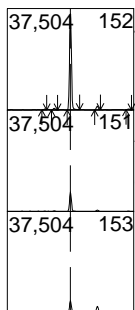
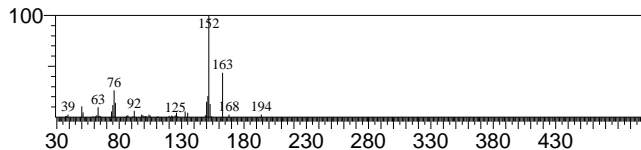
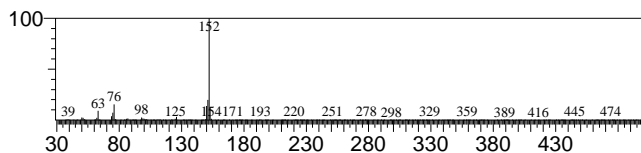
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.546
Area:3449
SI:89

Conc.:0.060ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1375	87.97	86.60

ID#:22 R.Time:14.4(Scan#:2881)



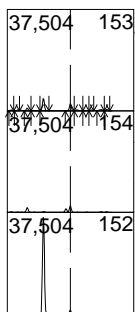
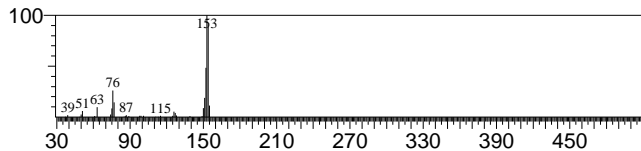
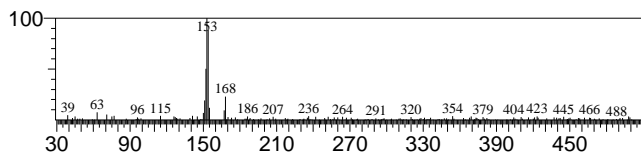
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.403
Area:79988
SI:87

Conc.:0.944ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	7271	19.44	19.59
2	153	4729	12.64	12.59

ID#:23 R.Time:14.8(Scan#:2983)



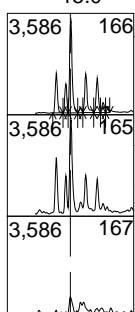
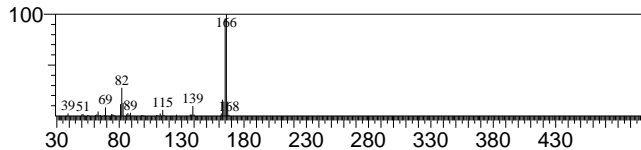
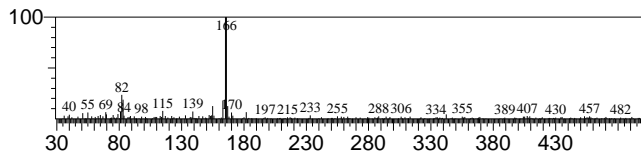
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.829
Area:5763
SI:91

Conc.:0.106ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	1959	76.08	94.92
2	152	1352	52.51	48.56

ID#:24 R.Time:16.1(Scan#:3271)



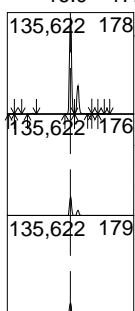
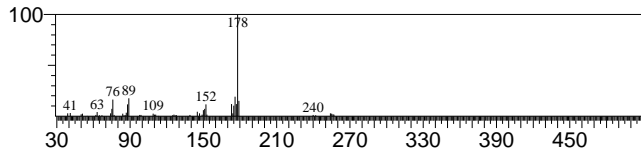
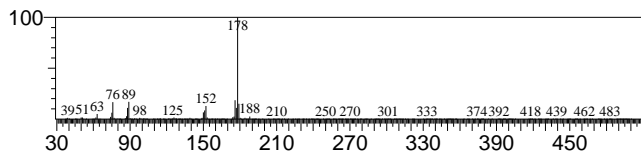
ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.064
Area:9323
SI:92

Conc.:0.158ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	3189	100.28	91.92
2	167	531	16.70	13.05

ID#:29 R.Time:18.3(Scan#:3771)



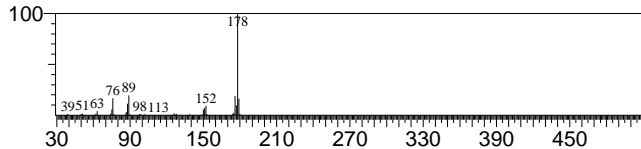
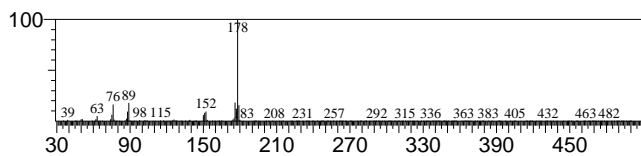
ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.316
Area:298165
SI:91

Conc.:3.432ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	26532	19.33	19.17
2	179	19692	14.35	14.03

ID#:30 R.Time:18.4(Scan#:3797)

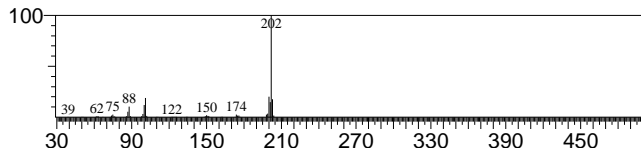
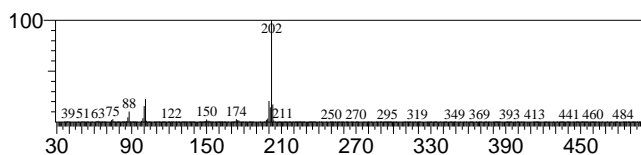


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.433
Area:98297
SI:97
Conc.:1.132ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	7209	18.63	18.55
2	179	5499	14.21	14.27

ID#:32 R.Time:21.1(Scan#:4427)

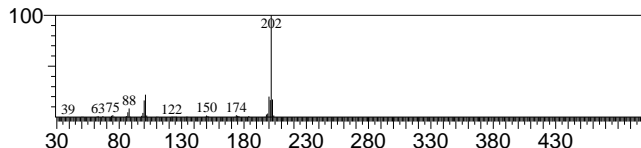
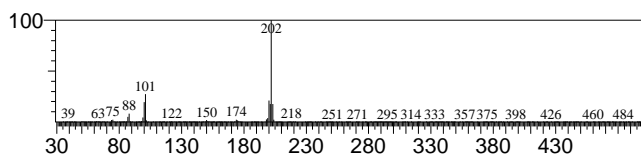


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.141
Area:755359
SI:98
Conc.:7.493ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	69244	20.23	18.58

ID#:33 R.Time:21.7(Scan#:4549)

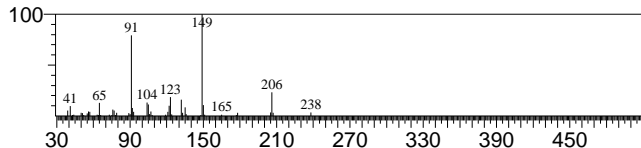
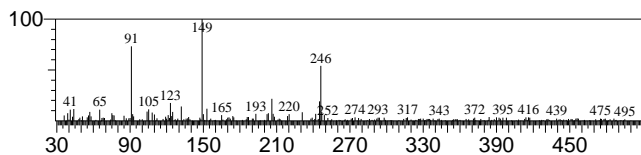


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.651
Area:753115
SI:98
Conc.:7.302ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	78921	23.69	21.53
2	100	57163	17.16	15.51

ID#:34 R.Time:23.5(Scan#:4989)

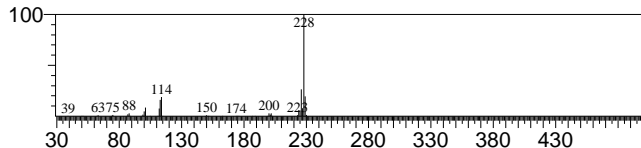
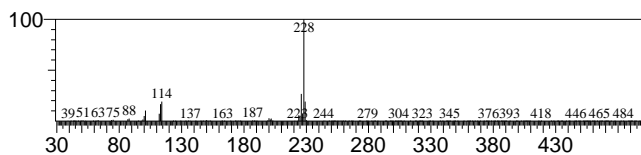


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.483
Area:4636
SI:90
Conc.:0.092ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	1525	70.08	68.53
2	206	407	18.70	19.94

ID#:35 R.Time:24.5(Scan#:5243)

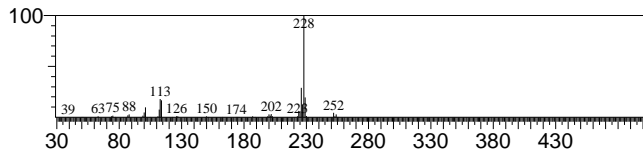
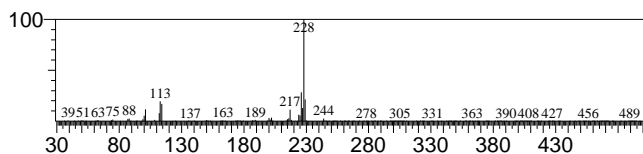


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.539
Area:349199
SI:98
Conc.:3.349ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	30210	26.60	26.70
2	229	22326	19.66	19.69

ID#:36 R.Time:24.6(Scan#:5261)

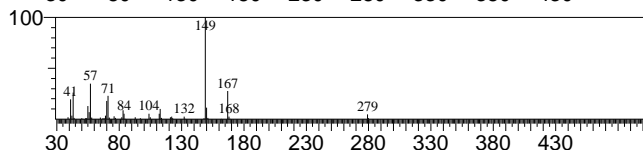
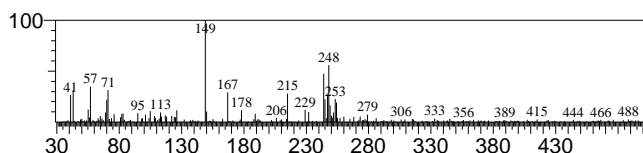


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.613
Area:353260
SI:97
Conc.:3.564ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	39660	29.55	29.84
2	229	28003	20.86	19.72

ID#:37 R.Time:25.0(Scan#:5345)

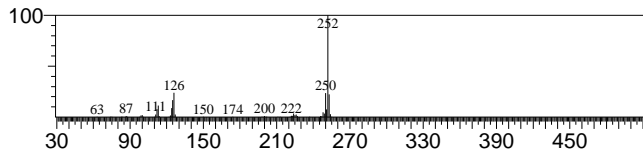
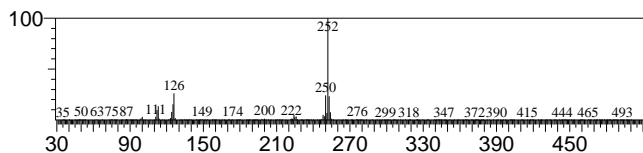


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:24.966
Area:6984
SI:92
Conc.:0.095ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	869	27.20	29.63
2	279	102	3.19	3.69

ID#:39 R.Time:26.9(Scan#:5813)

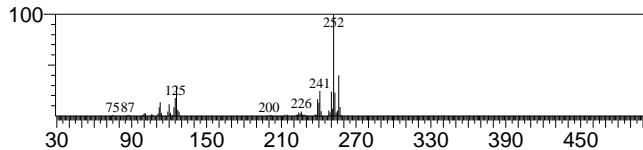
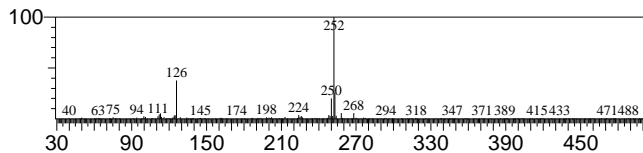


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:26.921
Area:357996
SI:97
Conc.:4.761ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	21509	22.64	20.72
2	125	16096	16.94	14.26

ID#:40 R.Time:27.0(Scan#:5825)

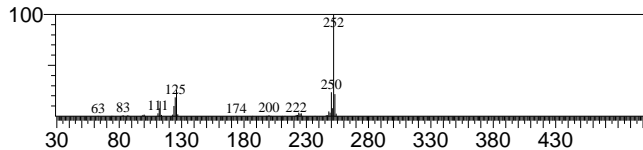
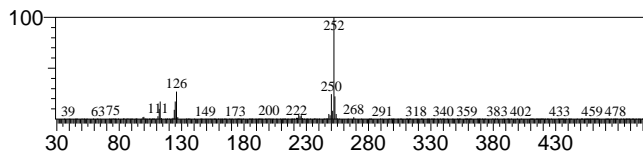


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:26.963
Area:129997
SI:75
Conc.:1.825ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	6872	24.06	20.26
2	125	3958	13.86	13.59

ID#:41 R.Time:27.6(Scan#:5967)

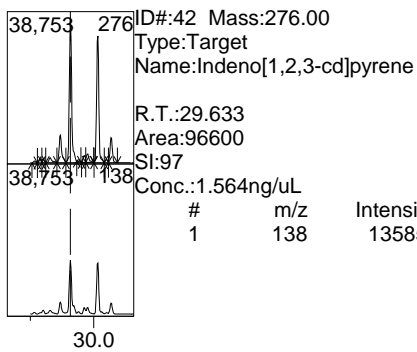
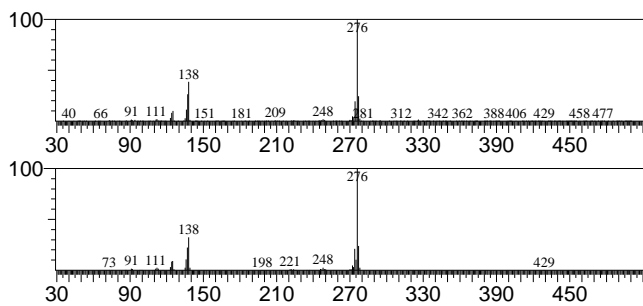


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.559
Area:225862
SI:98
Conc.:3.416ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	21283	22.11	21.88
2	125	17011	17.67	16.90

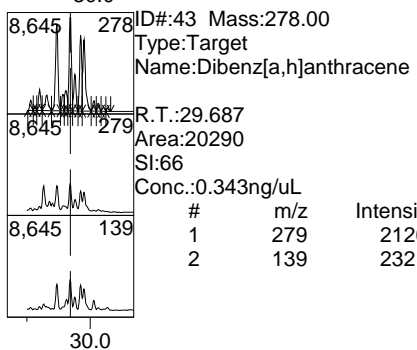
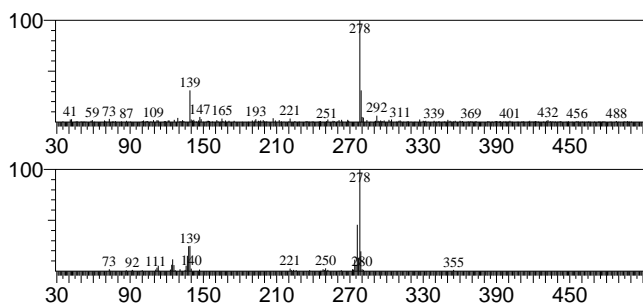
ID#:42 R.Time:29.6(Scan#:6465)



ID#42 Mass:276.00
 Type:Target
 Name:Indeno[1,2,3-cd]pyrene
 R.T.:29.633
 Area:96600
 SI:97
 Conc.:1.564ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	13585	36.68	33.97

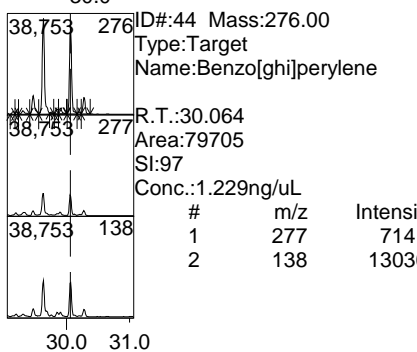
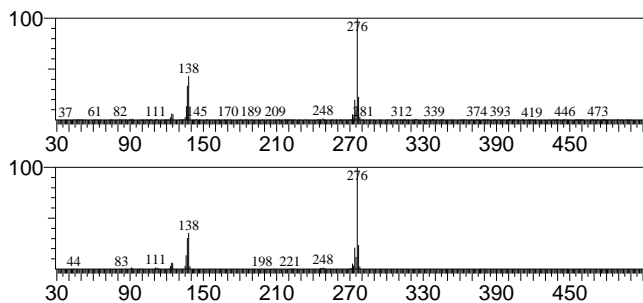
ID#43 R.Time:29.7(Scan#:6477)



ID#43 Mass:278.00
 Type:Target
 Name:Dibenz[a,h]anthracene
 R.T.:29.687
 Area:20290
 SI:66
 Conc.:0.343ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	2126	28.40	23.57
2	139	2321	31.00	29.78

ID#44 R.Time:30.1(Scan#:6569)



ID#44 Mass:276.00
 Type:Target
 Name:Benzo[ghi]perylene
 R.T.:30.064
 Area:79705
 SI:97
 Conc.:1.229ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	7141	21.95	24.13
2	138	13036	40.06	39.10

PAH Calibration Data

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415787

Injection Date: 06/25/13

Instrument ID: SVOAMS4

Injection Time: 11:02

Sequence: CWF0276

Lab Sample ID: CWF0276-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	56.1	PASS
68	Less than 2% of 69	1.64	PASS
69	Less than 100% of 198	44.1	PASS
70	Less than 2% of 69	0.46	PASS
127	40 - 60% of 198	55	PASS
197	Less than 1% of 198	0.683	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.69	PASS
275	10 - 30% of 198	22.6	PASS
365	1 - 100% of 198	1.45	PASS
441	0.01 - 100% of 443	74.4	PASS
442	40 - 110% of 198	56.7	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Lab File ID: SV415989

Injection Date: 07/08/13

Instrument ID: SVOAMS4

Injection Time: 08:20

Sequence: CWG0078

Lab Sample ID: CWG0078-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.5	PASS
68	Less than 2% of 69	1.68	PASS
69	Less than 100% of 198	42	PASS
70	Less than 2% of 69	0.509	PASS
127	40 - 60% of 198	49.4	PASS
197	Less than 1% of 198	0.63	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.45	PASS
275	10 - 30% of 198	22.3	PASS
365	1 - 100% of 198	1.31	PASS
441	0.01 - 100% of 443	77.3	PASS
442	40 - 110% of 198	46.4	PASS
443	17 - 23% of 442	20	PASS

CONTINUING CALIBRATION CHECK

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1307061</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Instrument ID: <u>SVOAMS4</u>	Calibration: <u>1306027</u>
Lab File ID: <u>SV415990.D</u>	Calibration Date: <u>06/25/13 13:53</u>
Sequence: <u>CWG0078</u>	Injection Date: <u>07/08/13</u>
Lab Sample ID: <u>CWG0078-CCV1</u>	Injection Time: <u>08:33</u>

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Methylnaphthalene	A	5.000	4.66	0.7737995	0.7209732		-6.8	30
Acenaphthene	A	5.000	4.62	1.621686	1.497068		-7.7	30
Acenaphthylene	A	5.000	4.71	2.532435	2.387408		-5.7	30
Anthracene	A	5.000	4.85	1.407701	1.366578		-2.9	30
Benzo(a)anthracene	A	5.000	4.56	1.384697	1.263542		-8.7	30
Benzo(a)pyrene	A	5.000	4.87	1.392409	1.355861		-2.6	30
Benzo(b)fluoranthene	A	5.000	4.83	1.583523	1.531093		-3.3	30
Benzo(g,h,i)perylene	A	5.000	4.76	1.365721	1.301266		-4.7	30
Benzo(k)fluoranthene	A	5.000	4.57	1.50027	1.370402		-8.7	30
Chrysene	A	5.000	4.54	1.316018	1.194017		-9.3	30
Dibenzo(a,h)Anthracene	A	5.000	4.86	1.245842	1.211349		-2.8	30
Fluoranthene	A	5.000	4.83	1.6344	1.577359		-3.5	30
Fluorene	A	5.000	4.71	1.765071	1.663065		-5.8	30
Indeno(1,2,3-cd)Pyrene	A	5.000	4.81	1.300716	1.252222		-3.7	30
Naphthalene	A	5.000	4.58	1.196117	1.095921		-8.4	30
Phenanthrene	A	5.000	4.60	1.408333	1.296339		-8.0	30
Pyrene	A	5.000	4.64	1.369584	1.270164		-7.3	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1307061</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0276</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL1)								
Lab File ID: SV415789.D				Analyzed: 06/25/13 12:03				
1,2-Dichlorobenzene-d4	0.05000	180		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.05000	120		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.05000	100		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.05000	120		22.26	22.273	-0.0130	+/-1.0	
Cal Standard (CWF0276-CAL2)								
Lab File ID: SV415790.D				Analyzed: 06/25/13 12:53				
1,2-Dichlorobenzene-d4	0.1000	140		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.1000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.1000	90		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	0.1000	100		22.26	22.273	-0.0130	+/-1.0	
Cal Standard (CWF0276-CAL3)								
Lab File ID: SV415791.D				Analyzed: 06/25/13 13:43				
1,2-Dichlorobenzene-d4	0.2000	115		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.2000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.2000	90		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.2000	95		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL4)								
Lab File ID: SV415792.D				Analyzed: 06/25/13 14:34				
1,2-Dichlorobenzene-d4	0.5000	108		8.28	8.28875	-0.0088	+/-1.0	
2-Fluorobiphenyl	0.5000	104		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	0.5000	96		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	0.5000	104		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL5)								
Lab File ID: SV415793.D				Analyzed: 06/25/13 15:25				
1,2-Dichlorobenzene-d4	1.000	105		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	1.000	107		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	1.000	103		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	1.000	102		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL6)								
Lab File ID: SV415794.D				Analyzed: 06/25/13 16:16				
1,2-Dichlorobenzene-d4	2.000	101		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	2.000	104		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	2.000	108		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	2.000	105		22.27	22.273	-0.0030	+/-1.0	
Cal Standard (CWF0276-CAL7)								
Lab File ID: SV415795.D				Analyzed: 06/25/13 17:06				
1,2-Dichlorobenzene-d4	5.000	99		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	5.000	100		13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	5.000	108		9.15	9.156	-0.0060	+/-1.0	
p-Terphenyl-d14	5.000	100		22.27	22.273	-0.0030	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1307061</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWF0276</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL8)								
Lab File ID: SV415796.D				Analyzed: 06/25/13 17:57				
1,2-Dichlorobenzene-d4	10.00	95		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	10.00	96		13.33	13.325	0.0050	+/-1.0	
Nitrobenzene-d5	10.00	108		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	10.00	97		22.28	22.273	0.0070	+/-1.0	
Cal Standard (CWF0276-CAL9)								
Lab File ID: SV415797.D				Analyzed: 06/25/13 18:47				
1,2-Dichlorobenzene-d4	20.00	92		8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	20.00	91		13.33	13.325	0.0050	+/-1.0	
Nitrobenzene-d5	20.00	106		9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	20.00	94		22.28	22.273	0.0070	+/-1.0	
Cal Standard (CWF0276-CALA)								
Lab File ID: SV415798.D				Analyzed: 06/25/13 19:37				
1,2-Dichlorobenzene-d4	50.00	82		8.3	8.28875	0.0113	+/-1.0	
2-Fluorobiphenyl	50.00	83		13.35	13.325	0.0250	+/-1.0	
Nitrobenzene-d5	50.00	98		9.18	9.156	0.0240	+/-1.0	
p-Terphenyl-d14	50.00	89		22.3	22.273	0.0270	+/-1.0	
Secondary Cal Check (CWF0276-SCV1)								
Lab File ID: SV415799.D				Analyzed: 06/25/13 20:27				
1,2-Dichlorobenzene-d4	5.000	94	70 - 130	8.29	8.28875	0.0012	+/-1.0	
2-Fluorobiphenyl	5.000	94	70 - 130	13.32	13.325	-0.0050	+/-1.0	
Nitrobenzene-d5	5.000	104	70 - 130	9.16	9.156	0.0040	+/-1.0	
p-Terphenyl-d14	5.000	95	70 - 130	22.27	22.273	-0.0030	+/-1.0	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

8270C SIM

Laboratory: <u>ESS Laboratory</u>	SDG: <u>1307061</u>
Client: <u>AMEC Environmental and Infrastructure - KPB</u>	Project: <u>Gorham Site C-1 Phase III</u>
Sequence: <u>CWG0078</u>	Instrument: <u>SVOAMS4</u>
Matrix: <u>Solid</u>	Calibration: <u>1306027</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (CWG0078-CCV1)								
Lab File ID: SV415990.D				Analyzed: 07/08/13 08:33				
1,2-Dichlorobenzene-d4	5.000	88	70 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	5.000	94	70 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	5.000	95	70 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	5.000	89	70 - 130	22.18	22.273	-0.0930	+/-1.0	
Blank (CG30504-BLK1)								
Lab File ID: SV415991.D				Analyzed: 07/08/13 09:20				
1,2-Dichlorobenzene-d4	0.3333	40	30 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	0.3333	43	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3333	44	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3333	73	30 - 130	22.18	22.273	-0.0930	+/-1.0	
LCS (CG30504-BS1)								
Lab File ID: SV415992.D				Analyzed: 07/08/13 10:09				
1,2-Dichlorobenzene-d4	0.3333	48	30 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	0.3333	54	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3333	54	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3333	85	30 - 130	22.18	22.273	-0.0930	+/-1.0	
LCS Dup (CG30504-BSD1)								
Lab File ID: SV415993.D				Analyzed: 07/08/13 10:58				
1,2-Dichlorobenzene-d4	0.3333	30	30 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	0.3333	46	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3333	37	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3333	70	30 - 130	22.18	22.273	-0.0930	+/-1.0	
SS-503-01 (1307061-01)								
Lab File ID: SV415995.D				Analyzed: 07/08/13 12:36				
1,2-Dichlorobenzene-d4	0.3728	32	30 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	0.3728	46	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3728	37	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3728	62	30 - 130	22.18	22.273	-0.0930	+/-1.0	
SS-503-02 (1307061-02)								
Lab File ID: SV415996.D				Analyzed: 07/08/13 13:26				
1,2-Dichlorobenzene-d4	0.3584	27	30 - 130	8.22	8.28875	-0.0687	+/-1.0	*
2-Fluorobiphenyl	0.3584	45	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3584	33	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3584	60	30 - 130	22.19	22.273	-0.0830	+/-1.0	
SS-504-01 (1307061-03)								
Lab File ID: SV415997.D				Analyzed: 07/08/13 14:16				
1,2-Dichlorobenzene-d4	0.3452	41	30 - 130	8.22	8.28875	-0.0687	+/-1.0	
2-Fluorobiphenyl	0.3452	57	30 - 130	13.25	13.325	-0.0750	+/-1.0	
Nitrobenzene-d5	0.3452	52	30 - 130	9.09	9.156	-0.0660	+/-1.0	
p-Terphenyl-d14	0.3452	71	30 - 130	22.19	22.273	-0.0830	+/-1.0	

INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWF0276

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (CWF0276-CAL6)			Lab File ID: SV415794.D			Analyzed: 06/25/13 16:16			
1,4-Dichlorobenzene-d4	490117	7.97	486943	7.97	101	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1833257	10.72	1846771	10.72	99	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	789458	14.83	784183	14.83	101	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1457934	18.34	1504953	18.34	97	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1823367	24.65	1896651	24.65	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	1746155	27.8	1699182	27.79	103	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL7)			Lab File ID: SV415795.D			Analyzed: 06/25/13 17:06			
1,4-Dichlorobenzene-d4	459036	7.98	486943	7.97	94	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1771403	10.73	1846771	10.72	96	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	767478	14.83	784183	14.83	98	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1440985	18.34	1504953	18.34	96	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1783987	24.66	1896651	24.65	94	50 - 200	0.0100	+/-0.50	
Perylene-d12	1709681	27.8	1699182	27.79	101	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL8)			Lab File ID: SV415796.D			Analyzed: 06/25/13 17:57			
1,4-Dichlorobenzene-d4	453841	7.98	486943	7.97	93	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1745745	10.73	1846771	10.72	95	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	772440	14.84	784183	14.83	99	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1490678	18.35	1504953	18.34	99	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1802152	24.66	1896651	24.65	95	50 - 200	0.0100	+/-0.50	
Perylene-d12	1776218	27.8	1699182	27.79	105	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CAL9)			Lab File ID: SV415797.D			Analyzed: 06/25/13 18:47			
1,4-Dichlorobenzene-d4	458148	7.98	486943	7.97	94	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1801150	10.73	1846771	10.72	98	50 - 200	0.0100	+/-0.50	
Acenaphthene-d10	790956	14.84	784183	14.83	101	50 - 200	0.0100	+/-0.50	
Phenanthrene-d10	1539622	18.35	1504953	18.34	102	50 - 200	0.0100	+/-0.50	
Chrysene-d12	1829818	24.67	1896651	24.65	96	50 - 200	0.0200	+/-0.50	
Perylene-d12	1836407	27.8	1699182	27.79	108	50 - 200	0.0100	+/-0.50	
Cal Standard (CWF0276-CALA)			Lab File ID: SV415798.D			Analyzed: 06/25/13 19:37			
1,4-Dichlorobenzene-d4	466037	7.98	486943	7.97	96	50 - 200	0.0100	+/-0.50	
Naphthalene-d8	1861302	10.74	1846771	10.72	101	50 - 200	0.0200	+/-0.50	
Acenaphthene-d10	784881	14.85	784183	14.83	100	50 - 200	0.0200	+/-0.50	
Phenanthrene-d10	1553373	18.37	1504953	18.34	103	50 - 200	0.0300	+/-0.50	
Chrysene-d12	1659646	24.69	1896651	24.65	88	50 - 200	0.0400	+/-0.50	
Perylene-d12	1858308	27.82	1699182	27.79	109	50 - 200	0.0300	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY
8270C SIM**

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sequence: CWG0078

Instrument: SVOAMS4

Matrix: Solid

Calibration: 1306027

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (CWG0078-CCV1)			Lab File ID: SV415990.D			Analyzed: 07/08/13 08:33			
1,4-Dichlorobenzene-d4	430529	7.91				50 - 200		+/-0.50	
Naphthalene-d8	1631234	10.65				50 - 200		+/-0.50	
Acenaphthene-d10	726567	14.75				50 - 200		+/-0.50	
Phenanthrene-d10	1345074	18.26				50 - 200		+/-0.50	
Chrysene-d12	1744736	24.55				50 - 200		+/-0.50	
Perylene-d12	1603521	27.68				50 - 200		+/-0.50	
Blank (CG30504-BLK1)			Lab File ID: SV415991.D			Analyzed: 07/08/13 09:20			
1,4-Dichlorobenzene-d4	343399	7.91	430529	7.91	80	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1287688	10.65	1631234	10.65	79	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	561958	14.75	726567	14.75	77	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1072225	18.25	1345074	18.26	80	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1283302	24.55	1744736	24.55	74	50 - 200	0.0000	+/-0.50	
Perylene-d12	1179822	27.68	1603521	27.68	74	50 - 200	0.0000	+/-0.50	
LCS (CG30504-BS1)			Lab File ID: SV415992.D			Analyzed: 07/08/13 10:09			
1,4-Dichlorobenzene-d4	367576	7.91	430529	7.91	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1390454	10.65	1631234	10.65	85	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	596621	14.75	726567	14.75	82	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1156226	18.26	1345074	18.26	86	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1316061	24.55	1744736	24.55	75	50 - 200	0.0000	+/-0.50	
Perylene-d12	1255092	27.68	1603521	27.68	78	50 - 200	0.0000	+/-0.50	
LCS Dup (CG30504-BSD1)			Lab File ID: SV415993.D			Analyzed: 07/08/13 10:58			
1,4-Dichlorobenzene-d4	324572	7.91	430529	7.91	75	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1247678	10.65	1631234	10.65	76	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	530181	14.75	726567	14.75	73	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1044519	18.25	1345074	18.26	78	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	1262025	24.55	1744736	24.55	72	50 - 200	0.0000	+/-0.50	
Perylene-d12	1074191	27.68	1603521	27.68	67	50 - 200	0.0000	+/-0.50	
SS-503-01 (1307061-01)			Lab File ID: SV415995.D			Analyzed: 07/08/13 12:36			
1,4-Dichlorobenzene-d4	364533	7.91	430529	7.91	85	50 - 200	0.0000	+/-0.50	
Naphthalene-d8	1387154	10.65	1631234	10.65	85	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	591931	14.75	726567	14.75	81	50 - 200	0.0000	+/-0.50	
Phenanthrene-d10	1108730	18.26	1345074	18.26	82	50 - 200	0.0000	+/-0.50	
Chrysene-d12	1376895	24.56	1744736	24.55	79	50 - 200	0.0100	+/-0.50	
Perylene-d12	1247133	27.7	1603521	27.68	78	50 - 200	0.0200	+/-0.50	

INITIAL CALIBRATION DATA
8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
1,1-Biphenyl	0.05	2.135514	0.1	2.006461	0.2	2.021642	0.5	2.068237	1	2.120551	2	2.101188
1,4-Dioxane	0.05	0.4877633	0.1	0.5331961	0.2	0.5154496	0.5	0.5705642	1	0.598222	2	0.598755
2-Methylnaphthalene	0.05	0.8632432	0.1	0.8037446	0.2	0.7763645	0.5	0.8017297	1	0.8203074	2	0.8210196
Acenaphthene	0.05	1.765594	0.1	1.726425	0.2	1.634605	0.5	1.682298	1	1.742246	2	1.69857
Acenaphthylene	0.05	2.680218	0.1	2.526674	0.2	2.408557	0.5	2.64534	1	2.756193	2	2.788445
Anthracene	0.05	1.586662	0.1	1.456482	0.2	1.387137	0.5	1.468147	1	1.482943	2	1.500493
Benzo(a)anthracene	0.05	1.459878	0.1	1.429818	0.2	1.372652	0.5	1.433881	1	1.432462	2	1.432751
Benzo(a)pyrene	0.05	1.627696	0.1	1.340405	0.2	1.321128	0.5	1.420669	1	1.51653	2	1.474611
Benzo(b)fluoranthene	0.05	2.023254	0.1	1.62032	0.2	1.590167	0.5	1.565078	1	1.643144	2	1.604709
Benzo(g,h,i)perylene	0.05	1.695441	0.1	1.408524	0.2	1.353641	0.5	1.400115	1	1.455771	2	1.439013
Benzo(k)fluoranthene	0.05	1.778872	0.1	1.493997	0.2	1.505459	0.5	1.540336	1	1.63428	2	1.510364
Chrysene	0.05	1.582214	0.1	1.421114	0.2	1.333265	0.5	1.358669	1	1.384261	2	1.347321
Dibenzo(a,h)Anthracene	0.05	1.503573	0.1	1.263123	0.2	1.185813	0.5	1.257578	1	1.303933	2	1.30895
Fluoranthene	0.05	1.853759	0.1	1.707709	0.2	1.653269	0.5	1.729049	1	1.762327	2	1.751142
Fluorene	0.05	1.946119	0.1	1.806907	0.2	1.744052	0.5	1.818636	1	1.86079	2	1.857262
Indeno(1,2,3-cd)Pyrene	0.05	1.543811	0.1	1.290608	0.2	1.225947	0.5	1.319832	1	1.368188	2	1.33999
Naphthalene	0.05	1.313601	0.1	1.244642	0.2	1.214211	0.5	1.254979	1	1.276628	2	1.259447
Phenanthrene	0.05	1.649794	0.1	1.496128	0.2	1.4433	0.5	1.465559	1	1.506213	2	1.491467
Pyrene	0.05	1.488946	0.1	1.380531	0.2	1.335274	0.5	1.406346	1	1.452518	2	1.44497
1,2-Dichlorobenzene-d4	0.05	1.898953	0.1	1.456872	0.2	1.219527	0.5	1.133227	1	1.105304	2	1.060441
2-Fluorobiphenyl	0.05	1.871509	0.1	1.745974	0.2	1.715803	0.5	1.746926	1	1.804655	2	1.767909
Nitrobenzene-d5	0.05	0.3221161	0.1	0.2971334	0.2	0.3109214	0.5	0.3315564	1	0.354045	2	0.3710882
p-Terphenyl-d14	0.05	0.9121883	0.1	0.8016411	0.2	0.7812163	0.5	0.8298477	1	0.8195709	2	0.8451837

INITIAL CALIBRATION DATA (Continued)

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
1,1-Biphenyl	5	1.981242	10	1.868409	20	1.675488	50	1.362331				
1,4-Dioxane	5	0.5865335	10	0.590427	20	0.6012424	50	0.564956				
2-Methylnaphthalene	5	0.7824329	10	0.7544057	20	0.7015818	50	0.6131658				
Acenaphthene	5	1.639656	10	1.549089	20	1.486746	50	1.291636				
Acenaphthylene	5	2.625941	10	2.512894	20	2.364918	50	2.015169				
Anthracene	5	1.468923	10	1.360463	20	1.283012	50	1.082748				
Benzo(a)anthracene	5	1.389026	10	1.335421	20	1.311813	50	1.249272				
Benzo(a)pyrene	5	1.443764	10	1.360494	20	1.316122	50	1.102668				
Benzo(b)fluoranthene	5	1.595942	10	1.479109	20	1.453281	50	1.260227				
Benzo(g,h,i)perylene	5	1.407151	10	1.34653	20	1.16364	50	0.9873799				
Benzo(k)fluoranthene	5	1.439129	10	1.340538	20	1.259451	50	0.9105457				
Chrysene	5	1.306465	10	1.218235	20	1.146982	50	1.061658				
Dibenzo(a,h)Anthracene	5	1.304718	10	1.261481	20	1.147689	50	0.9215663				
Fluoranthene	5	1.642038	10	1.543785	20	1.458767	50	1.242157				
Fluorene	5	1.794845	10	1.744842	20	1.654431	50	1.422828				
Indeno(1,2,3-cd)Pyrene	5	1.372672	10	1.266072	20	1.230969	50	1.049076				
Naphthalene	5	1.214147	10	1.172129	20	1.085153	50	0.9262321				
Phenanthrene	5	1.423063	10	1.321859	20	1.235004	50	1.050947				
Pyrene	5	1.383165	10	1.325236	20	1.27658	50	1.202279				
1,2-Dichlorobenzene-d4	5	1.039265	10	0.9989269	20	0.9646293	50	0.86096				
2-Fluorobiphenyl	5	1.689372	10	1.624628	20	1.539025	50	1.398096				
Nitrobenzene-d5	5	0.3692486	10	0.3686919	20	0.3624329	50	0.3359607				
p-Terphenyl-d14	5	0.802331	10	0.7776492	20	0.7531066	50	0.7125288				

INITIAL CALIBRATION DATA (Continued)

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Instrument: SVOAMS4

Matrix: Solid

Calibration Date: 06/25/13 13:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	1.997637	7.32362	13.53111	4.689891E-02			20	
1,4-Dioxane	0.5647109	7.016358	2.955	0.1789459			20	
2-Methylnaphthalene	0.7737995	9.19333	12.394	6.031274E-02			20	
Acenaphthene	1.621686	8.928925	14.906	0.0965671			CCC (30)	
Acenaphthylene	2.532435	9.026941	14.478	9.001744E-02			20	
Anthracene	1.407701	10.04281	18.513	8.910234E-02			20	
Benzo(a)anthracene	1.384697	4.870889	24.63	5.171097E-02			20	
Benzo(a)pyrene	1.392409	10.1434	27.659	7.560403E-02			CCC (30)	
Benzo(b)fluoranthene	1.583523	12.12247	27.016	0.1032552			20	
Benzo(g,h,i)perylene	1.365721	13.62042	30.175	9.270954E-02			20	
Benzo(k)fluoranthene	1.50027	10.12509	27.06778	5.726792E-02			20	
Chrysene	1.316018	11.11545	24.708	7.516842E-02			20	
Dibenzo(a,h)Anthracene	1.245842	11.85497	29.801	8.123701E-02			20	
Fluoranthene	1.6344	10.9026	21.221	6.151283E-02			CCC (30)	
Fluorene	1.765071	8.148338	16.137	8.372662E-02			20	
Indeno(1,2,3-cd)Pyrene	1.300716	9.785769	29.744	8.127758E-02			20	
Naphthalene	1.196117	9.511651	10.771	8.230437E-02			20	
Phenanthrene	1.408333	11.89247	18.396	8.263843E-02			20	
Pyrene	1.369584	6.358248	21.732	7.045578E-02			20	
1,2-Dichlorobenzene-d4	1.047785	10.48857	8.28875	7.596728E-02			20	
2-Fluorobiphenyl	1.69039	8.165657	13.325	7.373046E-02			20	
Nitrobenzene-d5	0.3423195	7.7793	9.156	0.106144			20	
p-Terphenyl-d14	0.8035264	6.751556	22.273	5.114995E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Calibration: 1306027

Laboratory ID: CWF0276-SCV1

Sequence: CWF0276

Standard ID: 3F24062

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
1,1-Biphenyl	5.000	4.90	-2.0	30.00
1,2-Dichlorobenzene-d4	5.000	4.71	-5.8	30.00
2-Fluorobiphenyl	5.000	4.69	-6.2	30.00
2-Methylnaphthalene	5.000	5.15	3.0	30.00
Acenaphthene	5.000	5.06	1.2	30.00
Acenaphthylene	5.000	4.81	-3.8	30.00
Anthracene	5.000	5.08	1.6	30.00
Benzo(a)anthracene	5.000	4.87	-2.6	30.00
Benzo(a)pyrene	5.000	4.58	-8.4	30.00
Benzo(b)fluoranthene	5.000	4.48	-10.4	30.00
Benzo(g,h,i)perylene	5.000	4.89	-2.2	30.00
Benzo(k)fluoranthene	5.000	4.75	-5.0	30.00
Chrysene	5.000	4.76	-4.8	30.00
Dibenzo(a,h)Anthracene	5.000	5.31	6.2	30.00
Fluoranthene	5.000	5.00	0.0	30.00
Fluorene	5.000	5.12	2.4	30.00
Indeno(1,2,3-cd)Pyrene	5.000	4.95	-1.0	30.00
Naphthalene	5.000	5.05	1.0	30.00
Nitrobenzene-d5	5.000	5.21	4.2	30.00
Phenanthrene	5.000	5.02	0.4	30.00
p-Terphenyl-d14	5.000	4.77	-4.6	30.00
Pyrene	5.000	4.86	-2.8	30.00

* Values outside of QC limits

Method: Q:\SVOA\MS4\0613\062513\SIM44AW.agm Calibrated: 06/25/2013

ID#	Compound Name	RF(1) Internal Standard	RF(2)	RF(3)	RF(4)	RF(5)	RF(6)	RF(7)	RF(8)	RF(9)	RF(10)	Mean RF	%RSD
1	1,4-Dichlorobenzene-D4	--	1.220	1.133	1.105	1.060	1.039	0.999	0.965	0.861	--	1.048	10.489
2	Naphthalene-D10	0.297	0.311	0.332	0.354	0.371	0.369	0.369	0.362	0.336	0.322	0.342	7.779
3	Acenaphthene-D10	1.746	1.716	1.805	1.785	1.689	1.689	1.625	1.539	1.398	1.872	1.690	8.166
4	Phenanthrene-D10	--	0.038	0.046	0.048	0.056	0.049	0.045	0.040	0.039	--	0.045	13.348
5	Chrysene-D12	0.802	0.781	0.830	0.820	0.845	0.802	0.778	0.753	0.713	0.912	0.804	6.752
6	Perylene-D12												
7	1,2-Dichlorobenzene-D4 (Surr)												
8	Nitrobenzene-D5 (Surr)												
9	2-Fluorobiphenyl (Surr)												
10	2,4,6-Trichlorophenol (Surr)												
11	Terphenyl-D14 (Surr)												
12	1,4-Dioxane-d8 (IS)												
13	1,4-Dioxane-d8 (Surr)	0.524	0.527	0.526	0.546	0.556	0.549	0.566	0.559	0.547	0.558	0.546	2.788
14	1,4-Dioxane (IS1)	0.551	0.515	0.571	0.598	0.599	0.587	0.590	0.601	0.565	0.488	0.567	6.782
15	1,4-Dioxane (IS7)	1.018	0.979	1.084	1.095	1.077	1.068	1.044	1.075	1.033	0.874	1.035	6.447
16	Pyridine	1.773	1.464	1.583	1.604	1.631	1.716	1.693	1.722	1.657	2.297	1.714	12.980
17	Naphthalene	1.245	1.214	1.255	1.277	1.259	1.214	1.172	1.085	0.926	1.314	1.196	9.512
18	2-Methylnaphthalene	0.804	0.776	0.802	0.820	0.821	0.782	0.754	0.702	0.613	0.863	0.774	9.193
19	1-Methylnaphthalene	0.771	0.787	0.794	0.799	0.777	0.777	0.747	0.705	0.600	0.837	0.763	8.827
20	Biphenyl	2.006	2.022	2.068	2.121	2.101	1.981	1.868	1.675	--	2.136	1.998	7.324
21	Dimethylphthalate	1.750	1.659	1.774	1.835	1.891	1.815	1.754	1.718	1.514	1.843	1.755	6.163
22	Acenaphthylene	2.527	2.409	2.645	2.756	2.788	2.626	2.513	2.365	2.015	2.680	2.532	9.027
23	Acenaphthene	1.726	1.635	1.682	1.742	1.699	1.640	1.549	1.487	1.292	1.766	1.622	8.929
24	Fluorene	1.807	1.744	1.819	1.861	1.857	1.795	1.745	1.654	1.423	1.946	1.765	8.148
25	Diethylphthalate	--	--	3.955	3.181	2.597	2.233	2.047	1.992	1.824	--	2.547	30.264
26	Hexachlorobenzene	0.251	0.219	0.228	0.230	0.228	0.202	0.191	0.169	0.145	0.246	0.211	16.167
27	Pentachlorotirobenzene	0.067	0.063	0.080	0.089	0.097	0.093	0.090	0.087	0.079	--	0.083	14.000
28	Pentachlorophenol	0.063	0.068	0.094	0.113	0.143	0.159	0.165	0.171	--	--	0.122	35.754
29	Phenanthrene	1.496	1.443	1.466	1.506	1.491	1.423	1.322	1.235	1.051	1.650	1.408	11.892
30	Anthracene	1.456	1.387	1.468	1.483	1.500	1.469	1.360	1.283	1.083	1.587	1.408	10.043
31	Di-n-butylphthalate	1.922	1.771	1.876	1.975	2.037	1.974	1.904	1.796	1.534	2.278	1.907	10.113
32	Fluoranthene	1.708	1.653	1.729	1.762	1.751	1.642	1.544	1.459	1.242	1.854	1.634	10.903
33	Pyrene	1.381	1.335	1.406	1.445	1.445	1.383	1.325	1.277	1.202	1.489	1.370	6.358
34	Butylbenzylphthalate	0.555	0.532	0.623	0.694	0.736	0.750	0.750	0.724	0.705	0.650	0.672	11.796
35	Benz[a]anthracene	1.430	1.373	1.434	1.432	1.433	1.389	1.335	1.312	1.249	1.460	1.385	4.871
36	Chrysene	1.421	1.333	1.359	1.384	1.347	1.306	1.218	1.147	1.062	1.582	1.316	11.115
37	Bis(2-ethylhexyl)phthalate	0.797	0.777	0.911	1.003	1.110	1.116	1.098	1.059	1.003	0.926	0.980	12.674
38	Di-n-octylphthalate	1.365	1.418	1.582	1.901	2.013	2.082	2.017	1.933	1.594	1.550	1.745	15.494
39	Benzo[b]fluoranthene	1.620	1.590	1.565	1.643	1.605	1.596	1.479	1.453	1.260	2.023	1.584	12.122
40	Benzo[k]fluoranthene	1.494	1.505	1.540	1.634	1.510	1.439	1.341	1.259	1.179	1.779	1.500	10.125
41	Benzo[a]pyrene	1.340	1.321	1.421	1.517	1.475	1.444	1.360	1.316	1.103	1.628	1.392	10.143
42	Indeno[1,2,3-cd]pyrene	1.291	1.226	1.320	1.368	1.340	1.373	1.266	1.231	1.049	1.544	1.301	9.786
43	Dibenz[a,h]anthracene	1.263	1.186	1.258	1.304	1.309	1.305	1.261	1.148	0.922	1.504	1.246	11.855
44	Benzo[ghi]perylene	1.409	1.354	1.400	1.456	1.439	1.407	1.347	1.164	0.987	1.695	1.366	13.620

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 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 13
 Injection Volume : 1

Internal Standard

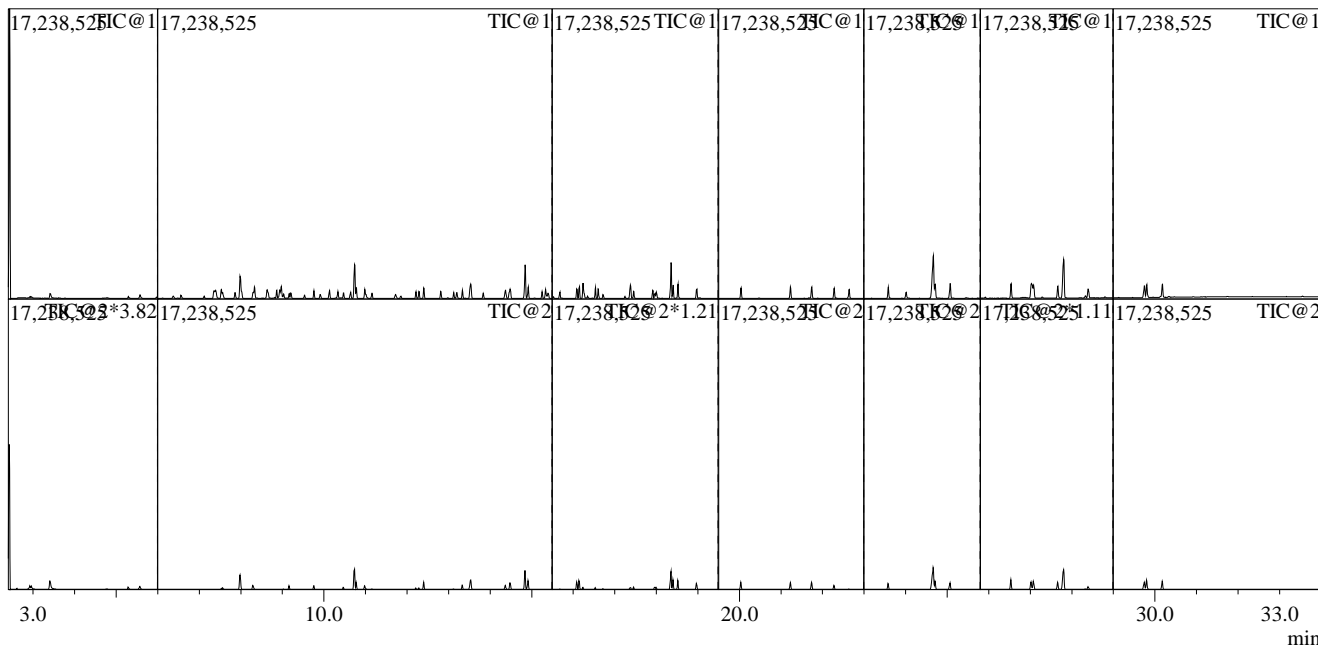
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	455605	20.0000	ng/uL	97.49
2	Naphthalene-D10	10.73	136	1786619	20.0000	ng/uL	98.40
3	Acenaphthene-D10	14.84	164	764172	20.0000	ng/uL	90.81
4	Phenanthrene-D10	18.35	188	1471000	20.0000	ng/uL	91.30
5	Chrysene-D12	24.66	240	1897796	20.0000	ng/uL	92.88
6	Perylene-D12	27.80	264	1886848	20.0000	ng/uL	89.72
12	1,4-Dioxane-d8 (IS)	2.92	64	63850	5.0000	ng/uL	98.06

Surrogate

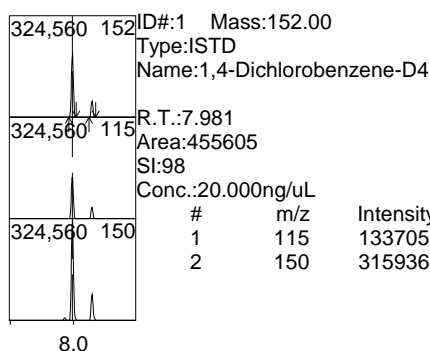
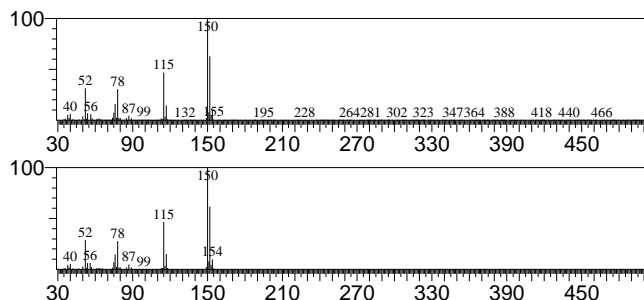
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	112374	4.71	ng/uL	188.3200
8	Nitrobenzene-D5 (Surr)	9.16	82	159382	5.21	ng/uL	208.4800
9	2-Fluorobiphenyl (Surr)	13.33	172	302639	4.69	ng/uL	187.4300
10	2,4,6-Tribromophenol (Surr)	16.71	330	13833	4.20	ng/uL	111.9500
11	Terphenyl-D14 (Surr)	22.28	244	363496	4.77	ng/uL	190.7000
13	1,4-Dioxane-d8 (Surr)	2.92	64	63850	5.13	ng/uL	102.6900

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67277	5.2131	ng/uL	95
15	1,4-Dioxane (IS7)	2.96	88	67286	5.0933	ng/uL	94
16	Pyridine	3.41	79	191673	4.9087	ng/uL	95
17	Naphthalene	10.78	128	539310	5.0473	ng/uL	98
18	2-Methylnaphthalene	12.40	142	355784	5.1470	ng/uL	99
19	1-Methylnaphthalene	12.62	142	3899	0.0572	ng/uL	91
20	Biphenyl	13.54	154	373649	4.8954	ng/uL	87
21	Dimethylphthalate	14.37	163	335650	5.0049	ng/uL	60
22	Acenaphthylene	14.48	152	465525	4.8111	ng/uL	83
23	Acenaphthene	14.91	153	313542	5.0602	ng/uL	99
24	Fluorene	16.14	166	345359	5.1209	ng/uL	97
25	Diethylphthalate	16.08	149	427539	5.1359	ng/uL	98
26	Hexachlorobenzene	17.45	284	65979	5.1504	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	32626	5.3649	ng/uL	95
28	Pentachlorophenol	17.96	266	57811	4.8201	ng/uL	93
29	Phenanthrene	18.40	178	520181	5.0219	ng/uL	92
30	Anthracene	18.52	178	525731	5.0777	ng/uL	97
31	Di-n-butylphthalate	20.03	149	711340	5.0724	ng/uL	98
32	Fluoranthene	21.22	202	601540	5.0041	ng/uL	98
33	Pyrene	21.73	202	631342	4.8580	ng/uL	98
34	Butylbenzylphthalate	23.58	149	341512	5.3574	ng/uL	98
35	Benzo[a]anthracene	24.63	228	640443	4.8742	ng/uL	98
36	Chrysene	24.71	228	594443	4.7602	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	524196	5.6372	ng/uL	98
38	Di-n-octylphthalate	26.53	149	921214	5.5944	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	668865	4.4772	ng/uL	96
40	Benzo[k]fluoranthene	27.08	252	672247	4.7496	ng/uL	71
41	Benzo[a]pyrene	27.66	252	602134	4.5837	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	607519	4.9507	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	624243	5.3111	ng/uL	67
44	Benzo[ghi]perylene	30.18	276	629562	4.8862	ng/uL	98



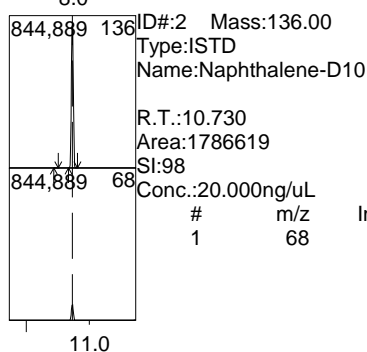
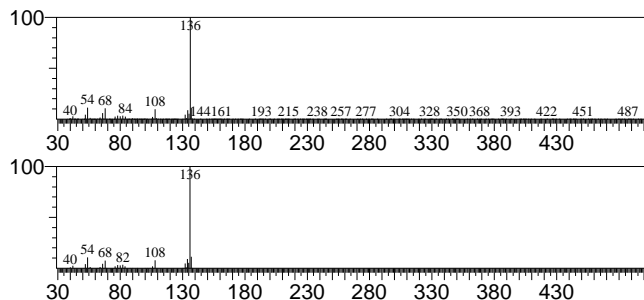
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ID#:1 Mass:152.00
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 Name:1,4-Dichlorobenzene-D4
 R.T.:7.981
 Area:455605
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	115	133705	64.82	64.46
2	150	315936	153.16	153.04

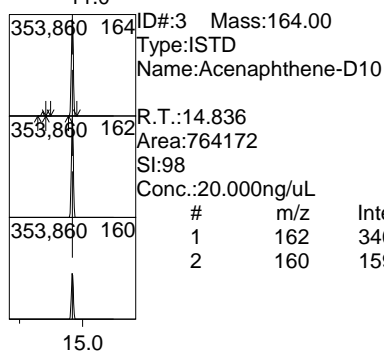
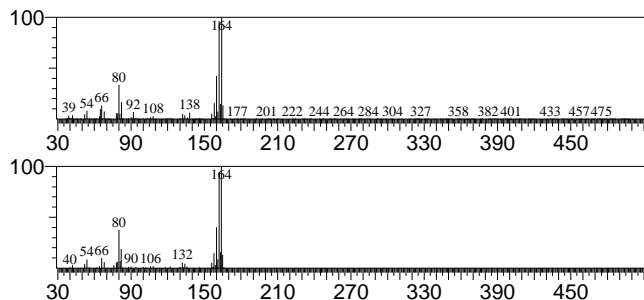
ID#:2 R.Time:10.7(Scan#:2001)



ID#:2 Mass:136.00
 Type:ISTD
 Name:Naphthalene-D10
 R.T.:10.730
 Area:1786619
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	68	89918	10.73	10.41

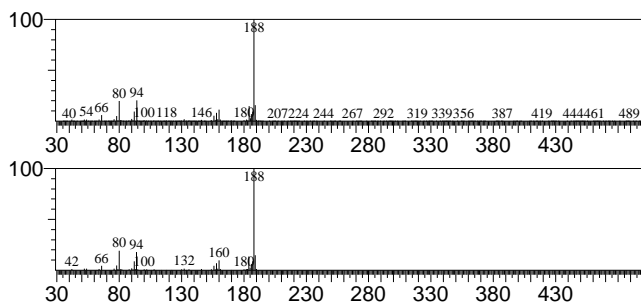
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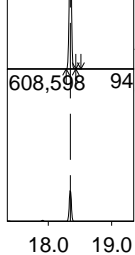
ID#:3 Mass:164.00
 Type:ISTD
 Name:Acenaphthene-D10
 R.T.:14.836
 Area:764172
 SI:98
 Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	162	340694	98.63	98.16
2	160	159795	46.26	45.78

ID#:4 R.Time:18.3(Scan#:3777)



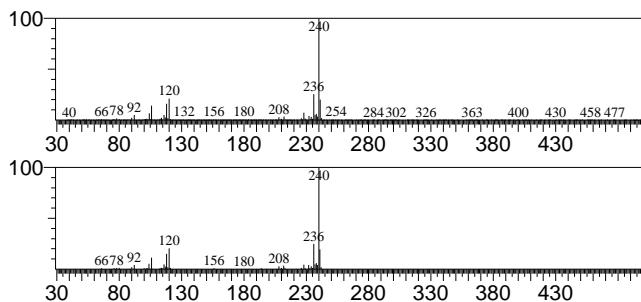
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Type:ISTD
Name:Phenanthrene-D10



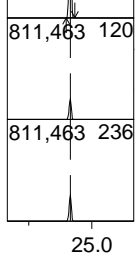
R.T.:18.348
Area:1471000
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	94	121210	20.81	20.35

ID#5 R.Time:24.7(Scan#:5271)



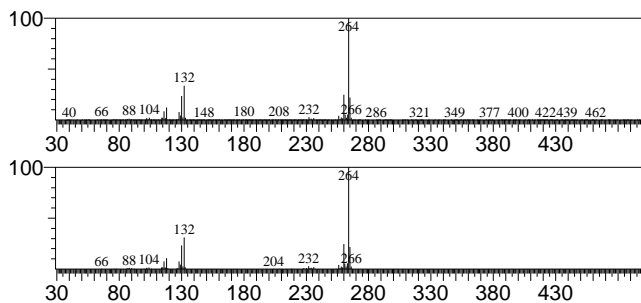
ID#5 Mass:240.00
Type:ISTD
Name:Chrysene-D12



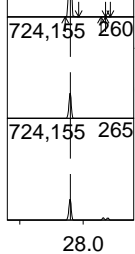
R.T.:24.659
Area:1897796
SI:98
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	120	164857	21.26	21.49
2	236	206021	26.57	26.97

ID#6 R.Time:27.8(Scan#:6025)



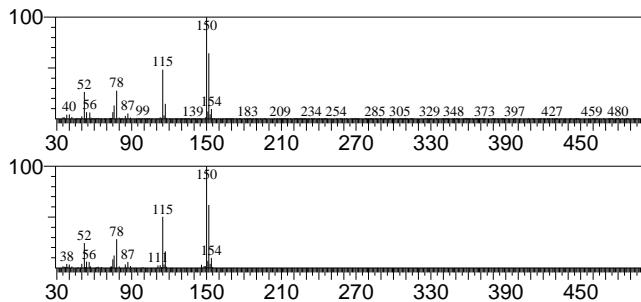
ID#6 Mass:264.00
Type:ISTD
Name:Perylene-D12



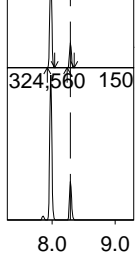
R.T.:27.797
Area:1886848
SI:99
Conc.:20.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	260	180289	26.22	26.45
2	265	146015	21.24	21.28

ID#7 R.Time:8.3(Scan#:1415)



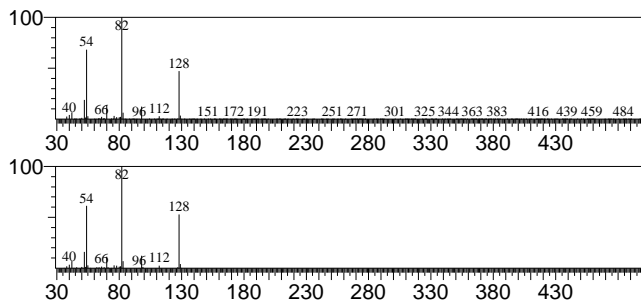
ID#7 Mass:152.00
Type:Surrogate/SMC
Name:1,2-Dichlorobenzene-D4 (Surr)



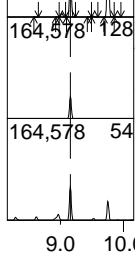
R.T.:8.291
Area:112374
SI:97
Conc.:4.708ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	85593	156.80	156.32

ID#8 R.Time:9.2(Scan#:1623)



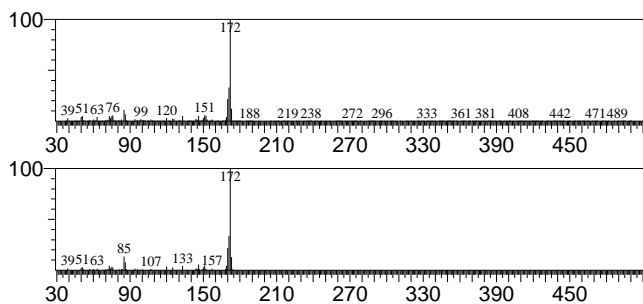
ID#8 Mass:82.00
Type:Surrogate/SMC
Name:Nitrobenzene-D5 (Surr)



R.T.:9.160
Area:159382
SI:97
Conc.:5.212ng/uL

#	m/z	Intensity	Ratio	Setting
1	128	38196	47.48	46.62
2	54	57676	71.69	72.11

ID#:9 R.Time:13.3(Scan#:2623)

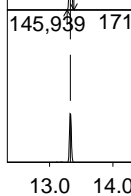


ID#9 Mass:172.00
Type:Surrogate/SMC
Name:2-Fluorobiphenyl (Surr)

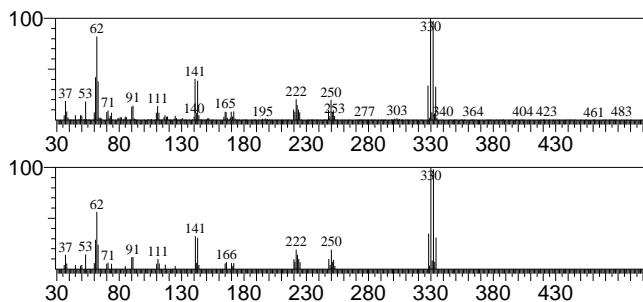
R.T.:13.329
Area:302639
SI:97

Conc.:4.686ng/uL

#	m/z	Intensity	Ratio	Setting
1	171	48995	33.59	33.45



ID#:10 R.Time:16.7(Scan#:3415)

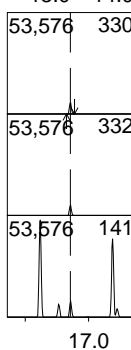


ID#10 Mass:330.00
Type:Surrogate/SMC
Name:2,4,6-Tribromophenol (Surr)

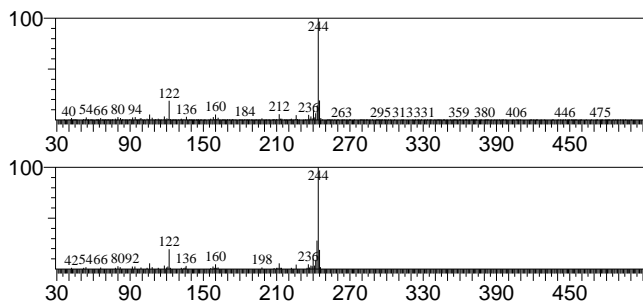
R.T.:16.713
Area:13833
SI:96

Conc.:4.198ng/uL

#	m/z	Intensity	Ratio	Setting
1	332	5525	87.30	87.12
2	141	8789	138.87	115.50



ID#:11 R.Time:22.3(Scan#:4699)

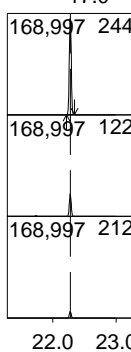


ID#11 Mass:244.00
Type:Surrogate/SMC
Name:Terphenyl-D14 (Surr)

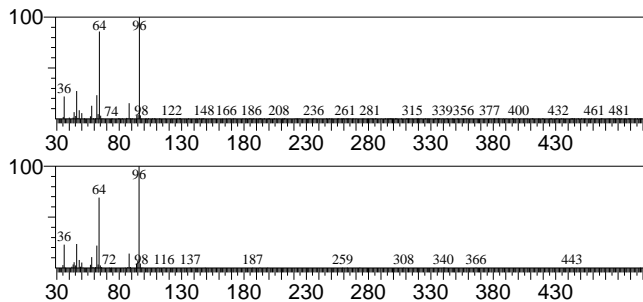
R.T.:22.276
Area:363496
SI:97

Conc.:4.767ng/uL

#	m/z	Intensity	Ratio	Setting
1	122	36356	21.89	22.00
2	212	11247	6.77	6.96



ID#:12 R.Time:2.9(Scan#:125)

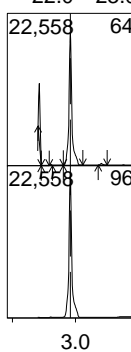


ID#12 Mass:64.00
Type:ISTD
Name:1,4-Dioxane-d8 (IS)

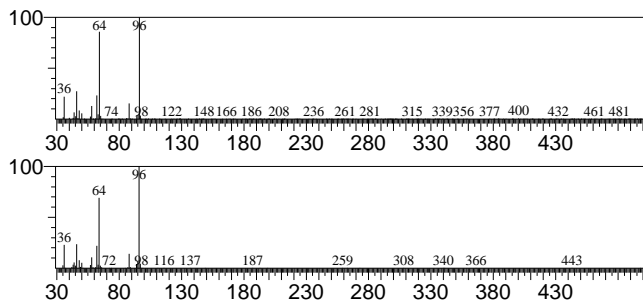
R.T.:2.918
Area:63850
SI:95

Conc.:5.000ng/uL

#	m/z	Intensity	Ratio	Setting
1	96	22195	108.96	107.23



ID#:13 R.Time:2.9(Scan#:125)

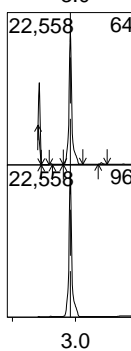


ID#13 Mass:64.00
Type:Surrogate/SMC
Name:1,4-Dioxane-d8 (Surr)

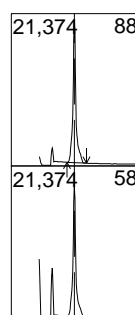
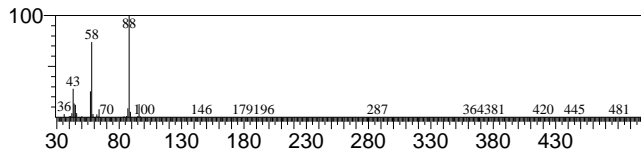
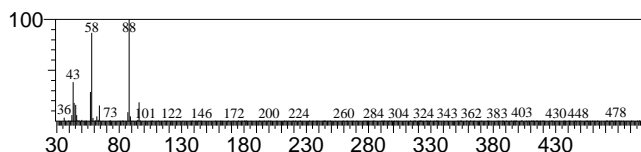
R.T.:2.918
Area:63850
SI:95

Conc.:5.134ng/uL

#	m/z	Intensity	Ratio	Setting
1	96	22195	108.96	107.23



ID#:14 R.Time:3.0(Scan#:135)



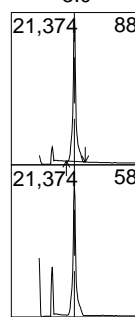
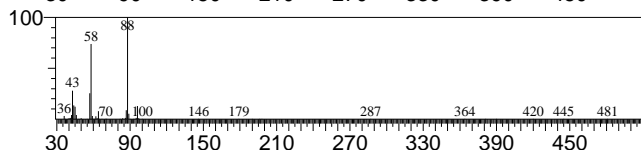
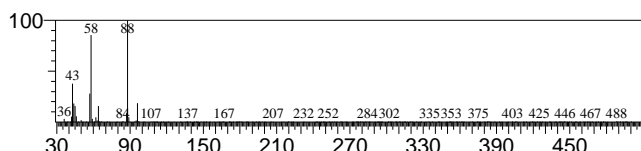
ID#:14 Mass:88.00
Type:Target
Name:1,4-Dioxane (IS1)

R.T.:2.959
Area:67277
SI:95

Conc.:5.213ng/uL

#	m/z	Intensity	Ratio	Setting
1	58	18968	91.92	92.56

ID#:15 R.Time:3.0(Scan#:135)



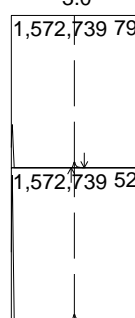
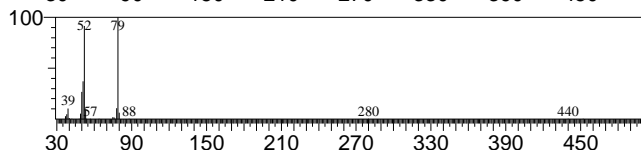
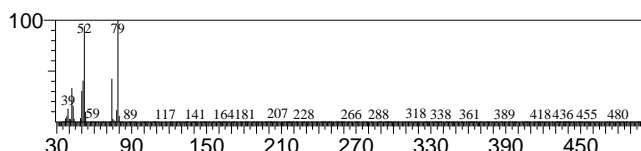
ID#:15 Mass:88.00
Type:Target
Name:1,4-Dioxane (IS7)

R.T.:2.959
Area:67286
SI:94

Conc.:5.093ng/uL

#	m/z	Intensity	Ratio	Setting
1	58	18967	91.91	92.56

ID#:16 R.Time:3.4(Scan#:243)



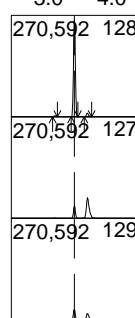
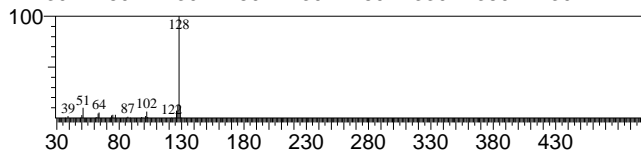
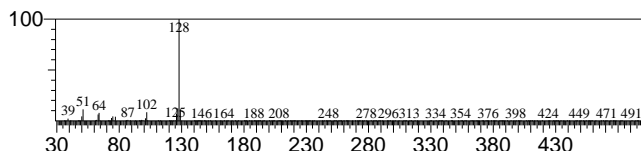
ID#:16 Mass:79.00
Type:Target
Name:Pyridine

R.T.:3.408
Area:191673
SI:95

Conc.:4.909ng/uL

#	m/z	Intensity	Ratio	Setting
1	52	63549	98.71	98.89

ID#:17 R.Time:10.8(Scan#:2011)



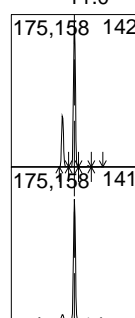
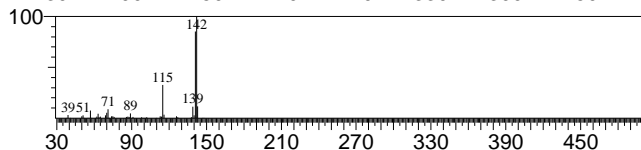
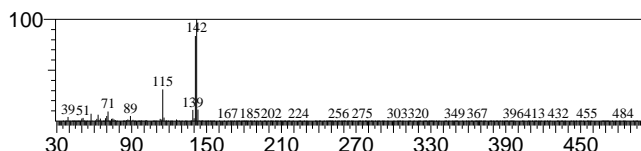
ID#:17 Mass:128.00
Type:Target
Name:Naphthalene

R.T.:10.776
Area:539310
SI:98

Conc.:5.047ng/uL

#	m/z	Intensity	Ratio	Setting
1	127	34767	12.59	12.47
2	129	30125	10.91	10.69

ID#:18 R.Time:12.4(Scan#:2401)



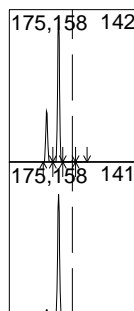
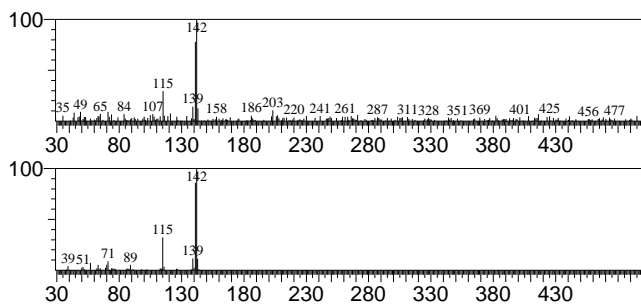
ID#:18 Mass:142.00
Type:Target
Name:2-Methylnaphthalene

R.T.:12.400
Area:355784
SI:99

Conc.:5.147ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	146590	82.91	83.48

ID#:19 R.Time:12.6(Scan#:2453)



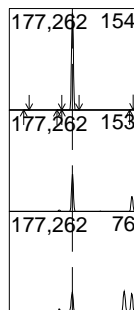
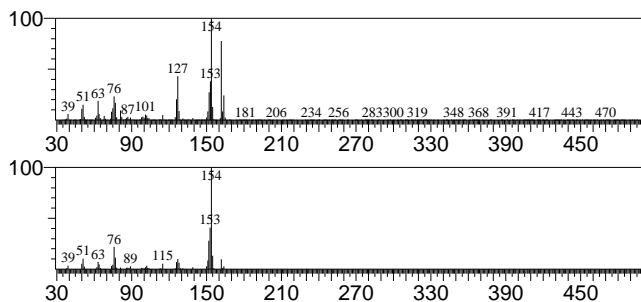
ID#:19 Mass:142.00
Type:Target
Name:1-Methylnaphthalene

R.T.:12.618
Area:3899
SI:91

Conc.:0.057ng/uL

#	m/z	Intensity	Ratio	Setting
1	141	1267	87.99	86.49

ID#:20 R.Time:13.5(Scan#:2673)



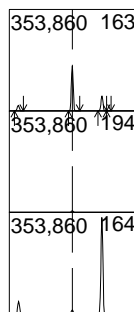
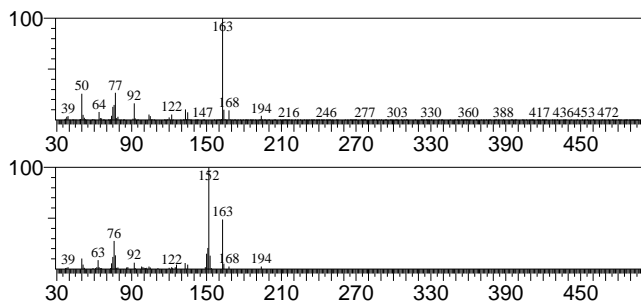
ID#:20 Mass:154.00
Type:Target
Name:Biphenyl

R.T.:13.537
Area:373649
SI:87

Conc.:4.895ng/uL

#	m/z	Intensity	Ratio	Setting
1	153	66987	38.05	38.30
2	76	37920	21.54	20.53

ID#:21 R.Time:14.4(Scan#:2873)



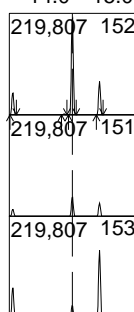
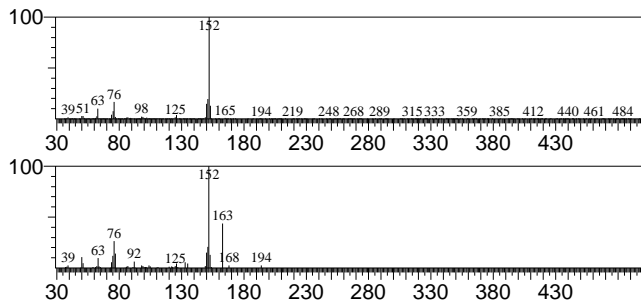
ID#:21 Mass:163.00
Type:Target
Name:Dimethylphthalate

R.T.:14.367
Area:335650
SI:60

Conc.:5.005ng/uL

#	m/z	Intensity	Ratio	Setting
1	194	6550	3.94	4.01
2	164	16292	9.80	9.62

ID#:22 R.Time:14.5(Scan#:2901)



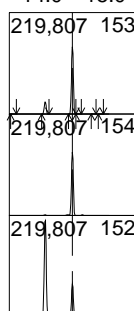
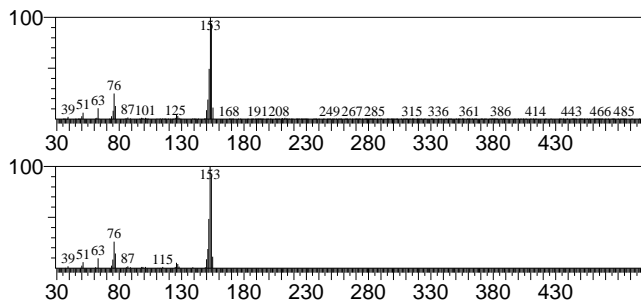
ID#:22 Mass:152.00
Type:Target
Name:Acenaphthylene

R.T.:14.480
Area:465525
SI:83

Conc.:4.811ng/uL

#	m/z	Intensity	Ratio	Setting
1	151	42873	19.72	19.73
2	153	26894	12.37	12.55

ID#:23 R.Time:14.9(Scan#:3003)



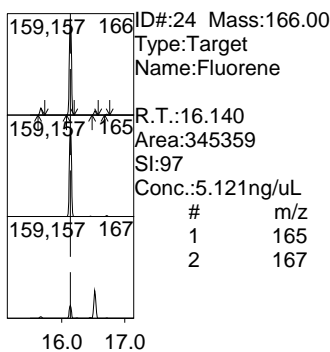
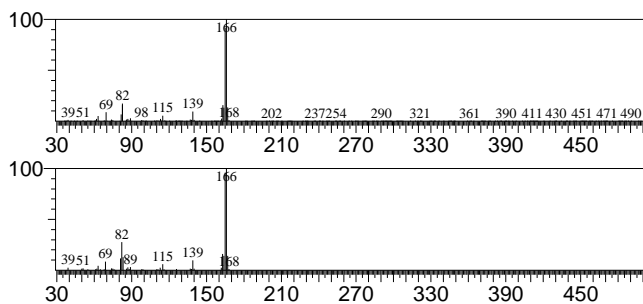
ID#:23 Mass:153.00
Type:Target
Name:Acenaphthene

R.T.:14.909
Area:313542
SI:99

Conc.:5.060ng/uL

#	m/z	Intensity	Ratio	Setting
1	154	145653	93.90	94.24
2	152	76421	49.27	48.84

ID#:24 R.Time:16.1(Scan#:3287)

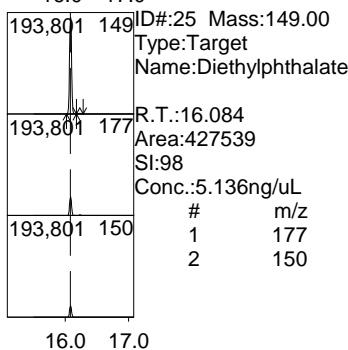
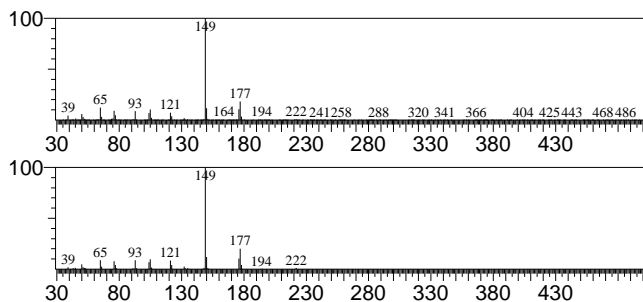


ID#:24 Mass:166.00
Type:Target
Name:Fluorene

R.T.:16.140
Area:345359
SI:97
Conc.:5.121ng/uL

#	m/z	Intensity	Ratio	Setting
1	165	148459	91.95	91.79
2	167	21537	13.34	13.06

ID#:25 R.Time:16.1(Scan#:3275)

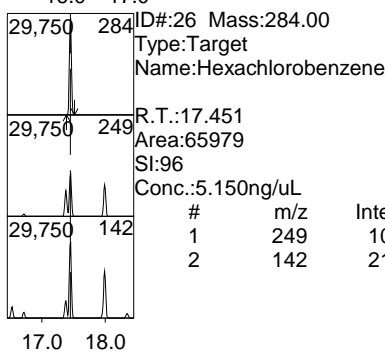
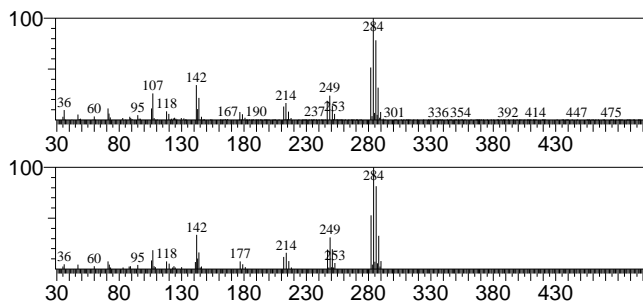


ID#:25 Mass:149.00
Type:Target
Name:Diethylphthalate

R.T.:16.084
Area:427539
SI:98
Conc.:5.136ng/uL

#	m/z	Intensity	Ratio	Setting
1	177	37198	19.02	18.98
2	150	22685	11.60	11.38

ID#:26 R.Time:17.5(Scan#:3579)

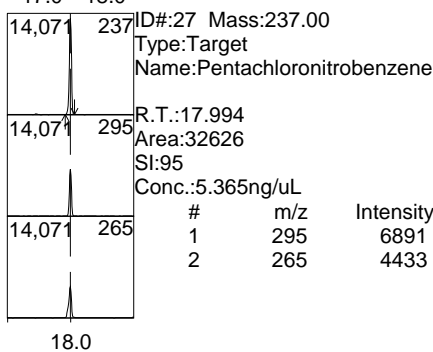
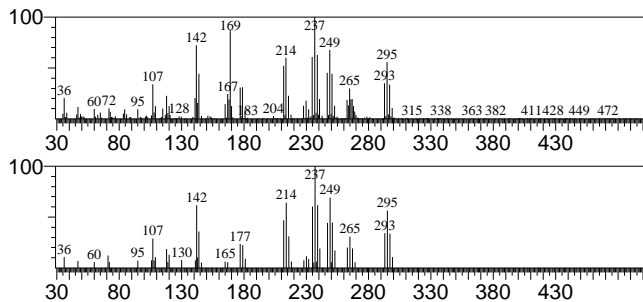


ID#:26 Mass:284.00
Type:Target
Name:Hexachlorobenzene

R.T.:17.451
Area:65979
SI:96
Conc.:5.150ng/uL

#	m/z	Intensity	Ratio	Setting
1	249	10751	36.00	34.27
2	142	21995	73.66	65.30

ID#:27 R.Time:18.0(Scan#:3699)

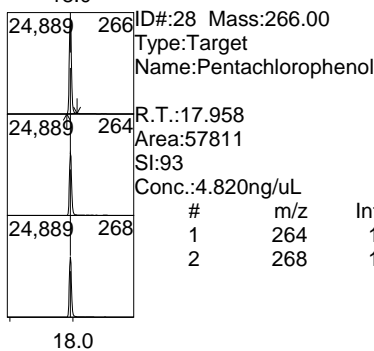
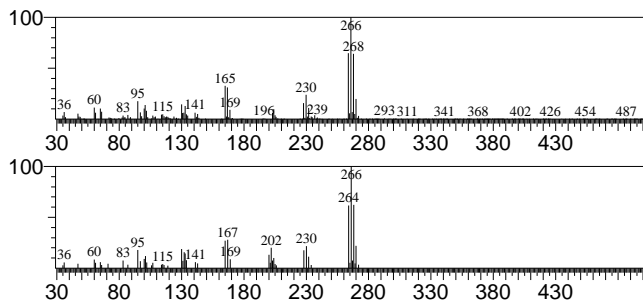


ID#:27 Mass:237.00
Type:Target
Name:Pentachloronitrobenzene

R.T.:17.994
Area:32626
SI:95
Conc.:5.365ng/uL

#	m/z	Intensity	Ratio	Setting
1	295	6891	49.09	49.15
2	265	4433	31.58	31.52

ID#:28 R.Time:18.0(Scan#:3691)

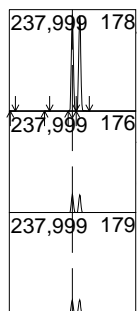
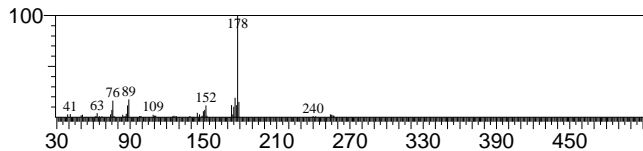
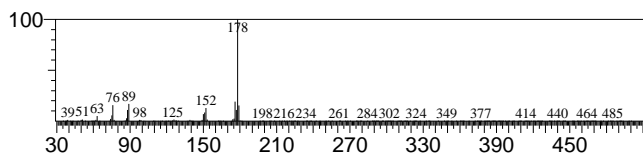


ID#:28 Mass:266.00
Type:Target
Name:Pentachlorophenol

R.T.:17.958
Area:57811
SI:93
Conc.:4.820ng/uL

#	m/z	Intensity	Ratio	Setting
1	264	15915	64.32	64.83
2	268	15503	62.66	63.34

ID#:29 R.Time:18.4(Scan#:3789)

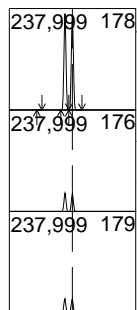
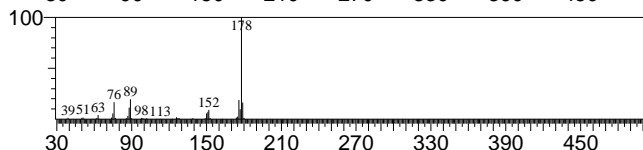
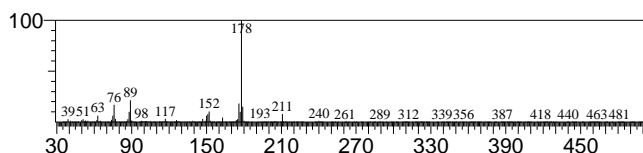


ID#:29 Mass:178.00
Type:Target
Name:Phenanthrene

R.T.:18.400
Area:520181
SI:92
Conc.:5.022ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	45813	19.00	19.01
2	179	36315	15.06	14.96

ID#:30 R.Time:18.5(Scan#:3815)

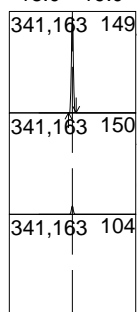
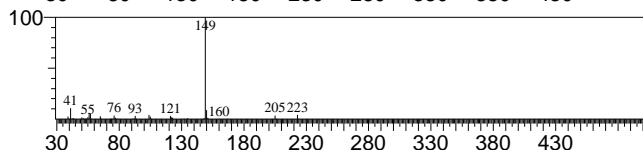
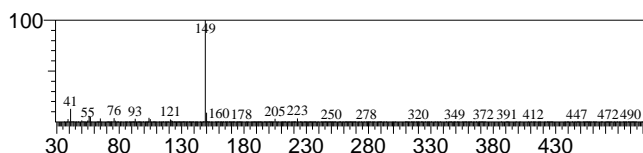


ID#:30 Mass:178.00
Type:Target
Name:Anthracene

R.T.:18.517
Area:525731
SI:97
Conc.:5.078ng/uL

#	m/z	Intensity	Ratio	Setting
1	176	44279	18.68	18.44
2	179	35796	15.10	14.91

ID#:31 R.Time:20.0(Scan#:4161)

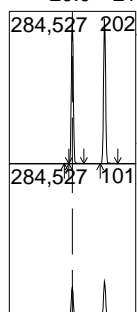
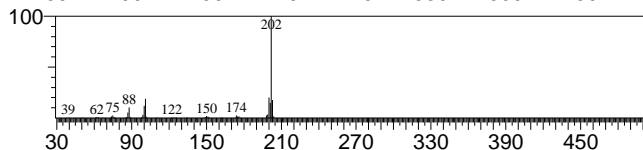
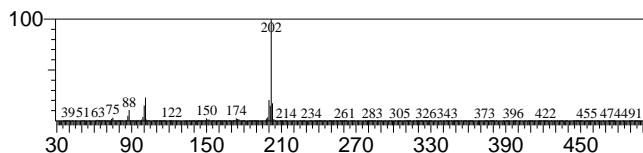


ID#:31 Mass:149.00
Type:Target
Name:Di-n-butylphthalate

R.T.:20.033
Area:711340
SI:98
Conc.:5.072ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	29932	8.80	8.85
2	104	13689	4.02	4.11

ID#:32 R.Time:21.2(Scan#:4447)

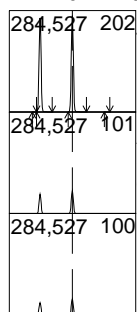
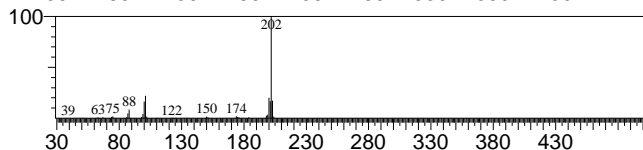
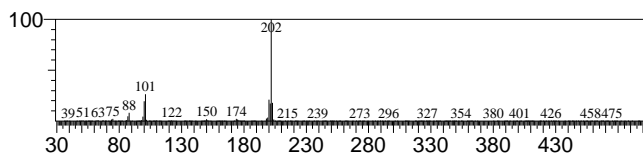


ID#:32 Mass:202.00
Type:Target
Name:Fluoranthene

R.T.:21.224
Area:601540
SI:98
Conc.:5.004ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	56091	20.40	19.90

ID#:33 R.Time:21.7(Scan#:4569)

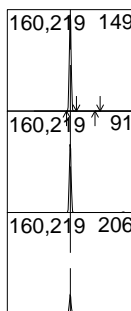
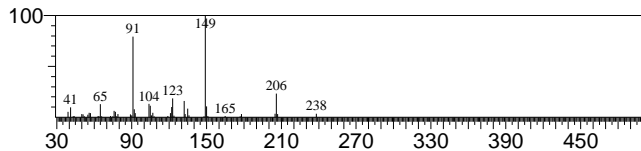
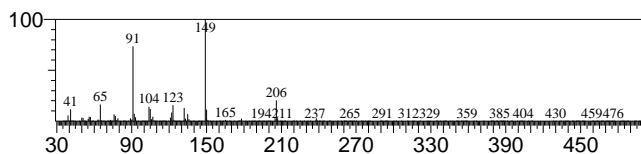


ID#:33 Mass:202.00
Type:Target
Name:Pyrene

R.T.:21.735
Area:631342
SI:98
Conc.:4.858ng/uL

#	m/z	Intensity	Ratio	Setting
1	101	65810	23.71	23.05
2	100	47516	17.12	16.73

ID#:34 R.Time:23.6(Scan#:5011)

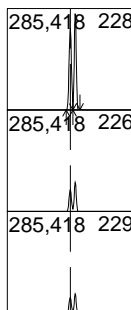
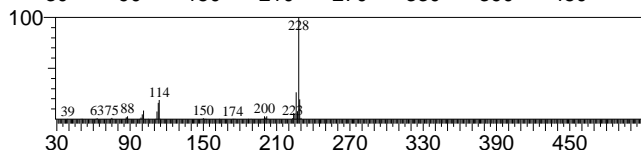
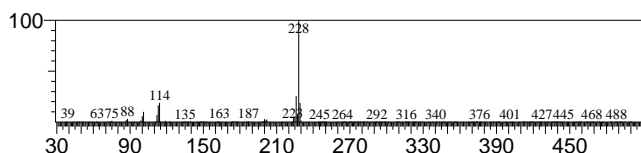


ID#:34 Mass:149.00
Type:Target
Name:Butylbenzylphthalate

R.T.:23.577
Area:341512
SI:98
Conc.:5.357ng/uL

#	m/z	Intensity	Ratio	Setting
1	91	111963	70.76	71.05
2	206	31210	19.73	20.07

ID#:35 R.Time:24.6(Scan#:5265)

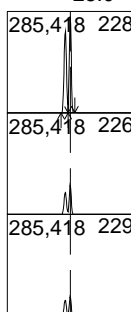
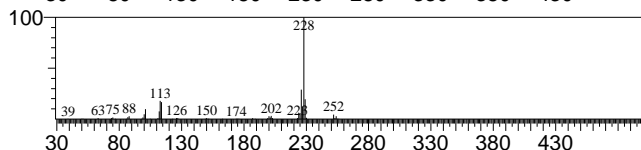
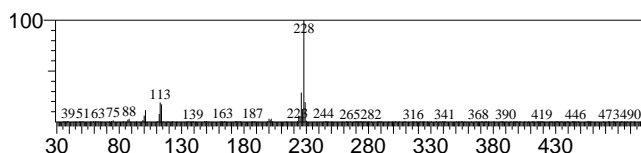


ID#:35 Mass:228.00
Type:Target
Name:Benzo[a]anthracene

R.T.:24.631
Area:640443
SI:98
Conc.:4.874ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	57958	26.51	26.61
2	229	42319	19.35	19.42

ID#:36 R.Time:24.7(Scan#:5283)

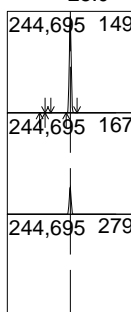
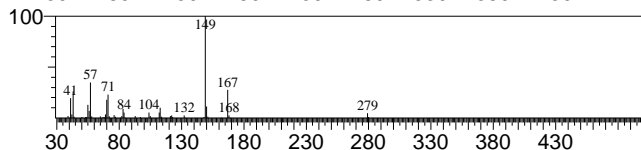
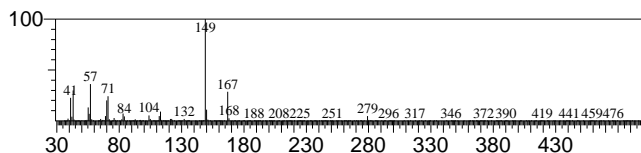


ID#:36 Mass:228.00
Type:Target
Name:Chrysene

R.T.:24.710
Area:594443
SI:97
Conc.:4.760ng/uL

#	m/z	Intensity	Ratio	Setting
1	226	83886	29.80	29.65
2	229	56026	19.90	19.80

ID#:37 R.Time:25.1(Scan#:5369)

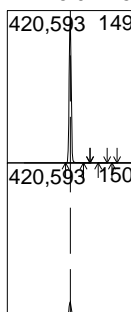
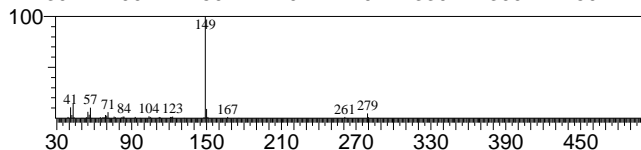
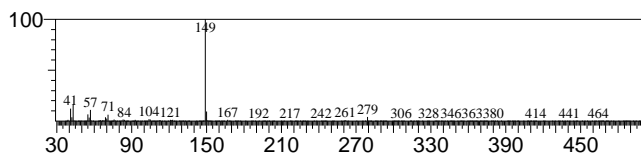


ID#:37 Mass:149.00
Type:Target
Name:Bis(2-ethylhexyl)phthalate

R.T.:25.066
Area:524196
SI:98
Conc.:5.637ng/uL

#	m/z	Intensity	Ratio	Setting
1	167	68580	28.32	29.06
2	279	9147	3.78	3.82

ID#:38 R.Time:26.5(Scan#:5721)

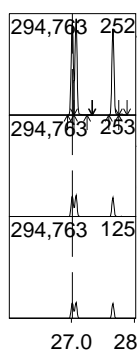
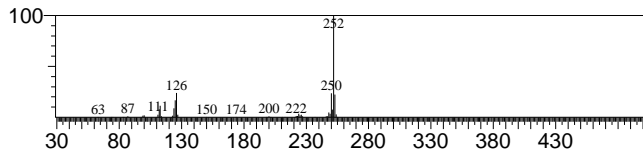
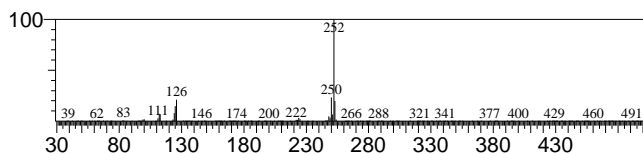


ID#:38 Mass:149.00
Type:Target
Name:Di-n-octylphthalate

R.T.:26.533
Area:921214
SI:98
Conc.:5.594ng/uL

#	m/z	Intensity	Ratio	Setting
1	150	38211	9.23	9.35

ID#:39 R.Time:27.0(Scan#:5837)

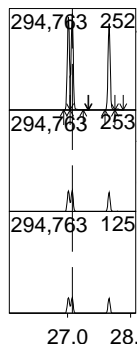
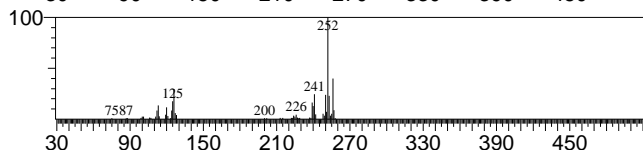
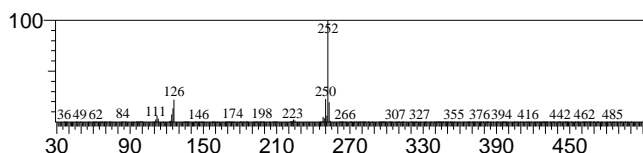


ID#:39 Mass:252.00
Type:Target
Name:Benzo[b]fluoranthene

R.T.:27.015
Area:668865
SI:96
Conc.:4.477ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	48270	20.19	20.47
2	125	34297	14.35	14.42

ID#:40 R.Time:27.1(Scan#:5851)

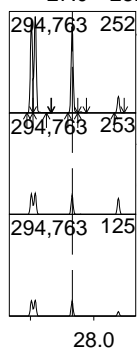
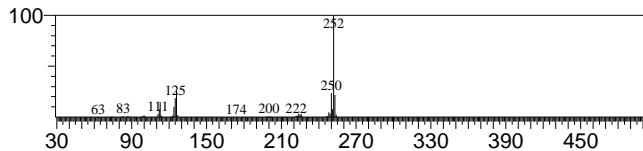
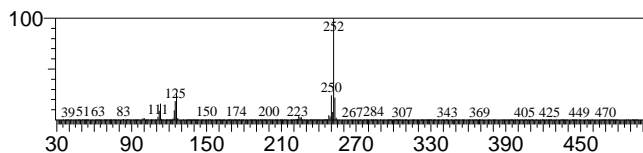


ID#:40 Mass:252.00
Type:Target
Name:Benzo[k]fluoranthene

R.T.:27.075
Area:672247
SI:71
Conc.:4.750ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	49652	19.91	20.25
2	125	34476	13.83	13.99

ID#:41 R.Time:27.7(Scan#:5991)

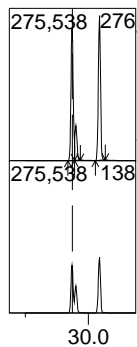
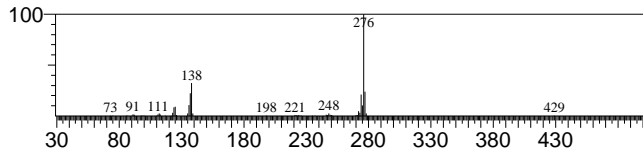
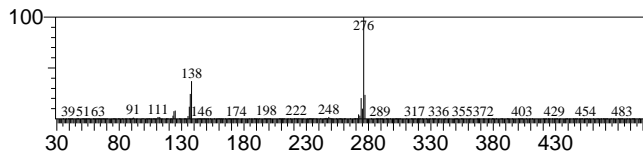


ID#:41 Mass:252.00
Type:Target
Name:Benzo[a]pyrene

R.T.:27.659
Area:602134
SI:99
Conc.:4.584ng/uL

#	m/z	Intensity	Ratio	Setting
1	253	55467	21.80	22.04
2	125	43545	17.12	17.40

ID#:42 R.Time:29.7(Scan#:6491)

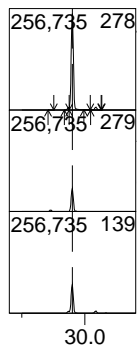
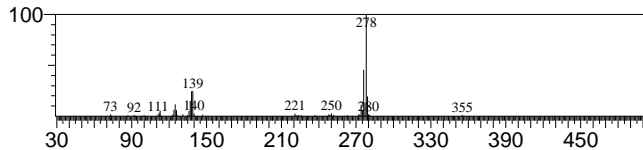
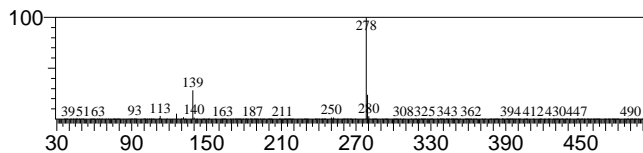


ID#:42 Mass:276.00
Type:Target
Name:Indeno[1,2,3-cd]pyrene

R.T.:29.742
Area:607519
SI:97
Conc.:4.951ng/uL

#	m/z	Intensity	Ratio	Setting
1	138	75072	33.23	33.11

ID#:43 R.Time:29.8(Scan#:6505)

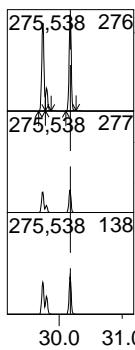
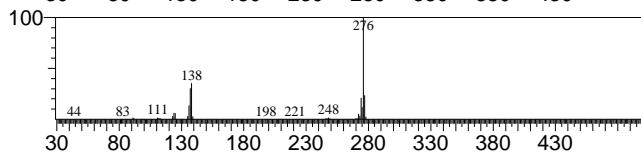
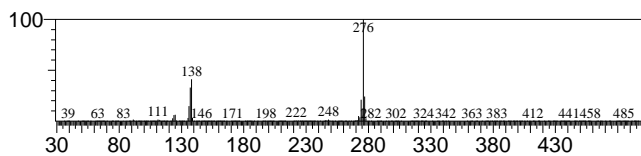


ID#:43 Mass:278.00
Type:Target
Name:Dibenz[a,h]anthracene

R.T.:29.801
Area:624243
SI:67
Conc.:5.311ng/uL

#	m/z	Intensity	Ratio	Setting
1	279	59485	24.45	24.14
2	139	71058	29.21	30.66

ID#:44 R.Time:30.2(Scan#:6595)



ID#:44 Mass:276.00
 Type:Target
 Name:Benzo[ghi]perylene

R.T.:30.175
 Area:629562
 SI:98
 Conc.:4.886ng/uL

#	m/z	Intensity	Ratio	Setting
1	277	61784	23.24	23.94
2	138	102584	38.59	39.82

<Quality Assurance / Quality Control>

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 1. [Control](#)
- <Create> 6/26/2013 1:20:29 PM

<Report for Sample Type "Control">

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 1. [Column Performance](#)
 2. [Spectrum Check](#)
 3. [Degradation Check](#)
- <Output Date> 6/26/2013 1:20:29 PM
- <Method File Name>

Column Performance

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062513\SV415787.qgd	CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal

- [Result]

<i>ID</i>	<i>Compound Name</i>	<i>Tailing F.</i>	<i>Tailing F. L. Limit</i>	<i>Tailing F. U. Limit</i>	<i>Tailing F. Status</i>
1	DFTPP	0.925097	-	-	-
2	4,4'-DDE	0.823944	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	0.982090	-	-	-
5	Pentachlorophenol	1.066474	-	2.000000	Pass
6	Benzidine	1.131904	-	2.000000	Pass

Spectrum Check

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0613\062513\SV415787.qgd	CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal

- DFTPP

<i>m/z</i>	<i>Spectrum Check Criteria</i>	<i>Result</i>	<i>Status</i>
51	30- 60% of the base peak	56.135478	Pass
68	< 2% of mass 69	1.642628	Pass
70	< 2% of mass 69	0.459971	Pass
127	40 - 60% of mass 198	55.017928	Pass
197	< 1% of mass 198	0.683125	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.685242	Pass
275	10 - 30% of the base peak	22.567719	Pass
365	> 1% of the base peak	1.446856	Pass
441	Present and < mass 443	74.437929	Pass

442	base peak or > 40% of mass 198	56.696723	Pass
443	17 - 23% of mass 442	19.350793	Pass

Degradation Check

- Count 1

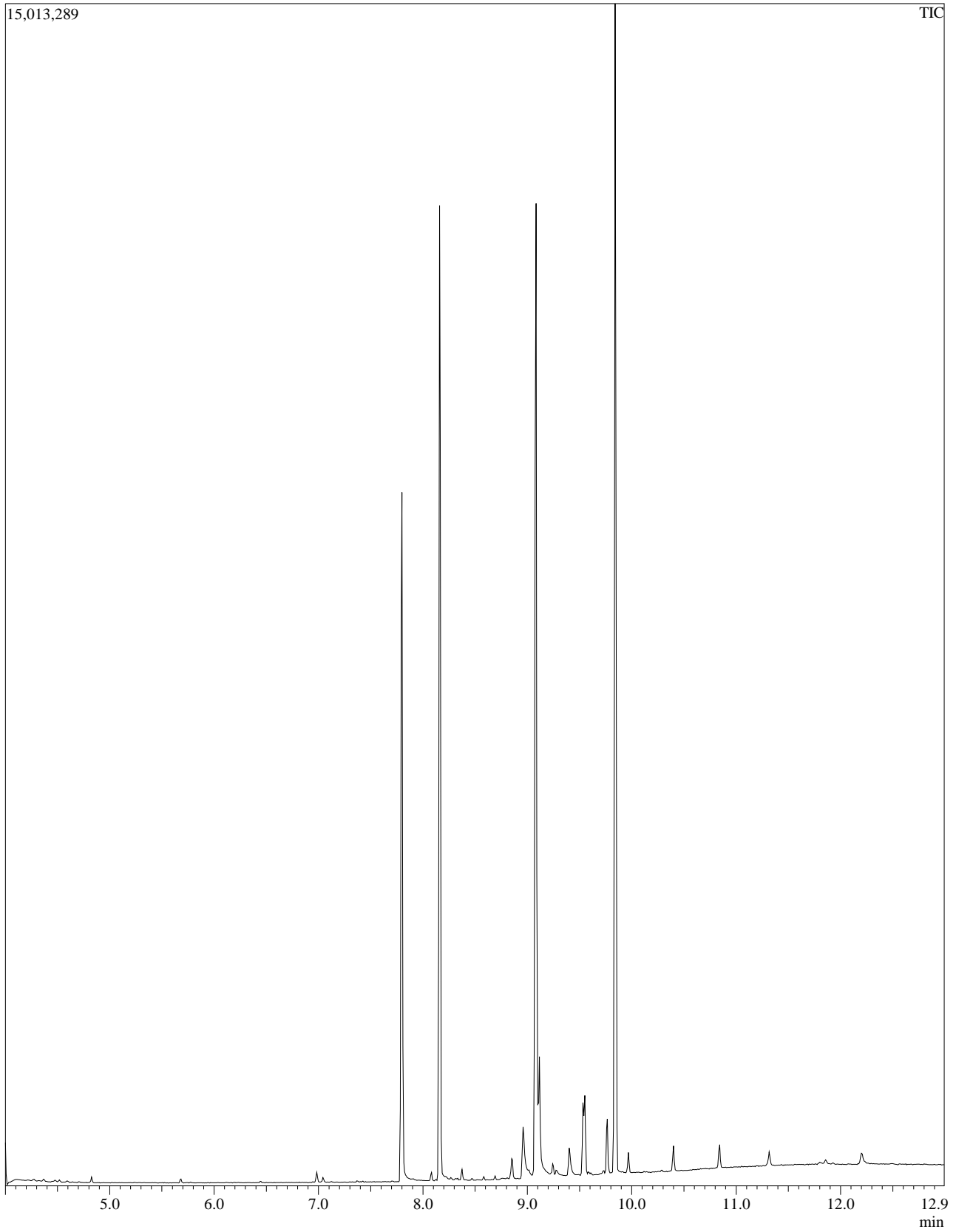
<i>Data</i>	<i>Data File Path</i>		<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>	
<i>Data1:</i>	Q:\SVOA\MS4\0613\062513\SV415787.qgd		CWF0260-TUN1		6/25/2013 11:02:30 AM	Normal	
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
1	4	4,4'-DDT	15349968	TIC	5.651482	20.000000	Pass
1	2	4,4'-DDE	132270	TIC			
1	3	4,4'-DDD	787194	TIC			

Data File : Q:\SVOA\MS4\0613\062513\SV415787.qgd
 Method File : Q:\SVOA\MS4\0613\062513\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 11:02:30 AM
 Sample Type : Control
 Level # : 1
 Sample Name : CWF0260-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.16	TIC	12731361	0.8356	ng/uL	95
2	4,4'-DDE	9.24	TIC	132270	0.0000	ng/uL	36
3	4,4'-DDD	9.55	TIC	787194	0.0386	ng/uL	81
4	4,4'-DDT	9.84	TIC	15349968	0.7532	ng/uL	93
5	Pentachlorophenol	7.79	266	1130517	0.7358	ng/uL	95
6	Benzidine	9.08	184	5295989	415.2089	ng/uL	97



Data File : Q:\SVOA\MS4\0613\062513\SV415789.qgd
 Method File : Q:\SVOA\MS4\0613\062513\SIMA4AW.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 12:19:38 PM
 Sample Type : Unknown
 Level # : 10
 Sample Name : CWF0260-CAL1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 3
 Injection Volume : 1

Internal Standard

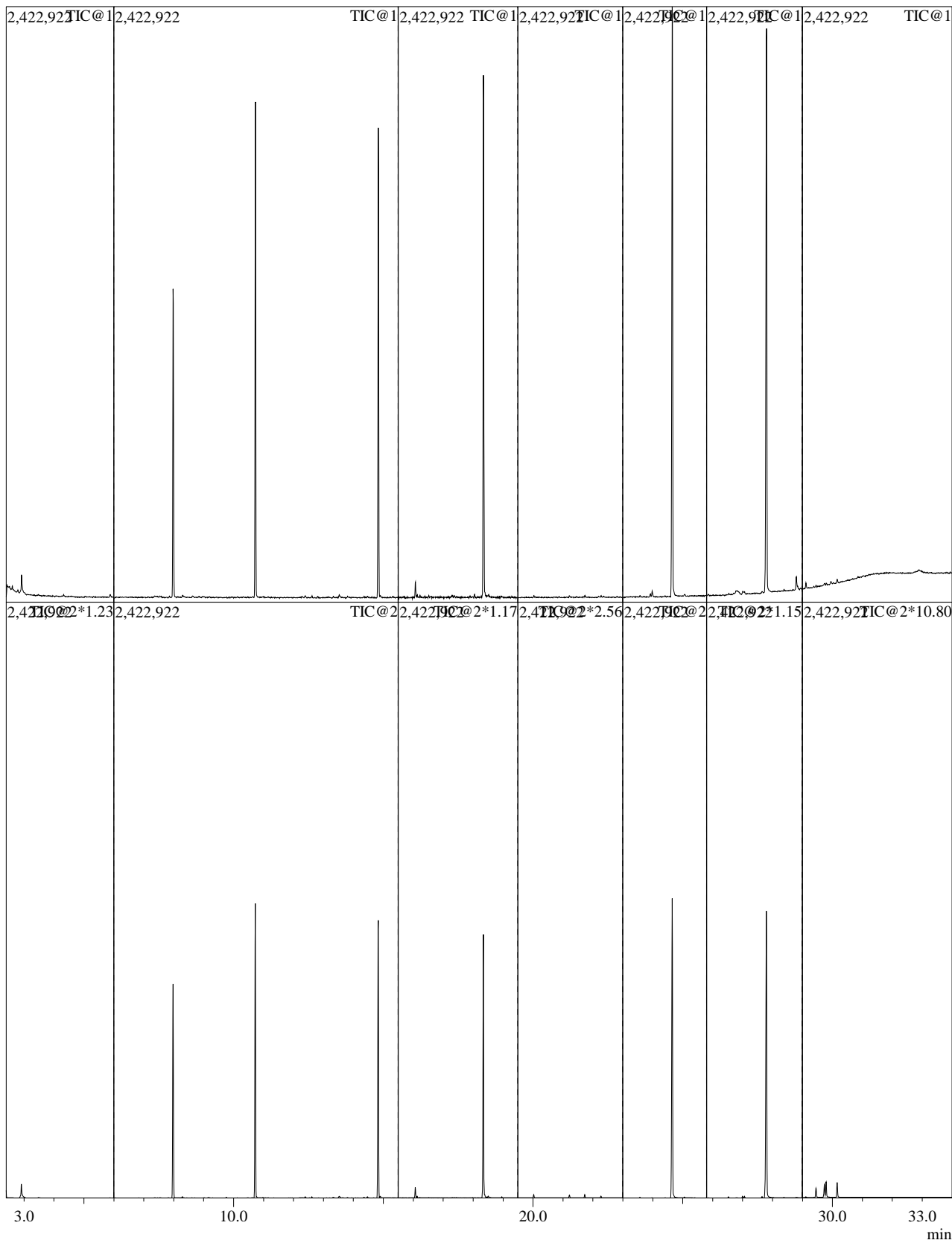
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.97	152	445298	20.0000	ng/uL	95.28
2	Naphthalene-D10	10.72	136	1718635	20.0000	ng/uL	94.66
3	Acenaphthene-D10	14.83	164	766654	20.0000	ng/uL	91.10
4	Phenanthrene-D10	18.34	188	1482609	20.0000	ng/uL	92.02
5	Chrysene-D12	24.65	240	1912763	20.0000	ng/uL	93.61
6	Perylene-D12	27.79	264	1759542	20.0000	ng/uL	83.67
12	1,4-Dioxane-d8 (IS)	2.91	64	62163	5.0000	ng/uL	95.47

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	2114	0.0906	ng/uL	3.62
8	Nitrobenzene-D5 (Surr)	9.16	82	1384	0.0470	ng/uL	1.88
9	2-Fluorobiphenyl (Surr)	13.32	172	3587	0.0554	ng/uL	2.21
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.(Peak)	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	4362	0.0568	ng/uL	2.27
13	1,4-Dioxane-d8 (Surr)	2.91	64	62163	5.1145	ng/uL	102.29

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	543	0.0430	ng/uL	55
15	1,4-Dioxane (IS7)	2.96	88	543	0.0422	ng/uL	55
16	Pyridine	3.48	79	2557	0.0670	ng/uL	88
17	Naphthalene	10.77	128	5644	0.0549	ng/uL	86
18	2-Methylnaphthalene	12.39	142	3709	0.0558	ng/uL	90
19	1-Methylnaphthalene	12.61	142	3596	0.0549	ng/uL	92
20	Biphenyl	13.53	154	4093	0.0535	ng/uL	85
21	Dimethylphthalate	14.35	163	3532	0.0525	ng/uL	65
22	Acenaphthylene	14.47	152	5137	0.0529	ng/uL	80
23	Acenaphthene	14.90	153	3384	0.0544	ng/uL	94
24	Fluorene	16.13	166	3730	0.0551	ng/uL	91
25	Diethylphthalate	16.07	149	45269	-0.4170	ng/uL	95
26	Hexachlorobenzene	17.44	284	912	-0.9138	ng/uL	87
27	Pentachloronitrobenzene	-	237	---	N.D.(Peak)	ng/uL	---
28	Pentachlorophenol	-	266	---	N.D.(Peak)	ng/uL	---
29	Phenanthrene	18.39	178	6115	0.0586	ng/uL	72
30	Anthracene	18.51	178	5881	0.0564	ng/uL	93
31	Di-n-butylphthalate	20.03	149	8442	0.0597	ng/uL	93
32	Fluoranthene	21.21	202	6871	0.0567	ng/uL	92
33	Pyrene	21.72	202	7120	0.0544	ng/uL	94
34	Butylbenzylphthalate	23.57	149	3107	0.0484	ng/uL	89
35	Benz[a]anthracene	24.63	228	6981	0.0527	ng/uL	34
36	Chrysene	24.70	228	7566	0.0601	ng/uL	85
37	Bis(2-ethylhexyl)phthalate	25.06	149	4430	0.0473	ng/uL	93
38	Di-n-octylphthalate	26.53	149	6817	0.0444	ng/uL	92
39	Benzo[b]fluoranthene	27.00	252	8900	0.0639	ng/uL	92
40	Benzo[k]fluoranthene	27.06	252	7825	0.0593	ng/uL	71
41	Benzo[a]pyrene	27.65	252	7160	0.0584	ng/uL	93
42	Indeno[1,2,3-cd]pyrene	29.73	276	6791	0.0593	ng/uL	92
43	Dibenz[a,h]anthracene	29.79	278	6614	0.0603	ng/uL	72
44	Benzo[ghi]perylene	30.16	276	7458	0.0621	ng/uL	93



Data File : Q:\SVOA\MS4\0613\062513\SV415790.qgd
 Method File : Q:\SVOA\MS4\0613\062513\SIMA4AW.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 1:09:42 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CWF0260-CAL2
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 4
 Injection Volume : 1

Internal Standard

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	477873	20.0000	ng/uL	102.25
2	Naphthalene-D10	10.72	136	1832174	20.0000	ng/uL	100.91
3	Acenaphthene-D10	14.83	164	787755	20.0000	ng/uL	93.61
4	Phenanthrene-D10	18.34	188	1513373	20.0000	ng/uL	93.93
5	Chrysene-D12	24.65	240	1976196	20.0000	ng/uL	96.72
6	Perylene-D12	27.79	264	1855559	20.0000	ng/uL	88.24
12	1,4-Dioxane-d8 (IS)	2.92	64	62602	5.0000	ng/uL	96.15

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	3481	0.1390	ng/uL	5.56
8	Nitrobenzene-D5 (Surr)	9.16	82	2722	0.0868	ng/uL	3.47
9	2-Fluorobiphenyl (Surr)	13.32	172	6877	0.1033	ng/uL	4.13
10	2,4,6-Tribromophenol (Surr)	-	330	---	N.D.(Peak)	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	7921	0.0998	ng/uL	3.99
13	1,4-Dioxane-d8 (Surr)	2.92	64	62602	4.7995	ng/uL	95.99

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	1317	0.0973	ng/uL	65
15	1,4-Dioxane (IS7)	2.96	88	1274	0.0984	ng/uL	66
16	Pyridine	3.47	79	4237	0.1035	ng/uL	86
17	Naphthalene	10.77	128	11402	0.1041	ng/uL	89
18	2-Methylnaphthalene	12.39	142	7363	0.1039	ng/uL	93
19	1-Methylnaphthalene	12.61	142	7065	0.1011	ng/uL	94
20	Biphenyl	13.53	154	7903	0.1004	ng/uL	93
21	Dimethylphthalate	14.36	163	6893	0.0997	ng/uL	72
22	Acenaphthylene	14.47	152	9952	0.0998	ng/uL	84
23	Acenaphthene	14.90	153	6800	0.1065	ng/uL	90
24	Fluorene	16.13	166	7117	0.1024	ng/uL	91
25	Diethylphthalate	16.07	149	48009	-0.3959	ng/uL	95
26	Hexachlorobenzene	17.44	284	1900	-0.8260	ng/uL	90
27	Pentachloronitrobenzene	17.98	237	504	0.0806	ng/uL	77
28	Pentachlorophenol	17.96	266	475	0.2884	ng/uL	62
29	Phenanthrene	18.39	178	11321	0.1062	ng/uL	76
30	Anthracene	18.51	178	11021	0.1035	ng/uL	95
31	Di-n-butylphthalate	20.03	149	14545	0.1008	ng/uL	95
32	Fluoranthene	21.22	202	12922	0.1045	ng/uL	96
33	Pyrene	21.73	202	13641	0.1008	ng/uL	96
34	Butylbenzylphthalate	23.57	149	5488	0.0827	ng/uL	93
35	Benz[a]anthracene	24.63	228	14128	0.1033	ng/uL	76
36	Chrysene	24.70	228	14042	0.1080	ng/uL	85
37	Bis(2-ethylhexyl)phthalate	25.06	149	7873	0.0813	ng/uL	93
38	Di-n-octylphthalate	26.53	149	12663	0.0782	ng/uL	94
39	Benzo[b]fluoranthene	27.00	252	15033	0.1023	ng/uL	93
40	Benzo[k]fluoranthene	27.06	252	13861	0.0996	ng/uL	72
41	Benzo[a]pyrene	27.65	252	12436	0.0963	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.73	276	11974	0.0992	ng/uL	96
43	Dibenz[a,h]anthracene	29.79	278	11719	0.1014	ng/uL	70
44	Benzo[ghi]perylene	30.16	276	13068	0.1031	ng/uL	96



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 Dilution Factor : 1
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 Injection Volume : 1

Internal Standard

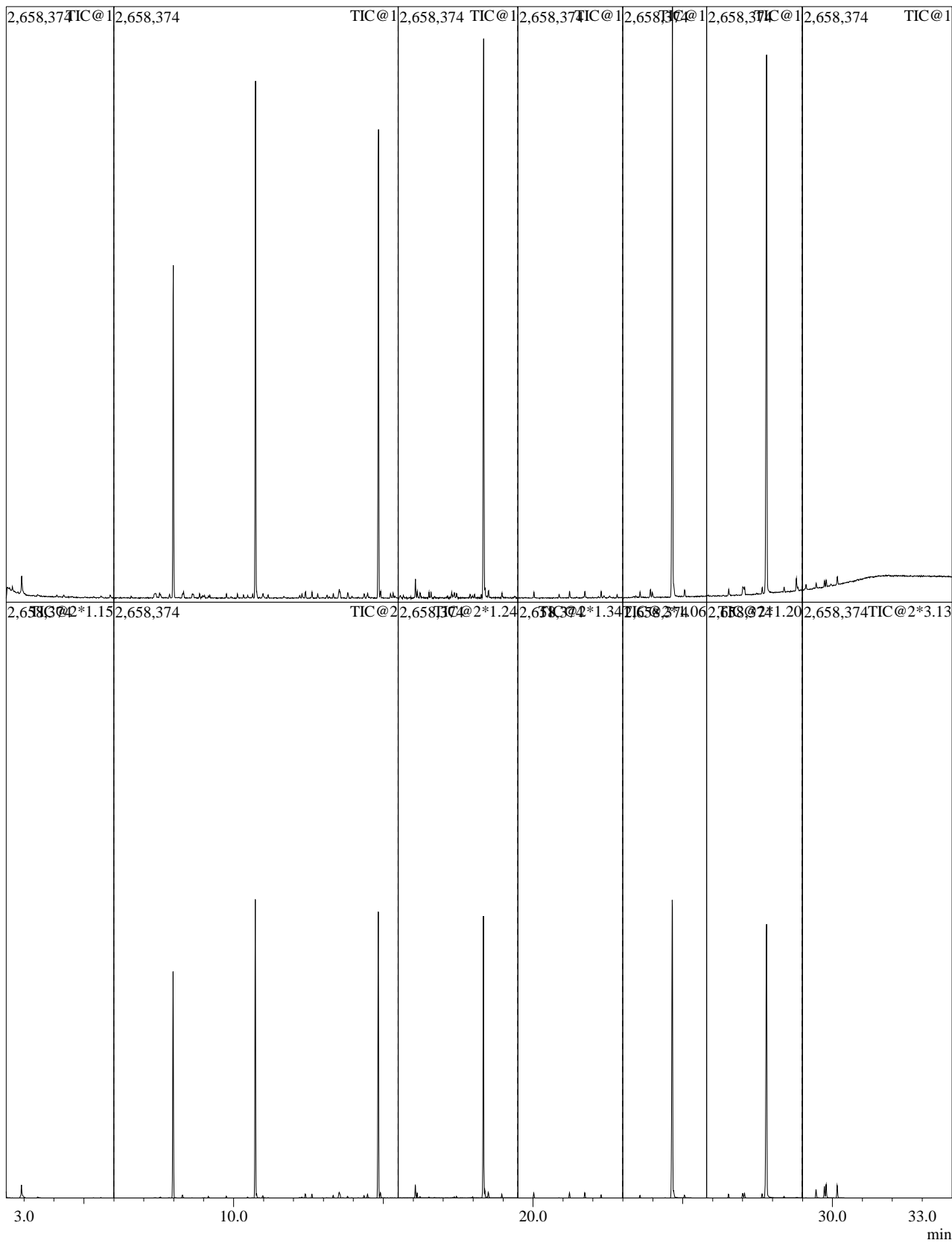
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1	1,4-Dichlorobenzene-D4	7.98	152	503638	20.0000	ng/uL	107.76
2	Naphthalene-D10	10.72	136	1916883	20.0000	ng/uL	105.58
3	Acenaphthene-D10	14.83	164	817751	20.0000	ng/uL	97.17
4	Phenanthrene-D10	18.34	188	1600707	20.0000	ng/uL	99.35
5	Chrysene-D12	24.65	240	2041304	20.0000	ng/uL	99.90
6	Perylene-D12	27.79	264	1823896	20.0000	ng/uL	86.73
12	1,4-Dioxane-d8 (IS)	2.92	64	66293	5.0000	ng/uL	101.82

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	6142	0.2328	ng/uL	9.31
8	Nitrobenzene-D5 (Surr)	9.16	82	5960	0.1817	ng/uL	7.27
9	2-Fluorobiphenyl (Surr)	13.32	172	14031	0.2030	ng/uL	8.12
10	2,4,6-Tribromophenol (Surr)	16.71	330	613	-0.5016	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	15947	0.1944	ng/uL	7.78
13	1,4-Dioxane-d8 (Surr)	2.92	64	66293	4.8225	ng/uL	96.45

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	2596	0.1820	ng/uL	85
15	1,4-Dioxane (IS7)	2.96	88	2596	0.1893	ng/uL	85
16	Pyridine	3.46	79	7374	0.1708	ng/uL	95
17	Naphthalene	10.77	128	23275	0.2030	ng/uL	92
18	2-Methylnaphthalene	12.39	142	14882	0.2007	ng/uL	96
19	1-Methylnaphthalene	12.61	142	15085	0.2064	ng/uL	96
20	Biphenyl	13.53	154	16532	0.2024	ng/uL	92
21	Dimethylphthalate	14.36	163	13567	0.1890	ng/uL	70
22	Acenaphthylene	14.47	152	19696	0.1902	ng/uL	81
23	Acenaphthene	14.90	153	13367	0.2016	ng/uL	90
24	Fluorene	16.13	166	14262	0.1976	ng/uL	93
25	Diethylphthalate	16.07	149	57013	-0.2986	ng/uL	96
26	Hexachlorobenzene	17.44	284	3506	-0.6979	ng/uL	94
27	Pentachloronitrobenzene	17.98	237	1009	0.1525	ng/uL	89
28	Pentachlorophenol	17.95	266	1092	0.3312	ng/uL	76
29	Phenanthrene	18.39	178	23103	0.2050	ng/uL	81
30	Anthracene	18.51	178	22204	0.1971	ng/uL	96
31	Di-n-butylphthalate	20.03	149	28348	0.1858	ng/uL	96
32	Fluoranthene	21.22	202	26464	0.2023	ng/uL	96
33	Pyrene	21.73	202	27257	0.1950	ng/uL	97
34	Butylbenzylphthalate	23.57	149	10863	0.1584	ng/uL	95
35	Benz[a]anthracene	24.63	228	28020	0.1983	ng/uL	84
36	Chrysene	24.70	228	27216	0.2026	ng/uL	89
37	Bis(2-ethylhexyl)phthalate	25.06	149	15856	0.1585	ng/uL	95
38	Di-n-octylphthalate	26.53	149	25855	0.1624	ng/uL	96
39	Benzo[b]fluoranthene	27.00	252	29003	0.2008	ng/uL	93
40	Benzo[k]fluoranthene	27.06	252	27458	0.2007	ng/uL	71
41	Benzo[a]pyrene	27.65	252	24096	0.1898	ng/uL	96
42	Indeno[1,2,3-cd]pyrene	29.73	276	22360	0.1885	ng/uL	95
43	Dibenz[a,h]anthracene	29.79	278	21628	0.1904	ng/uL	70
44	Benzo[ghi]perylene	30.16	276	24689	0.1982	ng/uL	97



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 Injection Volume : 1

Internal Standard

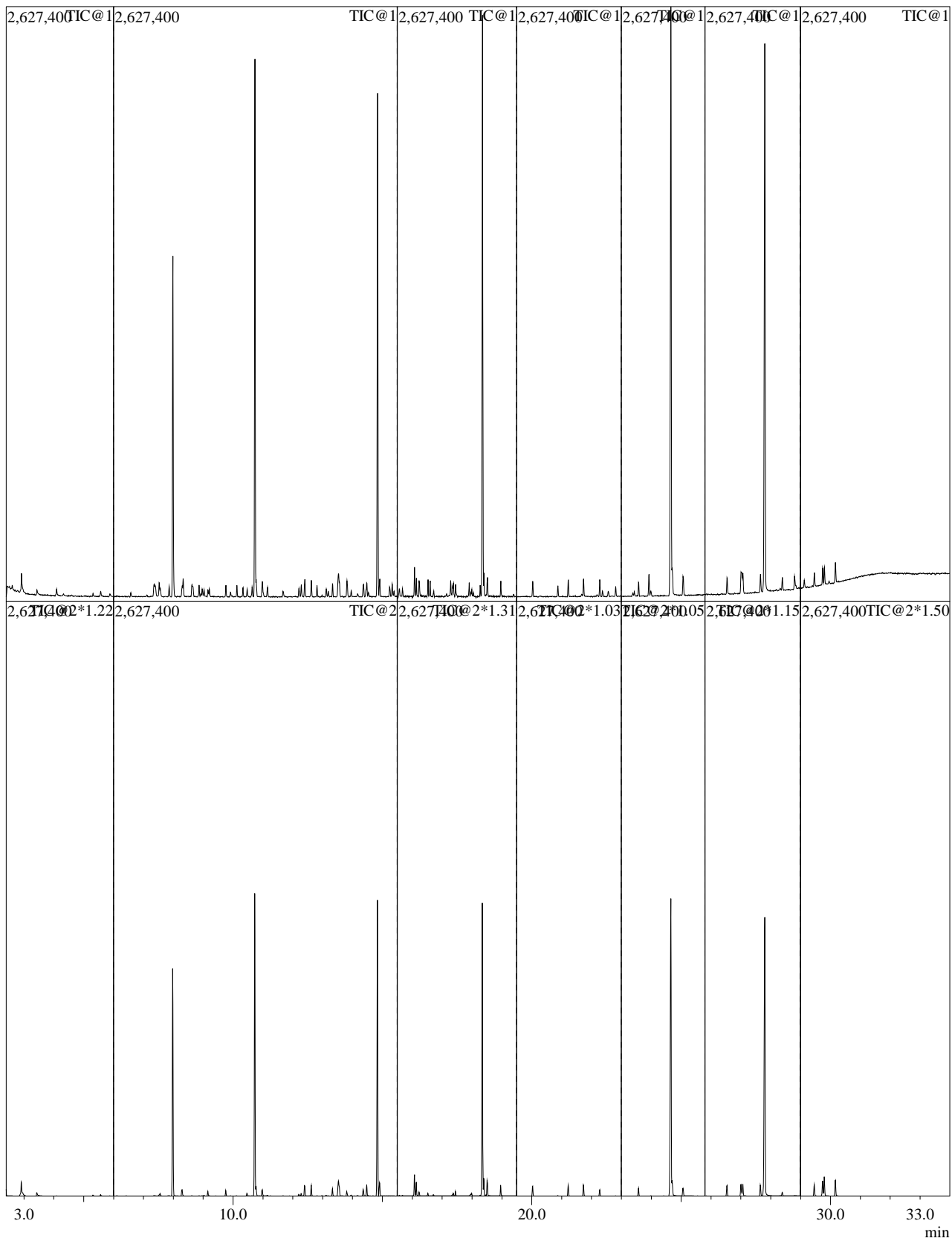
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1	1,4-Dichlorobenzene-D4	7.98	152	516331	20.0000	ng/uL	110.48
2	Naphthalene-D10	10.73	136	1971188	20.0000	ng/uL	108.57
3	Acenaphthene-D10	14.83	164	852881	20.0000	ng/uL	101.35
4	Phenanthrene-D10	18.34	188	1591557	20.0000	ng/uL	98.78
5	Chrysene-D12	24.65	240	2039555	20.0000	ng/uL	99.82
6	Perylene-D12	27.80	264	1901273	20.0000	ng/uL	90.41
12	1,4-Dioxane-d8 (IS)	2.91	64	67920	5.0000	ng/uL	104.32

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	14628	0.5408	ng/uL	21.63
8	Nitrobenzene-D5 (Surr)	9.16	82	16339	0.4843	ng/uL	19.37
9	2-Fluorobiphenyl (Surr)	13.32	172	37248	0.5167	ng/uL	20.67
10	2,4,6-Tribromophenol (Surr)	16.71	330	1811	-0.1083	ng/uL	-
11	Terphenyl-D14 (Surr)	22.27	244	42313	0.5164	ng/uL	20.66
13	1,4-Dioxane-d8 (Surr)	2.91	64	67920	4.8194	ng/uL	96.39

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	7365	0.5036	ng/uL	81
15	1,4-Dioxane (IS7)	2.96	88	7365	0.5241	ng/uL	81
16	Pyridine	3.44	79	20436	0.4618	ng/uL	94
17	Naphthalene	10.77	128	61845	0.5246	ng/uL	96
18	2-Methylnaphthalene	12.40	142	39509	0.5180	ng/uL	96
19	1-Methylnaphthalene	12.61	142	39124	0.5205	ng/uL	97
20	Biphenyl	13.53	154	44099	0.5177	ng/uL	92
21	Dimethylphthalate	14.36	163	37827	0.5054	ng/uL	75
22	Acenaphthylene	14.47	152	56404	0.5223	ng/uL	84
23	Acenaphthene	14.90	153	35870	0.5187	ng/uL	92
24	Fluorene	16.13	166	38777	0.5152	ng/uL	94
25	Diethylphthalate	16.07	149	84325	0.0249	ng/uL	96
26	Hexachlorobenzene	17.45	284	9073	-0.2166	ng/uL	94
27	Pentachloronitrobenzene	17.99	237	3197	0.4859	ng/uL	93
28	Pentachlorophenol	17.95	266	3737	0.5248	ng/uL	84
29	Phenanthrene	18.39	178	58313	0.5203	ng/uL	84
30	Anthracene	18.51	178	58416	0.5215	ng/uL	97
31	Di-n-butylphthalate	20.03	149	74645	0.4920	ng/uL	98
32	Fluoranthene	21.22	202	68797	0.5290	ng/uL	98
33	Pyrene	21.73	202	71708	0.5134	ng/uL	98
34	Butylbenzylphthalate	23.57	149	31756	0.4635	ng/uL	97
35	Benz[a]anthracene	24.63	228	73112	0.5178	ng/uL	93
36	Chrysene	24.70	228	69277	0.5162	ng/uL	93
37	Bis(2-ethylhexyl)phthalate	25.06	149	46455	0.4649	ng/uL	97
38	Di-n-octylphthalate	26.53	149	75177	0.4531	ng/uL	97
39	Benzo[b]fluoranthene	27.01	252	74391	0.4942	ng/uL	94
40	Benzo[k]fluoranthene	27.06	252	73215	0.5134	ng/uL	69
41	Benzo[a]pyrene	27.65	252	67527	0.5101	ng/uL	98
42	Indeno[1,2,3-cd]pyrene	29.73	276	62734	0.5073	ng/uL	97
43	Dibenz[a,h]anthracene	29.79	278	59775	0.5047	ng/uL	73
44	Benzo[ghi]perylene	30.16	276	66550	0.5126	ng/uL	98



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Internal Standard

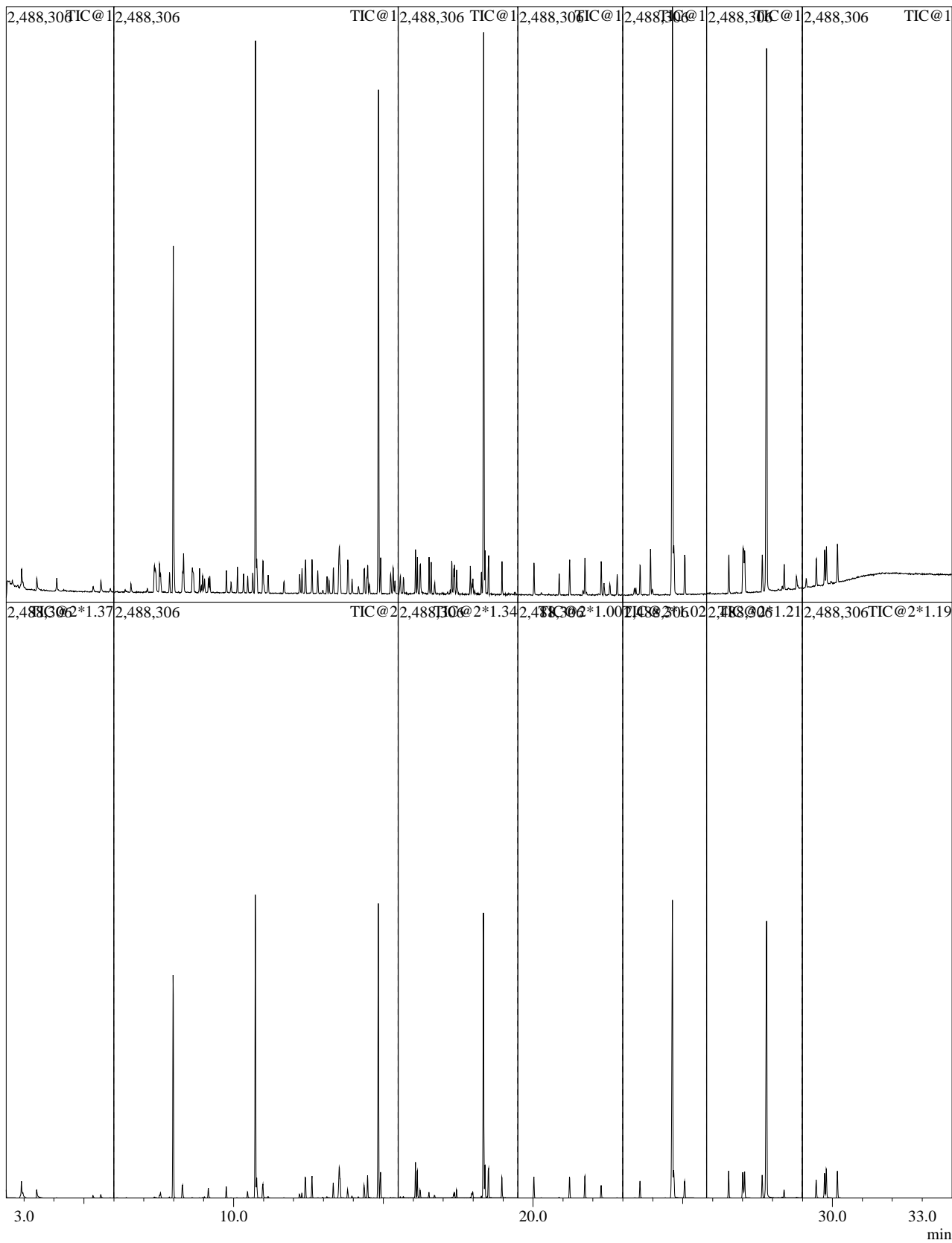
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1	1,4-Dichlorobenzene-D4	7.98	152	486943	20.0000	ng/uL	104.19
2	Naphthalene-D10	10.73	136	1846771	20.0000	ng/uL	101.72
3	Acenaphthene-D10	14.83	164	784183	20.0000	ng/uL	93.19
4	Phenanthrene-D10	18.34	188	1504953	20.0000	ng/uL	93.40
5	Chrysene-D12	24.66	240	1896651	20.0000	ng/uL	92.83
6	Perylene-D12	27.80	264	1699182	20.0000	ng/uL	80.80
12	1,4-Dioxane-d8 (IS)	2.92	64	66524	5.0000	ng/uL	102.17

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	26911	1.0549	ng/uL	42.20
8	Nitrobenzene-D5 (Surr)	9.16	82	32692	1.0343	ng/uL	41.37
9	2-Fluorobiphenyl (Surr)	13.32	172	70759	1.0676	ng/uL	42.70
10	2,4,6-Tribromophenol (Surr)	16.71	330	3589	0.5413	ng/uL	14.43
11	Terphenyl-D14 (Surr)	22.27	244	77722	1.0200	ng/uL	40.80
13	1,4-Dioxane-d8 (Surr)	2.92	64	66524	5.0052	ng/uL	100.10

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	14565	1.0560	ng/uL	83
15	1,4-Dioxane (IS7)	2.96	88	14565	1.0582	ng/uL	83
16	Pyridine	3.43	79	39059	0.9359	ng/uL	95
17	Naphthalene	10.77	128	117882	1.0673	ng/uL	98
18	2-Methylnaphthalene	12.40	142	75746	1.0601	ng/uL	97
19	1-Methylnaphthalene	12.61	142	73819	1.0482	ng/uL	98
20	Biphenyl	13.53	154	83145	1.0615	ng/uL	91
21	Dimethylphthalate	14.36	163	71949	1.0455	ng/uL	74
22	Acenaphthylene	14.48	152	108068	1.0884	ng/uL	84
23	Acenaphthene	14.90	153	68312	1.0743	ng/uL	96
24	Fluorene	16.14	166	72960	1.0542	ng/uL	96
25	Diethylphthalate	16.07	149	124712	0.6925	ng/uL	97
26	Hexachlorobenzene	17.45	284	17287	0.5765	ng/uL	95
27	Pentachloronitrobenzene	17.99	237	6676	1.0730	ng/uL	94
28	Pentachlorophenol	17.95	266	8516	0.9096	ng/uL	86
29	Phenanthrene	18.39	178	113339	1.0695	ng/uL	90
30	Anthracene	18.51	178	111588	1.0535	ng/uL	98
31	Di-n-butylphthalate	20.03	149	148605	1.0358	ng/uL	98
32	Fluoranthene	21.22	202	132611	1.0783	ng/uL	98
33	Pyrene	21.73	202	137746	1.0606	ng/uL	98
34	Butylbenzylphthalate	23.57	149	65773	1.0324	ng/uL	97
35	Benz[a]anthracene	24.63	228	135844	1.0345	ng/uL	96
36	Chrysene	24.70	228	131273	1.0519	ng/uL	95
37	Bis(2-ethylhexyl)phthalate	25.06	149	95152	1.0239	ng/uL	97
38	Di-n-octylphthalate	26.53	149	161518	1.0892	ng/uL	97
39	Benzo[b]fluoranthene	27.01	252	139600	1.0377	ng/uL	95
40	Benzo[k]fluoranthene	27.06	252	138847	1.0893	ng/uL	72
41	Benzo[a]pyrene	27.65	252	128843	1.0891	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	116240	1.0519	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	110781	1.0466	ng/uL	70
44	Benzo[ghi]perylene	30.17	276	123681	1.0659	ng/uL	98

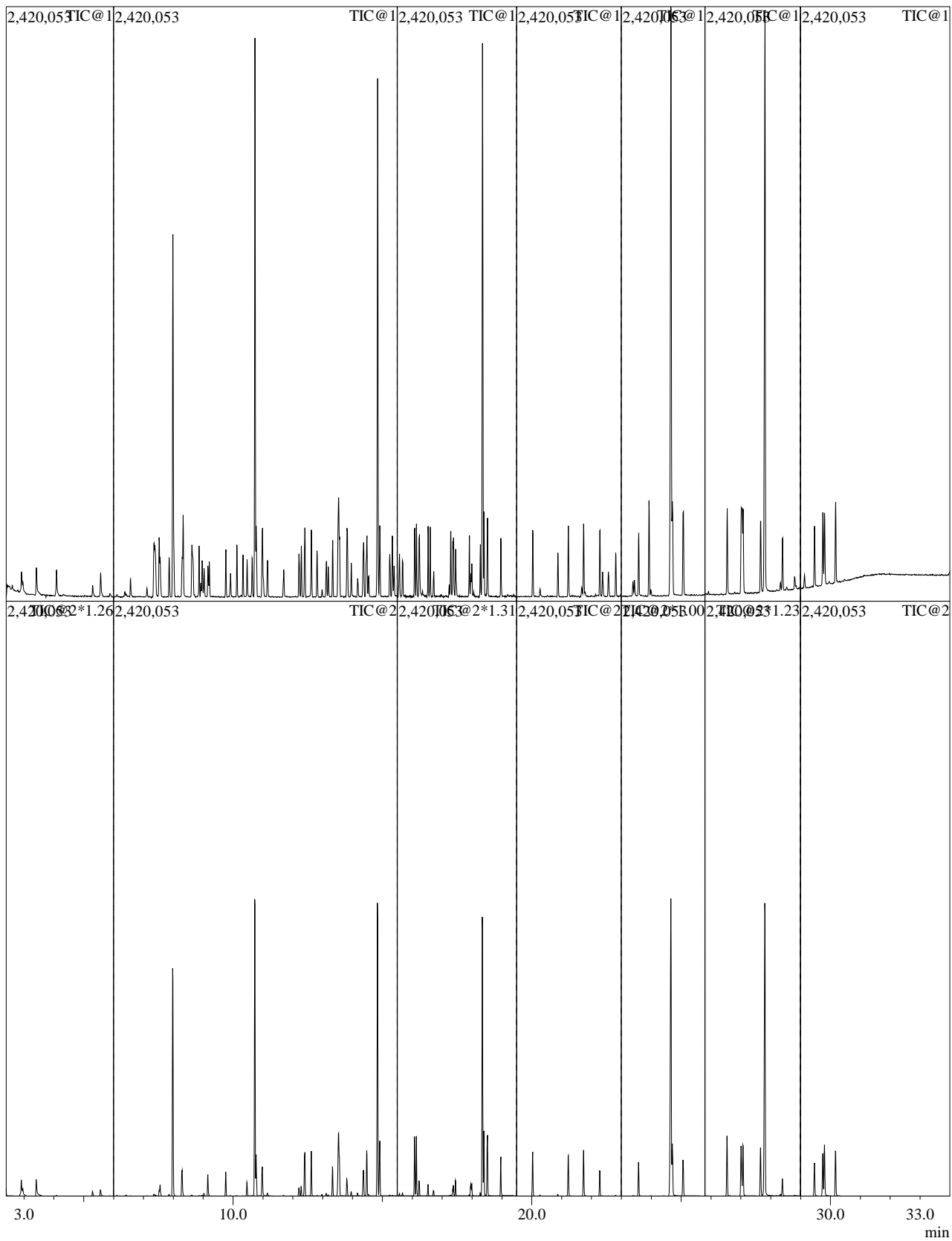


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Internal Standard							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	490117	20.0000	ng/uL	104.87
2	Naphthalene-D10	10.73	136	1833257	20.0000	ng/uL	100.97
3	Acenaphthene-D10	14.84	164	789458	20.0000	ng/uL	93.81
4	Phenanthrene-D10	18.35	188	1457934	20.0000	ng/uL	90.49
5	Chrysene-D12	24.66	240	1823367	20.0000	ng/uL	89.24
6	Perylene-D12	27.80	264	1746155	20.0000	ng/uL	83.03
12	1,4-Dioxane-d8 (IS)	2.91	64	68118	5.0000	ng/uL	104.62

Surrogate							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	51974	2.0242	ng/uL	80.97
8	Nitrobenzene-D5 (Surr)	9.16	82	68030	2.1681	ng/uL	86.72
9	2-Fluorobiphenyl (Surr)	13.33	172	139569	2.0917	ng/uL	83.67
10	2,4,6-Tribromophenol (Surr)	16.71	330	8167	2.2173	ng/uL	59.13
11	Terphenyl-D14 (Surr)	22.28	244	154108	2.1037	ng/uL	84.15
13	1,4-Dioxane-d8 (Surr)	2.91	64	68118	5.0920	ng/uL	101.84

Target							
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	29346	2.1138	ng/uL	90
15	1,4-Dioxane (IS7)	2.96	88	29346	2.0822	ng/uL	90
16	Pyridine	3.41	79	79942	1.9031	ng/uL	95
17	Naphthalene	10.77	128	230889	2.1059	ng/uL	98
18	2-Methylnaphthalene	12.40	142	150514	2.1220	ng/uL	98
19	1-Methylnaphthalene	12.62	142	148437	2.1232	ng/uL	98
20	Biphenyl	13.53	154	165880	2.1037	ng/uL	89
21	Dimethylphthalate	14.36	163	149250	2.1542	ng/uL	71
22	Acenaphthylene	14.48	152	220136	2.2022	ng/uL	85
23	Acenaphthene	14.91	153	134095	2.0948	ng/uL	98
24	Fluorene	16.14	166	146623	2.1045	ng/uL	96
25	Diethylphthalate	16.08	149	205015	1.8094	ng/uL	97
26	Hexachlorobenzene	17.45	284	33189	2.1224	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	14080	2.3360	ng/uL	95
28	Pentachlorophenol	17.95	266	20816	1.9115	ng/uL	90
29	Phenanthrene	18.40	178	217446	2.1181	ng/uL	91
30	Anthracene	18.51	178	218762	2.1318	ng/uL	98
31	Di-n-butylphthalate	20.03	149	296985	2.1367	ng/uL	98
32	Fluoranthene	21.22	202	255305	2.1429	ng/uL	98
33	Pyrene	21.73	202	263471	2.1101	ng/uL	98
34	Butylbenzylphthalate	23.58	149	134128	2.1900	ng/uL	97
35	Benz[a]anthracene	24.63	228	261243	2.0694	ng/uL	98
36	Chrysene	24.71	228	245666	2.0476	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	202308	2.2644	ng/uL	98
38	Di-n-octylphthalate	26.53	149	351570	2.3071	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	280207	2.0268	ng/uL	95
40	Benzo[k]fluoranthene	27.07	252	263733	2.0135	ng/uL	70
41	Benzo[a]pyrene	27.66	252	257490	2.1181	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	233983	2.0604	ng/uL	98
43	Dibenz[a,h]anthracene	29.80	278	228563	2.1013	ng/uL	68
44	Benzo[ghi]perylene	30.17	276	251274	2.1073	ng/uL	99



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 Dilution Factor : 1
 Vial # : 9
 Injection Volume : 1

Internal Standard

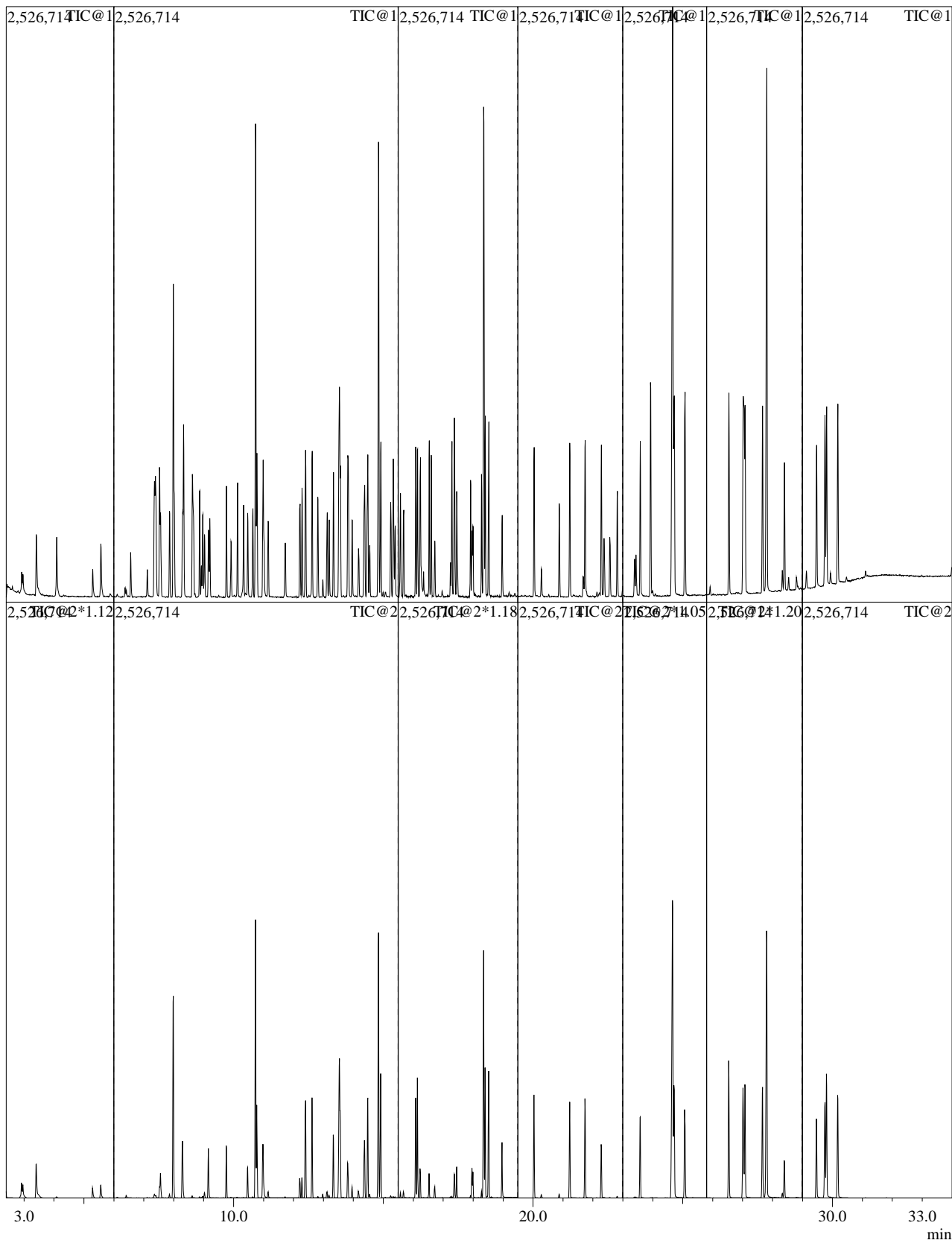
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1	1,4-Dichlorobenzene-D4	7.98	152	459036	20.0000	ng/uL	98.22
2	Naphthalene-D10	10.73	136	1771403	20.0000	ng/uL	97.56
3	Acenaphthene-D10	14.84	164	767478	20.0000	ng/uL	91.20
4	Phenanthrene-D10	18.35	188	1440985	20.0000	ng/uL	89.43
5	Chrysene-D12	24.66	240	1783987	20.0000	ng/uL	87.31
6	Perylene-D12	27.80	264	1709681	20.0000	ng/uL	81.30
12	1,4-Dioxane-d8 (IS)	2.92	64	63041	5.0000	ng/uL	96.82

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	119265	4.9593	ng/uL	198.37
8	Nitrobenzene-D5 (Surr)	9.16	82	163522	5.3933	ng/uL	215.73
9	2-Fluorobiphenyl (Surr)	13.33	172	324139	4.9970	ng/uL	199.88
10	2,4,6-Tribromophenol (Surr)	16.71	330	17693	5.6957	ng/uL	151.88
11	Terphenyl-D14 (Surr)	22.28	244	357837	4.9926	ng/uL	199.70
13	1,4-Dioxane-d8 (Surr)	2.92	64	63041	5.0315	ng/uL	100.63

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67310	5.1767	ng/uL	94
15	1,4-Dioxane (IS7)	2.96	88	67310	5.1605	ng/uL	94
16	Pyridine	3.41	79	196956	5.0063	ng/uL	96
17	Naphthalene	10.78	128	537686	5.0754	ng/uL	98
18	2-Methylnaphthalene	12.40	142	346501	5.0558	ng/uL	99
19	1-Methylnaphthalene	12.62	142	343972	5.0919	ng/uL	99
20	Biphenyl	13.54	154	380140	4.9590	ng/uL	88
21	Dimethylphthalate	14.37	163	348305	5.1712	ng/uL	71
22	Acenaphthylene	14.48	152	503838	5.1846	ng/uL	83
23	Acenaphthene	14.91	153	314600	5.0554	ng/uL	98
24	Fluorene	16.14	166	344376	5.0843	ng/uL	97
25	Diethylphthalate	16.08	149	428538	5.1236	ng/uL	97
26	Hexachlorobenzene	17.45	284	72705	5.9183	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	33472	5.6187	ng/uL	96
28	Pentachlorophenol	17.96	266	57375	4.8801	ng/uL	94
29	Phenanthrene	18.40	178	512653	5.0523	ng/uL	91
30	Anthracene	18.52	178	529174	5.2175	ng/uL	98
31	Di-n-butylphthalate	20.03	149	711119	5.1765	ng/uL	98
32	Fluoranthene	21.22	202	591538	5.0234	ng/uL	98
33	Pyrene	21.73	202	616887	5.0496	ng/uL	98
34	Butylbenzylphthalate	23.58	149	334619	5.5841	ng/uL	98
35	Benz[a]anthracene	24.63	228	619501	5.0156	ng/uL	99
36	Chrysene	24.71	228	582679	4.9637	ng/uL	99
37	Bis(2-ethylhexyl)phthalate	25.07	149	497595	5.6925	ng/uL	98
38	Di-n-octylphthalate	26.54	149	889727	5.9631	ng/uL	98
39	Benzo[b]fluoranthene	27.02	252	682138	5.0392	ng/uL	95
40	Benzo[k]fluoranthene	27.08	252	615113	4.7962	ng/uL	71
41	Benzo[a]pyrene	27.66	252	617094	5.1844	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.75	276	586708	5.2766	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	557663	5.2363	ng/uL	69
44	Benzo[ghi]perylene	30.18	276	601445	5.1517	ng/uL	98



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 Injection Volume : 1

Internal Standard

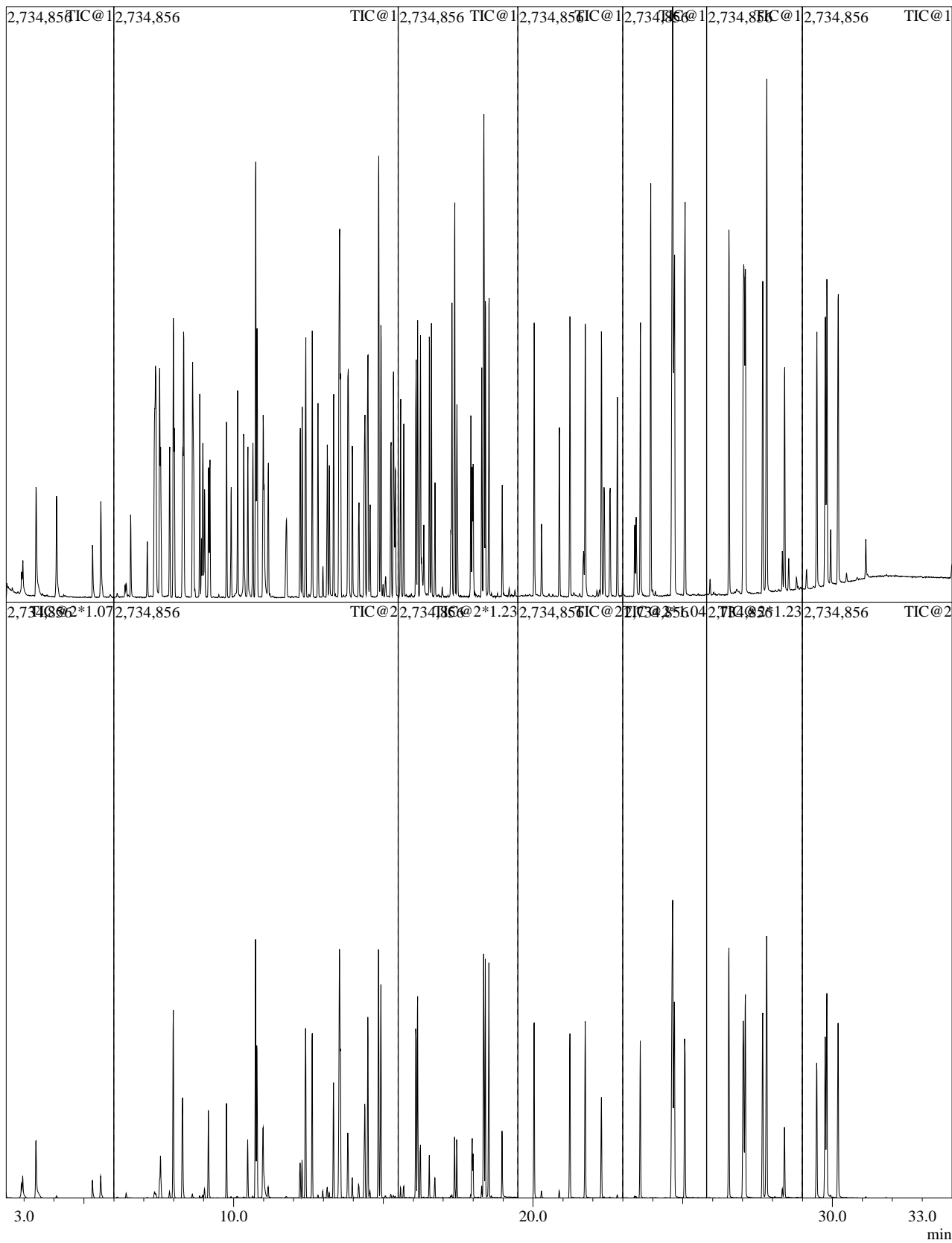
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1	1,4-Dichlorobenzene-D4	7.98	152	453841	20.0000	ng/uL	97.11
2	Naphthalene-D10	10.73	136	1745745	20.0000	ng/uL	96.15
3	Acenaphthene-D10	14.84	164	772440	20.0000	ng/uL	91.79
4	Phenanthrene-D10	18.35	188	1490678	20.0000	ng/uL	92.52
5	Chrysene-D12	24.66	240	1802152	20.0000	ng/uL	88.20
6	Perylene-D12	27.80	264	1776218	20.0000	ng/uL	84.46
12	1,4-Dioxane-d8 (IS)	2.91	64	64177	5.0000	ng/uL	98.57

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	226677	9.5337	ng/uL	381.35
8	Nitrobenzene-D5 (Surr)	9.16	82	321821	10.7704	ng/uL	430.82
9	2-Fluorobiphenyl (Surr)	13.33	172	627464	9.6110	ng/uL	384.44
10	2,4,6-Tribromophenol (Surr)	16.72	330	33168	10.8908	ng/uL	290.42
11	Terphenyl-D14 (Surr)	22.28	244	700721	9.6780	ng/uL	387.12
13	1,4-Dioxane-d8 (Surr)	2.91	64	64177	5.1808	ng/uL	103.62

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	133980	10.4222	ng/uL	94
15	1,4-Dioxane (IS7)	2.95	88	133980	10.0900	ng/uL	94
16	Pyridine	3.40	79	384160	9.8765	ng/uL	96
17	Naphthalene	10.78	128	1023119	9.7995	ng/uL	98
18	2-Methylnaphthalene	12.40	142	658500	9.7494	ng/uL	99
19	1-Methylnaphthalene	12.62	142	651625	9.7879	ng/uL	99
20	Biphenyl	13.54	154	721617	9.3531	ng/uL	91
21	Dimethylphthalate	14.38	163	677441	9.9932	ng/uL	61
22	Acenaphthylene	14.48	152	970530	9.9228	ng/uL	85
23	Acenaphthene	14.91	153	598289	9.5523	ng/uL	99
24	Fluorene	16.14	166	673893	9.8854	ng/uL	97
25	Diethylphthalate	16.09	149	790564	10.2844	ng/uL	98
26	Hexachlorobenzene	17.45	284	142521	12.1078	ng/uL	96
27	Pentachloronitrobenzene	18.00	237	67253	10.9129	ng/uL	96
28	Pentachlorophenol	17.96	266	122808	9.8280	ng/uL	96
29	Phenanthrene	18.41	178	985233	9.3860	ng/uL	92
30	Anthracene	18.52	178	1014006	9.6644	ng/uL	99
31	Di-n-butylphthalate	20.04	149	1419498	9.9885	ng/uL	98
32	Fluoranthene	21.23	202	1150643	9.4456	ng/uL	98
33	Pyrene	21.74	202	1194138	9.6762	ng/uL	98
34	Butylbenzylphthalate	23.58	149	675719	11.1627	ng/uL	98
35	Benz[a]anthracene	24.64	228	1203316	9.6441	ng/uL	98
36	Chrysene	24.72	228	1097722	9.2570	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	988956	11.1997	ng/uL	98
38	Di-n-octylphthalate	26.54	149	1791286	11.5558	ng/uL	98
39	Benzo[b]fluoranthene	27.02	252	1313610	9.3406	ng/uL	96
40	Benzo[k]fluoranthene	27.09	252	1190544	8.9353	ng/uL	71
41	Benzo[a]pyrene	27.67	252	1208267	9.7708	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.76	276	1124410	9.7337	ng/uL	97
43	Dibenz[a,h]anthracene	29.81	278	1120333	10.1255	ng/uL	66
44	Benzo[ghi]perylene	30.19	276	1195865	9.8595	ng/uL	98



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Internal Standard

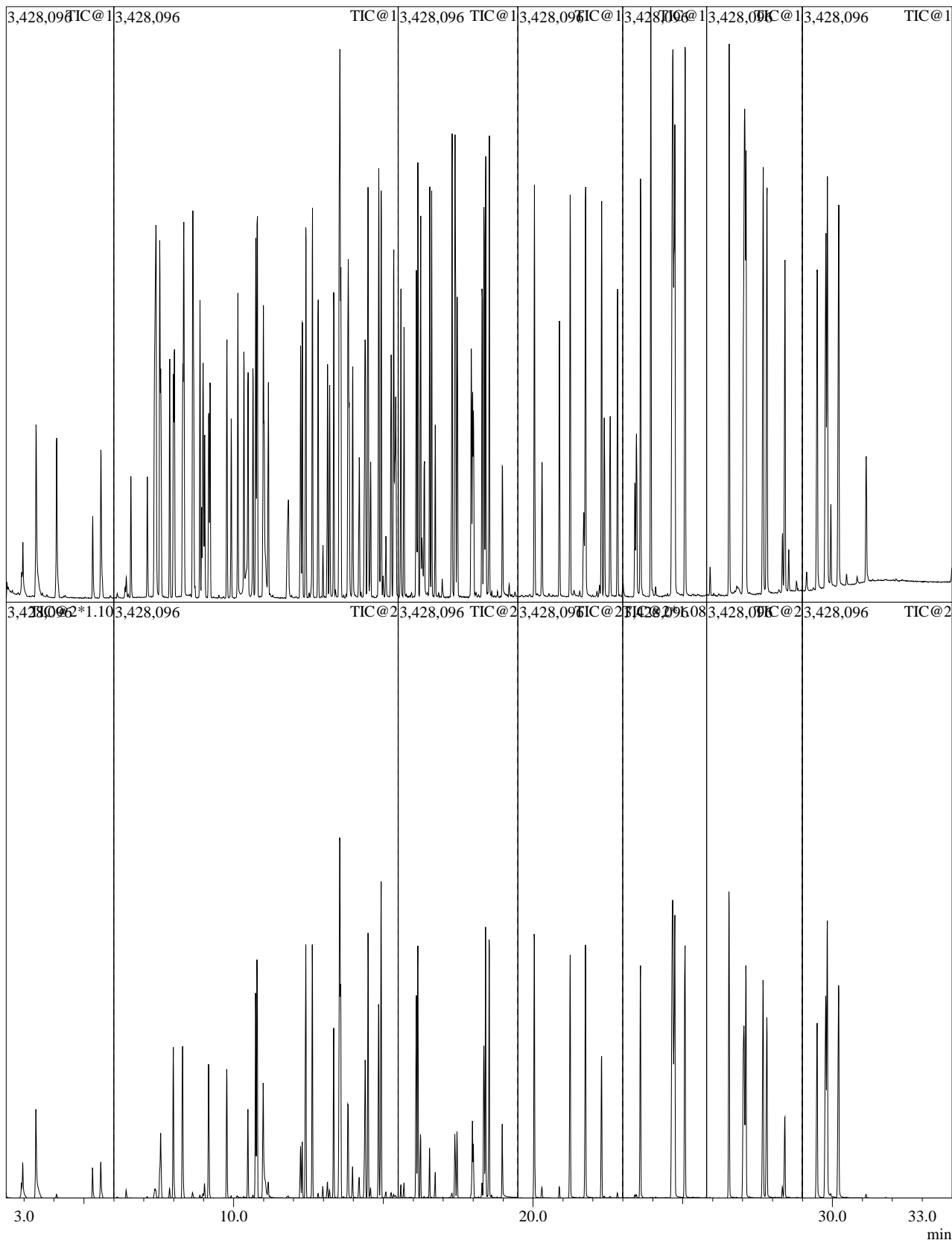
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1	1,4-Dichlorobenzene-D4	7.98	152	458148	20.0000	ng/uL	98.03
2	Naphthalene-D10	10.74	136	1801150	20.0000	ng/uL	99.20
3	Acenaphthene-D10	14.84	164	790956	20.0000	ng/uL	93.99
4	Phenanthrene-D10	18.36	188	1539622	20.0000	ng/uL	95.56
5	Chrysene-D12	24.67	240	1829818	20.0000	ng/uL	89.55
6	Perylene-D12	27.81	264	1836407	20.0000	ng/uL	87.33
12	1,4-Dioxane-d8 (IS)	2.92	64	64066	5.0000	ng/uL	98.40

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	441943	18.4127	ng/uL	736.51
8	Nitrobenzene-D5 (Surr)	9.17	82	652796	21.1751	ng/uL	847.01
9	2-Fluorobiphenyl (Surr)	13.34	172	1217301	18.2091	ng/uL	728.36
10	2,4,6-Tribromophenol (Surr)	16.73	330	62178	20.3388	ng/uL	542.37
11	Terphenyl-D14 (Surr)	22.29	244	1378048	18.7450	ng/uL	749.80
13	1,4-Dioxane-d8 (Surr)	2.92	64	64066	5.1232	ng/uL	102.46

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.95	88	275458	21.2262	ng/uL	93
15	1,4-Dioxane (IS7)	2.95	88	275458	20.7807	ng/uL	93
16	Pyridine	3.40	79	789048	20.0952	ng/uL	96
17	Naphthalene	10.78	128	1954524	18.1446	ng/uL	97
18	2-Methylnaphthalene	12.41	142	1263654	18.1334	ng/uL	99
19	1-Methylnaphthalene	12.63	142	1270140	18.4916	ng/uL	99
20	Biphenyl	13.55	154	1325237	16.7747	ng/uL	91
21	Dimethylphthalate	14.39	163	1358596	19.5720	ng/uL	61
22	Acenaphthylene	14.49	152	1870546	18.6770	ng/uL	85
23	Acenaphthene	14.92	153	1175951	18.3358	ng/uL	98
24	Fluorene	16.15	166	1308582	18.7463	ng/uL	96
25	Diethylphthalate	16.10	149	1575238	21.0265	ng/uL	98
26	Hexachlorobenzene	17.46	284	259718	22.1258	ng/uL	95
27	Pentachloronitrobenzene	18.01	237	133620	20.9928	ng/uL	97
28	Pentachlorophenol	17.97	266	263248	20.1265	ng/uL	97
29	Phenanthrene	18.41	178	1901439	17.5385	ng/uL	92
30	Anthracene	18.53	178	1975354	18.2285	ng/uL	99
31	Di-n-butylphthalate	20.04	149	2764792	18.8365	ng/uL	98
32	Fluoranthene	21.24	202	2245949	17.8508	ng/uL	98
33	Pyrene	21.75	202	2335909	18.6419	ng/uL	98
34	Butylbenzylphthalate	23.59	149	1324259	21.5456	ng/uL	98
35	Benz[a]anthracene	24.65	228	2400379	18.9473	ng/uL	98
36	Chrysene	24.73	228	2098768	17.4311	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.07	149	1937811	21.6135	ng/uL	98
38	Di-n-octylphthalate	26.54	149	3549395	22.1472	ng/uL	98
39	Benzo[b]fluoranthene	27.04	252	2668816	18.3550	ng/uL	96
40	Benzo[k]fluoranthene	27.11	252	2312865	16.7897	ng/uL	71
41	Benzo[a]pyrene	27.68	252	2416935	18.9042	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.77	276	2260560	18.9276	ng/uL	96
43	Dibenz[a,h]anthracene	29.83	278	2107624	18.4243	ng/uL	69
44	Benzo[ghi]perylene	30.21	276	2136917	17.0407	ng/uL	98



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 Dilution Factor : 1
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 Injection Volume : 1

Internal Standard

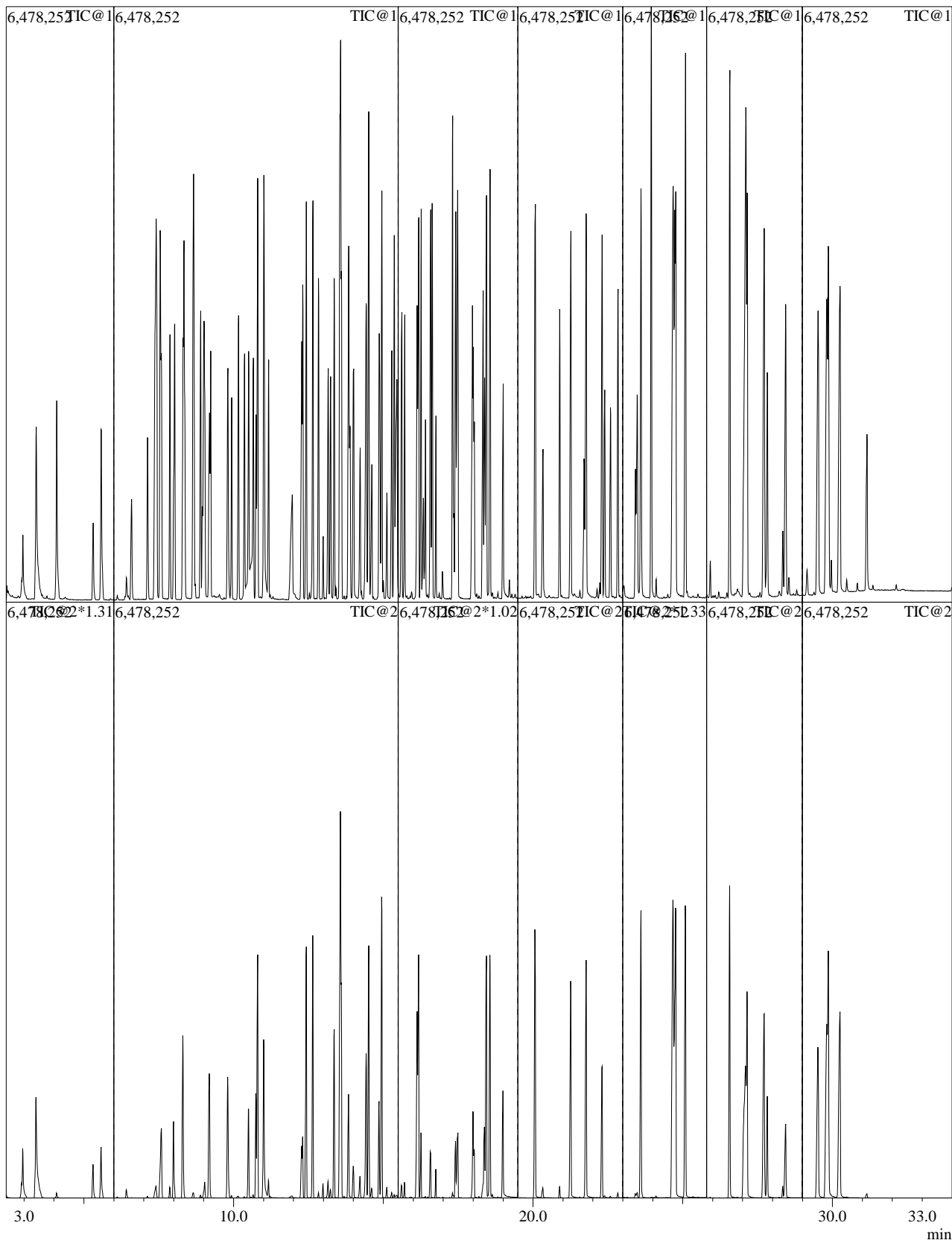
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1	1,4-Dichlorobenzene-D4	7.99	152	466037	20.0000	ng/uL	99.72
2	Naphthalene-D10	10.74	136	1861302	20.0000	ng/uL	102.52
3	Acenaphthene-D10	14.85	164	784881	20.0000	ng/uL	93.27
4	Phenanthrene-D10	18.37	188	1553373	20.0000	ng/uL	96.41
5	Chrysene-D12	24.69	240	1659646	20.0000	ng/uL	81.23
6	Perylene-D12	27.82	264	1858308	20.0000	ng/uL	88.37
12	1,4-Dioxane-d8 (IS)	2.92	64	63746	5.0000	ng/uL	97.91

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.30	152	1003098	41.0848	ng/uL	1643.39
8	Nitrobenzene-D5 (Surr)	9.18	82	1563311	49.0712	ng/uL	1962.85
9	2-Fluorobiphenyl (Surr)	13.35	172	2743347	41.3542	ng/uL	1654.17
10	2,4,6-Tribromophenol (Surr)	16.75	330	150057	49.6261	ng/uL	1323.36
11	Terphenyl-D14 (Surr)	22.30	244	2956364	44.3376	ng/uL	1773.50
13	1,4-Dioxane-d8 (Surr)	2.92	64	63746	5.0114	ng/uL	100.23

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	658226	49.8628	ng/uL	93
15	1,4-Dioxane (IS7)	2.96	88	658226	49.9062	ng/uL	93
16	Pyridine	3.40	79	1930223	48.3261	ng/uL	95
17	Naphthalene	10.80	128	4309994	38.7183	ng/uL	97
18	2-Methylnaphthalene	12.42	142	2853217	39.6205	ng/uL	99
19	1-Methylnaphthalene	12.64	142	2794118	39.3641	ng/uL	98
20	Biphenyl	13.57	154	2673170	34.0986	ng/uL	89
21	Dimethylphthalate	14.42	163	2970197	43.1200	ng/uL	59
22	Acenaphthylene	14.51	152	3954170	39.7872	ng/uL	80
23	Acenaphthene	14.94	153	2534451	39.8238	ng/uL	98
24	Fluorene	16.17	166	2791876	40.3051	ng/uL	97
25	Diethylphthalate	16.12	149	3579929	49.5387	ng/uL	98
26	Hexachlorobenzene	17.48	284	562646	48.6534	ng/uL	86
27	Pentachloronitrobenzene	18.03	237	306513	47.7295	ng/uL	96
28	Pentachlorophenol	17.99	266	601591	45.2685	ng/uL	95
29	Phenanthrene	18.43	178	4081280	37.3117	ng/uL	92
30	Anthracene	18.56	178	4204780	38.4580	ng/uL	99
31	Di-n-butylphthalate	20.06	149	5956791	40.2242	ng/uL	98
32	Fluoranthene	21.26	202	4823834	38.0004	ng/uL	98
33	Pyrene	21.77	202	4988392	43.8921	ng/uL	98
34	Butylbenzylphthalate	23.60	149	2924130	52.4536	ng/uL	98
35	Benz[a]anthracene	24.67	228	5183372	45.1099	ng/uL	98
36	Chrysene	24.76	228	4404942	40.3360	ng/uL	96
37	Bis(2-ethylhexyl)phthalate	25.08	149	4163320	51.1972	ng/uL	98
38	Di-n-octylphthalate	26.56	149	7407193	45.6740	ng/uL	98
39	Benzo[b]fluoranthene	27.10	252	5854724	39.7919	ng/uL	95
40	Benzo[k]fluoranthene	27.15	252	4230186	30.3461	ng/uL	72
41	Benzo[a]pyrene	27.72	252	5122742	39.5957	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.81	276	4873764	40.3268	ng/uL	95
43	Dibenz[a,h]anthracene	29.86	278	4281385	36.9857	ng/uL	69
44	Benzo[ghi]perylene	30.24	276	4587140	36.1487	ng/uL	97



Data File : Q:\SVOA\MS4\0613\062513\SV415799.qgd
 Method File : Q:\SVOA\MS4\0613\062513\SIMA4AW.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 6/25/2013 8:43:29 PM
 Sample Type : Unknown
 Level # : 1
 Sample Name : CWF0260-SCV1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 13
 Injection Volume : 1

Internal Standard

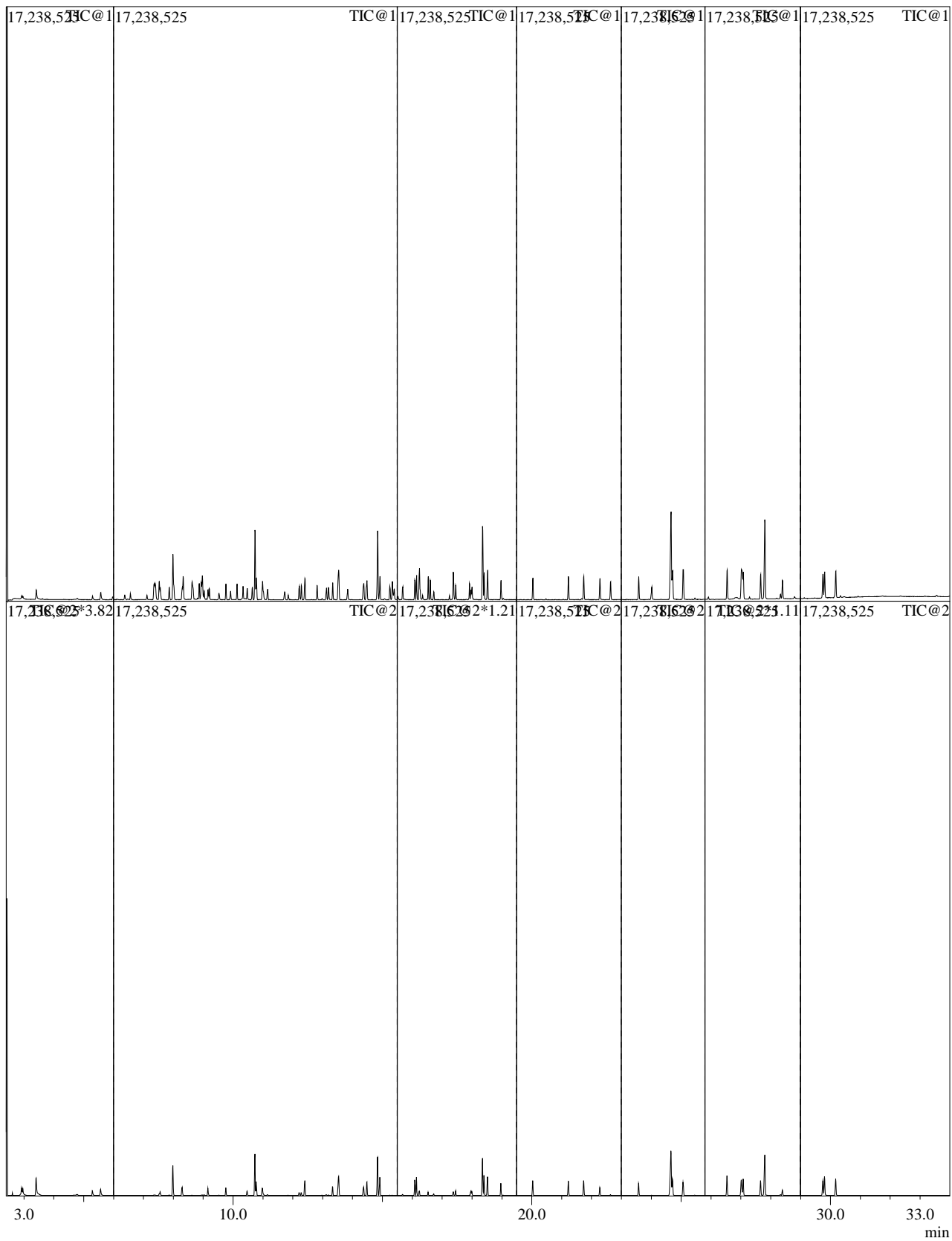
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.98	152	455605	20.0000	ng/uL	97.49
2	Naphthalene-D10	10.73	136	1786619	20.0000	ng/uL	98.40
3	Acenaphthene-D10	14.84	164	764172	20.0000	ng/uL	90.81
4	Phenanthrene-D10	18.35	188	1471000	20.0000	ng/uL	91.30
5	Chrysene-D12	24.66	240	1897796	20.0000	ng/uL	92.88
6	Perylene-D12	27.80	264	1886848	20.0000	ng/uL	89.72
12	1,4-Dioxane-d8 (IS)	2.92	64	63850	5.0000	ng/uL	98.06

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.29	152	112374	4.7080	ng/uL	188.32
8	Nitrobenzene-D5 (Surr)	9.16	82	159382	5.2120	ng/uL	208.48
9	2-Fluorobiphenyl (Surr)	13.33	172	302639	4.6857	ng/uL	187.43
10	2,4,6-Tribromophenol (Surr)	16.71	330	13833	4.1981	ng/uL	111.95
11	Terphenyl-D14 (Surr)	22.28	244	363496	4.7674	ng/uL	190.70
13	1,4-Dioxane-d8 (Surr)	2.92	64	63850	5.1345	ng/uL	102.69

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.96	88	67277	5.2131	ng/uL	95
15	1,4-Dioxane (IS7)	2.96	88	67286	5.0933	ng/uL	94
16	Pyridine	3.41	79	191673	4.9087	ng/uL	95
17	Naphthalene	10.78	128	539310	5.0473	ng/uL	98
18	2-Methylnaphthalene	12.40	142	355784	5.1470	ng/uL	99
19	1-Methylnaphthalene	12.62	142	3899	0.0572	ng/uL	91
20	Biphenyl	13.54	154	373649	4.8954	ng/uL	87
21	Dimethylphthalate	14.37	163	335650	5.0049	ng/uL	60
22	Acenaphthylene	14.48	152	465525	4.8111	ng/uL	83
23	Acenaphthene	14.91	153	313542	5.0602	ng/uL	99
24	Fluorene	16.14	166	345359	5.1209	ng/uL	97
25	Diethylphthalate	16.08	149	427539	5.1359	ng/uL	98
26	Hexachlorobenzene	17.45	284	65979	5.1504	ng/uL	96
27	Pentachloronitrobenzene	17.99	237	32626	5.3649	ng/uL	95
28	Pentachlorophenol	17.96	266	57811	4.8201	ng/uL	93
29	Phenanthrene	18.40	178	520181	5.0219	ng/uL	92
30	Anthracene	18.52	178	525731	5.0777	ng/uL	97
31	Di-n-butylphthalate	20.03	149	711340	5.0724	ng/uL	98
32	Fluoranthene	21.22	202	601540	5.0041	ng/uL	98
33	Pyrene	21.73	202	631342	4.8580	ng/uL	98
34	Butylbenzylphthalate	23.58	149	341512	5.3574	ng/uL	98
35	Benz[a]anthracene	24.63	228	640443	4.8742	ng/uL	98
36	Chrysene	24.71	228	594443	4.7602	ng/uL	97
37	Bis(2-ethylhexyl)phthalate	25.07	149	524196	5.6372	ng/uL	98
38	Di-n-octylphthalate	26.53	149	921214	5.5944	ng/uL	98
39	Benzo[b]fluoranthene	27.01	252	668865	4.4772	ng/uL	96
40	Benzo[k]fluoranthene	27.08	252	672247	4.7496	ng/uL	71
41	Benzo[a]pyrene	27.66	252	602134	4.5837	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.74	276	607519	4.9507	ng/uL	97
43	Dibenz[a,h]anthracene	29.80	278	624243	5.3111	ng/uL	67
44	Benzo[ghi]perylene	30.18	276	629562	4.8862	ng/uL	98



SVOA

ESS LABORATORY MS4 RUN LOG

DATE 06/25/13
 ANALYST IBM
 METHOD SIMA4AW
 Internal Std: 3F14001
 Tune Method: DFTPP
 METHOD (2) _____
 Internal Std: _____
 Tune Method: _____

Work orders reported: _____

 MATRIX SEQ ID CAL ID
 SOIL _____
 AQ CWF0260 1306022

 MATRIX SEQ ID CAL ID
 SOIL _____
 AQ _____

VIAL #	SAMPLE ID	STD ID/COMMENTS	METHOD	FILE ID	MANUAL INT **	BATCH ID	MATRIX	RW	RPT	IMP	BY
50	PRIMER		3\SIMA4AW.qgm	3\SV415784.qgd							
50	PRIMER		3\SIMA4AW.qgm	3\SV415785.qgd							
1	CWF0260-TUN1	3E23067	\DFTPP 250.qgm	3\SV415786.qgd							
1	CWF0260-TUN1	3E23067	\DFTPP 250.qgm	3\SV415787.qgd							IBM X
2	CWF0260-CCV1	3F24047	3\SIMA4AW.qgm	3\SV415788.qgd							
3	CWF0260-CAL1	3F24049	3\SIMA4AW.qgm	3\SV415789.qgd	29CO,35CO,40WP						IBM X
4	CWF0260-CAL2	3F24053	3\SIMA4AW.qgm	3\SV415790.qgd	29CO,35CO,40WP						IBM X
5	CWF0260-CAL3	3F24054	3\SIMA4AW.qgm	3\SV415791.qgd	29CO,35CO,40WP						IBM X
6	CWF0260-CAL4	3F24055	3\SIMA4AW.qgm	3\SV415792.qgd	40 WP						IBM X
7	CWF0260-CAL5	3F24056	3\SIMA4AW.qgm	3\SV415793.qgd	40 WP						IBM X
8	CWF0260-CAL6	3F24057	3\SIMA4AW.qgm	3\SV415794.qgd	40 WP						IBM X
9	CWF0260-CAL7	3F24058	3\SIMA4AW.qgm	3\SV415795.qgd	40 WP						IBM X
10	CWF0260-CAL8	3F24059	3\SIMA4AW.qgm	3\SV415796.qgd	40 WP						IBM X
11	CWF0260-CAL9	3F24060	3\SIMA4AW.qgm	3\SV415797.qgd	40 WP						IBM X
12	CWF0260-CALA	3F24061	3\SIMA4AW.qgm	3\SV415798.qgd	40 WP						IBM X
13	CWF0260-SCV1	3F24062	3\SIMA4AW.qgm	3\SV415799.qgd	40 WP						IBM X

QUADS: **NO**
 SCV: **OK**
 CCAL: _____

Comments: ****ENTER COMP. ID#, EXPLANATION**
NOTE HCB REQUANT OK @ 2PPM - CHANGE IMRL TO 0.5 PPB WHERE APPLICABLE

Review (includes a check and review of manual integrations)

<Quality Assurance / Quality Control>

- Index
 1. [Control](#)
- <Create> 7/9/2013 2:05:24 PM

<Report for Sample Type "Control">

- Index
 1. [Column Performance](#)
 2. [Spectrum Check](#)
 3. [Degradation Check](#)
- <Output Date> 7/9/2013 2:05:24 PM
- <Method File Name>

Column Performance

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0713\070813\SV415989.qgd	CWG0078-TUN1		7/8/2013 8:20:05 AM	Normal

- [Result]

<i>ID</i>	<i>Compound Name</i>	<i>Tailing F.</i>	<i>Tailing F. L. Limit</i>	<i>Tailing F. U. Limit</i>	<i>Tailing F. Status</i>
1	DFTPP	1.023600	-	-	-
2	4,4'-DDE	1.050406	-	-	-
3	4,4'-DDD	-	-	-	-
4	4,4'-DDT	0.986935	-	-	-
5	Pentachlorophenol	1.128461	-	2.000000	Pass
6	Benzidine	1.334886	-	2.000000	Pass

Spectrum Check

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>
Data1:	Q:\SVOA\MS4\0713\070813\SV415989.qgd	CWG0078-TUN1		7/8/2013 8:20:05 AM	Normal

- DFTPP

<i>m/z</i>	<i>Spectrum Check Criteria</i>	<i>Result</i>	<i>Status</i>
51	30- 60% of the base peak	50.454028	Pass
68	< 2% of mass 69	1.675388	Pass
70	< 2% of mass 69	0.508966	Pass
127	40 - 60% of mass 198	49.428258	Pass
197	< 1% of mass 198	0.630240	Pass
198	base peak, 100 percent	100.000000	Pass
199	5 - 9% of mass 198	6.450906	Pass
275	10 - 30% of the base peak	22.343102	Pass
365	> 1% of the base peak	1.307022	Pass

441	Present and < mass 443	77.280870	Pass
442	base peak or > 40% of mass 198	46.408231	Pass
443	17 - 23% of mass 442	19.982041	Pass

Degradation Check

- Count 1

<i>Data</i>	<i>Data File Path</i>	<i>Sample Name</i>	<i>Sample ID</i>	<i>Analysis Date</i>	<i>Data File Status</i>		
<i>Data1:</i>	Q:\SVOA\MS4\0713\070813\SV415989.qgd	CWG0078-TUN1		7/8/2013 8:20:05 AM	Normal		
<i>Analyte#</i>	<i>ID</i>	<i>Compound Name</i>	<i>Area</i>	<i>m/z</i>	<i>%breakdown</i>	<i>%breakdown U. Limit</i>	<i>Status</i>
1	4	4,4'-DDT	10784974	TIC	1.434400	20.000000	Pass
1	2	4,4'-DDE	44242	TIC			
1	3	4,4'-DDD	112709	TIC			

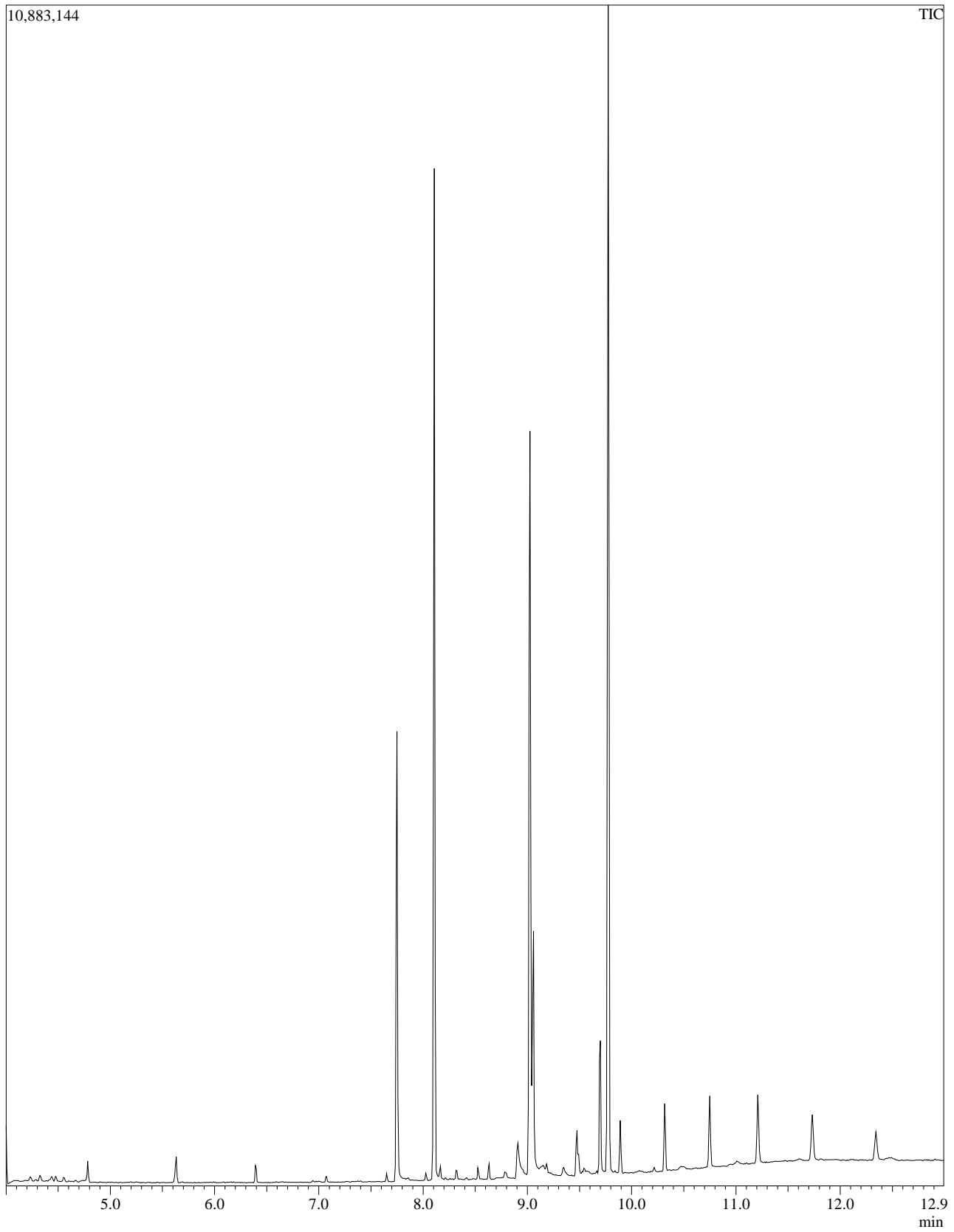
Data File : Q:\SVOA\MS4\0713\070813\SV415989.qgd
 Method File : Q:\SVOA\MS4\0713\070813\DFTPP 250.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 7/8/2013 8:20:05 AM
 Sample Type : Control
 Level # : 1
 Sample Name : CWG0078-TUN1
 Sample ID :
 IS Amount : [1]=1
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 1
 Injection Volume : 1

Internal Standard

Surrogate

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
1	DFTPP	8.11	TIC	8141951	0.5344	ng/uL	95
2	4,4'-DDE	9.18	TIC	44242	0.0000	ng/uL	32
3	4,4'-DDD	9.49	TIC	112709	0.0000	ng/uL	68
4	4,4'-DDT	9.78	TIC	10784974	0.5292	ng/uL	93
5	Pentachlorophenol	7.75	266	502139	0.3268	ng/uL	96
6	Benzidine	9.02	184	3164122	248.0691	ng/uL	98



Data File : Q:\SVOA\MS4\0713\070813\SV415990.qgd
 Method File : Q:\SVOA\MS4\0713\070813\SIMA4AW0708.qgm
 Tuning File : C:\GCMSsolution\System\TUNE2\DFTPP 030413.qgt
 Analyzed by : IBM
 Analyzed : 7/8/2013 8:46:46 AM
 Sample Type : Continuing Calibration
 Level # : 1
 Sample Name : CWG0078-CCV1
 Sample ID :
 IS Amount : [1]=20, [2]=20, [3]=20, [4]=20, [5]=20
 [6]=20, [7]=5
 Sample Amount : 1
 Dilution Factor : 1
 Vial # : 2
 Injection Volume : 1

Internal Standard

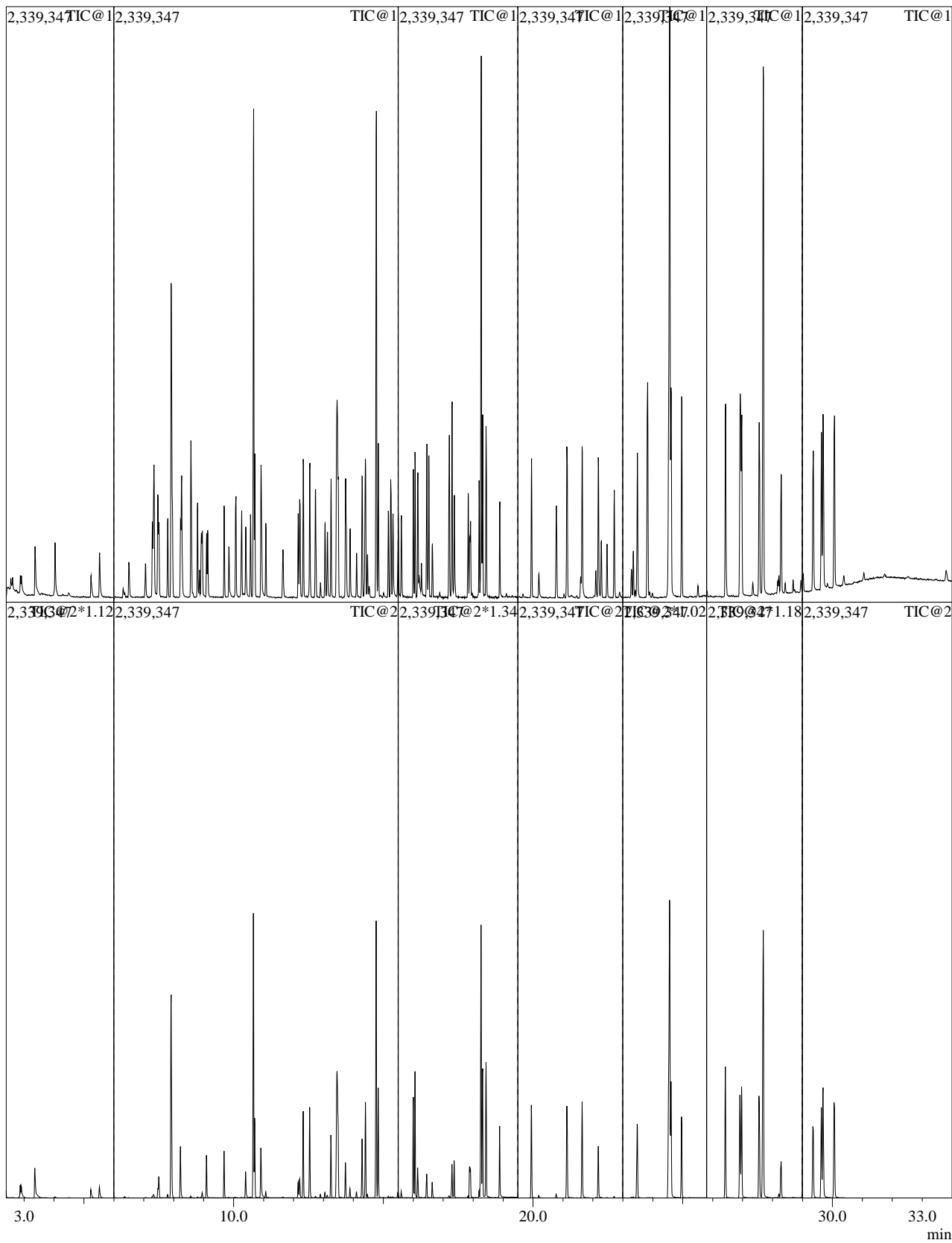
ID#	Name	R.Time	Q ion	Area	Conc.	Unit	%Dev
1	1,4-Dichlorobenzene-D4	7.91	152	430529	20.0000	ng/uL	100.00
2	Naphthalene-D10	10.66	136	1631234	20.0000	ng/uL	100.00
3	Acenaphthene-D10	14.76	164	726567	20.0000	ng/uL	100.00
4	Phenanthrene-D10	18.26	188	1345074	20.0000	ng/uL	100.00
5	Chrysene-D12	24.56	240	1744736	20.0000	ng/uL	100.00
6	Perylene-D12	27.69	264	1603521	20.0000	ng/uL	100.00
12	1,4-Dioxane-d8 (IS)	2.87	64	52655	5.0000	ng/uL	100.00

Surrogate

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Recovery
7	1,2-Dichlorobenzene-D4 (Surr)	8.22	152	99056	4.3917	ng/uL	175.67
8	Nitrobenzene-D5 (Surr)	9.09	82	132469	4.7446	ng/uL	189.78
9	2-Fluorobiphenyl (Surr)	13.25	172	287101	4.6752	ng/uL	187.01
10	2,4,6-Tribromophenol (Surr)	16.63	330	23108	8.2492	ng/uL	219.98
11	Terphenyl-D14 (Surr)	22.18	244	311663	4.4462	ng/uL	177.85
13	1,4-Dioxane-d8 (Surr)	2.87	64	52655	4.4808	ng/uL	89.62

Target

ID#	Name	R.Time	Q ion	Area	Conc.	Unit	Similarity
14	1,4-Dioxane (IS1)	2.91	88	55107	4.5188	ng/uL	94
15	1,4-Dioxane (IS7)	2.91	88	55107	5.0582	ng/uL	94
16	Pyridine	3.36	79	165161	4.4761	ng/uL	97
17	Naphthalene	10.70	128	446926	4.5812	ng/uL	98
18	2-Methylnaphthalene	12.32	142	294019	4.6587	ng/uL	98
19	1-Methylnaphthalene	12.54	142	292293	4.6987	ng/uL	99
20	Biphenyl	13.46	154	330991	4.5609	ng/uL	89
21	Dimethylphthalate	14.29	163	304036	4.7681	ng/uL	63
22	Acenaphthylene	14.40	152	433653	4.7137	ng/uL	85
23	Acenaphthene	14.83	153	271930	4.6158	ng/uL	98
24	Fluorene	16.06	166	302082	4.7110	ng/uL	95
25	Diethylphthalate	16.00	149	341948	4.1501	ng/uL	97
26	Hexachlorobenzene	17.36	284	81981	7.3568	ng/uL	95
27	Pentachloronitrobenzene	17.91	237	32506	5.8456	ng/uL	96
28	Pentachlorophenol	17.88	266	51316	4.6865	ng/uL	92
29	Phenanthrene	18.31	178	435918	4.6024	ng/uL	90
30	Anthracene	18.43	178	459537	4.8539	ng/uL	98
31	Di-n-butylphthalate	19.94	149	623302	4.8608	ng/uL	98
32	Fluoranthene	21.13	202	530416	4.8255	ng/uL	98
33	Pyrene	21.64	202	554025	4.6370	ng/uL	99
34	Butylbenzylphthalate	23.48	149	301161	5.1388	ng/uL	97
35	Benz[a]anthracene	24.53	228	551137	4.5625	ng/uL	99
36	Chrysene	24.61	228	520811	4.5365	ng/uL	98
37	Bis(2-ethylhexyl)phthalate	24.96	149	448078	5.2414	ng/uL	98
38	Di-n-octylphthalate	26.42	149	803433	5.7413	ng/uL	98
39	Benzo[b]fluoranthene	26.91	252	613785	4.8345	ng/uL	96
40	Benzo[k]fluoranthene	26.97	252	549367	4.5672	ng/uL	71
41	Benzo[a]pyrene	27.55	252	543538	4.8688	ng/uL	99
42	Indeno[1,2,3-cd]pyrene	29.63	276	501991	4.8136	ng/uL	97
43	Dibenz[a,h]anthracene	29.69	278	485606	4.8616	ng/uL	94
44	Benzo[ghi]perylene	30.06	276	521652	4.7640	ng/uL	99



PAH Logbooks

HOLDING TIME SUMMARY

8270C SIM

Laboratory: ESS Laboratory

SDG: 1307061

Client: AMEC Environmental and Infrastructure - KPB

Project: Gorham Site C-1 Phase III

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
SS-503-01	06/21/13 12:00	07/02/13 20:05	07/05/13 10:30	13.94	14.00	07/08/13 12:36	3.09	40.00	
SS-503-02	06/21/13 12:10	07/02/13 20:05	07/05/13 10:30	13.93	14.00	07/08/13 13:26	3.12	40.00	
SS-504-01	06/21/13 13:25	07/02/13 20:05	07/05/13 10:30	13.88	14.00	07/08/13 14:16	3.16	40.00	
SS-504-02	06/21/13 13:40	07/02/13 20:05	07/05/13 10:30	13.87	14.00	07/08/13 15:05	3.19	40.00	

SVOA

ESS LABORATORY MS4 RUN LOG

DATE 7/08/13
 ANALYST IBM
 METHOD SIMA4AW
 Internal Std: 3F14001
 Tune Method: DFTPP
 METHOD (2) _____
 Internal Std: _____
 Tune Method: _____

Work orders reported: _____

 MATRIX SEQ ID CAL ID
 SOIL CWG0078 1306027
 AQ CWG0096 1306022

 MATRIX SEQ ID CAL ID
 SOIL _____
 AQ _____

VIAL #	SAMPLE ID	STD ID/COMMENTS	METHOD	FILE ID	MANUAL INT **	BATCH ID	MATRIX	RW	RPT	IMP	BY
1	CWG0078-TUN1	3E23067	DFTPP	250.qgm 3\SV415988.qgd							
1	CWG0078-TUN1	3E23067	DFTPP	250.qgm 3\SV415989.qgd				IBM	X		GMV
2	CWG0078-CCV1	3F29033	3\SIMA4AW.qgm	3\SV415990.qgd				IBM	X		GMV
3	CG30504-BLK1		3\SIMA4AW.qgm	3\SV415991.qgd			CG30504	S	IBM	X	GMV
4	CG30504-BS1		3\SIMA4AW.qgm	3\SV415992.qgd			CG30504	S	IBM	X	GMV
5	CG30504-BSD1	NAPHTH 35%	3\SIMA4AW.qgm	3\SV415993.qgd	40WP		CG30504	S	IBM	X	GMV
6	1307067-03	10X	3\SIMA4AW.qgm	3\SV415994.qgd			CG30241	A	IBM	X	
7	1307061-01		3\SIMA4AW.qgm	3\SV415995.qgd	39/40CO		CG30504	S	IBM	X	GMV
8	1307061-02	S1 LOW	3\SIMA4AW.qgm	3\SV415996.qgd	39/40CO, 43WP		CG30504	S	IBM	X	GMV
9	1307061-03	NEEDS 10X, IS6 LOW (M)	3\SIMA4AW.qgm	3\SV415997.qgd	39/40CO, 43WP		CG30504	S	IBM	X	GMV
10	1307061-04		3\SIMA4AW.qgm	3\SV415998.qgd	39/40CO		CG30504	S	IBM	X	GMV
11	CG30504-MS1		3\SIMA4AW.qgm	3\SV415999.qgd	40WP		CG30504	S	IBM	X	GMV
12	CG30504-MSD1		3\SIMA4AW.qgm	3\SV416000.qgd	40WP,41WP		CG30504	S	IBM	X	GMV
13	1307061-02	10X	3\SIMA4AW.qgm	3\SV416001.qgd	39/40CO, 43WP		CG30504	S	IBM	X	GMV

QUADS: NO
 SCV: OK
 CCAL: OK FOR PAH

Comments: **ENTER COMP. ID#, EXPLANATION

Review (includes a check and review of manual integrations)

SEP 7/9/2013

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
 Client Project ID: _____
 Shipped/Delivered Via: Client

ESS Project ID: 13070061
 Date Project Due: 7/9/13
 Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> No |
| Cooler Temp: <u>4.3</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: _____ | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: _____ | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: _____ | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: _____ | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Samples off hold for PAHs + Metals. (Watch Hold Times!)

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	2	NP
2	Yes	4 oz Soil Jar	1	NP
3	Yes	4 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP

Completed By: PKC

Date/Time: 7/11/13 2:05

Reviewed By: SKP

Date/Time: 7/2/13

ESS Laboratory

Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time Standard Other _____
 If faster than 5 days, prior approval by laboratory is required # _____
 State where samples were collected from:
 MA RI CT NH NJ NY ME Other _____
 Is this project for any of the following:
 MA-MCP Navy USACE Other _____

Reporting Limits Final Page 1 of 2
 ESS LAB PROJECT ID 1307061
 Electronic Deliverable Yes No
 Format: Excel Access PDF Other EXCEL

Co. Name AMEC Environment + Infrastructure
 Contact Person Kelly Chatterton
 City Wakfield State MA Zip 01880 PO# 602202910
 Telephone # 781-245-6606 Fax # _____
 Project # 0652130009 Project Name (20 Char or less) Gorham Site, C-1, PH-III
 Address 107 Audubon Rd. Email Address Kelly.chatterton@amec.com

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis
1	6-21-13	0920	X		S	SS-500-01	1	2	G	X
2	"	1000	X		S	SS-500-02	1	2	G	X
3	"	1030	X		S	SS-501-01	1	2	G	X
4	"	1055	X		S	SS-501-02	1	2	G	X
5	"	1120	X		S	SS-502-01	1	2	G	X
6	"	1130	X		S	SS-502-02	1	1	G	X
01	"	1200	X		S	SS-503-01	1	2	G	X
02	"	1210	X		S	SS-503-02	1	1	G	X
03	"	1325	X		S	SS-504-01	1	2	G	X
04	"	1340	X		S	SS-504-02	1	1	G	X

Metals (Pb + As) (270 SIM) X
 Diagnostics/Furans (290) X
 (HOLD pending AMEC Notification) X
 SS-502-01, SS-503-02, SS-504-01, and SS-504-02 HOLD until AMEC Notification

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-SD-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only Yes No NA: Pickup Technicians

Seals Intact Yes No

Cooler Temp: 4.3 6/21/13

Relinquished by: (Signature) [Signature] Date/Time 6-21-13 1700 Received by: (Signature) _____ Date/Time _____
 Relinquished by: (Signature) [Signature] Date/Time 6/21/13 1700 Received by: (Signature) _____ Date/Time _____

Sampled by: PM/MAM Date/Time _____
 Comments: Sample off Hdd for PAH & Metals

Preservation Code 1-NP, 2-HCl, 3-H₂SO₄, 4-HNO₃, 5-NaOH, 6-MeOH, 7-Asorbic Acid, 8-ZnAct, 9-_____

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A. Please fax all changes to Chain of Custody in writing. 1 (White) Lab Copy 2 (Yellow) Client Retention



CERTIFICATE OF ANALYSIS

FILE COPY

Kelly Chatterton
 AMEC Environmental and Infrastructure
 107 Audubon Road, Suite 301
 Wakefield, MA 01880

**CHECKED FOR COMPLETENESS
 OF PARAMETERS ORDERED BY:**
hjc 10/04/13

RE: Gorham Site C-1 Phase III (3652130009)
ESS Laboratory Work Order Number: 1308518

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
 Laurel Stoddard
 Laboratory Director

REVIEWED
 By ESS Laboratory at 4:50 pm, Oct 04, 2013

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with NELAC Standards, A2LA and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

Columbia Analytical Services - Simi Valley, CA Dioxin - Full List



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1308518

SAMPLE RECEIPT

The following samples were received on August 26, 2013 for the analyses specified on the enclosed Chain of Custody Record.

This sample was originally received on June 21, 2013 as ESS Laboratory Sample ID 1306385-05.

Revision 1 October 4, 2013: This report has been revised to correct narrative notes and to include revised COC.

Lab Number	SampleName	Matrix	Analysis
1308518-01	SS-502-01	Soil	§



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1308518

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1308518

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH / VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5035 - Solid Purge and Trap



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III
Client Sample ID: SS-502-01
Date Sampled: 06/21/13 11:20

ESS Laboratory Work Order: 1308518
ESS Laboratory Sample ID: 1308518-01
Sample Matrix: Soil
Units: %

Dioxins

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Frequency</u>	<u>Batch</u>
Dioxin	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1308518

Notes and Definitions

- Z-08 See Attached
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report



CERTIFICATE OF ANALYSIS

Client Name: AMEC Environmental and Infrastructure
Client Project ID: Gorham Site C-1 Phase III

ESS Laboratory Work Order: 1308518

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP)

A2LA Accredited: Testing Cert# 2864.01
<http://www.a2la.org/scopepdf/2864-01.pdf>

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/labs/waterlabs-instate.php>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI0002
http://www.maine.gov/dep/blwq/topic/vessel/lab_list.pdf

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/labcert/labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://www4.egov.nh.gov/des/nhelap/namesearch.asp>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/dep/DEP_OPRA/

United States Department of Agriculture Soil Permit: S-54210

Maryland Potable Water: 301
http://www.mde.state.md.us/assets/document/WSP_labs-2009apr20.pdf

CHEMISTRY

A2LA Accredited: Testing Cert # 2864.01
Lead in Paint, Phthalates, Lead in Children's Metals Products (Including Jewelry)
<http://www.A2LA.org/dirsearchnew/newsearch.cfm>

CPSC ID# 1141
Lead Paint, Lead in Children's Metals Jewelry
<http://www.cpsc.gov/cgi-bin/labapplist.aspx>



September 21, 2013

Service Request No: E1301138

Elizabeth Ouk
ESS Laboratories
eouk@thielsch.com
195 Frances Avenue
Cranston, RI 02910

Laboratory Results for: 1308518

Dear Elizabeth:

Enclosed are the results of the sample(s) submitted to our laboratory on August 30, 2013. For your reference, these analyses have been assigned our service request number **E1301138**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the final complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the TNI 2009 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2970. You may also contact me via email at Nicole.Brown@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Nicole Brown
Project Manager

Page 1 of _____

For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com.

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ALS GROUP USA, CORP. Part of the ALS Group An ALS Limited Company



www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER
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Certificate of Analysis

ALS Environmental - Houston HRMS
19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client: ESS Laboratory
Project: 1308518
Sample Matrix: Soil

Service Request No.: E1301138
Date Received: 08/30/13

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One soil sample was received for analysis at ALS Environmental on 08/30/13.

The following discrepancies were noted upon initial sample inspection: no custody seals on cooler. The exceptions are also noted on the cooler receipt and preservation form included in this data package.

The sample was received at 0°C in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

B flags – Method Blanks

The Method Blank EQ1300532-01 contained low levels of various compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags.

MS/MSD

EQ1300532: One Laboratory Control Spike (LCS) sample was analyzed and reported in addition to an MS/MSD for this extraction batch. The batch quality control criteria were met. The batch precision (MS/DMS) measurements were determined on another order in the extraction batch. The MS/DMS results are not included in this report.

C flags – 2378-TCDF Confirmation

The samples had a detection for 2,3,7,8-TCDF above the MRL on the initial analysis on the DB-5 column. This result was confirmed on the DB-225 column. The result is qualified with a C-qualifier indicating that the valid result is reported from the confirmation column. The confirmation result was used in the final TEQ calculation.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- 2378-TCDF from the DB-225 column, when confirmation required
- Non-detected compounds are not included in the 'Total'

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ESS Laboratories
Project: 1308518

Service Request: E1301138

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E1301138-001	1308518-1	6/21/13	11:20

Laboratory Certifications 2012-2013

STATE/PROGRAM	AGENCY	CERT#	EXP DATE	CERTIFIED?
ARIZONA	AZ-DHS	AZ0725	05/27/14	Yes
ARKANSAS	ADEQ	12-035-0	06/16/14	Yes
CALIFORNIA	CA-ELAP	2452	02/28/15	Yes
DoD ELAP	A2LA	2897.01	11/30/13	Yes
FLORIDA/NELAP	FL-DOHS	E87611	06/30/14	Yes
HAWAII	HI-DOH	N/A	06/30/14	Yes
ILLINOIS/NELAP	IL-EPA	003004	10/06/13	Yes
ISO 17025	A2LA	2897.01	11/30/13	Yes
KANSAS	KS-DHE	E-10406	01/31/14	Yes
LOUISIANA/NELAP	LELAP	03048	06/30/14	Yes
LOUISIANA/NELAP	LDHH	LA120014	12/31/13	Yes
MAINE	ME-DOHS	2012017	06/05/14	Yes
MARYLAND	MDE	343	06/30/14	Yes
MICHIGAN	MIDEQ	9971	06/30/13	Yes
MINNESOTA	MDH	048-999-427	12/31/13	Yes
NEVADA	NDEP	TX014112013A	07/31/13	Yes
NEW JERSEY	NJDEP	TX008	06/30/14	Yes
NEW MEXICO	NMED-DWB	N/A	06/30/13	Yes
NEW YORK/NELAP	NY-DOH	11707	04/01/14	Yes
OKLAHOMA	OKDEQ	2012-133	08/31/13	Yes
OREGON/NELAP	ORELAP	TX200002-009	03/24/14	Yes
PENNSYLVANIA/NELAP	PLAP	68-03441	06/30/14	Yes
SOIL IMPORT PERMIT	USDA	P330-12-00002	01/13/15	Yes
TENNESSEE	TNDEC	TN04016	06/30/14	Yes
TEXAS/NELAP	TCEQ	T104704216-12-3	06/30/14	Yes
UTAH/NELAP	UTELCP	TX014112013-2	06/30/13	Yes
WASHINGTON/NELAP	WA-Ecology	C819-12	11/14/13	Yes
WEST VIRGINIA	WVDEP	347	07/31/13	Yes

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – Dioxin/Furans

- B** Indicates the associated analyte is found in the method blank, as well as in the sample
- C** 2378-TCDF is detected on the DB-5 column above the MRL, confirmation analysis was performed on a second column (DB-225.) The results from both the DB-5 column and the DB-225 column are included in this data package. The results from the DB-225 analyses should be used to evaluate the 2378-TCDF in the samples. The confirmed result are used in determining the TEQ value for TCDF.
- E** The reported result is above the instrument calibration range and is an estimated value.
- J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)
- K** Ion abundance ratios between the primary and secondary ions were outside of theoretical acceptance limits. The reported result is an estimated maximum possible concentration (EMPC)
- i** The associated MRL/MDL has been elevated due to matrix interference.
- U** Indicates the compound was analyzed for, but not detected (ND)
- Y** C13-Labeled standard percent recoveries are outside of method acceptance limits
- S** Peak is saturated; data not reportable
- P** Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
- X** See case narrative

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1301138

DB-5

DB-225

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 09/17/13	Analyst: JC	Samples: 001

Second Level - Data Review – to be filled by person doing peer review

Date: 09/17/13	Analyst: [Signature]	Samples: 001

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E1301138

DB-5

DB-225

SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date: 09/20/13	Analyst: JS	Samples: 001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
09/21/13	UK	001



Analytical Results

ALS Environmental - Houston HRMS
19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: 1308518-1
Lab Code: E1301138-001

Service Request: E1301138
Date Collected: 6/21/13 1120
Date Received: 8/30/13
Units: ng/Kg
Basis: Dry
Percent Solids: 92.4

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.019g
Data File Name: P225096
ICAL Date: 05/03/12

Date Analyzed: 9/16/13 2033
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P225091

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.109	0.540			1
1,2,3,7,8-PeCDD	0.263	BJ	0.0536	2.70	1.47	1.000	1
1,2,3,4,7,8-HxCDD	0.252	BJK	0.0794	2.70	0.79	1.000	1
1,2,3,6,7,8-HxCDD	0.448	BJ	0.0819	2.70	1.27	1.000	1
1,2,3,7,8,9-HxCDD	0.530	BJ	0.0792	2.70	1.06	1.008	1
1,2,3,4,6,7,8-HpCDD	3.07		0.142	2.70	1.04	1.000	1
OCDD	22.8		0.482	5.40	0.92	1.000	1
2,3,7,8-TCDF	1.20	C	0.0513	0.540	0.78	1.001	1
1,2,3,7,8-PeCDF	0.397	J	0.115	2.70	1.32	1.001	1
2,3,4,7,8-PeCDF	0.617	J	0.115	2.70	1.39	1.000	1
1,2,3,4,7,8-HxCDF	0.966	BJK	0.131	2.70	1.01	1.000	1
1,2,3,6,7,8-HxCDF	0.555	BJ	0.107	2.70	1.21	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	0.181	2.70			1
2,3,4,6,7,8-HxCDF	1.05	BJ	0.126	2.70	1.14	1.000	1
1,2,3,4,6,7,8-HpCDF	2.08	BJ	0.0802	2.70	1.16	1.000	1
1,2,3,4,7,8,9-HpCDF	0.323	BJK	0.113	2.70	0.85	1.000	1
OCDF	3.00	BJ	0.149	5.40	0.91	1.004	1
Total Tetra-Dioxins	0.257	J	0.109	0.540	0.75		1
Total Penta-Dioxins	2.05	J	0.0536	2.70	1.39		1
Total Hexa-Dioxins	2.99		0.0802	2.70	1.32		1
Total Hepta-Dioxins	6.09		0.142	2.70	1.13		1
Total Tetra-Furans	6.60		0.0513	0.540	0.81		1
Total Penta-Furans	18.6		0.115	2.70	1.55		1
Total Hexa-Furans	9.44		0.132	2.70	1.18		1
Total Hepta-Furans	2.08	J	0.0949	2.70	1.16		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: 1308518-1
Lab Code: E1301138-001

Service Request: E1301138
Date Collected: 6/21/13 1120
Date Received: 8/30/13
Units: Percent
Basis: Dry
Percent Solids: 92.4

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.019g
Data File Name: P225096
ICAL Date: 05/03/12

Date Analyzed: 9/16/13 2033
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P225091

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1409.799	70		40-135	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1055.172	53		40-135	1.58	1.186
13C-1,2,3,4,7,8-HxCDD	2000	1259.425	63		40-135	1.28	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1377.683	69		40-135	1.26	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1215.995	61		40-135	1.09	1.069
13C-OCDD	4000	1881.892	47		40-135	0.93	1.147
13C-2,3,7,8-TCDF	2000	1500.924	75		40-135	0.81	0.976
13C-1,2,3,7,8-PeCDF	2000	1082.127	54		40-135	1.61	1.144
13C-2,3,4,7,8-PeCDF	2000	1074.810	54		40-135	1.61	1.172
13C-1,2,3,4,7,8-HxCDF	2000	1264.443	63		40-135	0.53	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1668.952	83		40-135	0.54	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1348.583	67		40-135	0.54	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1454.007	73		40-135	0.53	0.986
13C-1,2,3,4,6,7,8-HpCDF	2000	1162.317	58		40-135	0.44	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1247.346	62		40-135	0.44	1.079
37Cl-2,3,7,8-TCDD	800	627.077	78		40-135	NA	1.010

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: 1308518-1
Lab Code: E1301138-001

Service Request: E1301138
Date Collected: 6/21/13 1120
Date Received: 8/30/13
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.109	0.540	1	1	
1,2,3,7,8-PeCDD	0.263	0.0536	2.70	1	1	0.263
1,2,3,4,7,8-HxCDD	0.252	0.0794	2.70	1	0.1	0.0252
1,2,3,6,7,8-HxCDD	0.448	0.0819	2.70	1	0.1	0.0448
1,2,3,7,8,9-HxCDD	0.530	0.0792	2.70	1	0.1	0.0530
1,2,3,4,6,7,8-HpCDD	3.07	0.142	2.70	1	0.01	0.0307
OCDD	22.8	0.482	5.40	1	0.0003	0.00684
2,3,7,8-TCDF	ND	0.599	0.599	1	0.1	
1,2,3,7,8-PeCDF	0.397	0.115	2.70	1	0.03	0.0119
2,3,4,7,8-PeCDF	0.617	0.115	2.70	1	0.3	0.185
1,2,3,4,7,8-HxCDF	0.966	0.131	2.70	1	0.1	0.0966
1,2,3,6,7,8-HxCDF	0.555	0.107	2.70	1	0.1	0.0555
1,2,3,7,8,9-HxCDF	ND	0.181	2.70	1	0.1	
2,3,4,6,7,8-HxCDF	1.05	0.126	2.70	1	0.1	0.105
1,2,3,4,6,7,8-HpCDF	2.08	0.0802	2.70	1	0.01	0.0208
1,2,3,4,7,8,9-HpCDF	0.323	0.113	2.70	1	0.01	0.00323
OCDF	3.00	0.149	5.40	1	0.0003	0.000900
Total TEQ						0.902

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: 1308518-1
Lab Code: E1301138-001

Service Request: E1301138
Date Collected: 6/21/13 1120
Date Received: 8/30/13
Units: ng/Kg
Basis: Dry
Percent Solids: 92.4

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.019g
Data File Name: U147927
ICAL Date: 05/21/13

Date Analyzed: 9/20/13 1733
Date Extracted: 9/5/13
Instrument Name: E-HRMS-01
GC Column: DB-225
Blank File Name: U147926
Cal Ver. File Name: U147925

Confirmation/Dilution Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDF	ND	U	0.599	0.599			1

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDF	2000	1380.546	69		40-135	0.81	1.064
37Cl-2,3,7,8-TCDD	800	657.583	82		40-135	NA	0.991

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil

Service Request: E1301138
Date Collected: 6/21/13 1120
Date Received: 8/30/13
Date Analyzed: 9/9/13 09:43

Sample Name: 1308518-1
Lab Code: E1301138-001

Units: Percent
Basis: As Received

Total Solids Run Create

Analytical Method: CAS SOP
Data File Name:

Analysis Lot: 356999
Instrument Name: E-Balance-01
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
	Total Solids	92.4				

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: EQ1300532-01

Service Request: E1301138
Date Collected: NA
Date Received: NA
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.090g
Data File Name: P224958
ICAL Date: 05/03/12

Date Analyzed: 9/10/13 1507
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P224955

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	0.110	0.496			1
1,2,3,7,8-PeCDD	0.155	JK	0.0405	2.48	2.40	1.001	1
1,2,3,4,7,8-HxCDD	0.148	JK	0.0446	2.48	1.02	1.001	1
1,2,3,6,7,8-HxCDD	0.200	JK	0.0494	2.48	0.92	1.000	1
1,2,3,7,8,9-HxCDD	0.202	J	0.0462	2.48	1.13	1.008	1
1,2,3,4,6,7,8-HpCDD	0.282	JK	0.0774	2.48	1.21	1.000	1
OCDD	1.53	J	0.336	4.96	0.95	1.000	1
2,3,7,8-TCDF	ND	U	0.0525	0.496			1
1,2,3,7,8-PeCDF	ND	U	0.0628	2.48			1
2,3,4,7,8-PeCDF	ND	U	0.0605	2.48			1
1,2,3,4,7,8-HxCDF	0.180	JK	0.0249	2.48	1.83	1.000	1
1,2,3,6,7,8-HxCDF	0.166	J	0.0215	2.48	1.33	1.000	1
1,2,3,7,8,9-HxCDF	0.165	JK	0.0343	2.48	0.98	1.000	1
2,3,4,6,7,8-HxCDF	0.141	JK	0.0229	2.48	0.80	1.000	1
1,2,3,4,6,7,8-HpCDF	0.361	J	0.0667	2.48	0.93	1.000	1
1,2,3,4,7,8,9-HpCDF	0.236	J	0.0995	2.48	0.92	1.000	1
OCDF	1.85	JK	0.193	4.96	1.06	1.004	1
Total Tetra-Dioxins	ND	U	0.110	0.496			1
Total Penta-Dioxins	ND	U	0.0405	2.48			1
Total Hexa-Dioxins	0.202	J	0.0468	2.48	1.13		1
Total Hepta-Dioxins	ND	U	0.0774	2.48			1
Total Tetra-Furans	ND	U	0.0525	0.496			1
Total Penta-Furans	ND	U	0.0617	2.48			1
Total Hexa-Furans	0.166	J	0.0252	2.48	1.33		1
Total Hepta-Furans	0.596	J	0.0812	2.48	0.93		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: EQ1300532-01

Service Request: E1301138
Date Collected: NA
Date Received: NA
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.090g
Data File Name: P224958
ICAL Date: 05/03/12

Date Analyzed: 9/10/13 1507
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P224955

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1564.886	78		40-135	0.77	1.008
13C-1,2,3,7,8-PeCDD	2000	1347.186	67		40-135	1.57	1.184
13C-1,2,3,4,7,8-HxCDD	2000	1497.094	75		40-135	1.30	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1478.773	74		40-135	1.28	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1481.356	74		40-135	1.08	1.069
13C-OCDD	4000	2687.422	67		40-135	0.91	1.147
13C-2,3,7,8-TCDF	2000	1713.246	86		40-135	0.81	0.976
13C-1,2,3,7,8-PeCDF	2000	1436.960	72		40-135	1.60	1.143
13C-2,3,4,7,8-PeCDF	2000	1419.884	71		40-135	1.61	1.170
13C-1,2,3,4,7,8-HxCDF	2000	1471.637	74		40-135	0.53	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1792.692	90		40-135	0.53	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1513.613	76		40-135	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1712.753	86		40-135	0.54	0.986
13C-1,2,3,4,6,7,8-HpCDF	2000	1445.131	72		40-135	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1492.715	75		40-135	0.44	1.079
37Cl-2,3,7,8-TCDD	800	653.596	82		40-135	NA	1.009



Accuracy and Precision

ALS Environmental - Houston HRMS
19408 Park Row, Suite 320, Houston, TX 77084
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil

Service Request: E1301138
Date Analyzed: 9/10/13

Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method

Units: ng/Kg
Basis: Dry

Extraction Lot: 191055

Lab Control Sample
 EQ1300532-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,3,7,8-TCDD	18.1	20.0	91	70 - 130
1,2,3,7,8-PeCDD	100	100	100	70 - 130
1,2,3,4,7,8-HxCDD	93.4	100	93	70 - 130
1,2,3,6,7,8-HxCDD	101	100	101	70 - 130
1,2,3,7,8,9-HxCDD	98.5	100	99	70 - 130
1,2,3,4,6,7,8-HpCDD	89.7	100	90	70 - 130
OCDD	195	200	98	70 - 130
2,3,7,8-TCDF	18.9	20.0	95	70 - 130
1,2,3,7,8-PeCDF	107	100	107	70 - 130
2,3,4,7,8-PeCDF	104	100	104	70 - 130
1,2,3,4,7,8-HxCDF	98.4	100	98	70 - 130
1,2,3,6,7,8-HxCDF	91.5	100	92	70 - 130
1,2,3,7,8,9-HxCDF	101	100	101	70 - 130
2,3,4,6,7,8-HxCDF	92.9	100	93	70 - 130
1,2,3,4,6,7,8-HpCDF	91.6	100	92	70 - 130
1,2,3,4,7,8,9-HpCDF	94.6	100	95	70 - 130
OCDF	220	200	110	70 - 130

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: Lab Control Sample
Lab Code: EQ1300532-02

Service Request: E1301138
Date Collected: NA
Date Received: NA
Units: ng/Kg
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.004g
Data File Name: P224965
ICAL Date: 05/03/12

Date Analyzed: 9/10/13 2047
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P224955

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	18.1		0.0668	0.500	0.78	1.001	1
1,2,3,7,8-PeCDD	100		0.0353	2.50	1.57	1.001	1
1,2,3,4,7,8-HxCDD	93.4		0.0790	2.50	1.26	1.000	1
1,2,3,6,7,8-HxCDD	101		0.0842	2.50	1.27	1.000	1
1,2,3,7,8,9-HxCDD	98.5		0.0803	2.50	1.24	1.009	1
1,2,3,4,6,7,8-HpCDD	89.7		0.0871	2.50	1.04	1.000	1
OCDD	195		1.20	5.00	0.88	1.000	1
2,3,7,8-TCDF	18.9		0.0639	0.500	0.76	1.001	1
1,2,3,7,8-PeCDF	107		0.0466	2.50	1.56	1.001	1
2,3,4,7,8-PeCDF	104		0.0465	2.50	1.55	1.001	1
1,2,3,4,7,8-HxCDF	98.4		0.0683	2.50	1.24	1.000	1
1,2,3,6,7,8-HxCDF	91.5		0.0587	2.50	1.25	1.000	1
1,2,3,7,8,9-HxCDF	101		0.0993	2.50	1.22	1.000	1
2,3,4,6,7,8-HxCDF	92.9		0.0622	2.50	1.25	1.000	1
1,2,3,4,6,7,8-HpCDF	91.6		0.140	2.50	1.01	1.000	1
1,2,3,4,7,8,9-HpCDF	94.6		0.200	2.50	1.03	1.000	1
OCDF	220		0.427	5.00	0.90	1.004	1
Total Tetra-Dioxins	18.1		0.0668	0.500	0.78		1
Total Penta-Dioxins	100		0.0353	2.50	1.57		1
Total Hexa-Dioxins	293		0.0812	2.50	1.26		1
Total Hepta-Dioxins	89.7		0.0871	2.50	1.04		1
Total Tetra-Furans	18.9		0.0639	0.500	0.76		1
Total Penta-Furans	212		0.0466	2.50	1.51		1
Total Hexa-Furans	384		0.0698	2.50	1.24		1
Total Hepta-Furans	186		0.167	2.50	1.01		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ESS Laboratories
Project: 1308518
Sample Matrix: Soil
Sample Name: Lab Control Sample
Lab Code: EQ1300532-02

Service Request: E1301138
Date Collected: NA
Date Received: NA
Units: Percent
Basis: Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method
Sample Amount: 10.004g
Data File Name: P224965
ICAL Date: 05/03/12

Date Analyzed: 9/10/13 2047
Date Extracted: 9/5/13
Instrument Name: E-HRMS-04
GC Column: DB-5
Blank File Name: P224958
Cal Ver. File Name: P224955

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1568.400	78		40-135	0.78	1.009
13C-1,2,3,7,8-PeCDD	2000	1261.575	63		40-135	1.59	1.185
13C-1,2,3,4,7,8-HxCDD	2000	1361.453	68		40-135	1.29	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1527.473	76		40-135	1.30	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1426.467	71		40-135	1.07	1.069
13C-OCDD	4000	2401.825	60		40-135	0.92	1.147
13C-2,3,7,8-TCDF	2000	1693.401	85		40-135	0.80	0.976
13C-1,2,3,7,8-PeCDF	2000	1365.913	68		40-135	1.61	1.143
13C-2,3,4,7,8-PeCDF	2000	1343.924	67		40-135	1.61	1.171
13C-1,2,3,4,7,8-HxCDF	2000	1467.854	73		40-135	0.53	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1714.140	86		40-135	0.53	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1440.215	72		40-135	0.53	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1687.940	84		40-135	0.54	0.986
13C-1,2,3,4,6,7,8-HpCDF	2000	1390.465	70		40-135	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1472.690	74		40-135	0.45	1.079
37Cl-2,3,7,8-TCDD	800	626.107	78		40-135	NA	1.010



Chain of Custody

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ESS Laboratory

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 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com


Columbia Analytical

CHAIN OF CUSTODY

Revise SUB COC

Page 1 of 1

Turn Time If faster than 5 days, prior approval by laboratory is required # _____	<input checked="" type="checkbox"/> Standard Other _____	Reporting Limits	ESS LAB PROJECT ID
State where samples were collected from: MA <u>(RI)</u> CT NH NJ NY ME Other _____		Electronic Deliverable Yes <input checked="" type="checkbox"/> No _____	Format: Excel <input checked="" type="checkbox"/> Access _____ PDF <input checked="" type="checkbox"/> Other <u>Equis</u>
Is this project for any of the following: MA-MCP Navy USACE Other _____			

Co. Name		Project #		Project Name (20 Char. or less)		Write Required Analysis NB 8/30/13 E1301151-5 ESS Laboratories 8290 Solids E1301138 			
Contact Person <i>Liz Dunk</i>		Address <i>1308 218</i>							
City		State		Zip					
Telephone #		Fax #		Email Address <i>edunk@thielsch.com</i>					
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX			Sample Identification (20 Char. or less)	Pres Code
	<i>6-21-13</i>	<i>11:20</i> <i>10:30</i>	<input checked="" type="checkbox"/>		<i>S</i>	<i>1308518-1 (1)</i>	<i>116</i>	<i>6</i>	<i>1 Dixon Full List</i> <i>Method 8090</i>

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present Yes No Internal Use Only _____

Seals Intact Yes No NA: _____ [] Pickup

Cooler Temp: _____ [] Technicians _____

Preservation Code 1- NP, 2- HCl, 3- H₂SO₄, 4- HNO₃, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by: _____

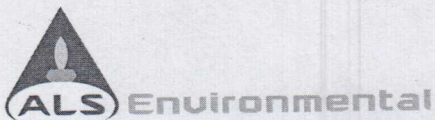
Comments: *E08/29/13*
(1) Revise COC, please replace this sample with sample sent 8/29/13

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time <i>7/26/13</i>	Received by: (Signature) <i>UPS</i>	Date/Time <i>7/26/13</i>	Relinquished by: (Signature) <i>[Signature]</i>	Date/Time <i>8/29/13</i>	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>8/30/13</i>

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt



Cooler Receipt Form

Project Chemist VRS

E1301151 NB 8/30/13
 ESS Laboratories
 8290 Solids E1301138

Client/Project ESS Laboratory; 1308018

Date/Time Received: 8/30/13 1012 Initials: AL Date/Time Logged in: 8/30/13 1045 Initials: MR

1. Method of delivery: US Mail Fed Ex UPS DHL Courier Client
2. Samples received in: Cooler Box Envelope Other
3. Were custody seals on coolers? Yes No N/A If yes, how many and where?
- Were they intact? Yes No N/A
- Were they signed and dated? Yes No N/A
4. Packing Material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other
5. Foreign or Regulated Soil? Yes No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?	Filed
12037497 904605 5355		8/30/13	1012	AL	2/3	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

6. Were custody papers properly filled out (ink, signed, dated, etc)? Yes No N/A
7. Did all bottles arrive in good condition (not broken, no signs of leakage)? Yes No N/A
8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? Yes No N/A
9. Were appropriate bottles/containers and volumes received for the requested tests? Yes No N/A
10. Did sample labels and tags agree with custody documents? Yes No N/A

Notes, Discrepancies, & Resolutions:

Sample logged in as E1301138. NB 9/3/13



SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sample
- ✓ The COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report.

Service Request Summary

Folder #: E1301138
Client Name: ESS Laboratories
Project Name: 1308518
Project Number:

Report To: Elizabeth Ouk
 ESS Laboratories
 eouk@thielsch.com
 195 Frances Avenue
 Cranston, RI 02910

Phone Number: 401-461-7181
Cell Number:
Fax Number: 401-461-4486
E-mail: eouk@thielsch.com

Project Chemist: Nicole Brown
Originating Lab: HOUSTON
Logged By: MRIVERA
Date Received: 8/30/13
Internal Due Date: 9/20/13
QAP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number: 1308518
EDD: BASIC_WMB_CASNO_TIMES

2 .4 oz-Glass Jar WM CLEAR Teflon Liner Unpreserved

Location: SampleCustodian, E-WIC01

CAS Samp No	Client Samp No.	Matrix	Collected	SVM	
				8290/ PCDD PCDF	CAS SOP/ Total Solids
E1301138-001	1308518-1	Soil	6/21/13 1120	II	II

Folder Comments:

Sample received on 8/28 cancelled by client. Replacement that the client wants tested received 8/30/13 NB

Out of recommended hold. NB 9/4/13

Per Elizabeth Ouk,the client wants to continue with the analysis. NB 9/9/13

Preparation Information Benchsheet

Prep Run#: 191055
Team: Semivoa GCMS/HLEUNG

Prep Workflow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/5/13 03:33 PM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	E1301138-001	1308518-1	.01	8290/PCDD PCDF		Soil	10.019g	Brown Soil
2	E1301147-001	SS-9-NS-1.0	.01	8290/PCDD PCDF		Soil	10.137g	Light Brown Soil With Rocks
3	E1301147-002	SS-17-NS-0.5	.01	8290/PCDD PCDF		Soil	10.039g	Light Brown Soil With Rocks
4	E1301147-003	SS-17-NS-1.0	.01	8290/PCDD PCDF		Soil	10.469g	Light Brown Soil With Rocks
5	E1301147-004	SS-18-NS-0.5	.01	8290/PCDD PCDF		Soil	10.280g	Light Brown Soil With Rocks
6	E1301147-005	SS-18-NS-1.0	.01	8290/PCDD PCDF		Soil	10.272g	Light Brown Soil With Rocks
7	E1301147-006	SED-107-NS-1.0	.01	8290/PCDD PCDF		Soil	10.085g	Red/Brown Dirt
8	E1301147-007	SED-108-NS-1.0	.01	8290/PCDD PCDF		Soil	10.156g	Dark Brown Soil With Rocks
9	E1301147-008	SED-109-NS-1.0	.01	8290/PCDD PCDF		Soil	10.121g	Brown Mud With Rocks
10	E1301147-009	SED-110-NS-1.0	.01	8290/PCDD PCDF		Soil	10.260g	Wet Brown Mud
11	E1301160-001	P66-Comp	.01	8290/PCDD PCDF		Soil	10.486g	Wet Black and Grey Sludge
12	EQ1300532-01	MB		8290/PCDD PCDF		Solid	10.090g	
13	EQ1300532-02	LCS		8290/PCDD PCDF		Solid	10.004g	
14	EQ1300532-03	P66-Comp MS	.01	8290/PCDD PCDF		Solid	10.250g	
15	EQ1300532-04	P66-Comp DMS	.01	8290/PCDD PCDF		Solid	10.514g	
16	EQ1300532-05	P66-Comp DUP	.01	8290/PCDD PCDF		Solid	10.111g	
17	K1308846-013	MOA13DXN002	.05	8290/PCDD PCDF		Sludge, Solid	10.134g	Grey Sludge

Preparation Information Benchsheet

Prep Run#: 191055
Team: Semivoa GCMS/HLEUNG

Prep WorkFlow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/5/13 03:33 PM

Spiking Solutions

Name: 1613B Labeled Working Standard	Inventory ID: 61541	Logbook Ref: 61541 WM 8/30/13 WT MR	Expires On: 08/05/2014
--------------------------------------	---------------------	-------------------------------------	------------------------

EQ1300532-01 1,000.00µL EQ1300532-02 1,000.00µL

Name: 1613B Matrix Working Standard	Inventory ID: 61544	Logbook Ref: 61544 HLEUNG 8/30/13 WT WM	Expires On: 08/30/2014
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EQ1300532-02 100.00µL EQ1300532-03 100.00µL EQ1300532-04 100.00µL

Name: 8290/1613B Cleanup Working Standard	Inventory ID: 61596	Logbook Ref: 61596 HLEUNG 9/3/13 WT WM	Expires On: 09/03/2014
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E1301138-001 100.00µL	E1301147-001 100.00µL	E1301147-002 100.00µL	E1301147-003 100.00µL	E1301147-004 100.00µL	E1301147-005 100.00µL
E1301147-006 100.00µL	E1301147-007 100.00µL	E1301147-008 100.00µL	E1301147-009 100.00µL	E1301160-001 100.00µL	EQ1300532-01 100.00µL
EQ1300532-02 100.00µL	EQ1300532-03 100.00µL	EQ1300532-04 100.00µL	EQ1300532-05 100.00µL	K1308846-013 100.00µL	

Name: 1613B Labeled Working Standard	Inventory ID: 61695	Logbook Ref: 61695 AK 090513/WT JW	Expires On: 10/05/2013
--------------------------------------	---------------------	------------------------------------	------------------------

E1301138-001 1,000.00µL	E1301147-001 1,000.00µL	E1301147-002 1,000.00µL	E1301147-003 1,000.00µL	E1301147-004 1,000.00µL	E1301147-005 1,000.00µL
E1301147-006 1,000.00µL	E1301147-007 1,000.00µL	E1301147-008 1,000.00µL	E1301147-009 1,000.00µL	E1301160-001 1,000.00µL	EQ1300532-03 1,000.00µL
EQ1300532-04 1,000.00µL	EQ1300532-05 1,000.00µL	K1308846-013 1,000.00µL			

Preparation Materials

Carbon, High Purity	AL 08/20/13 (61222)	Ethyl Acetate 99.9% Minimum	MR8/8/13 (60866)	Glass Wool	8/19/13MR (61194)
Sulfuric Acid Reagent Grade H2SO4	AL 07/18/13 (60058)	EtOAc			
Sodium Chloride Reagent Grade NaCl	C2-65-5 (38670)	Hexanes 95%	AL 08/15/13 (61034)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	AL 08/15/13 (61037)
Tridecane (n-Tridecane)	MR7/29/13 (60418)	Sodium Hydroxide Reagent Grade NaOH	C2-73-7 (53023)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	AL 08/13/13 (60956)
		Silica Gel Reagent Grade	AL 08/15/13 (61051)	Toluene 99.9% Minimum	AL 08/15/13 (61035)

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 9/5/13 15:33	Started: 9/7/13 10:00	Started: 9/9/13 09:00	Started: 9/9/13 15:30
Finished: 9/6/13 09:10	Finished: 9/7/13 10:40	Finished: 9/9/13 12:30	Finished: 9/9/13 16:30
By: JWEBSTER	By: CDIAZ	By: HLEUNG	By: HLEUNG
Comments	Comments	Comments	Comments

Comments: _____

Preparation Information Benchsheet

Prep Run#: 191055
Team: Semivoa GCMS/HLEUNG

Prep WorkFlow: OrgExtDioxS(30)
Prep Method: Method

Status: Prepped
Prep Date/Time: 9/5/13 03:33 PM

Reviewed By: TL Date: 9/10/13

Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes No

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 13080518 **REV1**
Date Project Due: 9/2/13
Days For Project: 5 Day

Items to be checked upon receipt:

- 1. Air Bill Manifest Present? * No
- Air No.:
- 2. Were Custody Seals Present? No
- 3. Were Custody Seals Intact? N/A
- 4. Is Radiation count < 100 CPM? Yes
- 5. Is a cooler present? Yes
- Cooler Temp: 4.3
- Iced With: Ice
- 6. Was COC included with samples? Yes
- 7. Was COC signed and dated by client? Yes
- 8. Does the COC match the sample Yes
- 9. Is COC complete and correct? Yes

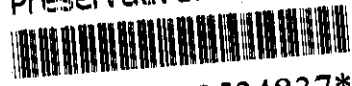
- 10. Are the samples properly preserved? Yes
- 11. Proper sample containers used? Yes
- 12. Any air bubbles in the VOA vials? N/A
- 13. Holding times exceeded? No
- 14. Sufficient sample volumes? Yes
- 15. Any Subcontracting needed? * Yes
- 16. Are ESS labels on correct containers? Yes No
- 17. Were samples received intact? Yes No
- ESS Sample IDs: 13080518-1
- Sub Lab: Columbia Analytical - TX
- Analysis: Dioxin / Furans
- TAT: Std

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	2	NP

Completed By: [Signature] Date/Time: 8/29/13 1611
Reviewed By: EO Date/Time: 8/29/13 16:30

013060385-5
Preservative: NP

01000000534837

Sample and Cooler Receipt Checklist

Client: AMEC Earth and Environmental
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 13080518
Date Project Due: 9/2/13
Days For Project: 5 Day

Items to be checked upon receipt:

- | | | | |
|--|-------------------------------|---|---|
| 1. Air Bill Manifest Present? | <input type="checkbox"/> * No | 10. Are the samples properly preserved? | <input type="checkbox"/> Yes |
| Air No.: | | 11. Proper sample containers used? | <input type="checkbox"/> Yes |
| 2. Were Custody Seals Present? | <input type="checkbox"/> No | 12. Any air bubbles in the VOA vials? | <input type="checkbox"/> N/A |
| 3. Were Custody Seals Intact? | <input type="checkbox"/> N/A | 13. Holding times exceeded? | <input type="checkbox"/> No |
| 4. Is Radiation count < 100 CPM? | <input type="checkbox"/> Yes | 14. Sufficient sample volumes? | <input type="checkbox"/> Yes |
| 5. Is a cooler present? | <input type="checkbox"/> Yes | 15. Any Subcontracting needed? | <input type="checkbox"/> * Yes |
| <u>Cooler Temp: 4.3</u> | | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <u>Iced With: Ice</u> | | 17. Were samples received intact? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples? | <input type="checkbox"/> Yes | ESS Sample IDs: <u>1308518-1</u> | |
| 7. Was COC signed and dated by client? | <input type="checkbox"/> Yes | Sub Lab: <u>Columbia Any.</u> | |
| 8. Does the COC match the sample | <input type="checkbox"/> Yes | Analysis: <u>Dioxin/Furan</u> | |
| 9. Is COC complete and correct? | <input type="checkbox"/> Yes | TAT: <u>Std</u> | |

18. Was there need to call project manager to discuss status? If yes, please explain.

Off Hold as 9/2/13

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP

Completed By: [Signature] Date/Time: 9/26/13 1609
Reviewed By: [Signature] Date/Time: 9/26/13 1610

013060385-3
Preservative: NP
010000000534823

1308518

CHAIN OF CUSTODY

Page 1 of 2

ESS Laboratory
 Division of Thielsch Engineering, Inc.
 185 Frances Avenue, Cranston, RI 02910-2211
 Tel. (401) 461-7181 Fax (401) 461-4486
 www.esslaboratory.com

ESS LAB PROJECT ID: 1306385

Reporting Limits: RT DEC
Residual

Electronic Deliverable: Yes No

Format: Excel Access PDF Other EXCEL

Co. Name	Project #	Project Name (20 Char. or less)	Turn Time	Standard	Other					
AMEC Environment + Infrastructure	265213009	Gorham Site, C-1, PH. III	15 days	<input checked="" type="checkbox"/>						
Contact Person	Address	City	State	Zip	PO#					
Kelly Chafferton	107 Audubon Rd.	Wakefield	MA	01880	012202910					
Telephone #	Fax #	Email Address								
781-245-6606		Kelly.chafferton@amec.com								
ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Res Code	Number of Containers	Type of Containers	Write Required Analysis
X	6-21-13	0920	X		S	SS-500-01	1	2	G	(HOLD pending AMEC Notification)
X	"	1000	X		S	SS-500-02	1	2	G	(HOLD pending AMEC Notification)
X	"	1030	X		S	SS-501-01	1	2	G	(HOLD pending AMEC Notification)
X	"	1055	X		S	SS-501-02	1	2	G	(HOLD pending AMEC Notification)
X	"	1120	X		S	SS-502-01	1	2	G	(HOLD pending AMEC Notification)
X	"	1130	X		S	SS-502-02	1	1	G	(HOLD pending AMEC Notification)
X	"	1200	X		S	SS-503-01	1	2	G	SS-502-01, SS-503-02,
X	"	1210	X		S	SS-503-02	1	1	G	SS-504-01, and SS-504-02
X	"	1325	X		S	SS-504-01	1	2	G	HOLD until AMEC Notification
X	"	1340	X		S	SS-505-04-02	1	1	G	

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Sludge W-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: Yes No Internal Use Only: Yes No NA: [] Pickup

Seals Intact: Yes No NA: [] Technicians

Cooler Temp: 4.5 °C 6/21/13

Relinquished by: (Signature) [Signature] Date/Time 6-21-13 1700 Received by: (Signature) [Signature] Date/Time 6/21/13

Relinquished by: (Signature) [Signature] Date/Time 6/21/13 1700 Received by: (Signature) [Signature] Date/Time 6/21/13

Sampled by: PSM/MAM

Comments: ① Off Hold for Dioxins/Furans ED 8/24/13