D Laboratory Results

ANALYTICAL REPORT

Job Number: 580-19401-1

Job Description: Contact and Sonoma Mine Sites

For:
Ecology and Environment, Inc.
333 SW 5th Avenue
Portland, OR 97204

Attention: Jim Petersen

Approved for release.
Terri L Torres
Project Manager II
6/3/2010 4:22 PM

Terri L Torres
Project Manager II
terri.torres@testamericainc.com
06/03/2010

cc: Accts Payable Accounts Payable
Rebecca Jarvis

TestAmerica Tacoma is a part of TestAmerica Laboratories, Inc.

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.

This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Sample Summary 6
- Method Summary 7
- Sample Datasheets 8
- QC Data Summary 80
- Data Qualifiers 110
- QC Association Summary 111

Inorganic Sample Data 120

- Metals Data 120
  - Met Cover Page 121
  - Met Sample Data 122
  - Met QC Data 158
    - Met ICV/CCV 158
    - Met CRQL 170
    - Met Blanks 172
    - Met ICSA/ICSAB 189
    - Met MS/MSD/PDS 200
    - Met Duplicates 210
    - Met LCS/LCSD 214
    - Met Serial Dilution 235
  - Met MDL 237
  - Met Linear Ranges 239
  - Met Preparation Log 241
  - Met Analysis Run Log 247

Table of Contents

Met ICP/MS Int Stds 271

Met Raw Data 283

Met Prep Data 722

General Chemistry Data 731

Gen Chem Cover Page 732

Gen Chem MDL 733

Gen Chem Analysis Run Log 734

Gen Chem Prep Data 737

Shipping and Receiving Documents 741

Client Chain of Custody 742

Sample Receipt Checklist 745

CASE NARRATIVE

Client: Ecology and Environment, Inc.
Project: Contact and Sonoma Mine Sites
Report Number: 580-19401-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT
The samples were received on 05/18/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS
Samples 580-19401-1 through 580-19401-36 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/27/2010 and 05/28/2010 and analyzed on 05/28/2010, 05/29/2010 and 06/02/2010.

Recovery values for Chromium, Iron, Manganese, Nickel, Aluminum and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19401-16 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

Recovery values for Chromium, Iron, Manganese, Nickel, Aluminum and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19401-33 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

The ICP-MS ICSA/AB standard contains trace impurities derived from the manufacturing process, which may cause these standards to fail method QC criteria. Regrettably corrective action can not be performed for any outliers other than to note deficiencies in the laboratory's QC report section.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples 580-19401-1 through 580-19401-36 were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05/27/2010 and 05/29/2010 and analyzed on 05/28/2010 and 06/01/2010.

Samples 580-19401-1 through 580-19401-27 and samples 580-19401-29 through 580-19401-36 required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Recovery values for Mercury in the matrix spike/matrix spike duplicate of sample 580-19401-1 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

Recovery and RPD values for Mercury in the matrix spike/matrix spike duplicate of sample 580-19401-19 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

The RPD for Mercury in the duplicate analysis of sample 580-19401-1 was outside advisory QC limits. The sample matrix may be non-homogeneous.

No other difficulties were encountered during the total mercury analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 580-19401-1 through 580-19401-36 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 05/21/2010 and 05/24/2010.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

SAMPLE SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19401-1	01CMSS	Solid	05/11/2010 1330	05/18/2010 0950
580-19401-2	02CMSS	Solid	05/11/2010 1340	05/18/2010 0950
580-19401-3	03CMSS	Solid	05/11/2010 1350	05/18/2010 0950
580-19401-4	04CMSS	Solid	05/11/2010 1355	05/18/2010 0950
580-19401-5	05CMSS	Solid	05/11/2010 1402	05/18/2010 0950
580-19401-6	06CMSS	Solid	05/11/2010 1410	05/18/2010 0950
580-19401-7	07CMSS	Solid	05/11/2010 1420	05/18/2010 0950
580-19401-8	08CMSS	Solid	05/11/2010 1450	05/18/2010 0950
580-19401-9	09CMSS	Solid	05/11/2010 1455	05/18/2010 0950
580-19401-10	10CMSS	Solid	05/11/2010 1500	05/18/2010 0950
580-19401-11	11CMSS	Solid	05/11/2010 1510	05/18/2010 0950
580-19401-12	12CMSS	Solid	05/11/2010 1530	05/18/2010 0950
580-19401-13	08HMSS	Solid	05/07/2010 1319	05/18/2010 0950
580-19401-14	10HMSS	Solid	05/07/2010 1442	05/18/2010 0950
580-19401-15	11HMSS	Solid	05/07/2010 1454	05/18/2010 0950
580-19401-16	12HMSS	Solid	05/07/2010 1505	05/18/2010 0950
580-19401-17	13HMSS	Solid	05/07/2010 1525	05/18/2010 0950
580-19401-18	14HMSS	Solid	05/07/2010 1600	05/18/2010 0950
580-19401-19	15HMSS	Solid	05/07/2010 1610	05/18/2010 0950
580-19401-20	16HMSS	Solid	05/12/2010 0807	05/18/2010 0950
580-19401-21	17HMSS	Solid	05/12/2010 0820	05/18/2010 0950
580-19401-22	18HMSS	Solid	05/12/2010 0830	05/18/2010 0950
580-19401-23	19HMSS	Solid	05/12/2010 0840	05/18/2010 0950
580-19401-24	20HMSS	Solid	05/12/2010 0845	05/18/2010 0950
580-19401-25	13CMSS	Solid	05/11/2010 1705	05/18/2010 0950
580-19401-26	14CMSS	Solid	05/11/2010 1710	05/18/2010 0950
580-19401-27	15CMSS	Solid	05/11/2010 1720	05/18/2010 0950
580-19401-28	18CMSS	Solid	05/11/2010 1745	05/18/2010 0950
580-19401-29	17CMSS	Solid	05/11/2010 1738	05/18/2010 0950
580-19401-30	16CMSS	Solid	05/11/2010 1730	05/18/2010 0950
580-19401-31	01HMSS	Solid	05/07/2010 1120	05/18/2010 0950
580-19401-32	03HMSS	Solid	05/07/2010 1143	05/18/2010 0950
580-19401-33	02HMSS	Solid	05/07/2010 1136	05/18/2010 0950
580-19401-34	05HMSS	Solid	05/07/2010 1241	05/18/2010 0950
580-19401-35	06HMSS	Solid	05/07/2010 1247	05/18/2010 0950
580-19401-36	07HMSS	Solid	05/07/2010 1308	05/18/2010 0950

METHOD SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP/MS)	TAL TAC	SW846 6020	
Preparation, Metals	TAL TAC		SW846 3050B
Mercury (CVAA)	TAL TAC	SW846 7471A	
Preparation, Mercury	TAL TAC		SW846 7471A
Percent Moisture	TAL TAC	EPA Moisture	

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **01CMSS**

Lab Sample ID: 580-19401-1 Date Sampled: 05/11/2010 1330
Client Matrix: Solid % Moisture: 13.2 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	163SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1303 g
Date Analyzed:	05/28/2010 0735			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.4	^	0.20
Antimony		0.79	^	0.20
Barium		270	^	0.20
Cadmium		ND		0.20
Chromium		240	^	0.20
Lead		9.4		0.20
Cobalt		31	^	0.20
Iron		38000		20
Manganese		640	^	0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		53		0.20
Aluminum		18000		31
Magnesium		44000		100
Potassium		1300		100
Sodium		ND		100
Calcium		10000		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	162SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1303 g
Date Analyzed:	05/29/2010 0309			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.47		0.20
Copper		27	^	0.20
Nickel		430	^	0.20
Selenium		ND		0.51
Zinc		59	^	0.71

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	20			Initial Weight/Volume:	0.8494 g
Date Analyzed:	05/28/2010 1100			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		6.3		0.27

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **02CMSS**

Lab Sample ID: 580-19401-2 Date Sampled: 05/11/2010 1340
Client Matrix: Solid % Moisture: 11.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	164SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1026 g
Date Analyzed:	05/28/2010 0742			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.6	^	0.21
Antimony		0.88	^	0.21
Barium		240	^	0.21
Cadmium		ND		0.21
Chromium		340	^	0.21
Lead		9.9		0.21
Cobalt		39	^	0.21
Iron		42000		21
Manganese		690	^	0.51
Silver		ND		0.21
Thallium		ND		0.41
Vanadium		59		0.21
Aluminum		19000		31
Magnesium		58000		100
Potassium		1100		100
Sodium		ND		100
Calcium		14000		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	163SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1026 g
Date Analyzed:	05/29/2010 0315			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.45		0.21
Copper		27	^	0.21
Nickel		580	^	0.21
Selenium		0.55		0.51
Zinc		52	^	0.72

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	20			Initial Weight/Volume:	0.7265 g
Date Analyzed:	05/28/2010 1119			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		10		0.31

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **03CMSS**

Lab Sample ID: 580-19401-3 Date Sampled: 05/11/2010 1350
Client Matrix: Solid % Moisture: 25.8 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	165SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0686 g
Date Analyzed:	05/28/2010 0749			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.2	^	0.25
Antimony		3.9	^	0.25
Barium		1100	^	0.25
Cadmium		19		0.25
Chromium		170	^	0.25
Lead		600		0.25
Cobalt		29	^	0.25
Iron		46000		25
Manganese		1100	^	0.63
Silver		0.30		0.25
Thallium		ND		0.50
Vanadium		70		0.25
Aluminum		20000		38
Magnesium		21000		130
Potassium		2400		130
Sodium		330		130
Calcium		16000		130

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	164SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0686 g
Date Analyzed:	05/29/2010 0321			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		1.1		0.25
Copper		130	^	0.25
Nickel		240	^	0.25
Selenium		1.6		0.63
Zinc		8500	^	0.88

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.5863 g
Date Analyzed:	05/28/2010 1123			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		1.4		0.23

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **04CMSS**

Lab Sample ID: 580-19401-4 Date Sampled: 05/11/2010 1355
Client Matrix: Solid % Moisture: 17.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	166SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1033 g
Date Analyzed:	05/28/2010 0756			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.4	^	0.22
Antimony		0.79	^	0.22
Barium		210	^	0.22
Cadmium		ND		0.22
Chromium		340	^	0.22
Lead		11		0.22
Cobalt		42	^	0.22
Iron		42000		22
Manganese		740	^	0.55
Silver		ND		0.22
Thallium		ND		0.44
Vanadium		56		0.22
Aluminum		18000		33
Magnesium		45000		110
Potassium		1200		110
Sodium		ND		110
Calcium		5900		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	165SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1033 g
Date Analyzed:	05/29/2010 0327			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.47		0.22
Copper		29	^	0.22
Nickel		620	^	0.22
Selenium		0.67		0.55
Zinc		72	^	0.77

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	20			Initial Weight/Volume:	0.5247 g
Date Analyzed:	05/28/2010 1137			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		11		0.46

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **05CMSS**

Lab Sample ID: 580-19401-5 Date Sampled: 05/11/2010 1402
Client Matrix: Solid % Moisture: 16.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 167SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0625 g
Date Analyzed: 05/28/2010 0804 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.4	^	0.22
Antimony		0.41	^	0.22
Barium		240	^	0.22
Cadmium		0.28		0.22
Chromium		110	^	0.22
Lead		8.0		0.22
Cobalt		19	^	0.22
Iron		32000		22
Manganese		800	^	0.56
Silver		ND		0.22
Thallium		ND		0.45
Vanadium		64		0.22
Aluminum		14000		34
Magnesium		17000		110
Potassium		880		110
Sodium		ND		110
Calcium		6200		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 166SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0625 g
Date Analyzed: 05/29/2010 0333 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.45		0.22
Copper		43	^	0.22
Nickel		130	^	0.22
Selenium		ND		0.56
Zinc		100	^	0.79

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.8699 g
Date Analyzed: 05/28/2010 1141 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		1.2		0.14

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **06CMSS**

Lab Sample ID: 580-19401-6 Date Sampled: 05/11/2010 1410
Client Matrix: Solid % Moisture: 38.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 168SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0090 g
Date Analyzed: 05/28/2010 0811 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		9.3	^	0.32
Antimony		0.67	^	0.32
Barium		340	^	0.32
Cadmium		0.35		0.32
Chromium		90	^	0.32
Lead		43		0.32
Cobalt		26	^	0.32
Iron		36000		32
Manganese		810	^	0.80
Silver		ND		0.32
Thallium		ND		0.64
Vanadium		55		0.32
Aluminum		15000		48
Magnesium		23000		160
Potassium		1900		160
Sodium		ND		160
Calcium		11000		160

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 167SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0090 g
Date Analyzed: 05/29/2010 0340 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.59		0.32
Copper		50	^	0.32
Nickel		210	^	0.32
Selenium		ND		0.80
Zinc		100	^	1.1

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 20 Initial Weight/Volume: 0.5183 g
Date Analyzed: 05/28/2010 1145 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		24		0.62

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **07CMSS**

Lab Sample ID: 580-19401-7 Date Sampled: 05/11/2010 1420
Client Matrix: Solid % Moisture: 16.2 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	169SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1943 g
Date Analyzed:	05/28/2010 0818			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.2	^	0.20
Antimony		1.0	^	0.20
Barium		330	^	0.20
Cadmium		1.8		0.20
Chromium		270	^	0.20
Lead		49		0.20
Cobalt		35	^	0.20
Iron		41000		20
Manganese		710	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		57		0.20
Aluminum		19000		30
Magnesium		48000		100
Potassium		1500		100
Sodium		110		100
Calcium		13000		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	168SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1943 g
Date Analyzed:	05/29/2010 0346			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.59		0.20
Copper		39	^	0.20
Nickel		480	^	0.20
Selenium		0.62		0.50
Zinc		970	^	0.70

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	20			Initial Weight/Volume:	0.8006 g
Date Analyzed:	05/28/2010 1150			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		5.9		0.30

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **08CMSS**

Lab Sample ID: 580-19401-8 Date Sampled: 05/11/2010 1450
Client Matrix: Solid % Moisture: 13.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	170SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0058 g
Date Analyzed:	05/28/2010 0825			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.5	^	0.23
Antimony		0.55	^	0.23
Barium		150	^	0.23
Cadmium		ND		0.23
Chromium		700	^	0.23
Lead		10		0.23
Cobalt		73	^	0.23
Iron		46000		23
Manganese		800	^	0.57
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		38		0.23
Aluminum		7800		34
Magnesium		110000		110
Potassium		400		110
Sodium		ND		110
Calcium		16000		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	169SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0058 g
Date Analyzed:	05/29/2010 0352			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.23
Copper		16	^	0.23
Nickel		1300	^	0.23
Selenium		ND		0.57
Zinc		51	^	0.80

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.7751 g
Date Analyzed:	05/28/2010 1155			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		27		7.4

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **09CMSS**

Lab Sample ID: 580-19401-9 Date Sampled: 05/11/2010 1455
Client Matrix: Solid % Moisture: 15.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	171SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1246 g
Date Analyzed:	05/28/2010 0832			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.5	^	0.21
Antimony		0.76	^	0.21
Barium		340	^	0.21
Cadmium		ND		0.21
Chromium		370	^	0.21
Lead		8.6		0.21
Cobalt		43	^	0.21
Iron		46000		21
Manganese		720	^	0.53
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		67		0.21
Aluminum		22000		32
Magnesium		59000		110
Potassium		1300		110
Sodium		ND		110
Calcium		18000		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	170SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1246 g
Date Analyzed:	05/29/2010 0358			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.51		0.21
Copper		29	^	0.21
Nickel		660	^	0.21
Selenium		1.0		0.53
Zinc		65	^	0.74

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.6793 g
Date Analyzed:	05/28/2010 1200			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		1.9		0.17

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **10CMSS**

Lab Sample ID: 580-19401-10 Date Sampled: 05/11/2010 1500
Client Matrix: Solid % Moisture: 20.5 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 174SMPL.
Dilution: 1.0 Initial Weight/Volume: 1.1399 g
Date Analyzed: 05/28/2010 0853 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.58	^	0.022
Antimony		0.054	^	0.022
Barium		21	^	0.022
Cadmium		ND		0.022
Chromium		17	^	0.022
Lead		1.2		0.022
Cobalt		2.9	^	0.022
Iron		3300		2.2
Manganese		64	^	0.055
Selenium		ND		0.055
Silver		ND		0.022
Thallium		ND		0.044
Vanadium		4.4		0.022
Aluminum		1500		3.3
Magnesium		2000		11
Potassium		140		11
Sodium		ND		11
Calcium		420		11

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 173SMPL.D
Dilution: 1.0 Initial Weight/Volume: 1.1399 g
Date Analyzed: 05/29/2010 0416 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.042		0.022
Copper		2.8	^	0.022
Nickel		31	^	0.022
Zinc		8.2	^	0.077

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 500 Initial Weight/Volume: 0.9470 g
Date Analyzed: 05/28/2010 1204 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		89		6.6

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **11CMSS**

Lab Sample ID: 580-19401-11 Date Sampled: 05/11/2010 1510
Client Matrix: Solid % Moisture: 18.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	175SMPL.
Dilution:	1.0			Initial Weight/Volume:	1.1597 g
Date Analyzed:	05/28/2010 0900			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.70	^	0.021
Antimony		0.067	^	0.021
Barium		17	^	0.021
Cadmium		ND		0.021
Chromium		39	^	0.021
Lead		1.5		0.021
Cobalt		5.7	^	0.021
Iron		4300		2.1
Manganese		79	^	0.053
Selenium		ND		0.053
Silver		ND		0.021
Thallium		ND		0.043
Vanadium		5.3		0.021
Aluminum		1700		3.2
Magnesium		5700		11
Potassium		92		11
Sodium		ND		11
Calcium		370		11

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	174SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.1597 g
Date Analyzed:	05/29/2010 0422			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.044		0.021
Copper		3.4	^	0.021
Nickel		78	^	0.021
Zinc		7.0	^	0.074

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6827 g
Date Analyzed:	05/28/2010 1209			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		90		9.0

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **12CMSS**

Lab Sample ID: 580-19401-12 Date Sampled: 05/11/2010 1530
Client Matrix: Solid % Moisture: 13.5 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 176SMPL.
Dilution: 1.0 Initial Weight/Volume: 1.1007 g
Date Analyzed: 05/28/2010 0908 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.46	^	0.021
Antimony		0.041	^	0.021
Barium		10	^	0.021
Cadmium		ND		0.021
Chromium		34	^	0.021
Lead		1.1		0.021
Cobalt		4.2	^	0.021
Iron		3600		2.1
Manganese		60	^	0.053
Selenium		ND		0.053
Silver		ND		0.021
Thallium		ND		0.042
Vanadium		3.8		0.021
Aluminum		1200		3.2
Magnesium		5500		11
Potassium		76		11
Sodium		ND		11
Calcium		210		11

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 175SMPL.D
Dilution: 1.0 Initial Weight/Volume: 1.1007 g
Date Analyzed: 05/29/2010 0428 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.034		0.021
Copper		2.3	^	0.021
Nickel		63	^	0.021
Zinc		6.7	^	0.074

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 500 Initial Weight/Volume: 0.5436 g
Date Analyzed: 05/28/2010 1213 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		180		11

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **08HMSS**

Lab Sample ID: 580-19401-13 Date Sampled: 05/07/2010 1319
Client Matrix: Solid % Moisture: 3.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 177SMPL.
Dilution: 1.0 Initial Weight/Volume: 1.0513 g
Date Analyzed: 05/28/2010 0915 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.020	^	0.020
Antimony		ND	^	0.020
Barium		0.44	^	0.020
Cadmium		ND		0.020
Chromium		38	^	0.020
Lead		0.24		0.020
Cobalt		9.9	^	0.020
Iron		4900		2.0
Manganese		77	^	0.049
Selenium		ND		0.049
Silver		ND		0.020
Thallium		ND		0.039
Vanadium		0.77		0.020
Aluminum		72		2.9
Magnesium		19000		9.8
Potassium		ND		9.8
Sodium		ND		9.8
Calcium		14		9.8

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 176SMPL.D
Dilution: 1.0 Initial Weight/Volume: 1.0513 g
Date Analyzed: 05/29/2010 0435 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.020
Copper		0.84	^	0.020
Nickel		180	^	0.020
Zinc		2.2	^	0.069

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.6680 g
Date Analyzed: 05/28/2010 1217 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.51		0.15

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **10HMSS**

Lab Sample ID: 580-19401-14 Date Sampled: 05/07/2010 1442
Client Matrix: Solid % Moisture: 8.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	178SMPL.
Dilution:	1.0			Initial Weight/Volume:	1.0548 g
Date Analyzed:	05/28/2010 0922			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.18	^	0.021
Antimony		0.043	^	0.021
Barium		9.2	^	0.021
Cadmium		0.022		0.021
Chromium		50	^	0.021
Lead		1.4		0.021
Cobalt		14	^	0.021
Iron		7100		2.1
Manganese		110	^	0.052
Selenium		ND		0.052
Silver		ND		0.021
Thallium		ND		0.041
Vanadium		2.9		0.021
Aluminum		500		3.1
Magnesium		4900		10
Potassium		29		10
Sodium		ND		10
Calcium		73		10

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64541		Lab File ID:	177SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.0548 g
Date Analyzed:	05/29/2010 0441			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.033		0.021
Copper		1.4	^	0.021
Nickel		240	^	0.021
Zinc		4.4	^	0.072

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6773 g
Date Analyzed:	05/28/2010 1231			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		32		8.0

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **11HMSS**

Lab Sample ID: 580-19401-15 Date Sampled: 05/07/2010 1454
Client Matrix: Solid % Moisture: 3.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 179SMPL.
Dilution: 1.0 Initial Weight/Volume: 1.1341 g
Date Analyzed: 05/28/2010 0929 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.71	^	0.018
Antimony		0.046	^	0.018
Barium		17	^	0.018
Cadmium		ND		0.018
Chromium		27	^	0.018
Lead		1.2		0.018
Cobalt		3.4	^	0.018
Iron		3900		1.8
Manganese		86	^	0.046
Selenium		ND		0.046
Silver		ND		0.018
Thallium		ND		0.036
Vanadium		4.6		0.018
Aluminum		1700		2.7
Magnesium		3800		9.1
Potassium		78		9.1
Sodium		ND		9.1
Calcium		300		9.1

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 178SMPL.D
Dilution: 1.0 Initial Weight/Volume: 1.1341 g
Date Analyzed: 05/29/2010 0447 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.030		0.018
Copper		3.8	^	0.018
Nickel		39	^	0.018
Zinc		6.7	^	0.064

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64538 Lab File ID: 64538-HG.PRN
Dilution: 20 Initial Weight/Volume: 0.7130 g
Date Analyzed: 05/28/2010 1235 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1356

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		6.4		0.29

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **12HMSS**

Lab Sample ID: 580-19401-16 Date Sampled: 05/07/2010 1505
Client Matrix: Solid % Moisture: 16.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	027SMPL
Dilution:	10			Initial Weight/Volume:	1.0253 g
Date Analyzed:	06/02/2010 1409			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.3	^	0.23
Antimony		1.3	^	0.23
Barium		35		0.23
Beryllium		0.26		0.23
Cadmium		ND		0.23
Chromium		670	^	0.23
Lead		19		0.23
Cobalt		100	^	0.23
Copper		17	^	0.23
Iron		89000		23
Manganese		660	^	0.58
Nickel		1800	^	0.23
Selenium		ND		0.58
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		23		0.23
Zinc		40	^	0.81
Aluminum		2000		35
Magnesium		22000		120
Potassium		ND		120
Sodium		ND		120
Calcium		360		120

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	20			Initial Weight/Volume:	0.5668 g
Date Analyzed:	05/28/2010 1240			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		12		0.42

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **13HMSS**

Lab Sample ID: 580-19401-17 Date Sampled: 05/07/2010 1525
Client Matrix: Solid % Moisture: 21.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	037SMPL
Dilution:	10			Initial Weight/Volume:	1.0066 g
Date Analyzed:	06/02/2010 1520			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.0	^	0.25
Antimony		ND	^	0.25
Barium		73		0.25
Beryllium		ND		0.25
Cadmium		0.78		0.25
Chromium		270	^	0.25
Lead		19		0.25
Cobalt		75	^	0.25
Copper		11	^	0.25
Iron		40000		25
Manganese		470	^	0.63
Nickel		1300	^	0.25
Selenium		ND		0.63
Silver		ND		0.25
Thallium		ND		0.51
Vanadium		18		0.25
Zinc		67	^	0.88
Aluminum		2000		38
Magnesium		21000		130
Potassium		330		130
Sodium		ND		130
Calcium		5000		130

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.5657 g
Date Analyzed:	05/28/2010 1244			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		32		11

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **14HMSS**

Lab Sample ID: 580-19401-18 Date Sampled: 05/07/2010 1600
Client Matrix: Solid % Moisture: 7.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	038SMPL
Dilution:	10			Initial Weight/Volume:	1.1468 g
Date Analyzed:	06/02/2010 1528			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		13	^	0.19
Antimony		1.0	^	0.19
Barium		160		0.19
Beryllium		0.50		0.19
Cadmium		0.24		0.19
Chromium		210	^	0.19
Lead		16		0.19
Cobalt		32	^	0.19
Copper		52	^	0.19
Iron		49000		19
Manganese		850	^	0.47
Nickel		350	^	0.19
Selenium		ND		0.47
Silver		ND		0.19
Thallium		ND		0.38
Vanadium		59		0.19
Zinc		80	^	0.66
Aluminum		21000		28
Magnesium		27000		94
Potassium		1100		94
Sodium		ND		94
Calcium		4300		94

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64538		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6276 g
Date Analyzed:	05/28/2010 1249			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1356				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		18		8.6

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **15HMSS**

Lab Sample ID: 580-19401-19 Date Sampled: 05/07/2010 1610
Client Matrix: Solid % Moisture: 14.5 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	039SMPL
Dilution:	10			Initial Weight/Volume:	1.1269 g
Date Analyzed:	06/02/2010 1535			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.1	^	0.21
Antimony		0.23	^	0.21
Barium		89		0.21
Beryllium		0.36		0.21
Cadmium		0.22		0.21
Chromium		650	^	0.21
Lead		28		0.21
Cobalt		140	^	0.21
Copper		13	^	0.21
Iron		71000		21
Manganese		1000	^	0.52
Nickel		2500	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		30		0.21
Zinc		43	^	0.73
Aluminum		2900		31
Magnesium		25000		100
Potassium		140		100
Sodium		ND		100
Calcium		550		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	50			Initial Weight/Volume:	0.5715 g
Date Analyzed:	05/28/2010 1329			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		16		1.0

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **16HMSS**

Lab Sample ID: 580-19401-20 Date Sampled: 05/12/2010 0807
Client Matrix: Solid % Moisture: 29.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	040SMPL
Dilution:	10			Initial Weight/Volume:	1.1476 g
Date Analyzed:	06/02/2010 1542			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.8	^	0.25
Antimony		0.41	^	0.25
Barium		140		0.25
Beryllium		ND		0.25
Cadmium		ND		0.25
Chromium		250	^	0.25
Lead		9.8		0.25
Cobalt		23	^	0.25
Copper		26	^	0.25
Iron		43000		25
Manganese		920	^	0.61
Nickel		290	^	0.25
Selenium		ND		0.61
Silver		ND		0.25
Thallium		11		0.49
Vanadium		47		0.25
Zinc		48	^	0.86
Aluminum		14000		37
Magnesium		23000		120
Potassium		800		120
Sodium		ND		120
Calcium		4900		120

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.5262 g
Date Analyzed:	05/28/2010 1347			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		60		13

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **17HMSS**

Lab Sample ID: 580-19401-21 Date Sampled: 05/12/2010 0820
Client Matrix: Solid % Moisture: 17.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	041SMPL
Dilution:	10			Initial Weight/Volume:	1.1689 g
Date Analyzed:	06/02/2010 1549			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.3	^	0.21
Antimony		0.40	^	0.21
Barium		140		0.21
Beryllium		0.38		0.21
Cadmium		0.24		0.21
Chromium		310	^	0.21
Lead		17		0.21
Cobalt		51	^	0.21
Copper		27	^	0.21
Iron		49000		21
Manganese		660	^	0.52
Nickel		600	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		1.6		0.42
Vanadium		53		0.21
Zinc		180	^	0.73
Aluminum		17000		31
Magnesium		43000		100
Potassium		740		100
Sodium		ND		100
Calcium		4900		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.8112 g
Date Analyzed:	05/28/2010 1352			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		45		7.5

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **18HMSS**

Lab Sample ID: 580-19401-22 Date Sampled: 05/12/2010 0830
Client Matrix: Solid % Moisture: 12.5 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	042SMPL
Dilution:	10			Initial Weight/Volume:	1.0563 g
Date Analyzed:	06/02/2010 1556			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.7	^	0.22
Antimony		0.72	^	0.22
Barium		140		0.22
Beryllium		0.25		0.22
Cadmium		ND		0.22
Chromium		290	^	0.22
Lead		10		0.22
Cobalt		19	^	0.22
Copper		37	^	0.22
Iron		70000		22
Manganese		500	^	0.54
Nickel		330	^	0.22
Selenium		ND		0.54
Silver		ND		0.22
Thallium		0.83		0.43
Vanadium		76		0.22
Zinc		62	^	0.76
Aluminum		18000		32
Magnesium		31000		110
Potassium		880		110
Sodium		ND		110
Calcium		4000		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.7337 g
Date Analyzed:	05/28/2010 1356			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		5.7		0.16

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **19HMSS**

Lab Sample ID: 580-19401-23 Date Sampled: 05/12/2010 0840
Client Matrix: Solid % Moisture: 16.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	043SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0456 g
Date Analyzed:	06/02/2010 1603			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.23
Antimony		ND	^	0.23
Barium		3.2		0.23
Beryllium		ND		0.23
Cadmium		ND		0.23
Chromium		74	^	0.23
Lead		0.31		0.23
Cobalt		0.53	^	0.23
Copper		1.0	^	0.23
Iron		3200		23
Manganese		4.9	^	0.57
Nickel		6.5	^	0.23
Selenium		ND		0.57
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		3.9		0.23
Zinc		2.7	^	0.80
Aluminum		380		34
Magnesium		350		110
Potassium		ND		110
Sodium		ND		110
Calcium		ND		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64760		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64650		Lab File ID:	64650-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.5977 g
Date Analyzed:	06/01/2010 1508			Final Weight/Volume:	50 mL
Date Prepared:	05/29/2010 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		140		10

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **20HMSS**

Lab Sample ID: 580-19401-24 Date Sampled: 05/12/2010 0845
Client Matrix: Solid % Moisture: 19.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	044SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1393 g
Date Analyzed:	06/02/2010 1610			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.74	^	0.22
Antimony		ND	^	0.22
Barium		23		0.22
Beryllium		ND		0.22
Cadmium		ND		0.22
Chromium		130	^	0.22
Lead		3.1		0.22
Cobalt		4.6	^	0.22
Copper		5.0	^	0.22
Iron		17000		22
Manganese		16	^	0.54
Nickel		62	^	0.22
Selenium		ND		0.54
Silver		ND		0.22
Thallium		0.89		0.43
Vanadium		6.6		0.22
Zinc		7.0	^	0.76
Aluminum		1700		33
Magnesium		2300		110
Potassium		ND		110
Sodium		ND		110
Calcium		ND		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6717 g
Date Analyzed:	05/28/2010 1400			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		220		9.2

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **13CMSS**

Lab Sample ID: 580-19401-25 Date Sampled: 05/11/2010 1705
Client Matrix: Solid % Moisture: 23.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	045SMPL
Dilution:	10			Initial Weight/Volume:	1.1584 g
Date Analyzed:	06/02/2010 1617			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.5	^	0.23
Antimony		0.26	^	0.23
Barium		120		0.23
Beryllium		0.32		0.23
Cadmium		ND		0.23
Chromium		570	^	0.23
Lead		15		0.23
Cobalt		73	^	0.23
Copper		20	^	0.23
Iron		46000		23
Manganese		770	^	0.56
Nickel		1200	^	0.23
Selenium		ND		0.56
Silver		ND		0.23
Thallium		ND		0.45
Vanadium		33		0.23
Zinc		66	^	0.79
Aluminum		7600		34
Magnesium		63000		110
Potassium		1000		110
Sodium		ND		110
Calcium		2000		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.8770 g
Date Analyzed:	05/28/2010 1405			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		120		7.4

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **14CMSS**

Lab Sample ID: 580-19401-26 Date Sampled: 05/11/2010 1710
Client Matrix: Solid % Moisture: 22.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	049SMPL
Dilution:	10			Initial Weight/Volume:	1.1821 g
Date Analyzed:	06/02/2010 1646			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.4	^	0.22
Antimony		2.0	^	0.22
Barium		160		0.22
Beryllium		0.49		0.22
Cadmium		0.77		0.22
Chromium		430	^	0.22
Lead		48		0.22
Cobalt		41	^	0.22
Copper		37	^	0.22
Iron		42000		22
Manganese		670	^	0.55
Nickel		550	^	0.22
Selenium		ND		0.55
Silver		ND		0.22
Thallium		ND		0.44
Vanadium		58		0.22
Zinc		480	^	0.77
Aluminum		19000		33
Magnesium		51000		110
Potassium		1000		110
Sodium		ND		110
Calcium		5400		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64760		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64650		Lab File ID:	64650-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.5523 g
Date Analyzed:	06/01/2010 1512			Final Weight/Volume:	50 mL
Date Prepared:	05/29/2010 1222				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		34		12

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **15CMSS**

Lab Sample ID: 580-19401-27 Date Sampled: 05/11/2010 1720
Client Matrix: Solid % Moisture: 8.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	050SMP
Dilution:	10			Initial Weight/Volume:	1.0540 g
Date Analyzed:	06/02/2010 1653			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.3	^	0.21
Antimony		0.27	^	0.21
Barium		110		0.21
Beryllium		0.39		0.21
Cadmium		ND		0.21
Chromium		490	^	0.21
Lead		7.3		0.21
Cobalt		54	^	0.21
Copper		35	^	0.21
Iron		45000		21
Manganese		700	^	0.52
Nickel		870	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		55		0.21
Zinc		60	^	0.73
Aluminum		19000		31
Magnesium		98000		100
Potassium		780		100
Sodium		ND		100
Calcium		13000		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.8552 g
Date Analyzed:	05/28/2010 1409			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.3		0.13

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **18CMSS**

Lab Sample ID: 580-19401-28 Date Sampled: 05/11/2010 1745
Client Matrix: Solid % Moisture: 13.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	051SMPL
Dilution:	10			Initial Weight/Volume:	1.1076 g
Date Analyzed:	06/02/2010 1700			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		10	^	0.21
Antimony		0.57	^	0.21
Barium		150		0.21
Beryllium		0.62		0.21
Cadmium		ND		0.21
Chromium		200	^	0.21
Lead		13		0.21
Cobalt		27	^	0.21
Copper		46	^	0.21
Iron		42000		21
Manganese		660	^	0.52
Nickel		270	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		59		0.21
Zinc		87	^	0.73
Aluminum		23000		31
Magnesium		31000		100
Potassium		1400		100
Sodium		ND		100
Calcium		5000		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	1.0			Initial Weight/Volume:	0.5535 g
Date Analyzed:	05/28/2010 1744			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.11		0.021

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **17CMSS**

Lab Sample ID: 580-19401-29 Date Sampled: 05/11/2010 1738
Client Matrix: Solid % Moisture: 26.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	052SMPL.
Dilution:	10			Initial Weight/Volume:	1.0297 g
Date Analyzed:	06/02/2010 1707			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.0	^	0.26
Antimony		0.35	^	0.26
Barium		180		0.26
Beryllium		0.48		0.26
Cadmium		ND		0.26
Chromium		400	^	0.26
Lead		11		0.26
Cobalt		45	^	0.26
Copper		36	^	0.26
Iron		42000		26
Manganese		760	^	0.66
Nickel		660	^	0.26
Selenium		ND		0.66
Silver		ND		0.26
Thallium		ND		0.53
Vanadium		58		0.26
Zinc		70	^	0.92
Aluminum		21000		39
Magnesium		73000		130
Potassium		1200		130
Sodium		ND		130
Calcium		6100		130

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.6852 g
Date Analyzed:	05/28/2010 1427			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		2.2		0.20

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **16CMSS**

Lab Sample ID: 580-19401-30 Date Sampled: 05/11/2010 1730
Client Matrix: Solid % Moisture: 11.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	053SMP
Dilution:	10			Initial Weight/Volume:	1.1404 g
Date Analyzed:	06/02/2010 1714			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.6	^	0.20
Antimony		0.27	^	0.20
Barium		120		0.20
Beryllium		0.66		0.20
Cadmium		ND		0.20
Chromium		310	^	0.20
Lead		10		0.20
Cobalt		45	^	0.20
Copper		31	^	0.20
Iron		44000		20
Manganese		780	^	0.50
Nickel		670	^	0.20
Selenium		ND		0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		57		0.20
Zinc		69	^	0.69
Aluminum		24000		30
Magnesium		58000		99
Potassium		810		99
Sodium		ND		99
Calcium		5000		99

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.7937 g
Date Analyzed:	05/28/2010 1432			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		5.1		0.14

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **01HMSS**

Lab Sample ID: 580-19401-31 Date Sampled: 05/07/2010 1120
Client Matrix: Solid % Moisture: 8.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	054SMPL
Dilution:	10			Initial Weight/Volume:	1.0946 g
Date Analyzed:	06/02/2010 1721			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		3.6	^	0.20
Antimony		ND	^	0.20
Barium		86		0.20
Beryllium		0.26		0.20
Cadmium		ND		0.20
Chromium		690	^	0.20
Lead		4.8		0.20
Cobalt		150	^	0.20
Copper		20	^	0.20
Iron		73000		20
Manganese		1200	^	0.50
Nickel		2200	^	0.20
Selenium		ND		0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		33		0.20
Zinc		59	^	0.70
Aluminum		7700		30
Magnesium		120000		100
Potassium		450		100
Sodium		ND		100
Calcium		1200		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.7207 g
Date Analyzed:	05/28/2010 1436			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		110		7.6

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **03HMSS**

Lab Sample ID: 580-19401-32 Date Sampled: 05/07/2010 1143
Client Matrix: Solid % Moisture: 4.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64602		Lab File ID:	055SMPL
Dilution:	10			Initial Weight/Volume:	1.1314 g
Date Analyzed:	06/02/2010 1728			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.9	^	0.18
Antimony		0.20	^	0.18
Barium		68		0.18
Beryllium		0.23		0.18
Cadmium		0.18		0.18
Chromium		610	^	0.18
Lead		3.9		0.18
Cobalt		120	^	0.18
Copper		22	^	0.18
Iron		74000		18
Manganese		1000	^	0.46
Nickel		2100	^	0.18
Selenium		ND		0.46
Silver		ND		0.18
Thallium		ND		0.37
Vanadium		31		0.18
Zinc		71	^	0.65
Aluminum		6600		28
Magnesium		130000		92
Potassium		440		92
Sodium		ND		92
Calcium		2400		92

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.5510 g
Date Analyzed:	05/28/2010 1441			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		81		9.5

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **02HMSS**

Lab Sample ID: 580-19401-33 Date Sampled: 05/07/2010 1136
Client Matrix: Solid % Moisture: 4.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	061SMPL
Dilution:	10			Initial Weight/Volume:	1.0085 g
Date Analyzed:	06/02/2010 1812			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.22	^	0.21
Antimony		ND	^	0.21
Barium		1.7		0.21
Beryllium		ND		0.21
Cadmium		ND		0.21
Chromium		630	^	0.21
Lead		1.4		0.21
Cobalt		86	^	0.21
Copper		3.2	^	0.21
Iron		49000		21
Manganese		710	^	0.52
Nickel		1800	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.41
Vanadium		10		0.21
Zinc		18	^	0.73
Aluminum		1100		31
Magnesium		200000		100
Potassium		ND		100
Sodium		ND		100
Calcium		3600		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.7962 g
Date Analyzed:	05/28/2010 1445			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.38		0.13

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **05HMSS**

Lab Sample ID: 580-19401-34 Date Sampled: 05/07/2010 1241
Client Matrix: Solid % Moisture: 5.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	071SMPL.
Dilution:	10			Initial Weight/Volume:	1.0169 g
Date Analyzed:	06/02/2010 1923			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.60	^	0.21
Antimony		ND	^	0.21
Barium		5.6		0.21
Beryllium		ND		0.21
Cadmium		ND		0.21
Chromium		830	^	0.21
Lead		7.9		0.21
Cobalt		110	^	0.21
Copper		8.3	^	0.21
Iron		57000		21
Manganese		940	^	0.52
Nickel		2000	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.41
Vanadium		18		0.21
Zinc		28	^	0.72
Aluminum		1500		31
Magnesium		190000		100
Potassium		ND		100
Sodium		ND		100
Calcium		940		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.5616 g
Date Analyzed:	05/28/2010 1450			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.1		0.19

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **06HMSS**

Lab Sample ID: 580-19401-35 Date Sampled: 05/07/2010 1247
Client Matrix: Solid % Moisture: 7.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	072SMPL
Dilution:	10			Initial Weight/Volume:	1.0255 g
Date Analyzed:	06/02/2010 1930			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.25	^	0.21
Antimony		ND	^	0.21
Barium		3.7		0.21
Beryllium		ND		0.21
Cadmium		ND		0.21
Chromium		910	^	0.21
Lead		10		0.21
Cobalt		96	^	0.21
Copper		8.5	^	0.21
Iron		54000		21
Manganese		810	^	0.52
Nickel		1900	^	0.21
Selenium		ND		0.52
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		20		0.21
Zinc		38	^	0.73
Aluminum		1700		31
Magnesium		190000		100
Potassium		ND		100
Sodium		ND		100
Calcium		3100		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.5126 g
Date Analyzed:	05/28/2010 1454			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.8		0.21

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Client Sample ID: **07HMSS**

Lab Sample ID: 580-19401-36 Date Sampled: 05/07/2010 1308
Client Matrix: Solid % Moisture: 3.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	073SMPL
Dilution:	10			Initial Weight/Volume:	1.0699 g
Date Analyzed:	06/02/2010 1937			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.2	^	0.19
Antimony		ND	^	0.19
Barium		32		0.19
Beryllium		ND		0.19
Cadmium		ND		0.19
Chromium		610	^	0.19
Lead		3.5		0.19
Cobalt		110	^	0.19
Copper		13	^	0.19
Iron		56000		19
Manganese		880	^	0.48
Nickel		2100	^	0.19
Selenium		ND		0.48
Silver		ND		0.19
Thallium		ND		0.39
Vanadium		25		0.19
Zinc		42	^	0.68
Aluminum		3900		29
Magnesium		180000		97
Potassium		120		97
Sodium		ND		97
Calcium		2200		97

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64544		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6598 g
Date Analyzed:	05/28/2010 1458			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		210		7.9

General Chemistry

Client Sample ID: **01CMSS**

Lab Sample ID: 580-19401-1 Date Sampled: 05/11/2010 1330

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **02CMSS**

Lab Sample ID: 580-19401-2 Date Sampled: 05/11/2010 1340
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **03CMSS**

Lab Sample ID: 580-19401-3 Date Sampled: 05/11/2010 1350
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	74		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	26		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **04CMSS**

Lab Sample ID: 580-19401-4 Date Sampled: 05/11/2010 1355

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	83		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	17		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **05CMSS**

Lab Sample ID: 580-19401-5 Date Sampled: 05/11/2010 1402
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **06CMSS**

Lab Sample ID: 580-19401-6 Date Sampled: 05/11/2010 1410

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	62		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	38		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **07CMSS**

Lab Sample ID: 580-19401-7 Date Sampled: 05/11/2010 1420
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **08CMSS**

Lab Sample ID: 580-19401-8 Date Sampled: 05/11/2010 1450
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **09CMSS**

Lab Sample ID: 580-19401-9 Date Sampled: 05/11/2010 1455
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **10CMSS**

Lab Sample ID: 580-19401-10 Date Sampled: 05/11/2010 1500
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	80		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	20		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **11CMSS**

Lab Sample ID: 580-19401-11 Date Sampled: 05/11/2010 1510
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **12CMSS**

Lab Sample ID: 580-19401-12 Date Sampled: 05/11/2010 1530
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **08HMSS**

Lab Sample ID: 580-19401-13 Date Sampled: 05/07/2010 1319
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	3.0		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **10HMSS**

Lab Sample ID: 580-19401-14 Date Sampled: 05/07/2010 1442
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	8.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **11HMSS**

Lab Sample ID: 580-19401-15 Date Sampled: 05/07/2010 1454
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	3.3		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **12HMSS**

Lab Sample ID: 580-19401-16 Date Sampled: 05/07/2010 1505
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **13HMSS**

Lab Sample ID: 580-19401-17 Date Sampled: 05/07/2010 1525
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	79		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	21		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **14HMSS**

Lab Sample ID: 580-19401-18 Date Sampled: 05/07/2010 1600

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	7.6		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **15HMSS**

Lab Sample ID: 580-19401-19 Date Sampled: 05/07/2010 1610
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	86		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	14		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **16HMSS**

Lab Sample ID: 580-19401-20 Date Sampled: 05/12/2010 0807

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	71		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N
Percent Moisture	29		%	0.10	1.0	Moisture
Analysis Batch: 580-64198	Date Analyzed: 05/24/2010 1203					DryWt Corrected: N

General Chemistry

Client Sample ID: **17HMSS**

Lab Sample ID: 580-19401-21 Date Sampled: 05/12/2010 0820
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	82		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/24/2010 1359					DryWt Corrected: N
Percent Moisture	18		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/24/2010 1359					DryWt Corrected: N

General Chemistry

Client Sample ID: **18HMSS**

Lab Sample ID: 580-19401-22 Date Sampled: 05/12/2010 0830
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **19HMSS**

Lab Sample ID: 580-19401-23 Date Sampled: 05/12/2010 0840

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	83		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	17		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **20HMSS**

Lab Sample ID: 580-19401-24 Date Sampled: 05/12/2010 0845

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **13CMSS**

Lab Sample ID: 580-19401-25 Date Sampled: 05/11/2010 1705

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	77		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	23		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **14CMSS**

Lab Sample ID: 580-19401-26 Date Sampled: 05/11/2010 1710

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	77		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	23		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **15CMSS**

Lab Sample ID: 580-19401-27 Date Sampled: 05/11/2010 1720

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	8.9		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **18CMSS**

Lab Sample ID: 580-19401-28 Date Sampled: 05/11/2010 1745

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	86		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	14		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **17CMSS**

Lab Sample ID: 580-19401-29 Date Sampled: 05/11/2010 1738

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	74		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	26		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **16CMSS**

Lab Sample ID: 580-19401-30 Date Sampled: 05/11/2010 1730
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **01HMSS**

Lab Sample ID: 580-19401-31 Date Sampled: 05/07/2010 1120

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	8.7		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **03HMSS**

Lab Sample ID: 580-19401-32 Date Sampled: 05/07/2010 1143
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	96		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	4.4		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **02HMSS**

Lab Sample ID: 580-19401-33 Date Sampled: 05/07/2010 1136

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	96		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	4.4		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **05HMSS**

Lab Sample ID: 580-19401-34 Date Sampled: 05/07/2010 1241

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	95		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	5.0		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **06HMSS**

Lab Sample ID: 580-19401-35 Date Sampled: 05/07/2010 1247
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	7.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

General Chemistry

Client Sample ID: **07HMSS**

Lab Sample ID: 580-19401-36 Date Sampled: 05/07/2010 1308

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	96		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N
Percent Moisture	3.6		%	0.10	1.0	Moisture
Analysis Batch: 580-64227	Date Analyzed: 05/24/2010 1459					DryWt Corrected: N

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64541/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 0602
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64718
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 150SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Beryllium	ND		0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Copper	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Nickel	ND	^	0.20
Selenium	ND		0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Zinc	ND	^	0.70
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64541/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/29/2010 0149
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64756
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 149SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID:	LCSSRM 580-64541/24-A	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	159SMPL
Dilution:	20	Units:	mg/Kg	Initial Weight/Volume:	0.5352 g
Date Analyzed:	05/28/2010 0707			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	242	108	71.1 - 128.9	^
Antimony	126	158	125	21.0 - 251.6	^
Barium	565	630	112	74.7 - 125.5	^
Beryllium	162	173	107	75.3 - 124.7	
Cadmium	69.1	73.6	107	73.2 - 126.8	
Chromium	124	137	110	69.9 - 129.8	^
Lead	223	236	106	75.3 - 125.1	
Cobalt	115	133	116	74.5 - 126.1	^
Copper	66.7	75.5	113	73.2 - 126.8	^
Iron	17600	19000	108	41.6 - 159.1	
Manganese	368	403	110	75.8 - 124.5	^
Nickel	172	199	116	73.8 - 126.7	^
Selenium	147	159	108	67.1 - 132.7	
Silver	35.2	39.1	111	65.6 - 134.4	
Thallium	173	189	109	68.8 - 131.2	
Vanadium	93.9	106	113	64.5 - 135.3	
Zinc	349	405	116	72.2 - 127.8	^
Aluminum	10600	10500	99	46.0 - 153.8	
Magnesium	4260	4490	105	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID:	LCSSRM 580-64541/24-A	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	158SMPL.
Dilution:	20	Units:	mg/Kg	Initial Weight/Volume:	0.5352 g
Date Analyzed:	05/29/2010 0244			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	160	99	75.3 - 124.7	
Copper	66.7	73.1	110	73.2 - 126.8	^
Nickel	172	190	110	73.8 - 126.7	^
Selenium	147	148	101	67.1 - 132.7	
Zinc	349	385	110	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 157SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0652		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

LCSD Lab Sample ID:	LCSD 580-64541/23-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 158SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0659		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	100	101	80 - 120	0	35	^	^
Antimony	101	100	80 - 120	1	35	^	^
Barium	105	106	80 - 120	1	35	^	^
Beryllium	104	103	80 - 120	1	35		
Cadmium	101	103	80 - 120	3	35		
Chromium	104	105	80 - 120	1	35	^	^
Lead	104	106	80 - 120	2	35		
Cobalt	108	108	80 - 120	1	35	^	^
Copper	110	112	80 - 120	2	35	^	^
Iron	103	102	80 - 120	0	35		
Manganese	107	107	80 - 120	0	35	^	^
Nickel	110	106	80 - 120	3	35	^	^
Selenium	104	109	80 - 120	5	35		
Silver	105	105	80 - 120	0	35		
Thallium	98	101	80 - 120	3	35		
Vanadium	103	105	80 - 120	2	35		
Zinc	110	113	80 - 120	3	35	^	^
Aluminum	100	97	80 - 120	3	35		
Magnesium	106	104	80 - 120	1	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 156SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/29/2010 0232		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

LCSD Lab Sample ID:	LCSD 580-64541/23-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 157SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/29/2010 0238		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	92	95	80 - 120	3	35		
Copper	106	107	80 - 120	0	35	^	^
Nickel	105	104	80 - 120	1	35	^	^
Selenium	94	98	80 - 120	3	35		
Zinc	100	105	80 - 120	4	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64541/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/28/2010 0652			Date Analyzed:	05/28/2010 0659
Date Prepared:	05/27/2010 1444			Date Prepared:	05/27/2010 1444

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	200	^	201	^
Antimony	150	150	152	^	150	^
Barium	200	200	210	^	212	^
Beryllium	5.00	5.00	5.20		5.17	
Cadmium	5.00	5.00	5.03		5.16	
Chromium	20.0	20.0	20.8	^	21.0	^
Lead	50.0	50.0	51.8		53.1	
Cobalt	50.0	50.0	54.2	^	53.8	^
Copper	25.0	25.0	27.6	^	28.1	^
Iron	1100	1100	1130		1120	
Manganese	50.0	50.0	53.6	^	53.4	^
Nickel	50.0	50.0	55.0	^	53.2	^
Selenium	200	200	207		218	
Silver	30.0	30.0	31.4		31.4	
Thallium	200	200	196		202	
Vanadium	50.0	50.0	51.6		52.6	
Zinc	50.0	50.0	54.9	^	56.5	^
Aluminum	200	200	199		194	
Magnesium	1000	1000	1060		1040	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64541/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/29/2010 0232			Date Analyzed:	05/29/2010 0238
Date Prepared:	05/27/2010 1444			Date Prepared:	05/27/2010 1444

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.58		4.73	
Copper	25.0	25.0	26.6	^	26.7	^
Nickel	50.0	50.0	52.7	^	52.0	^
Selenium	200	200	189		195	
Zinc	50.0	50.0	50.2	^	52.3	^

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64602

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64602/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 06/02/2010 1355
Date Prepared: 05/28/2010 1030

Analysis Batch: 580-64859
Prep Batch: 580-64602
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 025SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND		0.20
Beryllium	ND		0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Copper	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Nickel	ND	^	0.20
Selenium	ND		0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Zinc	ND	^	0.70
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64602/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 06/02/2010 1459
Date Prepared: 05/28/2010 1030

Analysis Batch: 580-64859
Prep Batch: 580-64602
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 034SMPL
Initial Weight/Volume: 0.5218 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	269	120	71.1 - 128.9	^
Antimony	126	169	134	21.0 - 251.6	^
Barium	565	656	116	74.7 - 125.5	
Beryllium	162	186	115	75.3 - 124.7	
Cadmium	69.1	80.3	116	73.2 - 126.8	
Chromium	124	144	116	69.9 - 129.8	^
Lead	223	250	112	75.3 - 125.1	
Cobalt	115	141	122	74.5 - 126.1	^
Copper	66.7	80.1	120	73.2 - 126.8	^
Iron	17600	21900	124	41.6 - 159.1	
Manganese	368	422	115	75.8 - 124.5	^
Nickel	172	208	121	73.8 - 126.7	^
Selenium	147	176	120	67.1 - 132.7	
Silver	35.2	43.1	123	65.6 - 134.4	
Thallium	173	205	119	68.8 - 131.2	
Vanadium	93.9	112	119	64.5 - 135.3	
Zinc	349	424	121	72.2 - 127.8	^
Aluminum	10600	12200	115	46.0 - 153.8	
Magnesium	4260	5020	118	70.0 - 130.0	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64602

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64602/22-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64602	Lab File ID: 032SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1445		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1030		

LCSD Lab Sample ID:	LCSD 580-64602/23-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64602	Lab File ID: 033SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1452		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1030		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	99	100	80 - 120	1	35	^	^
Antimony	95	95	80 - 120	0	35	^	^
Barium	97	98	80 - 120	2	35		
Beryllium	99	98	80 - 120	1	35		
Cadmium	98	102	80 - 120	4	35		
Chromium	102	99	80 - 120	3	35	^	^
Lead	100	100	80 - 120	0	35		
Cobalt	103	100	80 - 120	2	35	^	^
Copper	107	102	80 - 120	5	35	^	^
Iron	104	104	80 - 120	0	35		
Manganese	101	99	80 - 120	2	35	^	^
Nickel	103	100	80 - 120	3	35	^	^
Selenium	99	100	80 - 120	0	35		
Silver	102	102	80 - 120	0	35		
Thallium	97	98	80 - 120	0	35		
Vanadium	98	98	80 - 120	1	35		
Zinc	99	99	80 - 120	0	35	^	^
Aluminum	101	95	80 - 120	6	35		
Magnesium	105	103	80 - 120	2	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64602

Method: 6020
Preparation: 3050B

LCS Lab Sample ID: LCS 580-64602/22-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 50
Date Analyzed: 06/02/2010 1445
Date Prepared: 05/28/2010 1030

LCSD Lab Sample ID: LCSD 580-64602/23-A
Client Matrix: Solid
Dilution: 50
Date Analyzed: 06/02/2010 1452
Date Prepared: 05/28/2010 1030

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	198	^	200	^
Antimony	150	150	143	^	142	^
Barium	200	200	193		197	
Beryllium	5.00	5.00	4.94		4.89	
Cadmium	5.00	5.00	4.91		5.10	
Chromium	20.0	20.0	20.5	^	19.9	^
Lead	50.0	50.0	50.2		50.2	
Cobalt	50.0	50.0	51.4	^	50.2	^
Copper	25.0	25.0	26.9	^	25.6	^
Iron	1100	1100	1140		1140	
Manganese	50.0	50.0	50.7	^	49.7	^
Nickel	50.0	50.0	51.6	^	50.1	^
Selenium	200	200	198		199	
Silver	30.0	30.0	30.5		30.5	
Thallium	200	200	194		195	
Vanadium	50.0	50.0	49.2		48.8	
Zinc	50.0	50.0	49.5	^	49.3	^
Aluminum	200	200	202		190	
Magnesium	1000	1000	1050		1030	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64602

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19401-16	Analysis Batch:	580-64859	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64602	Lab File ID:	029SMP
Dilution:	50			Initial Weight/Volume:	1.0654 g
Date Analyzed:	06/02/2010 1423			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

MSD Lab Sample ID:	580-19401-16	Analysis Batch:	580-64859	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64602	Lab File ID:	030SMP
Dilution:	50			Initial Weight/Volume:	1.0421 g
Date Analyzed:	06/02/2010 1430			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1030				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	103	101	75 - 125	0	35	^	^
Antimony	100	96	75 - 125	2	35	^	^
Barium	103	98	75 - 125	3	35		
Beryllium	106	100	75 - 125	4	35		
Cadmium	106	108	75 - 125	3	35		
Chromium	107	-25	75 - 125	4	35	^ 4	^ 4
Lead	102	98	75 - 125	2	35		
Cobalt	103	92	75 - 125	3	35	^	^
Copper	109	99	75 - 125	5	35	^	^
Iron	-536	-623	75 - 125	2	35	4	4
Manganese	80	35	75 - 125	4	35	^ 4	^ 4
Nickel	105	11	75 - 125	3	35	^ 4	^ 4
Selenium	107	103	75 - 125	2	35		
Silver	107	102	75 - 125	2	35		
Thallium	106	102	75 - 125	2	35		
Vanadium	103	95	75 - 125	4	35		
Zinc	115	100	75 - 125	7	35	^	^
Aluminum	91	61	75 - 125	3	35	4	4
Magnesium	89	27	75 - 125	3	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64602

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19401-16	Units: mg/Kg	MSD Lab Sample ID:	580-19401-16
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	50		Dilution:	50
Date Analyzed:	06/02/2010 1423		Date Analyzed:	06/02/2010 1430
Date Prepared:	05/28/2010 1030		Date Prepared:	05/28/2010 1030

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	1.3	223	228	232	^	231	^
Antimony	1.3	168	171	169	^	166	^
Barium	35	223	228	266		259	
Beryllium	0.26	5.58	5.71	6.20		5.95	
Cadmium	ND	5.58	5.71	6.08		6.30	
Chromium	670	22.3	22.8	693	^ 4	663	^ 4
Lead	19	55.8	57.1	76.1		74.9	
Cobalt	100	55.8	57.1	162	^	157	^
Copper	17	27.9	28.5	47.4	^	45.1	^
Iron	89000	1230	1260	82400	4	81200	4
Manganese	660	55.8	57.1	709	^ 4	684	^ 4
Nickel	1800	55.8	57.1	1840	^ 4	1790	^ 4
Selenium	ND	223	228	240		236	
Silver	ND	33.5	34.3	35.7		35.1	
Thallium	ND	223	228	238		234	
Vanadium	23	55.8	57.1	80.1		76.9	
Zinc	40	55.8	57.1	104	^	97.2	^
Aluminum	2000	223	228	2180	4	2120	4
Magnesium	22000	1120	1140	22500	4	21800	4

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Duplicate - Batch: 580-64602

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19401-16
Client Matrix: Solid
Dilution: 10
Date Analyzed: 06/02/2010 1416
Date Prepared: 05/28/2010 1030

Analysis Batch: 580-64859
Prep Batch: 580-64602
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 028SMP
Initial Weight/Volume: 1.0949 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	1.3	1.29	3	35	^
Antimony	1.3	1.20	8	35	^
Barium	35	31.7	10	35	
Beryllium	0.26	0.257	1	35	
Cadmium	ND	ND	24	35	
Chromium	670	609	9	35	^
Lead	19	17.6	8	35	
Cobalt	100	95.2	9	35	^
Copper	17	15.4	10	35	^
Iron	89000	80400	10	35	
Manganese	660	594	11	35	^
Nickel	1800	1630	9	35	^
Selenium	ND	ND	33	35	
Silver	ND	ND	2	35	
Thallium	ND	ND	8	35	
Vanadium	23	20.6	10	35	
Zinc	40	36.6	9	35	^
Aluminum	2000	1810	9	35	
Magnesium	22000	19800	8	35	
Potassium	ND	ND	9	35	
Sodium	ND	ND	NC	35	
Calcium	360	327	10	35	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64624

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64624/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 06/02/2010 1757
Date Prepared: 05/28/2010 1349

Analysis Batch: 580-64859
Prep Batch: 580-64624
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 059SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND		0.20
Beryllium	ND		0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Copper	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Nickel	ND	^	0.20
Selenium	ND		0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Zinc	ND	^	0.70
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64624/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 06/02/2010 1902
Date Prepared: 05/28/2010 1349

Analysis Batch: 580-64859
Prep Batch: 580-64624
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 068SMPL
Initial Weight/Volume: 0.5171 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	264	117	71.1 - 128.9	^
Antimony	126	165	131	21.0 - 251.6	^
Barium	565	649	115	74.7 - 125.5	
Beryllium	162	188	116	75.3 - 124.7	
Cadmium	69.1	79.3	115	73.2 - 126.8	
Chromium	124	146	118	69.9 - 129.8	^
Lead	223	252	113	75.3 - 125.1	
Cobalt	115	142	124	74.5 - 126.1	^
Copper	66.7	81.1	122	73.2 - 126.8	^
Iron	17600	20900	119	41.6 - 159.1	
Manganese	368	422	115	75.8 - 124.5	^
Nickel	172	211	122	73.8 - 126.7	^
Selenium	147	172	117	67.1 - 132.7	
Silver	35.2	41.7	118	65.6 - 134.4	
Thallium	173	203	117	68.8 - 131.2	
Vanadium	93.9	113	120	64.5 - 135.3	
Zinc	349	421	121	72.2 - 127.8	^
Aluminum	10600	11400	108	46.0 - 153.8	
Magnesium	4260	4780	112	70.0 - 130.0	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64624/22-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64624	Lab File ID: 066SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1847		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1349		

LCSD Lab Sample ID:	LCSD 580-64624/23-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64624	Lab File ID: 067SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1854		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1349		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	98	98	80 - 120	0	35	^	^
Antimony	95	94	80 - 120	2	35	^	^
Barium	99	96	80 - 120	2	35		
Beryllium	98	98	80 - 120	0	35		
Cadmium	96	94	80 - 120	3	35		
Chromium	102	101	80 - 120	1	35	^	^
Lead	99	99	80 - 120	0	35		
Cobalt	104	103	80 - 120	1	35	^	^
Copper	107	108	80 - 120	0	35	^	^
Iron	104	101	80 - 120	2	35		
Manganese	100	100	80 - 120	0	35	^	^
Nickel	106	104	80 - 120	2	35	^	^
Selenium	99	98	80 - 120	1	35		
Silver	101	98	80 - 120	2	35		
Thallium	96	96	80 - 120	1	35		
Vanadium	98	99	80 - 120	2	35		
Zinc	104	103	80 - 120	1	35	^	^
Aluminum	93	94	80 - 120	1	35		
Magnesium	104	100	80 - 120	4	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64624/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64624/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	06/02/2010 1847			Date Analyzed:	06/02/2010 1854
Date Prepared:	05/28/2010 1349			Date Prepared:	05/28/2010 1349

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	197	^	197	^
Antimony	150	150	143	^	140	^
Barium	200	200	197		192	
Beryllium	5.00	5.00	4.88		4.90	
Cadmium	5.00	5.00	4.82		4.69	
Chromium	20.0	20.0	20.3	^	20.2	^
Lead	50.0	50.0	49.6		49.4	
Cobalt	50.0	50.0	52.0	^	51.7	^
Copper	25.0	25.0	26.9	^	26.9	^
Iron	1100	1100	1140		1110	
Manganese	50.0	50.0	50.2	^	50.2	^
Nickel	50.0	50.0	52.8	^	52.0	^
Selenium	200	200	198		196	
Silver	30.0	30.0	30.2		29.5	
Thallium	200	200	192		193	
Vanadium	50.0	50.0	48.8		49.6	
Zinc	50.0	50.0	52.2	^	51.6	^
Aluminum	200	200	186		189	
Magnesium	1000	1000	1040		1000	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19401-33	Analysis Batch:	580-64859	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64624	Lab File ID:	063SMPL.
Dilution:	50			Initial Weight/Volume:	1.0555 g
Date Analyzed:	06/02/2010 1826			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

MSD Lab Sample ID:	580-19401-33	Analysis Batch:	580-64859	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64624	Lab File ID:	064SM
Dilution:	50			Initial Weight/Volume:	1.1226 g
Date Analyzed:	06/02/2010 1833			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	101	104	75 - 125	3	35	^	^
Antimony	98	101	75 - 125	4	35	^	^
Barium	105	109	75 - 125	2	35		
Beryllium	104	106	75 - 125	4	35		
Cadmium	101	108	75 - 125	0	35		
Chromium	-128	-212	75 - 125	2	35	^ 4	^ 4
Lead	107	111	75 - 125	2	35		
Cobalt	88	89	75 - 125	2	35	^	^
Copper	104	107	75 - 125	3	35	^	^
Iron	-613	-665	75 - 125	0	35	4	4
Manganese	20	-8	75 - 125	2	35	^ 4	^ 4
Nickel	-36	-110	75 - 125	2	35	^ 4	^ 4
Selenium	100	108	75 - 125	1	35		
Silver	105	105	75 - 125	6	35		
Thallium	106	109	75 - 125	3	35		
Vanadium	100	104	75 - 125	2	35		
Zinc	103	100	75 - 125	7	35	^	^
Aluminum	56	47	75 - 125	2	35	4	4
Magnesium	-1590	-2350	75 - 125	3	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19401-33	Units: mg/Kg	MSD Lab Sample ID:	580-19401-33
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	50		Dilution:	50
Date Analyzed:	06/02/2010 1826		Date Analyzed:	06/02/2010 1833
Date Prepared:	05/28/2010 1349		Date Prepared:	05/28/2010 1349

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	0.22	198	186	201	^	195	^
Antimony	ND	149	140	146	^	141	^
Barium	1.7	198	186	210		206	
Beryllium	ND	4.95	4.66	5.15		4.96	
Cadmium	ND	4.95	4.66	5.02		5.04	
Chromium	630	19.8	18.6	601	^ 4	587	^ 4
Lead	1.4	49.5	46.6	54.4		53.3	
Cobalt	86	49.5	46.6	130	^	127	^
Copper	3.2	24.8	23.3	29.0	^	28.1	^
Iron	49000	1090	1020	42800	4	42700	4
Manganese	710	49.5	46.6	719	^ 4	705	^ 4
Nickel	1800	49.5	46.6	1760	^ 4	1720	^ 4
Selenium	ND	198	186	199		201	
Silver	ND	29.7	27.9	31.3		29.4	
Thallium	ND	198	186	210		204	
Vanadium	10	49.5	46.6	60.0		58.6	
Zinc	18	49.5	46.6	69.5	^	64.7	^
Aluminum	1100	198	186	1200	4	1170	4
Magnesium	200000	991	932	185000	4	179000	4

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Duplicate - Batch: 580-64624

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19401-33
Client Matrix: Solid
Dilution: 10
Date Analyzed: 06/02/2010 1819
Date Prepared: 05/28/2010 1349

Analysis Batch: 580-64859
Prep Batch: 580-64624
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 062SMPL
Initial Weight/Volume: 1.0360 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	0.22	ND	19	35	^
Antimony	ND	ND	NC	35	^
Barium	1.7	1.44	14	35	
Beryllium	ND	ND	NC	35	
Cadmium	ND	ND	66	35	
Chromium	630	595	5	35	^
Lead	1.4	1.28	8	35	
Cobalt	86	82.0	5	35	^
Copper	3.2	3.11	3	35	^
Iron	49000	45600	8	35	
Manganese	710	686	3	35	^
Nickel	1800	1690	5	35	^
Selenium	ND	ND	19	35	
Silver	ND	ND	NC	35	
Thallium	ND	ND	NC	35	
Vanadium	10	9.55	7	35	
Zinc	18	17.9	2	35	^
Aluminum	1100	1020	6	35	
Magnesium	200000	192000	5	35	
Potassium	ND	ND	NC	35	
Sodium	ND	ND	NC	35	
Calcium	3600	3370	7	35	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64538

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-64538/22-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1043
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-64538/25-A
Client Matrix: Solid
Dilution: 2.0
Date Analyzed: 05/28/2010 1056
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.1110 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	5.27	102	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64538

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64538/23-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1047
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-64538/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1052
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	107	106	75 - 125	1	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64538

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64538/23-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1047
Date Prepared: 05/27/2010 1356

LCSD Lab Sample ID: LCSD 580-64538/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1052
Date Prepared: 05/27/2010 1356

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.214	0.212

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64538

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1109
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.7438 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1114
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.7485 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	506	450	75 - 125	1	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64538

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1109
Date Prepared: 05/27/2010 1356

Units: mg/Kg

MSD Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1114
Date Prepared: 05/27/2010 1356

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	6.3	0.155	0.154	7.06	4	6.97	4

Duplicate - Batch: 580-64538

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1105
Date Prepared: 05/27/2010 1356

Analysis Batch: 580-64691
Prep Batch: 580-64538
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5377 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	6.3	9.79	44	35	F

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64544

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 580-64544/20-A	Analysis Batch:	580-64691	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64544	Lab File ID:	64538-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/28/2010 1302			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 580-64544/23-A	Analysis Batch:	580-64691	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64544	Lab File ID:	64538-HG.PRN
Dilution:	2.0	Units:	mg/Kg	Initial Weight/Volume:	0.1350 g
Date Analyzed:	05/28/2010 1316			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.99	97	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64544

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64544/21-A	Analysis Batch:	580-64691	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64544	Lab File ID:	64538-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/28/2010 1307			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

LCSD Lab Sample ID:	LCSD 580-64544/22-A	Analysis Batch:	580-64691	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64544	Lab File ID:	64538-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/28/2010 1311			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1502				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	106	107	75 - 125	0	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64544

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64544/21-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1307
Date Prepared: 05/27/2010 1502

LCSD Lab Sample ID: LCSD 580-64544/22-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1311
Date Prepared: 05/27/2010 1502

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.213	0.214

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64544

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19401-19
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1338
Date Prepared: 05/27/2010 1502

Analysis Batch: 580-64691
Prep Batch: 580-64544

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.6193 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-19401-19
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1343
Date Prepared: 05/27/2010 1502

Analysis Batch: 580-64691
Prep Batch: 580-64544

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.9128 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	-884	-4820	75 - 125	39	35	4	4 F

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64544

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19401-19
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1338
Date Prepared: 05/27/2010 1502

Units: mg/Kg

MSD Lab Sample ID: 580-19401-19
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1343
Date Prepared: 05/27/2010 1502

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	16	0.189	0.128	13.8	4	9.32	4 F

Duplicate - Batch: 580-64544

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-19401-19
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1334
Date Prepared: 05/27/2010 1502

Analysis Batch: 580-64691
Prep Batch: 580-64544
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.6941 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	16	12.6	20	35	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Method Blank - Batch: 580-64650

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-64650/12-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/01/2010 1449
Date Prepared: 05/29/2010 1222

Analysis Batch: 580-64760
Prep Batch: 580-64650
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64650-HG.PRN
Initial Weight/Volume: 0.6 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.017

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-64650/15-A
Client Matrix: Solid
Dilution: 2.0
Date Analyzed: 06/01/2010 1503
Date Prepared: 05/29/2010 1222

Analysis Batch: 580-64760
Prep Batch: 580-64650
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64650-HG.PRN
Initial Weight/Volume: 0.1050 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.47	87	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64650

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64650/13-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/01/2010 1454
Date Prepared: 05/29/2010 1222

Analysis Batch: 580-64760
Prep Batch: 580-64650
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64650-HG.PRN
Initial Weight/Volume: 0.6 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-64650/14-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/01/2010 1459
Date Prepared: 05/29/2010 1222

Analysis Batch: 580-64760
Prep Batch: 580-64650
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64650-HG.PRN
Initial Weight/Volume: 0.6 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	102	104	75 - 125	1	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64650

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64650/13-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64650/14-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	06/01/2010 1454			Date Analyzed:	06/01/2010 1459
Date Prepared:	05/29/2010 1222			Date Prepared:	05/29/2010 1222

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.167	0.167	0.171	0.173

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Duplicate - Batch: 580-64198

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19401-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/24/2010 1203
Date Prepared: N/A

Analysis Batch: 580-64198
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	87	87	0	20	
Percent Moisture	13	13	1	20	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Duplicate - Batch: 580-64227

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19401-31
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/24/2010 1459
Date Prepared: N/A

Analysis Batch: 580-64227
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	91	91	0	20	
Percent Moisture	8.7	8.6	0	20	

DATA REPORTING QUALIFIERS

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

Lab Section	Qualifier	Description
Metals		
	F	Duplicate RPD exceeds the control limit
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	F	RPD of the MS and MSD exceeds the control limits
	V	Serial Dilution exceeds the control limits

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64538					
LCS 580-64538/23-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64538/24-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64538/25-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64538/22-A	Method Blank	T	Solid	7471A	
580-19401-1	01CMSS	T	Solid	7471A	
580-19401-1DU	Duplicate	T	Solid	7471A	
580-19401-1MS	Matrix Spike	T	Solid	7471A	
580-19401-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-19401-2	02CMSS	T	Solid	7471A	
580-19401-3	03CMSS	T	Solid	7471A	
580-19401-4	04CMSS	T	Solid	7471A	
580-19401-5	05CMSS	T	Solid	7471A	
580-19401-6	06CMSS	T	Solid	7471A	
580-19401-7	07CMSS	T	Solid	7471A	
580-19401-8	08CMSS	T	Solid	7471A	
580-19401-9	09CMSS	T	Solid	7471A	
580-19401-10	10CMSS	T	Solid	7471A	
580-19401-11	11CMSS	T	Solid	7471A	
580-19401-12	12CMSS	T	Solid	7471A	
580-19401-13	08HMSS	T	Solid	7471A	
580-19401-14	10HMSS	T	Solid	7471A	
580-19401-15	11HMSS	T	Solid	7471A	
580-19401-16	12HMSS	T	Solid	7471A	
580-19401-17	13HMSS	T	Solid	7471A	
580-19401-18	14HMSS	T	Solid	7471A	

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64541					
LCS 580-64541/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64541/21-A	Method Blank	T	Solid	3050B	
580-19401-1	01CMSS	T	Solid	3050B	
580-19401-2	02CMSS	T	Solid	3050B	
580-19401-3	03CMSS	T	Solid	3050B	
580-19401-4	04CMSS	T	Solid	3050B	
580-19401-5	05CMSS	T	Solid	3050B	
580-19401-6	06CMSS	T	Solid	3050B	
580-19401-7	07CMSS	T	Solid	3050B	
580-19401-8	08CMSS	T	Solid	3050B	
580-19401-9	09CMSS	T	Solid	3050B	
580-19401-10	10CMSS	T	Solid	3050B	
580-19401-11	11CMSS	T	Solid	3050B	
580-19401-12	12CMSS	T	Solid	3050B	
580-19401-13	08HMSS	T	Solid	3050B	
580-19401-14	10HMSS	T	Solid	3050B	
580-19401-15	11HMSS	T	Solid	3050B	
Prep Batch: 580-64544					
LCS 580-64544/21-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64544/22-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64544/23-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64544/20-A	Method Blank	T	Solid	7471A	
580-19401-19	15HMSS	T	Solid	7471A	
580-19401-19DU	Duplicate	T	Solid	7471A	
580-19401-19MS	Matrix Spike	T	Solid	7471A	
580-19401-19MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-19401-20	16HMSS	T	Solid	7471A	
580-19401-21	17HMSS	T	Solid	7471A	
580-19401-22	18HMSS	T	Solid	7471A	
580-19401-24	20HMSS	T	Solid	7471A	
580-19401-25	13CMSS	T	Solid	7471A	
580-19401-27	15CMSS	T	Solid	7471A	
580-19401-28	18CMSS	T	Solid	7471A	
580-19401-29	17CMSS	T	Solid	7471A	
580-19401-30	16CMSS	T	Solid	7471A	
580-19401-31	01HMSS	T	Solid	7471A	
580-19401-32	03HMSS	T	Solid	7471A	
580-19401-33	02HMSS	T	Solid	7471A	
580-19401-34	05HMSS	T	Solid	7471A	
580-19401-35	06HMSS	T	Solid	7471A	
580-19401-36	07HMSS	T	Solid	7471A	

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64602					
LCS 580-64602/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64602/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64602/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64602/21-A	Method Blank	T	Solid	3050B	
580-19401-16	12HMSS	T	Solid	3050B	
580-19401-16DU	Duplicate	T	Solid	3050B	
580-19401-16MS	Matrix Spike	T	Solid	3050B	
580-19401-16MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19401-17	13HMSS	T	Solid	3050B	
580-19401-18	14HMSS	T	Solid	3050B	
580-19401-19	15HMSS	T	Solid	3050B	
580-19401-20	16HMSS	T	Solid	3050B	
580-19401-21	17HMSS	T	Solid	3050B	
580-19401-22	18HMSS	T	Solid	3050B	
580-19401-23	19HMSS	T	Solid	3050B	
580-19401-24	20HMSS	T	Solid	3050B	
580-19401-25	13CMSS	T	Solid	3050B	
580-19401-26	14CMSS	T	Solid	3050B	
580-19401-27	15CMSS	T	Solid	3050B	
580-19401-28	18CMSS	T	Solid	3050B	
580-19401-29	17CMSS	T	Solid	3050B	
580-19401-30	16CMSS	T	Solid	3050B	
580-19401-31	01HMSS	T	Solid	3050B	
580-19401-32	03HMSS	T	Solid	3050B	
Prep Batch: 580-64624					
LCS 580-64624/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64624/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64624/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64624/21-A	Method Blank	T	Solid	3050B	
580-19401-33	02HMSS	T	Solid	3050B	
580-19401-33DU	Duplicate	T	Solid	3050B	
580-19401-33MS	Matrix Spike	T	Solid	3050B	
580-19401-33MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19401-34	05HMSS	T	Solid	3050B	
580-19401-35	06HMSS	T	Solid	3050B	
580-19401-36	07HMSS	T	Solid	3050B	
Prep Batch: 580-64650					
LCS 580-64650/13-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64650/14-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64650/15-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64650/12-A	Method Blank	T	Solid	7471A	
580-19401-23	19HMSS	T	Solid	7471A	
580-19401-26	14CMSS	T	Solid	7471A	

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64691					
LCS 580-64538/23-A	Lab Control Sample	T	Solid	7471A	580-64538
LCSD 580-64538/24-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64538
LCSSRM 580-64538/25-A	LCS-Standard Reference Material	T	Solid	7471A	580-64538
MB 580-64538/22-A	Method Blank	T	Solid	7471A	580-64538
LCS 580-64544/21-A	Lab Control Sample	T	Solid	7471A	580-64544
LCSD 580-64544/22-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64544
LCSSRM 580-64544/23-A	LCS-Standard Reference Material	T	Solid	7471A	580-64544
MB 580-64544/20-A	Method Blank	T	Solid	7471A	580-64544
580-19401-1	01CMSS	T	Solid	7471A	580-64538
580-19401-1DU	Duplicate	T	Solid	7471A	580-64538
580-19401-1MS	Matrix Spike	T	Solid	7471A	580-64538
580-19401-1MSD	Matrix Spike Duplicate	T	Solid	7471A	580-64538
580-19401-2	02CMSS	T	Solid	7471A	580-64538
580-19401-3	03CMSS	T	Solid	7471A	580-64538
580-19401-4	04CMSS	T	Solid	7471A	580-64538
580-19401-5	05CMSS	T	Solid	7471A	580-64538
580-19401-6	06CMSS	T	Solid	7471A	580-64538
580-19401-7	07CMSS	T	Solid	7471A	580-64538
580-19401-8	08CMSS	T	Solid	7471A	580-64538
580-19401-9	09CMSS	T	Solid	7471A	580-64538
580-19401-10	10CMSS	T	Solid	7471A	580-64538
580-19401-11	11CMSS	T	Solid	7471A	580-64538
580-19401-12	12CMSS	T	Solid	7471A	580-64538
580-19401-13	08HMSS	T	Solid	7471A	580-64538
580-19401-14	10HMSS	T	Solid	7471A	580-64538
580-19401-15	11HMSS	T	Solid	7471A	580-64538
580-19401-16	12HMSS	T	Solid	7471A	580-64538
580-19401-17	13HMSS	T	Solid	7471A	580-64538
580-19401-18	14HMSS	T	Solid	7471A	580-64538
580-19401-19	15HMSS	T	Solid	7471A	580-64544
580-19401-19DU	Duplicate	T	Solid	7471A	580-64544
580-19401-19MS	Matrix Spike	T	Solid	7471A	580-64544
580-19401-19MSD	Matrix Spike Duplicate	T	Solid	7471A	580-64544
580-19401-20	16HMSS	T	Solid	7471A	580-64544
580-19401-21	17HMSS	T	Solid	7471A	580-64544
580-19401-22	18HMSS	T	Solid	7471A	580-64544
580-19401-24	20HMSS	T	Solid	7471A	580-64544
580-19401-25	13CMSS	T	Solid	7471A	580-64544
580-19401-27	15CMSS	T	Solid	7471A	580-64544
580-19401-28	18CMSS	T	Solid	7471A	580-64544
580-19401-29	17CMSS	T	Solid	7471A	580-64544
580-19401-30	16CMSS	T	Solid	7471A	580-64544
580-19401-31	01HMSS	T	Solid	7471A	580-64544
580-19401-32	03HMSS	T	Solid	7471A	580-64544
580-19401-33	02HMSS	T	Solid	7471A	580-64544
580-19401-34	05HMSS	T	Solid	7471A	580-64544

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64691					
580-19401-35	06HMSS	T	Solid	7471A	580-64544
580-19401-36	07HMSS	T	Solid	7471A	580-64544
Analysis Batch:580-64718					
LCS 580-64541/22-A	Lab Control Sample	T	Solid	6020	580-64541
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64541
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64541
MB 580-64541/21-A	Method Blank	T	Solid	6020	580-64541
580-19401-1	01CMSS	T	Solid	6020	580-64541
580-19401-2	02CMSS	T	Solid	6020	580-64541
580-19401-3	03CMSS	T	Solid	6020	580-64541
580-19401-4	04CMSS	T	Solid	6020	580-64541
580-19401-5	05CMSS	T	Solid	6020	580-64541
580-19401-6	06CMSS	T	Solid	6020	580-64541
580-19401-7	07CMSS	T	Solid	6020	580-64541
580-19401-8	08CMSS	T	Solid	6020	580-64541
580-19401-9	09CMSS	T	Solid	6020	580-64541
580-19401-10	10CMSS	T	Solid	6020	580-64541
580-19401-11	11CMSS	T	Solid	6020	580-64541
580-19401-12	12CMSS	T	Solid	6020	580-64541
580-19401-13	08HMSS	T	Solid	6020	580-64541
580-19401-14	10HMSS	T	Solid	6020	580-64541
580-19401-15	11HMSS	T	Solid	6020	580-64541
Analysis Batch:580-64756					
LCS 580-64541/22-A	Lab Control Sample	T	Solid	6020	580-64541
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64541
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64541
MB 580-64541/21-A	Method Blank	T	Solid	6020	580-64541
580-19401-1	01CMSS	T	Solid	6020	580-64541
580-19401-2	02CMSS	T	Solid	6020	580-64541
580-19401-3	03CMSS	T	Solid	6020	580-64541
580-19401-4	04CMSS	T	Solid	6020	580-64541
580-19401-5	05CMSS	T	Solid	6020	580-64541
580-19401-6	06CMSS	T	Solid	6020	580-64541
580-19401-7	07CMSS	T	Solid	6020	580-64541
580-19401-8	08CMSS	T	Solid	6020	580-64541
580-19401-9	09CMSS	T	Solid	6020	580-64541
580-19401-10	10CMSS	T	Solid	6020	580-64541
580-19401-11	11CMSS	T	Solid	6020	580-64541
580-19401-12	12CMSS	T	Solid	6020	580-64541
580-19401-13	08HMSS	T	Solid	6020	580-64541
580-19401-14	10HMSS	T	Solid	6020	580-64541
580-19401-15	11HMSS	T	Solid	6020	580-64541

Client: Ecology and Environment, Inc. Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64760					
LCS 580-64650/13-A	Lab Control Sample	T	Solid	7471A	580-64650
LCSD 580-64650/14-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64650
LCSSRM 580-64650/15-A	LCS-Standard Reference Material	T	Solid	7471A	580-64650
MB 580-64650/12-A	Method Blank	T	Solid	7471A	580-64650
580-19401-23	19HMSS	T	Solid	7471A	580-64650
580-19401-26	14CMSS	T	Solid	7471A	580-64650
Analysis Batch:580-64859					
LCS 580-64602/22-A	Lab Control Sample	T	Solid	6020	580-64602
LCSD 580-64602/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64602
LCSSRM 580-64602/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64602
MB 580-64602/21-A	Method Blank	T	Solid	6020	580-64602
LCS 580-64624/22-A	Lab Control Sample	T	Solid	6020	580-64624
LCSD 580-64624/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64624
LCSSRM 580-64624/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64624
MB 580-64624/21-A	Method Blank	T	Solid	6020	580-64624
580-19401-16	12HMSS	T	Solid	6020	580-64602
580-19401-16DU	Duplicate	T	Solid	6020	580-64602
580-19401-16MS	Matrix Spike	T	Solid	6020	580-64602
580-19401-16MSD	Matrix Spike Duplicate	T	Solid	6020	580-64602
580-19401-17	13HMSS	T	Solid	6020	580-64602
580-19401-18	14HMSS	T	Solid	6020	580-64602
580-19401-19	15HMSS	T	Solid	6020	580-64602
580-19401-20	16HMSS	T	Solid	6020	580-64602
580-19401-21	17HMSS	T	Solid	6020	580-64602
580-19401-22	18HMSS	T	Solid	6020	580-64602
580-19401-23	19HMSS	T	Solid	6020	580-64602
580-19401-24	20HMSS	T	Solid	6020	580-64602
580-19401-25	13CMSS	T	Solid	6020	580-64602
580-19401-26	14CMSS	T	Solid	6020	580-64602
580-19401-27	15CMSS	T	Solid	6020	580-64602
580-19401-28	18CMSS	T	Solid	6020	580-64602
580-19401-29	17CMSS	T	Solid	6020	580-64602
580-19401-30	16CMSS	T	Solid	6020	580-64602
580-19401-31	01HMSS	T	Solid	6020	580-64602
580-19401-32	03HMSS	T	Solid	6020	580-64602
580-19401-33	02HMSS	T	Solid	6020	580-64624
580-19401-33DU	Duplicate	T	Solid	6020	580-64624
580-19401-33MS	Matrix Spike	T	Solid	6020	580-64624
580-19401-33MSD	Matrix Spike Duplicate	T	Solid	6020	580-64624
580-19401-34	05HMSS	T	Solid	6020	580-64624
580-19401-35	06HMSS	T	Solid	6020	580-64624
580-19401-36	07HMSS	T	Solid	6020	580-64624

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

T = Total

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-64098					
580-19401-21	17HMSS	T	Solid	Moisture	
580-19401-22	18HMSS	T	Solid	Moisture	
580-19401-23	19HMSS	T	Solid	Moisture	
580-19401-24	20HMSS	T	Solid	Moisture	
580-19401-25	13CMSS	T	Solid	Moisture	
580-19401-26	14CMSS	T	Solid	Moisture	
Analysis Batch:580-64198					
580-19401-1	01CMSS	T	Solid	Moisture	
580-19401-1DU	Duplicate	T	Solid	Moisture	
580-19401-2	02CMSS	T	Solid	Moisture	
580-19401-3	03CMSS	T	Solid	Moisture	
580-19401-4	04CMSS	T	Solid	Moisture	
580-19401-5	05CMSS	T	Solid	Moisture	
580-19401-6	06CMSS	T	Solid	Moisture	
580-19401-7	07CMSS	T	Solid	Moisture	
580-19401-8	08CMSS	T	Solid	Moisture	
580-19401-9	09CMSS	T	Solid	Moisture	
580-19401-10	10CMSS	T	Solid	Moisture	
580-19401-11	11CMSS	T	Solid	Moisture	
580-19401-12	12CMSS	T	Solid	Moisture	
580-19401-13	08HMSS	T	Solid	Moisture	
580-19401-14	10HMSS	T	Solid	Moisture	
580-19401-15	11HMSS	T	Solid	Moisture	
580-19401-16	12HMSS	T	Solid	Moisture	
580-19401-17	13HMSS	T	Solid	Moisture	
580-19401-18	14HMSS	T	Solid	Moisture	
580-19401-19	15HMSS	T	Solid	Moisture	
580-19401-20	16HMSS	T	Solid	Moisture	
Analysis Batch:580-64227					
580-19401-27	15CMSS	T	Solid	Moisture	
580-19401-28	18CMSS	T	Solid	Moisture	
580-19401-29	17CMSS	T	Solid	Moisture	
580-19401-30	16CMSS	T	Solid	Moisture	
580-19401-31	01HMSS	T	Solid	Moisture	
580-19401-31DU	Duplicate	T	Solid	Moisture	
580-19401-32	03HMSS	T	Solid	Moisture	
580-19401-33	02HMSS	T	Solid	Moisture	
580-19401-34	05HMSS	T	Solid	Moisture	
580-19401-35	06HMSS	T	Solid	Moisture	
580-19401-36	07HMSS	T	Solid	Moisture	

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19401-1

SDG No.:

Project: Contact and Sonoma Mine Sites

Client Sample ID	Lab Sample ID
01CMSS	580-19401-1
02CMSS	580-19401-2
03CMSS	580-19401-3
04CMSS	580-19401-4
05CMSS	580-19401-5
06CMSS	580-19401-6
07CMSS	580-19401-7
08CMSS	580-19401-8
09CMSS	580-19401-9
10CMSS	580-19401-10
11CMSS	580-19401-11
12CMSS	580-19401-12
08HMSS	580-19401-13
10HMSS	580-19401-14
11HMSS	580-19401-15
12HMSS	580-19401-16
13HMSS	580-19401-17
14HMSS	580-19401-18
15HMSS	580-19401-19
16HMSS	580-19401-20
17HMSS	580-19401-21
18HMSS	580-19401-22
19HMSS	580-19401-23
20HMSS	580-19401-24
13CMSS	580-19401-25
14CMSS	580-19401-26
15CMSS	580-19401-27
18CMSS	580-19401-28
17CMSS	580-19401-29
16CMSS	580-19401-30
01HMSS	580-19401-31
03HMSS	580-19401-32
02HMSS	580-19401-33
05HMSS	580-19401-34
06HMSS	580-19401-35
07HMSS	580-19401-36

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01CMSS
Lab Sample ID: 580-19401-1
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 13:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 86.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.4	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.79	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	270	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.47	0.20	0.0070	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	240	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	9.4	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	31	0.20	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	27	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	38000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	640	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	430	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	53	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	59	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	18000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	44000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1300	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	10000	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	6.3	0.27	0.085	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02CMSS
Lab Sample ID: 580-19401-2
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 13:40
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 88.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.6	0.21	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.88	0.21	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.21	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.45	0.21	0.0071	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	340	0.21	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	9.9	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	39	0.21	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	27	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	42000	21	3.5	mg/Kg			10	6020
7439-96-5	Manganese	690	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	580	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	0.55	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	59	0.21	0.027	mg/Kg			10	6020
7440-66-6	Zinc	52	0.72	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	58000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1100	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	14000	100	9.1	mg/Kg			10	6020
7439-97-6	Mercury	10	0.31	0.098	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03CMSS
Lab Sample ID: 580-19401-3
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 13:50
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 74.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.2	0.25	0.0050	mg/Kg		^	10	6020
7440-36-0	Antimony	3.9	0.25	0.083	mg/Kg		^	10	6020
7440-39-3	Barium	1100	0.25	0.019	mg/Kg		^	10	6020
7440-41-7	Beryllium	1.1	0.25	0.0087	mg/Kg			10	6020
7440-43-9	Cadmium	19	0.25	0.0059	mg/Kg			10	6020
7440-47-3	Chromium	170	0.25	0.050	mg/Kg		^	10	6020
7439-92-1	Lead	600	0.25	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	29	0.25	0.0067	mg/Kg		^	10	6020
7440-50-8	Copper	130	0.25	0.041	mg/Kg		^	10	6020
7439-89-6	Iron	46000	25	4.3	mg/Kg			10	6020
7439-96-5	Manganese	1100	0.63	0.20	mg/Kg		^	10	6020
7440-02-0	Nickel	240	0.25	0.046	mg/Kg		^	10	6020
7782-49-2	Selenium	1.6	0.63	0.0050	mg/Kg			10	6020
7440-22-4	Silver	0.30	0.25	0.0052	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.50	0.050	mg/Kg			10	6020
7440-62-2	Vanadium	70	0.25	0.034	mg/Kg			10	6020
7440-66-6	Zinc	8500	0.88	0.19	mg/Kg		^	10	6020
7429-90-5	Aluminum	20000	38	3.8	mg/Kg			10	6020
7439-95-4	Magnesium	21000	130	3.3	mg/Kg			10	6020
7440-09-7	Potassium	2400	130	4.2	mg/Kg			10	6020
7440-23-5	Sodium	330	130	49	mg/Kg			10	6020
7440-70-2	Calcium	16000	130	11	mg/Kg			10	6020
7439-97-6	Mercury	1.4	0.23	0.072	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04CMSS
Lab Sample ID: 580-19401-4
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 13:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 82.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.4	0.22	0.0044	mg/Kg		^	10	6020
7440-36-0	Antimony	0.79	0.22	0.072	mg/Kg		^	10	6020
7440-39-3	Barium	210	0.22	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.47	0.22	0.0075	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	340	0.22	0.044	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	42	0.22	0.0059	mg/Kg		^	10	6020
7440-50-8	Copper	29	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	42000	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	740	0.55	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	620	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	0.67	0.55	0.0044	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0045	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.44	0.044	mg/Kg			10	6020
7440-62-2	Vanadium	56	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	72	0.77	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	18000	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	45000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	1200	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	5900	110	9.7	mg/Kg			10	6020
7439-97-6	Mercury	11	0.46	0.14	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05CMSS
Lab Sample ID: 580-19401-5
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 14:02
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 83.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.4	0.22	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	0.41	0.22	0.074	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.22	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.45	0.22	0.0078	mg/Kg			10	6020
7440-43-9	Cadmium	0.28	0.22	0.0053	mg/Kg			10	6020
7440-47-3	Chromium	110	0.22	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	8.0	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	19	0.22	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	43	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	32000	22	3.9	mg/Kg			10	6020
7439-96-5	Manganese	800	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	130	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	64	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	100	0.79	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	17000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	880	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	44	mg/Kg			10	6020
7440-70-2	Calcium	6200	110	10	mg/Kg			10	6020
7439-97-6	Mercury	1.2	0.14	0.043	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06CMSS
Lab Sample ID: 580-19401-6
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 14:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 61.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.3	0.32	0.0064	mg/Kg		^	10	6020
7440-36-0	Antimony	0.67	0.32	0.11	mg/Kg		^	10	6020
7440-39-3	Barium	340	0.32	0.024	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.59	0.32	0.011	mg/Kg			10	6020
7440-43-9	Cadmium	0.35	0.32	0.0075	mg/Kg			10	6020
7440-47-3	Chromium	90	0.32	0.064	mg/Kg		^	10	6020
7439-92-1	Lead	43	0.32	0.017	mg/Kg			10	6020
7440-48-4	Cobalt	26	0.32	0.0086	mg/Kg		^	10	6020
7440-50-8	Copper	50	0.32	0.052	mg/Kg		^	10	6020
7439-89-6	Iron	36000	32	5.5	mg/Kg			10	6020
7439-96-5	Manganese	810	0.80	0.25	mg/Kg		^	10	6020
7440-02-0	Nickel	210	0.32	0.059	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.80	0.0064	mg/Kg			10	6020
7440-22-4	Silver	ND	0.32	0.0066	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.64	0.064	mg/Kg			10	6020
7440-62-2	Vanadium	55	0.32	0.043	mg/Kg			10	6020
7440-66-6	Zinc	100	1.1	0.24	mg/Kg		^	10	6020
7429-90-5	Aluminum	15000	48	4.8	mg/Kg			10	6020
7439-95-4	Magnesium	23000	160	4.2	mg/Kg			10	6020
7440-09-7	Potassium	1900	160	5.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	160	63	mg/Kg			10	6020
7440-70-2	Calcium	11000	160	14	mg/Kg			10	6020
7439-97-6	Mercury	24	0.62	0.20	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07CMSS
Lab Sample ID: 580-19401-7
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 14:20
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 83.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.2	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	1.0	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	330	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.59	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	1.8	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	270	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	49	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	35	0.20	0.0053	mg/Kg		^	10	6020
7440-50-8	Copper	39	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	41000	20	3.4	mg/Kg			10	6020
7439-96-5	Manganese	710	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	480	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	0.62	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	57	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	970	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	48000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1500	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	110	100	39	mg/Kg			10	6020
7440-70-2	Calcium	13000	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	5.9	0.30	0.094	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 08CMSS
Lab Sample ID: 580-19401-8
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 14:50
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 86.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.5	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	0.55	0.23	0.075	mg/Kg		^	10	6020
7440-39-3	Barium	150	0.23	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.23	0.0079	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0054	mg/Kg			10	6020
7440-47-3	Chromium	700	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	73	0.23	0.0061	mg/Kg		^	10	6020
7440-50-8	Copper	16	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	46000	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	800	0.57	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1300	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.57	0.0046	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0047	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.46	0.046	mg/Kg			10	6020
7440-62-2	Vanadium	38	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	51	0.80	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	7800	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	110000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	400	110	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	45	mg/Kg			10	6020
7440-70-2	Calcium	16000	110	10	mg/Kg			10	6020
7439-97-6	Mercury	27	7.4	2.3	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 09CMSS
Lab Sample ID: 580-19401-9
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 14:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 84.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.5	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.76	0.21	0.069	mg/Kg		^	10	6020
7440-39-3	Barium	340	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.51	0.21	0.0073	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	370	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	8.6	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	43	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	29	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	46000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	720	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	660	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	1.0	0.53	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	67	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	65	0.74	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	22000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	59000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1300	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	41	mg/Kg			10	6020
7440-70-2	Calcium	18000	110	9.3	mg/Kg			10	6020
7439-97-6	Mercury	1.9	0.17	0.055	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 10CMSS
Lab Sample ID: 580-19401-10
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 15:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 79.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.58	0.022	0.00044	mg/Kg		^	1	6020
7440-36-0	Antimony	0.054	0.022	0.0072	mg/Kg		^	1	6020
7440-39-3	Barium	21	0.022	0.0016	mg/Kg		^	1	6020
7440-41-7	Beryllium	0.042	0.022	0.00076	mg/Kg			1	6020
7440-43-9	Cadmium	ND	0.022	0.00052	mg/Kg			1	6020
7440-47-3	Chromium	17	0.022	0.0044	mg/Kg		^	1	6020
7439-92-1	Lead	1.2	0.022	0.0011	mg/Kg			1	6020
7440-48-4	Cobalt	2.9	0.022	0.00059	mg/Kg		^	1	6020
7440-50-8	Copper	2.8	0.022	0.0036	mg/Kg		^	1	6020
7439-89-6	Iron	3300	2.2	0.38	mg/Kg			1	6020
7439-96-5	Manganese	64	0.055	0.017	mg/Kg		^	1	6020
7440-02-0	Nickel	31	0.022	0.0040	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.055	0.00044	mg/Kg			1	6020
7440-22-4	Silver	ND	0.022	0.00045	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.044	0.0044	mg/Kg			1	6020
7440-62-2	Vanadium	4.4	0.022	0.0029	mg/Kg			1	6020
7440-66-6	Zinc	8.2	0.077	0.017	mg/Kg		^	1	6020
7429-90-5	Aluminum	1500	3.3	0.33	mg/Kg			1	6020
7439-95-4	Magnesium	2000	11	0.29	mg/Kg			1	6020
7440-09-7	Potassium	140	11	0.37	mg/Kg			1	6020
7440-23-5	Sodium	ND	11	4.3	mg/Kg			1	6020
7440-70-2	Calcium	420	11	0.98	mg/Kg			1	6020
7439-97-6	Mercury	89	6.6	2.1	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 11CMSS
Lab Sample ID: 580-19401-11
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 15:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 81.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.70	0.021	0.00043	mg/Kg		^	1	6020
7440-36-0	Antimony	0.067	0.021	0.0070	mg/Kg		^	1	6020
7440-39-3	Barium	17	0.021	0.0016	mg/Kg		^	1	6020
7440-41-7	Beryllium	0.044	0.021	0.00073	mg/Kg			1	6020
7440-43-9	Cadmium	ND	0.021	0.00050	mg/Kg			1	6020
7440-47-3	Chromium	39	0.021	0.0043	mg/Kg		^	1	6020
7439-92-1	Lead	1.5	0.021	0.0011	mg/Kg			1	6020
7440-48-4	Cobalt	5.7	0.021	0.00057	mg/Kg		^	1	6020
7440-50-8	Copper	3.4	0.021	0.0034	mg/Kg		^	1	6020
7439-89-6	Iron	4300	2.1	0.37	mg/Kg			1	6020
7439-96-5	Manganese	79	0.053	0.017	mg/Kg		^	1	6020
7440-02-0	Nickel	78	0.021	0.0039	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.053	0.00043	mg/Kg			1	6020
7440-22-4	Silver	ND	0.021	0.00044	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.043	0.0043	mg/Kg			1	6020
7440-62-2	Vanadium	5.3	0.021	0.0028	mg/Kg			1	6020
7440-66-6	Zinc	7.0	0.074	0.016	mg/Kg		^	1	6020
7429-90-5	Aluminum	1700	3.2	0.32	mg/Kg			1	6020
7439-95-4	Magnesium	5700	11	0.28	mg/Kg			1	6020
7440-09-7	Potassium	92	11	0.35	mg/Kg			1	6020
7440-23-5	Sodium	ND	11	4.2	mg/Kg			1	6020
7440-70-2	Calcium	370	11	0.94	mg/Kg			1	6020
7439-97-6	Mercury	90	9.0	2.8	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12CMSS
Lab Sample ID: 580-19401-12
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 15:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 86.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.46	0.021	0.00042	mg/Kg		^	1	6020
7440-36-0	Antimony	0.041	0.021	0.0069	mg/Kg		^	1	6020
7440-39-3	Barium	10	0.021	0.0016	mg/Kg		^	1	6020
7440-41-7	Beryllium	0.034	0.021	0.00072	mg/Kg			1	6020
7440-43-9	Cadmium	ND	0.021	0.00049	mg/Kg			1	6020
7440-47-3	Chromium	34	0.021	0.0042	mg/Kg		^	1	6020
7439-92-1	Lead	1.1	0.021	0.0011	mg/Kg			1	6020
7440-48-4	Cobalt	4.2	0.021	0.00056	mg/Kg		^	1	6020
7440-50-8	Copper	2.3	0.021	0.0034	mg/Kg		^	1	6020
7439-89-6	Iron	3600	2.1	0.36	mg/Kg			1	6020
7439-96-5	Manganese	60	0.053	0.017	mg/Kg		^	1	6020
7440-02-0	Nickel	63	0.021	0.0039	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.053	0.00042	mg/Kg			1	6020
7440-22-4	Silver	ND	0.021	0.00043	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.042	0.0042	mg/Kg			1	6020
7440-62-2	Vanadium	3.8	0.021	0.0028	mg/Kg			1	6020
7440-66-6	Zinc	6.7	0.074	0.016	mg/Kg		^	1	6020
7429-90-5	Aluminum	1200	3.2	0.32	mg/Kg			1	6020
7439-95-4	Magnesium	5500	11	0.28	mg/Kg			1	6020
7440-09-7	Potassium	76	11	0.35	mg/Kg			1	6020
7440-23-5	Sodium	ND	11	4.1	mg/Kg			1	6020
7440-70-2	Calcium	210	11	0.93	mg/Kg			1	6020
7439-97-6	Mercury	180	11	3.3	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 08HMSS
Lab Sample ID: 580-19401-13
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 13:19
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 97.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.020	0.020	0.00039	mg/Kg		^	1	6020
7440-36-0	Antimony	ND	0.020	0.0064	mg/Kg		^	1	6020
7440-39-3	Barium	0.44	0.020	0.0015	mg/Kg		^	1	6020
7440-41-7	Beryllium	ND	0.020	0.00068	mg/Kg			1	6020
7440-43-9	Cadmium	ND	0.020	0.00046	mg/Kg			1	6020
7440-47-3	Chromium	38	0.020	0.0039	mg/Kg		^	1	6020
7439-92-1	Lead	0.24	0.020	0.0010	mg/Kg			1	6020
7440-48-4	Cobalt	9.9	0.020	0.00052	mg/Kg		^	1	6020
7440-50-8	Copper	0.84	0.020	0.0032	mg/Kg		^	1	6020
7439-89-6	Iron	4900	2.0	0.34	mg/Kg			1	6020
7439-96-5	Manganese	77	0.049	0.015	mg/Kg		^	1	6020
7440-02-0	Nickel	180	0.020	0.0036	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.049	0.00039	mg/Kg			1	6020
7440-22-4	Silver	ND	0.020	0.00040	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.039	0.0039	mg/Kg			1	6020
7440-62-2	Vanadium	0.77	0.020	0.0026	mg/Kg			1	6020
7440-66-6	Zinc	2.2	0.069	0.015	mg/Kg		^	1	6020
7429-90-5	Aluminum	72	2.9	0.29	mg/Kg			1	6020
7439-95-4	Magnesium	19000	9.8	0.26	mg/Kg			1	6020
7440-09-7	Potassium	ND	9.8	0.32	mg/Kg			1	6020
7440-23-5	Sodium	ND	9.8	3.8	mg/Kg			1	6020
7440-70-2	Calcium	14	9.8	0.87	mg/Kg			1	6020
7439-97-6	Mercury	0.51	0.15	0.049	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 10HMSS
Lab Sample ID: 580-19401-14
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 14:42
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.18	0.021	0.00041	mg/Kg		^	1	6020
7440-36-0	Antimony	0.043	0.021	0.0068	mg/Kg		^	1	6020
7440-39-3	Barium	9.2	0.021	0.0015	mg/Kg		^	1	6020
7440-41-7	Beryllium	0.033	0.021	0.00071	mg/Kg			1	6020
7440-43-9	Cadmium	0.022	0.021	0.00048	mg/Kg			1	6020
7440-47-3	Chromium	50	0.021	0.0041	mg/Kg		^	1	6020
7439-92-1	Lead	1.4	0.021	0.0011	mg/Kg			1	6020
7440-48-4	Cobalt	14	0.021	0.00055	mg/Kg		^	1	6020
7440-50-8	Copper	1.4	0.021	0.0033	mg/Kg		^	1	6020
7439-89-6	Iron	7100	2.1	0.36	mg/Kg			1	6020
7439-96-5	Manganese	110	0.052	0.016	mg/Kg		^	1	6020
7440-02-0	Nickel	240	0.021	0.0038	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.052	0.00041	mg/Kg			1	6020
7440-22-4	Silver	ND	0.021	0.00042	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.041	0.0041	mg/Kg			1	6020
7440-62-2	Vanadium	2.9	0.021	0.0028	mg/Kg			1	6020
7440-66-6	Zinc	4.4	0.072	0.015	mg/Kg		^	1	6020
7429-90-5	Aluminum	500	3.1	0.31	mg/Kg			1	6020
7439-95-4	Magnesium	4900	10	0.27	mg/Kg			1	6020
7440-09-7	Potassium	29	10	0.34	mg/Kg			1	6020
7440-23-5	Sodium	ND	10	4.0	mg/Kg			1	6020
7440-70-2	Calcium	73	10	0.91	mg/Kg			1	6020
7439-97-6	Mercury	32	8.0	2.5	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 11HMSS
Lab Sample ID: 580-19401-15
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 14:54
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 96.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.71	0.018	0.00036	mg/Kg		^	1	6020
7440-36-0	Antimony	0.046	0.018	0.0060	mg/Kg		^	1	6020
7440-39-3	Barium	17	0.018	0.0013	mg/Kg		^	1	6020
7440-41-7	Beryllium	0.030	0.018	0.00063	mg/Kg			1	6020
7440-43-9	Cadmium	ND	0.018	0.00043	mg/Kg			1	6020
7440-47-3	Chromium	27	0.018	0.0036	mg/Kg		^	1	6020
7439-92-1	Lead	1.2	0.018	0.00095	mg/Kg			1	6020
7440-48-4	Cobalt	3.4	0.018	0.00049	mg/Kg		^	1	6020
7440-50-8	Copper	3.8	0.018	0.0029	mg/Kg		^	1	6020
7439-89-6	Iron	3900	1.8	0.31	mg/Kg			1	6020
7439-96-5	Manganese	86	0.046	0.014	mg/Kg		^	1	6020
7440-02-0	Nickel	39	0.018	0.0033	mg/Kg		^	1	6020
7782-49-2	Selenium	ND	0.046	0.00036	mg/Kg			1	6020
7440-22-4	Silver	ND	0.018	0.00037	mg/Kg			1	6020
7440-28-0	Thallium	ND	0.036	0.0036	mg/Kg			1	6020
7440-62-2	Vanadium	4.6	0.018	0.0024	mg/Kg			1	6020
7440-66-6	Zinc	6.7	0.064	0.014	mg/Kg		^	1	6020
7429-90-5	Aluminum	1700	2.7	0.27	mg/Kg			1	6020
7439-95-4	Magnesium	3800	9.1	0.24	mg/Kg			1	6020
7440-09-7	Potassium	78	9.1	0.30	mg/Kg			1	6020
7440-23-5	Sodium	ND	9.1	3.6	mg/Kg			1	6020
7440-70-2	Calcium	300	9.1	0.81	mg/Kg			1	6020
7439-97-6	Mercury	6.4	0.29	0.091	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12HMSS
Lab Sample ID: 580-19401-16
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 15:05
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 84.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.3	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	1.3	0.23	0.076	mg/Kg		^	10	6020
7440-39-3	Barium	35	0.23	0.017	mg/Kg			10	6020
7440-41-7	Beryllium	0.26	0.23	0.0080	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0054	mg/Kg			10	6020
7440-47-3	Chromium	670	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	19	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	100	0.23	0.0062	mg/Kg		^	10	6020
7440-50-8	Copper	17	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	89000	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	660	0.58	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1800	0.23	0.043	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.58	0.0046	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0048	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.46	0.046	mg/Kg			10	6020
7440-62-2	Vanadium	23	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	40	0.81	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	2000	35	3.5	mg/Kg			10	6020
7439-95-4	Magnesium	22000	120	3.1	mg/Kg			10	6020
7440-09-7	Potassium	ND	120	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	45	mg/Kg			10	6020
7440-70-2	Calcium	360	120	10	mg/Kg			10	6020
7439-97-6	Mercury	12	0.42	0.13	mg/Kg			20	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 13HMSS
Lab Sample ID: 580-19401-17
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 15:25
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 78.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.0	0.25	0.0051	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.25	0.083	mg/Kg		^	10	6020
7440-39-3	Barium	73	0.25	0.019	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.25	0.0087	mg/Kg			10	6020
7440-43-9	Cadmium	0.78	0.25	0.0059	mg/Kg			10	6020
7440-47-3	Chromium	270	0.25	0.051	mg/Kg		^	10	6020
7439-92-1	Lead	19	0.25	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	75	0.25	0.0068	mg/Kg		^	10	6020
7440-50-8	Copper	11	0.25	0.041	mg/Kg		^	10	6020
7439-89-6	Iron	40000	25	4.4	mg/Kg			10	6020
7439-96-5	Manganese	470	0.63	0.20	mg/Kg		^	10	6020
7440-02-0	Nickel	1300	0.25	0.046	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.63	0.0051	mg/Kg			10	6020
7440-22-4	Silver	ND	0.25	0.0052	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.51	0.051	mg/Kg			10	6020
7440-62-2	Vanadium	18	0.25	0.034	mg/Kg			10	6020
7440-66-6	Zinc	67	0.88	0.19	mg/Kg		^	10	6020
7429-90-5	Aluminum	2000	38	3.8	mg/Kg			10	6020
7439-95-4	Magnesium	21000	130	3.3	mg/Kg			10	6020
7440-09-7	Potassium	330	130	4.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	130	50	mg/Kg			10	6020
7440-70-2	Calcium	5000	130	11	mg/Kg			10	6020
7439-97-6	Mercury	32	11	3.5	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 14HMSS
Lab Sample ID: 580-19401-18
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 16:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 92.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	13	0.19	0.0038	mg/Kg		^	10	6020
7440-36-0	Antimony	1.0	0.19	0.062	mg/Kg		^	10	6020
7440-39-3	Barium	160	0.19	0.014	mg/Kg			10	6020
7440-41-7	Beryllium	0.50	0.19	0.0065	mg/Kg			10	6020
7440-43-9	Cadmium	0.24	0.19	0.0044	mg/Kg			10	6020
7440-47-3	Chromium	210	0.19	0.038	mg/Kg		^	10	6020
7439-92-1	Lead	16	0.19	0.0098	mg/Kg			10	6020
7440-48-4	Cobalt	32	0.19	0.0050	mg/Kg		^	10	6020
7440-50-8	Copper	52	0.19	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	49000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	850	0.47	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	350	0.19	0.035	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.47	0.0038	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0039	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.38	0.038	mg/Kg			10	6020
7440-62-2	Vanadium	59	0.19	0.025	mg/Kg			10	6020
7440-66-6	Zinc	80	0.66	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	21000	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	27000	94	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1100	94	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	94	37	mg/Kg			10	6020
7440-70-2	Calcium	4300	94	8.4	mg/Kg			10	6020
7439-97-6	Mercury	18	8.6	2.7	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 15HMSS
Lab Sample ID: 580-19401-19
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 16:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 85.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.1	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.23	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	89	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.36	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	0.22	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	650	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	28	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	140	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	13	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	71000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	2500	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	30	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	43	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	2900	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	25000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	140	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	550	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	16	1.0	0.32	mg/Kg			50	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16HMSS
Lab Sample ID: 580-19401-20
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:07
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 71.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.8	0.25	0.0049	mg/Kg		^	10	6020
7440-36-0	Antimony	0.41	0.25	0.081	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.25	0.018	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.25	0.0085	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.25	0.0057	mg/Kg			10	6020
7440-47-3	Chromium	250	0.25	0.049	mg/Kg		^	10	6020
7439-92-1	Lead	9.8	0.25	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	23	0.25	0.0066	mg/Kg		^	10	6020
7440-50-8	Copper	26	0.25	0.040	mg/Kg		^	10	6020
7439-89-6	Iron	43000	25	4.2	mg/Kg			10	6020
7439-96-5	Manganese	920	0.61	0.19	mg/Kg		^	10	6020
7440-02-0	Nickel	290	0.25	0.045	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.61	0.0049	mg/Kg			10	6020
7440-22-4	Silver	ND	0.25	0.0050	mg/Kg			10	6020
7440-28-0	Thallium	11	0.49	0.049	mg/Kg			10	6020
7440-62-2	Vanadium	47	0.25	0.033	mg/Kg			10	6020
7440-66-6	Zinc	48	0.86	0.18	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	37	3.7	mg/Kg			10	6020
7439-95-4	Magnesium	23000	120	3.2	mg/Kg			10	6020
7440-09-7	Potassium	800	120	4.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	48	mg/Kg			10	6020
7440-70-2	Calcium	4900	120	11	mg/Kg			10	6020
7439-97-6	Mercury	60	13	4.2	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 17HMSS
Lab Sample ID: 580-19401-21
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:20
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 82.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.3	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.40	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.38	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	0.24	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	310	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	17	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	51	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	27	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	49000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	660	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	600	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	1.6	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	53	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	180	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	17000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	43000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	740	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	4900	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	45	7.5	2.4	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 18HMSS
Lab Sample ID: 580-19401-22
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 87.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.7	0.22	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.72	0.22	0.071	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.22	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	0.25	0.22	0.0075	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	290	0.22	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	19	0.22	0.0058	mg/Kg		^	10	6020
7440-50-8	Copper	37	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	70000	22	3.7	mg/Kg			10	6020
7439-96-5	Manganese	500	0.54	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	330	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.54	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	0.83	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	76	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	62	0.76	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	18000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	31000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	880	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	4000	110	9.6	mg/Kg			10	6020
7439-97-6	Mercury	5.7	0.16	0.049	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 19HMSS
Lab Sample ID: 580-19401-23
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:40
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 83.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.23	0.075	mg/Kg		^	10	6020
7440-39-3	Barium	3.2	0.23	0.017	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.23	0.0079	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0054	mg/Kg			10	6020
7440-47-3	Chromium	74	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	0.31	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	0.53	0.23	0.0061	mg/Kg		^	10	6020
7440-50-8	Copper	1.0	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	3200	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	4.9	0.57	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	6.5	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.57	0.0046	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0047	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.46	0.046	mg/Kg			10	6020
7440-62-2	Vanadium	3.9	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	2.7	0.80	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	380	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	350	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	ND	110	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	45	mg/Kg			10	6020
7440-70-2	Calcium	ND	110	10	mg/Kg			10	6020
7439-97-6	Mercury	140	10	3.2	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 20HMSS
Lab Sample ID: 580-19401-24
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 80.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.74	0.22	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.22	0.071	mg/Kg		^	10	6020
7440-39-3	Barium	23	0.22	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.22	0.0075	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	130	0.22	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	3.1	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	4.6	0.22	0.0058	mg/Kg		^	10	6020
7440-50-8	Copper	5.0	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	17000	22	3.7	mg/Kg			10	6020
7439-96-5	Manganese	16	0.54	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	62	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.54	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	0.89	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	6.6	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	7.0	0.76	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1700	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	2300	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	ND	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	ND	110	9.6	mg/Kg			10	6020
7439-97-6	Mercury	220	9.2	2.9	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 13CMSS
Lab Sample ID: 580-19401-25
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:05
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 76.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.5	0.23	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	0.26	0.23	0.074	mg/Kg		^	10	6020
7440-39-3	Barium	120	0.23	0.017	mg/Kg			10	6020
7440-41-7	Beryllium	0.32	0.23	0.0078	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0053	mg/Kg			10	6020
7440-47-3	Chromium	570	0.23	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	15	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	73	0.23	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	20	0.23	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	46000	23	3.9	mg/Kg			10	6020
7439-96-5	Manganese	770	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1200	0.23	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	33	0.23	0.030	mg/Kg			10	6020
7440-66-6	Zinc	66	0.79	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	7600	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	63000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	1000	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	44	mg/Kg			10	6020
7440-70-2	Calcium	2000	110	10	mg/Kg			10	6020
7439-97-6	Mercury	120	7.4	2.3	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 14CMSS
Lab Sample ID: 580-19401-26
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 77.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.4	0.22	0.0044	mg/Kg		^	10	6020
7440-36-0	Antimony	2.0	0.22	0.072	mg/Kg		^	10	6020
7440-39-3	Barium	160	0.22	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	0.49	0.22	0.0076	mg/Kg			10	6020
7440-43-9	Cadmium	0.77	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	430	0.22	0.044	mg/Kg		^	10	6020
7439-92-1	Lead	48	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	41	0.22	0.0059	mg/Kg		^	10	6020
7440-50-8	Copper	37	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	42000	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	670	0.55	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	550	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.55	0.0044	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0045	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.44	0.044	mg/Kg			10	6020
7440-62-2	Vanadium	58	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	480	0.77	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	51000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	1000	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	5400	110	9.7	mg/Kg			10	6020
7439-97-6	Mercury	34	12	3.7	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 15CMSS
Lab Sample ID: 580-19401-27
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:20
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.3	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.27	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	110	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.39	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	490	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	7.3	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	54	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	35	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	45000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	700	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	870	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	55	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	60	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	98000	100	2.8	mg/Kg			10	6020
7440-09-7	Potassium	780	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	13000	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	3.3	0.13	0.040	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 18CMSS
Lab Sample ID: 580-19401-28
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 86.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.57	0.21	0.069	mg/Kg		^	10	6020
7440-39-3	Barium	150	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.62	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	200	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	13	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	46	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	42000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	660	0.52	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	270	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	59	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	87	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	23000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	31000	100	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1400	100	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	5000	100	9.3	mg/Kg			10	6020
7439-97-6	Mercury	0.11	0.021	0.0066	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 17CMSS
Lab Sample ID: 580-19401-29
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:38
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 74.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.0	0.26	0.0053	mg/Kg		^	10	6020
7440-36-0	Antimony	0.35	0.26	0.086	mg/Kg		^	10	6020
7440-39-3	Barium	180	0.26	0.019	mg/Kg			10	6020
7440-41-7	Beryllium	0.48	0.26	0.0091	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.26	0.0061	mg/Kg			10	6020
7440-47-3	Chromium	400	0.26	0.053	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.26	0.014	mg/Kg			10	6020
7440-48-4	Cobalt	45	0.26	0.0070	mg/Kg		^	10	6020
7440-50-8	Copper	36	0.26	0.042	mg/Kg		^	10	6020
7439-89-6	Iron	42000	26	4.5	mg/Kg			10	6020
7439-96-5	Manganese	760	0.66	0.21	mg/Kg		^	10	6020
7440-02-0	Nickel	660	0.26	0.048	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.66	0.0053	mg/Kg			10	6020
7440-22-4	Silver	ND	0.26	0.0054	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.53	0.053	mg/Kg			10	6020
7440-62-2	Vanadium	58	0.26	0.035	mg/Kg			10	6020
7440-66-6	Zinc	70	0.92	0.20	mg/Kg		^	10	6020
7429-90-5	Aluminum	21000	39	3.9	mg/Kg			10	6020
7439-95-4	Magnesium	73000	130	3.5	mg/Kg			10	6020
7440-09-7	Potassium	1200	130	4.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	130	51	mg/Kg			10	6020
7440-70-2	Calcium	6100	130	12	mg/Kg			10	6020
7439-97-6	Mercury	2.2	0.20	0.062	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16CMSS
Lab Sample ID: 580-19401-30
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 17:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 88.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.6	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	0.27	0.20	0.065	mg/Kg		^	10	6020
7440-39-3	Barium	120	0.20	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.66	0.20	0.0068	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0046	mg/Kg			10	6020
7440-47-3	Chromium	310	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	45	0.20	0.0053	mg/Kg		^	10	6020
7440-50-8	Copper	31	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	44000	20	3.4	mg/Kg			10	6020
7439-96-5	Manganese	780	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	670	0.20	0.036	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	57	0.20	0.026	mg/Kg			10	6020
7440-66-6	Zinc	69	0.69	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	24000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	58000	99	2.6	mg/Kg			10	6020
7440-09-7	Potassium	810	99	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	99	39	mg/Kg			10	6020
7440-70-2	Calcium	5000	99	8.8	mg/Kg			10	6020
7439-97-6	Mercury	5.1	0.14	0.045	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMSS
Lab Sample ID: 580-19401-31
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 11:20
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.6	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	86	0.20	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.26	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	690	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	4.8	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	150	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	20	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	73000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	1200	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	2200	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	33	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	59	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	7700	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	120000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	450	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	1200	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	110	7.6	2.4	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03HMSS
Lab Sample ID: 580-19401-32
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 11:43
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 95.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.9	0.18	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	0.20	0.18	0.061	mg/Kg		^	10	6020
7440-39-3	Barium	68	0.18	0.014	mg/Kg			10	6020
7440-41-7	Beryllium	0.23	0.18	0.0064	mg/Kg			10	6020
7440-43-9	Cadmium	0.18	0.18	0.0043	mg/Kg			10	6020
7440-47-3	Chromium	610	0.18	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	3.9	0.18	0.0096	mg/Kg			10	6020
7440-48-4	Cobalt	120	0.18	0.0049	mg/Kg		^	10	6020
7440-50-8	Copper	22	0.18	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	74000	18	3.2	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.46	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	2100	0.18	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.46	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0038	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	31	0.18	0.025	mg/Kg			10	6020
7440-66-6	Zinc	71	0.65	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	6600	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	130000	92	2.4	mg/Kg			10	6020
7440-09-7	Potassium	440	92	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	92	36	mg/Kg			10	6020
7440-70-2	Calcium	2400	92	8.2	mg/Kg			10	6020
7439-97-6	Mercury	81	9.5	3.0	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02HMSS
Lab Sample ID: 580-19401-33
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 11:36
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 95.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.22	0.21	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	1.7	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	630	0.21	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	1.4	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	86	0.21	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	3.2	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	49000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	710	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1800	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	10	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	18	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1100	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	200000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	ND	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	3600	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	0.38	0.13	0.041	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05HMSS
Lab Sample ID: 580-19401-34
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 12:41
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 95.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.60	0.21	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	5.6	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.21	0.0071	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	830	0.21	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	7.9	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	110	0.21	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	8.3	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	57000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	940	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	2000	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	18	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	28	0.72	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1500	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	190000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	ND	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	940	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	3.1	0.19	0.059	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06HMSS
Lab Sample ID: 580-19401-35
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 12:47
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 92.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.25	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.21	0.069	mg/Kg		^	10	6020
7440-39-3	Barium	3.7	0.21	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	910	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	96	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	8.5	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	54000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	810	0.52	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1900	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	20	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	38	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1700	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	190000	100	2.8	mg/Kg			10	6020
7440-09-7	Potassium	ND	100	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	3100	100	9.3	mg/Kg			10	6020
7439-97-6	Mercury	3.8	0.21	0.066	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07HMSS
Lab Sample ID: 580-19401-36
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 13:08
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 96.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.2	0.19	0.0039	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.19	0.064	mg/Kg		^	10	6020
7440-39-3	Barium	32	0.19	0.014	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.19	0.0067	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0045	mg/Kg			10	6020
7440-47-3	Chromium	610	0.19	0.039	mg/Kg		^	10	6020
7439-92-1	Lead	3.5	0.19	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	110	0.19	0.0052	mg/Kg		^	10	6020
7440-50-8	Copper	13	0.19	0.031	mg/Kg		^	10	6020
7439-89-6	Iron	56000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	880	0.48	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	2100	0.19	0.036	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.48	0.0039	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0040	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.39	0.039	mg/Kg			10	6020
7440-62-2	Vanadium	25	0.19	0.026	mg/Kg			10	6020
7440-66-6	Zinc	42	0.68	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	3900	29	2.9	mg/Kg			10	6020
7439-95-4	Magnesium	180000	97	2.6	mg/Kg			10	6020
7440-09-7	Potassium	120	97	3.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	97	38	mg/Kg			10	6020
7440-70-2	Calcium	2200	97	8.6	mg/Kg			10	6020
7439-97-6	Mercury	210	7.9	2.5	mg/Kg			500	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64718/7 05/27/2010 14:16				CCV 580-64718/149 05/28/2010 07:14				CCV 580-64718/161 05/28/2010 08:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.398		0.400	99	0.488		0.500	98	0.505		0.500	101
Antimony	0.0398		0.0400	99	0.0520		0.0500	104	0.0515		0.0500	103
Arsenic	0.0393		0.0400	98	0.0514		0.0500	103	0.0517		0.0500	103
Barium	0.0390		0.0400	98	0.0529		0.0500	106	0.0525		0.0500	105
Beryllium	0.0402		0.0400	101	0.0517		0.0500	103	0.0519		0.0500	104
Cadmium	0.0402		0.0400	100	0.0518		0.0500	104	0.0511		0.0500	102
Calcium	ND		4.00	101	ND		5.00	101	ND		5.00	104
Chromium	0.0402		0.0400	100	0.0529		0.0500	106	0.0541		0.0500	108
Cobalt	0.0404		0.0400	101	0.0539		0.0500	108	0.0548		0.0500	110
Copper	0.0405		0.0400	101	0.0544		0.0500	109	0.0561		0.0500	112
Iron	4.05		4.00	101	5.13		5.00	103	5.23		5.00	105
Lead	0.0410		0.0400	103	0.0532		0.0500	106	0.0533		0.0500	107
Magnesium	4.10		4.00	102	5.05		5.00	101	5.16		5.00	103
Manganese	0.0402		0.0400	100	0.0535		0.0500	107	0.0540		0.0500	108
Nickel	0.0410		0.0400	103	0.0540		0.0500	108	0.0554		0.0500	111
Potassium	ND		4.00	102	ND		5.00	102	ND		5.00	104
Selenium	0.0399		0.0400	100	0.0520		0.0500	104	0.0518		0.0500	104
Silver	0.0399		0.0400	100	0.0516		0.0500	103	0.0517		0.0500	103
Sodium	ND		4.00	101	ND		5.00	99	ND		5.00	100
Thallium	0.0405		0.0400	101	0.0534		0.0500	107	0.0524		0.0500	105
Vanadium	0.0395		0.0400	99	0.0529		0.0500	106	0.0534		0.0500	107
Zinc	0.0406		0.0400	101	0.0550		0.0500	110	0.0548		0.0500	110

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/169 05/28/2010 09:36											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.494		0.500	99								
Antimony	0.0524		0.0500	105								
Arsenic	0.0515		0.0500	103								
Barium	0.0540		0.0500	108								
Beryllium	0.0508		0.0500	102								
Cadmium	0.0520		0.0500	104								
Calcium	ND		5.00	103								
Chromium	0.0531		0.0500	106								
Cobalt	0.0545		0.0500	109								
Copper	0.0558		0.0500	112								
Iron	5.18		5.00	104								
Lead	0.0530		0.0500	106								
Magnesium	4.98		5.00	100								
Manganese	0.0537		0.0500	107								
Nickel	0.0559		0.0500	112								
Potassium	ND		5.00	103								
Selenium	0.0493		0.0500	99								
Silver	0.0520		0.0500	104								
Sodium	ND		5.00	100								
Thallium	0.0518		0.0500	104								
Vanadium	0.0527		0.0500	105								
Zinc	0.0562		0.0500	112								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64756/7 05/28/2010 11:58				CCV 580-64756/137 05/29/2010 01:37				CCV 580-64756/149 05/29/2010 02:51			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0395		0.0400	99	0.0470		0.0500	94	0.0473		0.0500	95
Copper	0.0407		0.0400	102	0.0527		0.0500	105	0.0521		0.0500	104
Nickel	0.0403		0.0400	101	0.0537		0.0500	107	0.0508		0.0500	102
Selenium	0.0400		0.0400	100	0.0487		0.0500	97	0.0465		0.0500	93
Zinc	0.0401		0.0400	100	0.0518		0.0500	104	0.0515		0.0500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/161 05/29/2010 04:04				CCV 580-64756/169 05/29/2010 04:53							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0473		0.0500	95	0.0467		0.0500	93				
Copper	0.0513		0.0500	103	0.0513		0.0500	103				
Nickel	0.0514		0.0500	103	0.0517		0.0500	103				
Selenium	0.0473		0.0500	95	0.0439		0.0500	88				
Zinc	0.0502		0.0500	100	0.0515		0.0500	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64859/7 06/02/2010 12:36				CCV 580-64859/12 06/02/2010 13:40				CCV 580-64859/24 06/02/2010 15:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.401		0.400	100	0.493		0.500	99	0.499		0.500	100
Antimony	0.0419		0.0400	105	0.0500		0.0500	100	0.0505		0.0500	101
Arsenic	0.0398		0.0400	100	0.0501		0.0500	100	0.0502		0.0500	100
Barium	0.0417		0.0400	104	0.0497		0.0500	99	0.0505		0.0500	101
Beryllium	0.0412		0.0400	103	0.0508		0.0500	102	0.0492		0.0500	98
Cadmium	0.0424		0.0400	106	0.0501		0.0500	100	0.0509		0.0500	102
Calcium	ND		4.00	102	ND		5.00	104	ND		5.00	103
Chromium	0.0404		0.0400	101	0.0501		0.0500	100	0.0504		0.0500	101
Cobalt	0.0407		0.0400	102	0.0506		0.0500	101	0.0505		0.0500	101
Copper	0.0405		0.0400	101	0.0501		0.0500	100	0.0510		0.0500	102
Iron	4.20		4.00	105	5.19		5.00	104	5.19		5.00	104
Lead	0.0420		0.0400	105	0.0500		0.0500	100	0.0506		0.0500	101
Magnesium	4.09		4.00	102	4.98		5.00	100	4.99		5.00	100
Manganese	0.0405		0.0400	101	0.0504		0.0500	101	0.0503		0.0500	101
Nickel	0.0404		0.0400	101	0.0503		0.0500	101	0.0505		0.0500	101
Potassium	ND		4.00	103	ND		5.00	102	ND		5.00	101
Selenium	0.0391		0.0400	98	0.0486		0.0500	97	0.0494		0.0500	99
Silver	0.0414		0.0400	104	0.0501		0.0500	100	0.0512		0.0500	102
Sodium	ND		4.00	102	ND		5.00	100	ND		5.00	100
Thallium	0.0421		0.0400	105	0.0500		0.0500	100	0.0509		0.0500	102
Vanadium	0.0394		0.0400	99	0.0492		0.0500	98	0.0493		0.0500	99
Zinc	0.0407		0.0400	102	0.0505		0.0500	101	0.0501		0.0500	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64859/35 06/02/2010 16:32				CCV 580-64859/44 06/02/2010 17:43				CCV 580-64859/56 06/02/2010 19:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.487		0.500	97	0.482		0.500	96	0.473		0.500	95
Antimony	0.0495		0.0500	99	0.0488		0.0500	98	0.0492		0.0500	98
Arsenic	0.0500		0.0500	100	0.0511		0.0500	102	0.0499		0.0500	100
Barium	0.0500		0.0500	100	0.0488		0.0500	98	0.0497		0.0500	99
Beryllium	0.0484		0.0500	97	0.0496		0.0500	99	0.0484		0.0500	97
Cadmium	0.0505		0.0500	101	0.0491		0.0500	98	0.0502		0.0500	100
Calcium	ND		5.00	103	ND		5.00	98	ND		5.00	98
Chromium	0.0500		0.0500	100	0.0512		0.0500	102	0.0506		0.0500	101
Cobalt	0.0502		0.0500	100	0.0520		0.0500	104	0.0518		0.0500	104
Copper	0.0503		0.0500	101	0.0518		0.0500	104	0.0514		0.0500	103
Iron	5.16		5.00	103	5.16		5.00	103	5.17		5.00	103
Lead	0.0499		0.0500	100	0.0505		0.0500	101	0.0502		0.0500	100
Magnesium	4.94		5.00	99	4.96		5.00	99	4.83		5.00	97
Manganese	0.0499		0.0500	100	0.0506		0.0500	101	0.0503		0.0500	101
Nickel	0.0508		0.0500	102	0.0523		0.0500	105	0.0516		0.0500	103
Potassium	ND		5.00	98	ND		5.00	100	ND		5.00	97
Selenium	0.0492		0.0500	98	0.0502		0.0500	100	0.0505		0.0500	101
Silver	0.0504		0.0500	101	0.0497		0.0500	99	0.0502		0.0500	100
Sodium	ND		5.00	99	ND		5.00	97	ND		5.00	95
Thallium	0.0498		0.0500	100	0.0503		0.0500	101	0.0503		0.0500	101
Vanadium	0.0495		0.0500	99	0.0501		0.0500	100	0.0494		0.0500	99
Zinc	0.0504		0.0500	101	0.0511		0.0500	102	0.0505		0.0500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64859/67 06/02/2010 20:34											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.464		0.500	93								
Antimony	0.0490		0.0500	98								
Arsenic	0.0496		0.0500	99								
Barium	0.0496		0.0500	99								
Beryllium	0.0488		0.0500	98								
Cadmium	0.0492		0.0500	98								
Calcium	ND		5.00	96								
Chromium	0.0510		0.0500	102								
Cobalt	0.0512		0.0500	102								
Copper	0.0519		0.0500	104								
Iron	5.16		5.00	103								
Lead	0.0506		0.0500	101								
Magnesium	4.78		5.00	96								
Manganese	0.0502		0.0500	100								
Nickel	0.0509		0.0500	102								
Potassium	ND		5.00	97								
Selenium	0.0509		0.0500	102								
Silver	0.0495		0.0500	99								
Sodium	ND		5.00	94								
Thallium	0.0501		0.0500	100								
Vanadium	0.0496		0.0500	99								
Zinc	0.0504		0.0500	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64691/19 05/28/2010 07:56				CCV 580-64691/21 05/28/2010 10:34				CCV 580-64691/33 05/28/2010 11:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00424		0.00400	106	0.00512		0.00500	102	0.00515		0.00500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64691/45 05/28/2010 12:22				CCV 580-64691/52 05/28/2010 12:53				CCV 580-64691/58 05/28/2010 13:20			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00513		0.00500	103	0.00516		0.00500	103	0.00510		0.00500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64691/70 05/28/2010 14:14				CCV 580-64691/80 05/28/2010 15:03				CCV 580-64691/111 05/28/2010 18:02			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00515		0.00500	103	0.00513		0.00500	103	0.00511		0.00500	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64760/19 06/01/2010 11:15				CCV 580-64760/21 06/01/2010 14:39				CCV 580-64760/29 06/01/2010 15:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00411		0.00400	103	0.00475		0.00500	95	0.00491		0.00500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64760/40 06/01/2010 16:07											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00476		0.00500	95								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64718/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00193		96	50-150
Antimony	0.00200	0.00194		97	50-150
Barium	0.00200	0.00185		92	50-150
Beryllium	0.00200	0.00196		98	50-150
Cadmium	0.00200	0.00204		102	50-150
Chromium	0.00200	0.00202		101	50-150
Lead	0.00200	0.00204		102	50-150
Cobalt	0.00200	0.00209		104	50-150
Copper	0.00200	0.00211		106	50-150
Iron	0.200	0.202		101	50-150
Manganese	0.00200	0.00204		102	50-150
Nickel	0.00200	0.00226		113	50-150
Selenium	0.00200	0.00201		101	50-150
Silver	0.00200	0.00206		103	50-150
Thallium	0.00200	0.00209		104	50-150
Vanadium	0.00200	0.00191		96	50-150
Zinc	0.00200	0.00204		102	50-150
Aluminum	0.0200	ND		106	50-150
Magnesium	0.200	ND		106	50-150
Potassium	0.200	ND		110	50-150
Sodium	0.200	ND		108	50-150
Calcium	0.200	ND		99	50-150

Lab Sample ID: CRI 580-64756/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Beryllium	0.00200	0.00200		100	50-150
Copper	0.00200	0.00216		108	50-150
Nickel	0.00200	0.00202		101	50-150
Selenium	0.00200	0.00190		95	50-150
Zinc	0.00200	0.00213		107	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64859/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00199		100	50-150
Antimony	0.00200	0.00199		99	50-150
Barium	0.00200	0.00194		97	50-150
Beryllium	0.00200	0.00202		101	50-150
Cadmium	0.00200	0.00198		99	50-150
Chromium	0.00200	0.00206		103	50-150
Lead	0.00200	0.00203		102	50-150
Cobalt	0.00200	0.00207		104	50-150
Copper	0.00200	0.00207		104	50-150
Iron	0.200	0.214		107	50-150
Manganese	0.00200	0.00206		103	50-150
Nickel	0.00200	0.00207		103	50-150
Selenium	0.00200	0.00184		92	50-150
Silver	0.00200	0.00201		100	50-150
Thallium	0.00200	0.00202		101	50-150
Vanadium	0.00200	0.00196		98	50-150
Zinc	0.00200	0.00195		97	50-150
Aluminum	0.0200	ND		96	50-150
Magnesium	0.200	ND		106	50-150
Potassium	0.200	ND		99	50-150
Sodium	0.200	ND		104	50-150
Calcium	0.200	ND		110	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64718/8 05/27/2010 14:22		CCB 580-64718/138 05/28/2010 05:55		CCB 580-64718/150 05/28/2010 07:21		CCB 580-64718/162 05/28/2010 08:46	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND		ND	
Antimony	0.00040	ND		ND		ND		ND	
Arsenic	0.00040	ND		ND		ND		ND	
Barium	0.00040	ND		ND		ND		ND	
Beryllium	0.00040	ND		ND		ND		ND	
Cadmium	0.00040	ND		ND		ND		ND	
Calcium	10	ND		ND		ND		ND	
Chromium	0.00040	ND		ND		ND		ND	
Cobalt	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Iron	0.010	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	
Magnesium	0.80	ND		ND		ND		ND	
Manganese	0.00040	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		0.000700		ND	
Vanadium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64718/170 05/28/2010 09:43							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND							
Antimony	0.00040	ND							
Arsenic	0.00040	ND							
Barium	0.00040	ND							
Beryllium	0.00040	ND							
Cadmium	0.00040	ND							
Calcium	10	ND							
Chromium	0.00040	ND							
Cobalt	0.00040	ND							
Copper	0.0010	ND							
Iron	0.010	ND							
Lead	0.00040	ND							
Magnesium	0.80	ND							
Manganese	0.00040	ND							
Nickel	0.00040	ND							
Potassium	10	ND							
Selenium	0.00040	ND							
Silver	0.00040	ND							
Sodium	10	ND							
Thallium	0.00040	ND							
Vanadium	0.00040	ND							
Zinc	0.0010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64756/8 05/28/2010 12:04		CCB 580-64756/138 05/29/2010 01:43		CCB 580-64756/150 05/29/2010 02:57		CCB 580-64756/162 05/29/2010 04:10	
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64756/170 05/29/2010 04:59							
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND							
Copper	0.0010	ND							
Nickel	0.00040	0.000478							
Selenium	0.00040	ND							
Zinc	0.0010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64859/8 06/02/2010 12:43		CCB 580-64859/13 06/02/2010 13:47		CCB 580-64859/25 06/02/2010 15:13		CCB 580-64859/36 06/02/2010 16:39	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND		ND	
Antimony	0.00040	ND		ND		ND		ND	
Arsenic	0.00040	ND		ND		ND		ND	
Barium	0.00040	ND		ND		ND		ND	
Beryllium	0.00040	ND		ND		ND		ND	
Cadmium	0.00040	ND		ND		ND		ND	
Calcium	10	ND		ND		ND		ND	
Chromium	0.00040	ND		ND		ND		ND	
Cobalt	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Iron	0.010	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	
Magnesium	0.80	ND		ND		ND		ND	
Manganese	0.00040	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		ND		ND	
Vanadium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64859/45 06/02/2010 17:50		CCB 580-64859/57 06/02/2010 19:16		CCB 580-64859/68 06/02/2010 20:41			
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND			
Antimony	0.00040	ND		ND		ND			
Arsenic	0.00040	ND		ND		ND			
Barium	0.00040	ND		ND		ND			
Beryllium	0.00040	ND		ND		ND			
Cadmium	0.00040	ND		ND		ND			
Calcium	10	ND		ND		ND			
Chromium	0.00040	ND		ND		ND			
Cobalt	0.00040	ND		ND		ND			
Copper	0.0010	ND		ND		ND			
Iron	0.010	ND		ND		ND			
Lead	0.00040	ND		ND		ND			
Magnesium	0.80	ND		ND		ND			
Manganese	0.00040	ND		ND		ND			
Nickel	0.00040	ND		ND		ND			
Potassium	10	ND		ND		ND			
Selenium	0.00040	ND		ND		ND			
Silver	0.00040	ND		ND		ND			
Sodium	10	ND		ND		ND			
Thallium	0.00040	ND		ND		ND			
Vanadium	0.00040	ND		ND		ND			
Zinc	0.0010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64691/20 05/28/2010 08:01		CCB 580-64691/22 05/28/2010 10:38		CCB 580-64691/34 05/28/2010 11:32		CCB 580-64691/46 05/28/2010 12:26	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64691/53 05/28/2010 12:58		CCB 580-64691/59 05/28/2010 13:25		CCB 580-64691/71 05/28/2010 14:18		CCB 580-64691/81 05/28/2010 15:08	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64691/109 05/28/2010 17:13		CCB 580-64691/112 05/28/2010 18:07					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64760/20 06/01/2010 11:20		CCB 580-64760/22 06/01/2010 14:43		CCB 580-64760/30 06/01/2010 15:21		CCB 580-64760/41 06/01/2010 16:11	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64541/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-41-7	Beryllium	ND			6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	ND		^	6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64541/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64602/21-A

Instrument Code: SEA044 Batch No.: 64859

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND			6020
7440-41-7	Beryllium	ND			6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	ND		^	6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64624/21-A

Instrument Code: SEA044 Batch No.: 64859

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND			6020
7440-41-7	Beryllium	ND			6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	ND		^	6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64538/22-A

Instrument Code: SEA029 Batch No.: 64691

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64544/20-A

Instrument Code: SEA029 Batch No.: 64691

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64650/12-A

Instrument Code: SEA029 Batch No.: 64760

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSA 580-64718/10 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**92.6**	**93**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium		**0.0002**	
Calcium	**300**	**282**	**94**
Chromium		**0.0011**	
Cobalt		**0.0036**	
Copper		**0.0035**	
Iron	**250**	**229**	**92**
Lead		**0.0003**	
Magnesium	**100**	**96.1**	**96**
Manganese		**0.0051**	
Nickel		**0.0025**	
Potassium	**100**	**96.1**	**96**
Selenium		**0.0004**	
Silver		**0.0002**	
Sodium	**250**	**245**	**98**
Thallium		**0.0001**	
Vanadium		**0.0000**	
Zinc		**0.0033**	
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.09*	*104*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0175*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Copper	**0.200**	**0.191**	**95**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Nickel	**0.200**	**0.196**	**98**
Potassium	**100**	**97.5**	**98**
Selenium	**0.100**	**0.102**	**102**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Zinc	**0.100**	**0.0994**	**99**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Phosphorus	*100*	*103*	*103*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Copper	**0.200**	**0.191**	**95**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Nickel	**0.200**	**0.196**	**98**
Potassium	**100**	**97.5**	**98**
Selenium	**0.100**	**0.102**	**102**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Zinc	**0.100**	**0.0994**	**99**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Phosphorus	*100*	*103*	*103*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSA 580-64718/171 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**89.8**	**90**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium		**0.0002**	
Calcium	**300**	**293**	**98**
Chromium		**0.0012**	
Cobalt		**0.0039**	
Copper		**0.0039**	
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**93.4**	**93**
Manganese		**0.0057**	
Nickel		**0.0029**	
Potassium	**100**	**99.4**	**99**
Selenium		**-0.0003**	
Silver		**0.0002**	
Sodium	**250**	**238**	**95**
Thallium		**0.0002**	
Vanadium		**-0.0001**	
Zinc		**0.0036**	
Mercury		*0.0039*	
Molybdenum	*2.00*	*2.18*	*109*
Phosphorus	*100*	*98.6*	*99*
Strontium		*0.0184*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Copper	**0.200**	**0.206**	**103**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Nickel	**0.200**	**0.210**	**105**
Potassium	**100**	**101**	**101**
Selenium	**0.100**	**0.111**	**111**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Zinc	**0.100**	**0.105**	**105**
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Copper	**0.200**	**0.206**	**103**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Nickel	**0.200**	**0.210**	**105**
Potassium	**100**	**101**	**101**
Selenium	**0.100**	**0.111**	**111**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Zinc	**0.100**	**0.105**	**105**
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/11 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.190**	**95**
Nickel	**0.200**	**0.194**	**97**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0953**	**95**

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/172 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.195**	**97**
Nickel	**0.200**	**0.196**	**98**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0991**	**99**

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSA 580-64859/10 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0006**	
Arsenic		**0.0004**	
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium		**0.0002**	
Calcium	**300**	**300**	**100**
Chromium		**0.0010**	
Cobalt		**0.0035**	
Copper		**0.0036**	
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**94.6**	**95**
Manganese		**0.0055**	
Nickel		**0.0026**	
Potassium	**100**	**94.4**	**94**
Selenium		**0.0001**	
Silver		**0.0002**	
Sodium	**250**	**241**	**96**
Thallium		**0.0001**	
Vanadium		**0.0001**	
Zinc		**0.0031**	
Mercury		*0.0000*	
Molybdenum	*2.00*	*1.96*	*98*
Phosphorus	*100*	*99.6*	*100*
Strontium		*0.0164*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64859/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.1**	**94**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.106**	**106**
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**302**	**101**
Chromium	**0.200**	**0.198**	**99**
Cobalt	**0.200**	**0.198**	**99**
Copper	**0.200**	**0.187**	**94**
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**96.9**	**97**
Manganese	**0.200**	**0.197**	**98**
Nickel	**0.200**	**0.194**	**97**
Potassium	**100**	**96.4**	**96**
Selenium	**0.100**	**0.101**	**101**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**250**	**100**
Thallium		**0.0000**	
Vanadium	**0.200**	**0.202**	**101**
Zinc	**0.100**	**0.0953**	**95**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.02*	*101*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0169*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Lab Sample ID: ICSAB 580-64859/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.1**	**94**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.106**	**106**
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**302**	**101**
Chromium	**0.200**	**0.198**	**99**
Cobalt	**0.200**	**0.198**	**99**
Copper	**0.200**	**0.187**	**94**
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**96.9**	**97**
Manganese	**0.200**	**0.197**	**98**
Nickel	**0.200**	**0.194**	**97**
Potassium	**100**	**96.4**	**96**
Selenium	**0.100**	**0.101**	**101**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**250**	**100**
Thallium		**0.0000**	
Vanadium	**0.200**	**0.202**	**101**
Zinc	**0.100**	**0.0953**	**95**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.02*	*101*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0169*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 01CMSS MS

Lab ID: 580-19401-1 MS

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 86.8

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	7.06		6.3		0.155	506	75-125	4	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 12HMSS MS
Lab ID: 580-19401-16 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 84.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	232		1.3		223	103	75-125	^	6020
Antimony	169		1.3		168	100	75-125	^	6020
Barium	266		35		223	103	75-125		6020
Beryllium	6.20		0.26		5.58	106	75-125		6020
Cadmium	6.08		ND		5.58	106	75-125		6020
Chromium	693		670		22.3	107	75-125	^ 4	6020
Lead	76.1		19		55.8	102	75-125		6020
Cobalt	162		100		55.8	103	75-125	^	6020
Copper	47.4		17		27.9	109	75-125	^	6020
Iron	82400		89000		1230	-536	75-125	4	6020
Manganese	709		660		55.8	80	75-125	^ 4	6020
Nickel	1840		1800		55.8	105	75-125	^ 4	6020
Selenium	240		ND		223	107	75-125		6020
Silver	35.7		ND		33.5	107	75-125		6020
Thallium	238		ND		223	106	75-125		6020
Vanadium	80.1		23		55.8	103	75-125		6020
Zinc	104		40		55.8	115	75-125	^	6020
Aluminum	2180		2000		223	91	75-125	4	6020
Magnesium	22500		22000		1120	89	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 15HMSS MS

Lab ID: 580-19401-19 MS

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 85.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	13.8		16		0.189	-884	75-125	4	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 02HMSS MS
Lab ID: 580-19401-33 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 95.6

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	201		0.22		198	101	75-125	^	6020
Antimony	146		ND		149	98	75-125	^	6020
Barium	210		1.7		198	105	75-125		6020
Beryllium	5.15		ND		4.95	104	75-125		6020
Cadmium	5.02		ND		4.95	101	75-125		6020
Chromium	601		630		19.8	-128	75-125	^ 4	6020
Lead	54.4		1.4		49.5	107	75-125		6020
Cobalt	130		86		49.5	88	75-125	^	6020
Copper	29.0		3.2		24.8	104	75-125	^	6020
Iron	42800		49000		1090	-613	75-125	4	6020
Manganese	719		710		49.5	20	75-125	^ 4	6020
Nickel	1760		1800		49.5	-36	75-125	^ 4	6020
Selenium	199		ND		198	100	75-125		6020
Silver	31.3		ND		29.7	105	75-125		6020
Thallium	210		ND		198	106	75-125		6020
Vanadium	60.0		10		49.5	100	75-125		6020
Zinc	69.5		18		49.5	103	75-125	^	6020
Aluminum	1200		1100		198	56	75-125	4	6020
Magnesium	185000		200000		991	-1590	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 01CMSS MSD

Lab ID: 580-19401-1 MSD

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 86.8

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	6.97		0.154	450	75-125	1	35	4	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 12HMSS MSD

Lab ID: 580-19401-16 MSD

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 84.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	231		228	101	75-125	0	35	^	6020
Antimony	166		171	96	75-125	2	35	^	6020
Barium	259		228	98	75-125	3	35		6020
Beryllium	5.95		5.71	100	75-125	4	35		6020
Cadmium	6.30		5.71	108	75-125	3	35		6020
Chromium	663		22.8	-25	75-125	4	35	^ 4	6020
Lead	74.9		57.1	98	75-125	2	35		6020
Cobalt	157		57.1	92	75-125	3	35	^	6020
Copper	45.1		28.5	99	75-125	5	35	^	6020
Iron	81200		1260	-623	75-125	2	35	4	6020
Manganese	684		57.1	35	75-125	4	35	^ 4	6020
Nickel	1790		57.1	11	75-125	3	35	^ 4	6020
Selenium	236		228	103	75-125	2	35		6020
Silver	35.1		34.3	102	75-125	2	35		6020
Thallium	234		228	102	75-125	2	35		6020
Vanadium	76.9		57.1	95	75-125	4	35		6020
Zinc	97.2		57.1	100	75-125	7	35	^	6020
Aluminum	2120		228	61	75-125	3	35	4	6020
Magnesium	21800		1140	27	75-125	3	35	4	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 15HMSS MSD

Lab ID: 580-19401-19 MSD

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 85.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	9.32		0.128	-4820	75-125	39	35	4 F	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 02HMSS MSD
Lab ID: 580-19401-33 MSD
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 95.6

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	195		186	104	75-125	3	35	^	6020
Antimony	141		140	101	75-125	4	35	^	6020
Barium	206		186	109	75-125	2	35		6020
Beryllium	4.96		4.66	106	75-125	4	35		6020
Cadmium	5.04		4.66	108	75-125	0	35		6020
Chromium	587		18.6	-212	75-125	2	35	^ 4	6020
Lead	53.3		46.6	111	75-125	2	35		6020
Cobalt	127		46.6	89	75-125	2	35	^	6020
Copper	28.1		23.3	107	75-125	3	35	^	6020
Iron	42700		1020	-665	75-125	0	35	4	6020
Manganese	705		46.6	-8	75-125	2	35	^ 4	6020
Nickel	1720		46.6	-110	75-125	2	35	^ 4	6020
Selenium	201		186	108	75-125	1	35		6020
Silver	29.4		27.9	105	75-125	6	35		6020
Thallium	204		186	109	75-125	3	35		6020
Vanadium	58.6		46.6	104	75-125	2	35		6020
Zinc	64.7		46.6	100	75-125	7	35	^	6020
Aluminum	1170		186	47	75-125	2	35	4	6020
Magnesium	179000		932	-2350	75-125	3	35	4	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 12HMSS PDS
Lab ID: 580-19401-16 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	222		1.3		232	95	75-125	^	6020
Antimony	162		1.3		174	92	75-125	^	6020
Barium	257		35		232	96	75-125		6020
Beryllium	5.90		0.26		5.80	97	75-125		6020
Cadmium	5.84		ND		5.80	98	75-125		6020
Chromium	639		670		23.2	NC	75-125	^	6020
Lead	72.5		19		58.0	92	75-125		6020
Cobalt	151		100		58.0	80	75-125	^	6020
Copper	44.2		17		29.0	94	75-125	^	6020
Iron	78200		89000		1280	NC	75-125		6020
Manganese	659		660		58.0	NC	75-125	^	6020
Nickel	1730		1800		58.0	NC	75-125	^	6020
Selenium	227		ND		232	98	75-125		6020
Silver	34.2		ND		34.8	98	75-125		6020
Thallium	225		ND		232	97	75-125		6020
Vanadium	75.3		23		58.0	91	75-125		6020
Zinc	93.1		40		58.0	92	75-125	^	6020
Aluminum	2040		2000		232	25	75-125	W	6020
Magnesium	20900		22000		1160	NC	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 02HMSS PDS
Lab ID: 580-19401-33 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19401-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	221		0.22		207	106	75-125	^	6020
Antimony	156		ND		156	100	75-125	^	6020
Barium	223		1.7		207	107	75-125		6020
Beryllium	5.28		ND		5.19	102	75-125		6020
Cadmium	5.15		ND		5.19	99	75-125		6020
Chromium	651		630		20.7	NC	75-125	^	6020
Lead	57.6		1.4		51.9	108	75-125		6020
Cobalt	141		86		51.9	106	75-125	^	6020
Copper	30.7		3.2		25.9	106	75-125	^	6020
Iron	47800		49000		1140	NC	75-125		6020
Manganese	777		710		51.9	NC	75-125	^	6020
Nickel	1880		1800		51.9	NC	75-125	^	6020
Selenium	223		ND		207	108	75-125		6020
Silver	32.6		ND		31.1	105	75-125		6020
Thallium	222		ND		207	107	75-125		6020
Vanadium	64.7		10		51.9	105	75-125		6020
Zinc	74.4		18		51.9	108	75-125	^	6020
Aluminum	1290		1100		207	100	75-125		6020
Magnesium	198000		200000		1040	NC	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 01CMSS DU

Lab ID: 580-19401-1 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

% Solids for Sample: 86.8

% Solids for Duplicate: 86.8

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.43	6.3		9.79		44	F	7471A

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 12HMSS DU

Lab ID: 580-19401-16 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

% Solids for Sample: 84.0

% Solids for Duplicate: 84.0

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.22	1.3		1.29		3	^	6020
Antimony	0.22	1.3		1.20		8	^	6020
Barium	0.22	35		31.7		10		6020
Beryllium	0.22	0.26		0.257		1		6020
Cadmium	0.22	ND		ND		24		6020
Chromium	0.22	670		609		9	^	6020
Lead	0.22	19		17.6		8		6020
Cobalt	0.22	100		95.2		9	^	6020
Copper	0.22	17		15.4		10	^	6020
Iron	22	89000		80400		10		6020
Manganese	0.54	660		594		11	^	6020
Nickel	0.22	1800		1630		9	^	6020
Selenium	0.54	ND		ND		33		6020
Silver	0.22	ND		ND		2		6020
Thallium	0.43	ND		ND		8		6020
Vanadium	0.22	23		20.6		10		6020
Zinc	0.76	40		36.6		9	^	6020
Aluminum	33	2000		1810		9		6020
Magnesium	110	22000		19800		8		6020
Potassium	110	ND		ND		9		6020
Sodium	110	ND		ND		NC		6020
Calcium	110	360		327		10		6020

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 15HMSS DU

Lab ID: 580-19401-19 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

% Solids for Sample: 85.5

% Solids for Duplicate: 85.5

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.84	16		12.6		20		7471A

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 02HMSS DU

Lab ID: 580-19401-33 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19401-1

SDG No.:

% Solids for Sample: 95.6

% Solids for Duplicate: 95.6

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.20	0.22		ND		19	^	6020
Antimony	0.20	ND		ND		NC	^	6020
Barium	0.20	1.7		1.44		14		6020
Beryllium	0.20	ND		ND		NC		6020
Cadmium	0.20	ND		ND		66		6020
Chromium	0.20	630		595		5	^	6020
Lead	0.20	1.4		1.28		8		6020
Cobalt	0.20	86		82.0		5	^	6020
Copper	0.20	3.2		3.11		3	^	6020
Iron	20	49000		45600		8		6020
Manganese	0.50	710		686		3	^	6020
Nickel	0.20	1800		1690		5	^	6020
Selenium	0.50	ND		ND		19		6020
Silver	0.20	ND		ND		NC		6020
Thallium	0.40	ND		ND		NC		6020
Vanadium	0.20	10		9.55		7		6020
Zinc	0.71	18		17.9		2	^	6020
Aluminum	30	1100		1020		6		6020
Magnesium	100	200000		192000		5		6020
Potassium	100	ND		ND		NC		6020
Sodium	100	ND		ND		NC		6020
Calcium	100	3600		3370		7		6020

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64541/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	200		100	80	120	^	6020
Antimony	150	152		101	80	120	^	6020
Barium	200	210		105	80	120	^	6020
Beryllium	5.00	5.20		104	80	120		6020
Cadmium	5.00	5.03		101	80	120		6020
Chromium	20.0	20.8		104	80	120	^	6020
Lead	50.0	51.8		104	80	120		6020
Cobalt	50.0	54.2		108	80	120	^	6020
Copper	25.0	27.6		110	80	120	^	6020
Iron	1100	1130		103	80	120		6020
Manganese	50.0	53.6		107	80	120	^	6020
Nickel	50.0	55.0		110	80	120	^	6020
Selenium	200	207		104	80	120		6020
Silver	30.0	31.4		105	80	120		6020
Thallium	200	196		98	80	120		6020
Vanadium	50.0	51.6		103	80	120		6020
Zinc	50.0	54.9		110	80	120	^	6020
Aluminum	200	199		100	80	120		6020
Magnesium	1000	1060		106	80	120		6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64541/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	201		200	101	80-120	0	35	^	6020
Antimony	150		150	100	80-120	1	35	^	6020
Barium	212		200	106	80-120	1	35	^	6020
Beryllium	5.17		5.00	103	80-120	1	35		6020
Cadmium	5.16		5.00	103	80-120	3	35		6020
Chromium	21.0		20.0	105	80-120	1	35	^	6020
Lead	53.1		50.0	106	80-120	2	35		6020
Cobalt	53.8		50.0	108	80-120	1	35	^	6020
Copper	28.1		25.0	112	80-120	2	35	^	6020
Iron	1120		1100	102	80-120	0	35		6020
Manganese	53.4		50.0	107	80-120	0	35	^	6020
Nickel	53.2		50.0	106	80-120	3	35	^	6020
Selenium	218		200	109	80-120	5	35		6020
Silver	31.4		30.0	105	80-120	0	35		6020
Thallium	202		200	101	80-120	3	35		6020
Vanadium	52.6		50.0	105	80-120	2	35		6020
Zinc	56.5		50.0	113	80-120	3	35	^	6020
Aluminum	194		200	97	80-120	3	35		6020
Magnesium	1040		1000	104	80-120	1	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64541/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	242		108	71.1	128.9	^	6020
Antimony	126	158		125	21.0	251.6	^	6020
Barium	565	630		112	74.7	125.5	^	6020
Beryllium	162	173		107	75.3	124.7		6020
Cadmium	69.1	73.6		107	73.2	126.8		6020
Chromium	124	137		110	69.9	129.8	^	6020
Lead	223	236		106	75.3	125.1		6020
Cobalt	115	133		116	74.5	126.1	^	6020
Copper	66.7	75.5		113	73.2	126.8	^	6020
Iron	17600	19000		108	41.6	159.1		6020
Manganese	368	403		110	75.8	124.5	^	6020
Nickel	172	199		116	73.8	126.7	^	6020
Selenium	147	159		108	67.1	132.7		6020
Silver	35.2	39.1		111	65.6	134.4		6020
Thallium	173	189		109	68.8	131.2		6020
Vanadium	93.9	106		113	64.5	135.3		6020
Zinc	349	405		116	72.2	127.8	^	6020
Aluminum	10600	10500		99	46.0	153.8		6020
Magnesium	4260	4490		105	70.0	130.0		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64541/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.58		92	80	120		6020
Copper	25.0	26.6		106	80	120	^	6020
Nickel	50.0	52.7		105	80	120	^	6020
Selenium	200	189		94	80	120		6020
Zinc	50.0	50.2		100	80	120	^	6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64541/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.73		5.00	95	80-120	3	35		6020
Copper	26.7		25.0	107	80-120	0	35	^	6020
Nickel	52.0		50.0	104	80-120	1	35	^	6020
Selenium	195		200	98	80-120	3	35		6020
Zinc	52.3		50.0	105	80-120	4	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64541/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	160		99	75.3	124.7		6020
Copper	66.7	73.1		110	73.2	126.8	^	6020
Nickel	172	190		110	73.8	126.7	^	6020
Selenium	147	148		101	67.1	132.7		6020
Zinc	349	385		110	72.2	127.8	^	6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64602/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	198		99	80	120	^	6020
Antimony	150	143		95	80	120	^	6020
Barium	200	193		97	80	120		6020
Beryllium	5.00	4.94		99	80	120		6020
Cadmium	5.00	4.91		98	80	120		6020
Chromium	20.0	20.5		102	80	120	^	6020
Lead	50.0	50.2		100	80	120		6020
Cobalt	50.0	51.4		103	80	120	^	6020
Copper	25.0	26.9		107	80	120	^	6020
Iron	1100	1140		104	80	120		6020
Manganese	50.0	50.7		101	80	120	^	6020
Nickel	50.0	51.6		103	80	120	^	6020
Selenium	200	198		99	80	120		6020
Silver	30.0	30.5		102	80	120		6020
Thallium	200	194		97	80	120		6020
Vanadium	50.0	49.2		98	80	120		6020
Zinc	50.0	49.5		99	80	120	^	6020
Aluminum	200	202		101	80	120		6020
Magnesium	1000	1050		105	80	120		6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64602/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	200		200	100	80-120	1	35	^	6020
Antimony	142		150	95	80-120	0	35	^	6020
Barium	197		200	98	80-120	2	35		6020
Beryllium	4.89		5.00	98	80-120	1	35		6020
Cadmium	5.10		5.00	102	80-120	4	35		6020
Chromium	19.9		20.0	99	80-120	3	35	^	6020
Lead	50.2		50.0	100	80-120	0	35		6020
Cobalt	50.2		50.0	100	80-120	2	35	^	6020
Copper	25.6		25.0	102	80-120	5	35	^	6020
Iron	1140		1100	104	80-120	0	35		6020
Manganese	49.7		50.0	99	80-120	2	35	^	6020
Nickel	50.1		50.0	100	80-120	3	35	^	6020
Selenium	199		200	100	80-120	0	35		6020
Silver	30.5		30.0	102	80-120	0	35		6020
Thallium	195		200	98	80-120	0	35		6020
Vanadium	48.8		50.0	98	80-120	1	35		6020
Zinc	49.3		50.0	99	80-120	0	35	^	6020
Aluminum	190		200	95	80-120	6	35		6020
Magnesium	1030		1000	103	80-120	2	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64602/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	269		120	71.1	128.9	^	6020
Antimony	126	169		134	21.0	251.6	^	6020
Barium	565	656		116	74.7	125.5		6020
Beryllium	162	186		115	75.3	124.7		6020
Cadmium	69.1	80.3		116	73.2	126.8		6020
Chromium	124	144		116	69.9	129.8	^	6020
Lead	223	250		112	75.3	125.1		6020
Cobalt	115	141		122	74.5	126.1	^	6020
Copper	66.7	80.1		120	73.2	126.8	^	6020
Iron	17600	21900		124	41.6	159.1		6020
Manganese	368	422		115	75.8	124.5	^	6020
Nickel	172	208		121	73.8	126.7	^	6020
Selenium	147	176		120	67.1	132.7		6020
Silver	35.2	43.1		123	65.6	134.4		6020
Thallium	173	205		119	68.8	131.2		6020
Vanadium	93.9	112		119	64.5	135.3		6020
Zinc	349	424		121	72.2	127.8	^	6020
Aluminum	10600	12200		115	46.0	153.8		6020
Magnesium	4260	5020		118	70.0	130.0		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64624/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	197		98	80	120	^	6020
Antimony	150	143		95	80	120	^	6020
Barium	200	197		99	80	120		6020
Beryllium	5.00	4.88		98	80	120		6020
Cadmium	5.00	4.82		96	80	120		6020
Chromium	20.0	20.3		102	80	120	^	6020
Lead	50.0	49.6		99	80	120		6020
Cobalt	50.0	52.0		104	80	120	^	6020
Copper	25.0	26.9		107	80	120	^	6020
Iron	1100	1140		104	80	120		6020
Manganese	50.0	50.2		100	80	120	^	6020
Nickel	50.0	52.8		106	80	120	^	6020
Selenium	200	198		99	80	120		6020
Silver	30.0	30.2		101	80	120		6020
Thallium	200	192		96	80	120		6020
Vanadium	50.0	48.8		98	80	120		6020
Zinc	50.0	52.2		104	80	120	^	6020
Aluminum	200	186		93	80	120		6020
Magnesium	1000	1040		104	80	120		6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64624/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	197		200	98	80-120	0	35	^	6020
Antimony	140		150	94	80-120	2	35	^	6020
Barium	192		200	96	80-120	2	35		6020
Beryllium	4.90		5.00	98	80-120	0	35		6020
Cadmium	4.69		5.00	94	80-120	3	35		6020
Chromium	20.2		20.0	101	80-120	1	35	^	6020
Lead	49.4		50.0	99	80-120	0	35		6020
Cobalt	51.7		50.0	103	80-120	1	35	^	6020
Copper	26.9		25.0	108	80-120	0	35	^	6020
Iron	1110		1100	101	80-120	2	35		6020
Manganese	50.2		50.0	100	80-120	0	35	^	6020
Nickel	52.0		50.0	104	80-120	2	35	^	6020
Selenium	196		200	98	80-120	1	35		6020
Silver	29.5		30.0	98	80-120	2	35		6020
Thallium	193		200	96	80-120	1	35		6020
Vanadium	49.6		50.0	99	80-120	2	35		6020
Zinc	51.6		50.0	103	80-120	1	35	^	6020
Aluminum	189		200	94	80-120	1	35		6020
Magnesium	1000		1000	100	80-120	4	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64624/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	264		117	71.1	128.9	^	6020
Antimony	126	165		131	21.0	251.6	^	6020
Barium	565	649		115	74.7	125.5		6020
Beryllium	162	188		116	75.3	124.7		6020
Cadmium	69.1	79.3		115	73.2	126.8		6020
Chromium	124	146		118	69.9	129.8	^	6020
Lead	223	252		113	75.3	125.1		6020
Cobalt	115	142		124	74.5	126.1	^	6020
Copper	66.7	81.1		122	73.2	126.8	^	6020
Iron	17600	20900		119	41.6	159.1		6020
Manganese	368	422		115	75.8	124.5	^	6020
Nickel	172	211		122	73.8	126.7	^	6020
Selenium	147	172		117	67.1	132.7		6020
Silver	35.2	41.7		118	65.6	134.4		6020
Thallium	173	203		117	68.8	131.2		6020
Vanadium	93.9	113		120	64.5	135.3		6020
Zinc	349	421		121	72.2	127.8	^	6020
Aluminum	10600	11400		108	46.0	153.8		6020
Magnesium	4260	4780		112	70.0	130.0		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64538/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.214		107	75	125		7471A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64538/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.212		0.200	106	75-125	1	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64538/25-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	5.27		102	80	120		7471A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64544/21-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.213		106	75	125		7471A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64544/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.214		0.200	107	75-125	0	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64544/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.99		97	80	120		7471A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64650/13-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.167	0.171		102	75	125		7471A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64650/14-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.173		0.167	104	75-125	1	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64650/15-A

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.47		87	80	120		7471A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19401-16

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19401-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	1.3		1.21		9.1	^	6020
Antimony	1.3		1.27		NC	^	6020
Barium	35		33.1		5.9		6020
Beryllium	0.26		ND		NC		6020
Cadmium	ND		ND		NC		6020
Chromium	670		719		7.6	^	6020
Lead	19		18.2		4.6		6020
Cobalt	100		108		3.3	^	6020
Copper	17		18.1		6.8	^	6020
Iron	89000		87500		1.8		6020
Manganese	660		689		3.8	^	6020
Nickel	1800		1900		6.2	^	6020
Selenium	ND		ND		NC		6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	23		23.2		2.2		6020
Zinc	40		40.9		2.2	^	6020
Aluminum	2000		2040		2.8		6020
Magnesium	22000		22800		6.2		6020
Potassium	ND		ND		NC		6020
Sodium	ND		ND		NC		6020
Calcium	360		ND		NC		6020

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19401-33

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19401-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.22		ND		128	^ V	6020
Antimony	ND		ND		NC	^	6020
Barium	1.7		1.70		2.1		6020
Beryllium	ND		ND		NC		6020
Cadmium	ND		ND		NC		6020
Chromium	630		711		14	^ V	6020
Lead	1.4		1.51		8.9		6020
Cobalt	86		95.6		11	^ V	6020
Copper	3.2		3.41		6.1	^	6020
Iron	49000		51900		4.9		6020
Manganese	710		813		15	^ V	6020
Nickel	1800		2070		17	^ V	6020
Selenium	ND		ND		NC		6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	10		10.4		1.2		6020
Zinc	18		20.4		11	^ V	6020
Aluminum	1100		1200		11	V	6020
Magnesium	200000		226000		13	V	6020
Potassium	ND		ND		NC		6020
Sodium	ND		ND		NC		6020
Calcium	3600		4050		12	V	6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19401-1

SDG Number:

Matrix: Solid Instrument ID: SEA044

Analysis Method: 6020 MDL Date: 05/07/2010 09:23

Prep Method: 3050B

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		30	3
Antimony		0.2	0.0657
Arsenic		0.2	0.004
Barium		0.2	0.0148
Beryllium		0.2	0.0069
Cadmium		0.2	0.00468
Calcium		100	8.86
Chromium		0.2	0.04
Cobalt		0.2	0.00535
Copper		0.2	0.0322
Iron		20	3.45
Lead		0.2	0.0104
Magnesium		100	2.64
Manganese		0.5	0.158
Nickel		0.2	0.0367
Potassium		100	3.31
Selenium		0.5	0.004
Silver		0.2	0.0041
Sodium		100	39.2
Thallium		0.4	0.04
Vanadium		0.2	0.0267
Zinc		0.7	0.15

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19401-1

SDG Number:

Matrix: Solid Instrument ID: SEA029

Analysis Method: 7471A MDL Date: 10/02/2008 09:50

Prep Method: 7471A

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0063

FORM IX - IN

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19401-1

SDG No.:

Instrument ID: SEA044 Date: 04/01/2007 10:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		5	6020
Antimony		5	6020
Barium		5	6020
Beryllium		5	6020
Cadmium		5	6020
Chromium		5	6020
Lead		5	6020
Cobalt		5	6020
Copper		5	6020
Iron		5	6020
Manganese		5	6020
Nickel		5	6020
Selenium		5	6020
Silver		5	6020
Thallium		5	6020
Vanadium		5	6020
Zinc		5	6020
Aluminum		5	6020
Magnesium		5	6020
Potassium		5	6020
Sodium		5	6020
Calcium		5	6020

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19401-1

SDG No.:

Instrument ID: SEA029 Date: 01/01/2007 16:04

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Mercury		0.011	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-1	05/27/2010 14:44	64541	1.1303		50
580-19401-2	05/27/2010 14:44	64541	1.1026		50
580-19401-3	05/27/2010 14:44	64541	1.0686		50
580-19401-4	05/27/2010 14:44	64541	1.1033		50
580-19401-5	05/27/2010 14:44	64541	1.0625		50
580-19401-6	05/27/2010 14:44	64541	1.0090		50
580-19401-7	05/27/2010 14:44	64541	1.1943		50
580-19401-8	05/27/2010 14:44	64541	1.0058		50
580-19401-9	05/27/2010 14:44	64541	1.1246		50
580-19401-10	05/27/2010 14:44	64541	1.1399		50
580-19401-11	05/27/2010 14:44	64541	1.1597		50
580-19401-12	05/27/2010 14:44	64541	1.1007		50
580-19401-13	05/27/2010 14:44	64541	1.0513		50
580-19401-14	05/27/2010 14:44	64541	1.0548		50
580-19401-15	05/27/2010 14:44	64541	1.1341		50
MB 580-64541/21-A	05/27/2010 14:44	64541	1.0		50
LCS 580-64541/22-A	05/27/2010 14:44	64541	1.0		50
LCSD 580-64541/23-A	05/27/2010 14:44	64541	1.0		50
LCSSRM 580-64541/24-A	05/27/2010 14:44	64541	0.5352		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-16	05/28/2010 10:30	64602	1.0253		50
580-19401-16 DU	05/28/2010 10:30	64602	1.0949		50
580-19401-16 MS	05/28/2010 10:30	64602	1.0654		50
580-19401-16 MSD	05/28/2010 10:30	64602	1.0421		50
580-19401-17	05/28/2010 10:30	64602	1.0066		50
580-19401-18	05/28/2010 10:30	64602	1.1468		50
580-19401-19	05/28/2010 10:30	64602	1.1269		50
580-19401-20	05/28/2010 10:30	64602	1.1476		50
580-19401-21	05/28/2010 10:30	64602	1.1689		50
580-19401-22	05/28/2010 10:30	64602	1.0563		50
580-19401-23	05/28/2010 10:30	64602	1.0456		50
580-19401-24	05/28/2010 10:30	64602	1.1393		50
580-19401-25	05/28/2010 10:30	64602	1.1584		50
580-19401-26	05/28/2010 10:30	64602	1.1821		50
580-19401-27	05/28/2010 10:30	64602	1.0540		50
580-19401-28	05/28/2010 10:30	64602	1.1076		50
580-19401-29	05/28/2010 10:30	64602	1.0297		50
580-19401-30	05/28/2010 10:30	64602	1.1404		50
580-19401-31	05/28/2010 10:30	64602	1.0946		50
580-19401-32	05/28/2010 10:30	64602	1.1314		50
MB 580-64602/21-A	05/28/2010 10:30	64602	1.0		50
LCS 580-64602/22-A	05/28/2010 10:30	64602	1.0		50
LCSD 580-64602/23-A	05/28/2010 10:30	64602	1.0		50
LCSSRM 580-64602/24-A	05/28/2010 10:30	64602	0.5218		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-33	05/28/2010 13:49	64624	1.0085		50
580-19401-33 DU	05/28/2010 13:49	64624	1.0360		50
580-19401-33 MS	05/28/2010 13:49	64624	1.0555		50
580-19401-33 MSD	05/28/2010 13:49	64624	1.1226		50
580-19401-34	05/28/2010 13:49	64624	1.0169		50
580-19401-35	05/28/2010 13:49	64624	1.0255		50
580-19401-36	05/28/2010 13:49	64624	1.0699		50
MB 580-64624/21-A	05/28/2010 13:49	64624	1.0		50
LCS 580-64624/22-A	05/28/2010 13:49	64624	1.0		50
LCSD 580-64624/23-A	05/28/2010 13:49	64624	1.0		50
LCSSRM 580-64624/24-A	05/28/2010 13:49	64624	0.5171		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-1	05/27/2010 13:56	64538	0.8494		50
580-19401-1 DU	05/27/2010 13:56	64538	0.5377		50
580-19401-1 MS	05/27/2010 13:56	64538	0.7438		50
580-19401-1 MSD	05/27/2010 13:56	64538	0.7485		50
580-19401-2	05/27/2010 13:56	64538	0.7265		50
580-19401-3	05/27/2010 13:56	64538	0.5863		50
580-19401-4	05/27/2010 13:56	64538	0.5247		50
580-19401-5	05/27/2010 13:56	64538	0.8699		50
580-19401-6	05/27/2010 13:56	64538	0.5183		50
580-19401-7	05/27/2010 13:56	64538	0.8006		50
580-19401-8	05/27/2010 13:56	64538	0.7751		50
580-19401-9	05/27/2010 13:56	64538	0.6793		50
580-19401-10	05/27/2010 13:56	64538	0.9470		50
580-19401-11	05/27/2010 13:56	64538	0.6827		50
580-19401-12	05/27/2010 13:56	64538	0.5436		50
580-19401-13	05/27/2010 13:56	64538	0.6680		50
580-19401-14	05/27/2010 13:56	64538	0.6773		50
580-19401-15	05/27/2010 13:56	64538	0.7130		50
580-19401-16	05/27/2010 13:56	64538	0.5668		50
580-19401-17	05/27/2010 13:56	64538	0.5657		50
580-19401-18	05/27/2010 13:56	64538	0.6276		50
MB 580-64538/22-A	05/27/2010 13:56	64538	0.5		50
LCS 580-64538/23-A	05/27/2010 13:56	64538	0.5		50
LCSD 580-64538/24-A	05/27/2010 13:56	64538	0.5		50
LCSSRM 580-64538/25-A	05/27/2010 13:56	64538	0.1110		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-19	05/27/2010 15:02	64544	0.5715		50
580-19401-19 DU	05/27/2010 15:02	64544	0.6941		50
580-19401-19 MS	05/27/2010 15:02	64544	0.6193		50
580-19401-19 MSD	05/27/2010 15:02	64544	0.9128		50
580-19401-20	05/27/2010 15:02	64544	0.5262		50
580-19401-21	05/27/2010 15:02	64544	0.8112		50
580-19401-22	05/27/2010 15:02	64544	0.7337		50
580-19401-24	05/27/2010 15:02	64544	0.6717		50
580-19401-25	05/27/2010 15:02	64544	0.8770		50
580-19401-27	05/27/2010 15:02	64544	0.8552		50
580-19401-28	05/27/2010 15:02	64544	0.5535		50
580-19401-29	05/27/2010 15:02	64544	0.6852		50
580-19401-30	05/27/2010 15:02	64544	0.7937		50
580-19401-31	05/27/2010 15:02	64544	0.7207		50
580-19401-32	05/27/2010 15:02	64544	0.5510		50
580-19401-33	05/27/2010 15:02	64544	0.7962		50
580-19401-34	05/27/2010 15:02	64544	0.5616		50
580-19401-35	05/27/2010 15:02	64544	0.5126		50
580-19401-36	05/27/2010 15:02	64544	0.6598		50
MB 580-64544/20-A	05/27/2010 15:02	64544	0.5		50
LCS 580-64544/21-A	05/27/2010 15:02	64544	0.5		50
LCSD 580-64544/22-A	05/27/2010 15:02	64544	0.5		50
LCSSRM 580-64544/23-A	05/27/2010 15:02	64544	0.1350		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19401-23	05/29/2010 12:22	64650	0.5977		50
580-19401-26	05/29/2010 12:22	64650	0.5523		50
MB 580-64650/12-A	05/29/2010 12:22	64650	0.6		50
LCS 580-64650/13-A	05/29/2010 12:22	64650	0.6		50
LCSD 580-64650/14-A	05/29/2010 12:22	64650	0.6		50
LCSSRM 580-64650/15-A	05/29/2010 12:22	64650	0.1050		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
STD0 580-64718/1 IC			13:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 580-64718/2 IC			13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 580-64718/3 IC			13:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 580-64718/4 IC			13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 580-64718/5 IC			13:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD5 580-64718/6 IC			13:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 580-64718/7	1		14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 580-64718/8	1		14:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 580-64718/9	1		14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 580-64718/10	1		14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 580-64718/11	1		14:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64718/12			15:12																				
CCB 580-64718/13			15:18																				
ZZZZZZ			15:24																				
ZZZZZZ			15:30																				
ZZZZZZ			15:36																				
ZZZZZZ			15:42																				
ZZZZZZ			15:48																				
ZZZZZZ			15:54																				
ZZZZZZ			16:00																				
ZZZZZZ			16:07																				
ZZZZZZ			16:13																				
ZZZZZZ			16:19																				
CCV 580-64718/24			16:25																				
CCB 580-64718/25			16:31																				
ZZZZZZ			16:37																				
ZZZZZZ			16:44																				
ZZZZZZ			16:51																				
ZZZZZZ			16:58																				
ZZZZZZ			17:05																				
ZZZZZZ			17:12																				
ZZZZZZ			17:19																				
ZZZZZZ			17:26																				
ZZZZZZ			17:33																				
ZZZZZZ			17:40																				
CCV 580-64718/36			17:47																				
CCB 580-64718/37			17:54																				
ZZZZZZ			18:02																				
ZZZZZZ			18:09																				
ZZZZZZ			18:16																				
ZZZZZZ			18:23																				
ZZZZZZ			18:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			18:37																				
CCV 580-64718/44			18:44																				
CCB 580-64718/45			18:51																				
ZZZZZZ			18:58																				
ZZZZZZ			19:06																				
ZZZZZZ			19:13																				
ZZZZZZ			19:20																				
ZZZZZZ			19:27																				
ZZZZZZ			19:34																				
ZZZZZZ			19:41																				
ZZZZZZ			19:49																				
ZZZZZZ			19:56																				
ZZZZZZ			20:03																				
CCV 580-64718/56			20:10																				
CCB 580-64718/57			20:17																				
ZZZZZZ			20:24																				
ZZZZZZ			20:32																				
ZZZZZZ			20:39																				
ZZZZZZ			20:46																				
ZZZZZZ			20:53																				
ZZZZZZ			21:00																				
ZZZZZZ			21:07																				
ZZZZZZ			21:14																				
ZZZZZZ			21:21																				
ZZZZZZ			21:28																				
CCV 580-64718/68			21:35																				
CCB 580-64718/69			21:43																				
ZZZZZZ			21:50																				
ZZZZZZ			21:57																				
ZZZZZZ			22:04																				
ZZZZZZ			22:11																				
ZZZZZZ			22:18																				
ZZZZZZ			22:25																				
CCV 580-64718/76			22:32																				
CCB 580-64718/77			22:39																				
ZZZZZZ			22:47																				
ZZZZZZ			22:54																				
ZZZZZZ			23:01																				
ZZZZZZ			23:08																				
ZZZZZZ			23:15																				
ZZZZZZ			23:22																				
ZZZZZZ			23:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			23:37																				
ZZZZZZ			23:44																				
CCV 580-64718/87			23:51																				
CCB 580-64718/88			23:58																				
ZZZZZZ			00:05																				
ZZZZZZ			00:12																				
ZZZZZZ			00:20																				
ZZZZZZ			00:27																				
ZZZZZZ			00:34																				
ZZZZZZ			00:41																				
ZZZZZZ			00:48																				
ZZZZZZ			00:55																				
ZZZZZZ			01:03																				
ZZZZZZ			01:10																				
CCV 580-64718/99			01:17																				
CCB 580-64718/100			01:24																				
ZZZZZZ			01:31																				
ZZZZZZ			01:38																				
ZZZZZZ			01:45																				
ZZZZZZ			01:53																				
CCV 580-64718/105			02:00																				
CCB 580-64718/106			02:07																				
ZZZZZZ			02:14																				
ZZZZZZ			02:21																				
ZZZZZZ			02:28																				
ZZZZZZ			02:35																				
ZZZZZZ			02:42																				
ZZZZZZ			02:49																				
ZZZZZZ			02:57																				
ZZZZZZ			03:04																				
ZZZZZZ			03:11																				
ZZZZZZ			03:18																				
CCV 580-64718/117			03:25																				
CCB 580-64718/118			03:32																				
ZZZZZZ			03:39																				
ZZZZZZ			03:47																				
ZZZZZZ			03:54																				
ZZZZZZ			04:01																				
ZZZZZZ			04:08																				
ZZZZZZ			04:15																				
ZZZZZZ			04:22																				
ZZZZZZ			04:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			04:36																				
ZZZZZZ			04:43																				
CCV 580-64718/129			04:50																				
CCB 580-64718/130			04:58																				
ZZZZZZ			05:05																				
ZZZZZZ			05:12																				
ZZZZZZ			05:19																				
ZZZZZZ			05:26																				
ZZZZZZ			05:33																				
ZZZZZZ			05:41																				
CCV 580-64718/137	1		05:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64718/138	1		05:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-64541/21-A	10	T	06:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			06:09																				
ZZZZZZ			06:17																				
ZZZZZZ			06:24																				
ZZZZZZ			06:31																				
ZZZZZZ			06:38																				
ZZZZZZ			06:45																				
LCS 580-64541/22-A	50	T	06:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSD 580-64541/23-A	50	T	06:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 580-64541/24-A	20	T	07:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64718/149	1		07:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64718/150	1		07:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			07:28																				
580-19401-1	10	T	07:35	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-2	10	T	07:42	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-3	10	T	07:49	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-4	10	T	07:56	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-5	10	T	08:04	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-6	10	T	08:11	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-7	10	T	08:18	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-8	10	T	08:25	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
580-19401-9	10	T	08:32	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X		X
CCV 580-64718/161	1		08:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64718/162	1		08:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-10	1	T	08:53	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X
580-19401-11	1	T	09:00	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X
580-19401-12	1	T	09:08	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X
580-19401-13	1	T	09:15	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X
580-19401-14	1	T	09:22	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X
580-19401-15	1	T	09:29	X	X	X	X		X	X	X	X		X	X	X	X	X		X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCV 580-64718/169	1		09:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64718/170	1		09:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 580-64718/171	1		09:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 580-64718/172	1		09:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
STD0 580-64718/1 IC			13:27	X	X																		
STD1 580-64718/2 IC			13:33	X	X																		
STD2 580-64718/3 IC			13:39	X	X																		
STD3 580-64718/4 IC			13:45	X	X																		
STD4 580-64718/5 IC			13:51	X	X																		
STD5 580-64718/6 IC			13:57	X	X																		
ICV 580-64718/7	1		14:16	X	X																		
ICB 580-64718/8	1		14:22	X	X																		
CRI 580-64718/9	1		14:35	X	X																		
ICSA 580-64718/10	1		14:41	X	X																		
ICSAB 580-64718/11	1		14:47	X	X																		
CCV 580-64718/12			15:12																				
CCB 580-64718/13			15:18																				
ZZZZZZ			15:24																				
ZZZZZZ			15:30																				
ZZZZZZ			15:36																				
ZZZZZZ			15:42																				
ZZZZZZ			15:48																				
ZZZZZZ			15:54																				
ZZZZZZ			16:00																				
ZZZZZZ			16:07																				
ZZZZZZ			16:13																				
ZZZZZZ			16:19																				
CCV 580-64718/24			16:25																				
CCB 580-64718/25			16:31																				
ZZZZZZ			16:37																				
ZZZZZZ			16:44																				
ZZZZZZ			16:51																				
ZZZZZZ			16:58																				
ZZZZZZ			17:05																				
ZZZZZZ			17:12																				
ZZZZZZ			17:19																				
ZZZZZZ			17:26																				
ZZZZZZ			17:33																				
ZZZZZZ			17:40																				
CCV 580-64718/36			17:47																				
CCB 580-64718/37			17:54																				
ZZZZZZ			18:02																				
ZZZZZZ			18:09																				
ZZZZZZ			18:16																				
ZZZZZZ			18:23																				
ZZZZZZ			18:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			18:37																				
CCV 580-64718/44			18:44																				
CCB 580-64718/45			18:51																				
ZZZZZZ			18:58																				
ZZZZZZ			19:06																				
ZZZZZZ			19:13																				
ZZZZZZ			19:20																				
ZZZZZZ			19:27																				
ZZZZZZ			19:34																				
ZZZZZZ			19:41																				
ZZZZZZ			19:49																				
ZZZZZZ			19:56																				
ZZZZZZ			20:03																				
CCV 580-64718/56			20:10																				
CCB 580-64718/57			20:17																				
ZZZZZZ			20:24																				
ZZZZZZ			20:32																				
ZZZZZZ			20:39																				
ZZZZZZ			20:46																				
ZZZZZZ			20:53																				
ZZZZZZ			21:00																				
ZZZZZZ			21:07																				
ZZZZZZ			21:14																				
ZZZZZZ			21:21																				
ZZZZZZ			21:28																				
CCV 580-64718/68			21:35																				
CCB 580-64718/69			21:43																				
ZZZZZZ			21:50																				
ZZZZZZ			21:57																				
ZZZZZZ			22:04																				
ZZZZZZ			22:11																				
ZZZZZZ			22:18																				
ZZZZZZ			22:25																				
CCV 580-64718/76			22:32																				
CCB 580-64718/77			22:39																				
ZZZZZZ			22:47																				
ZZZZZZ			22:54																				
ZZZZZZ			23:01																				
ZZZZZZ			23:08																				
ZZZZZZ			23:15																				
ZZZZZZ			23:22																				
ZZZZZZ			23:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			23:37																				
ZZZZZZ			23:44																				
CCV 580-64718/87			23:51																				
CCB 580-64718/88			23:58																				
ZZZZZZ			00:05																				
ZZZZZZ			00:12																				
ZZZZZZ			00:20																				
ZZZZZZ			00:27																				
ZZZZZZ			00:34																				
ZZZZZZ			00:41																				
ZZZZZZ			00:48																				
ZZZZZZ			00:55																				
ZZZZZZ			01:03																				
ZZZZZZ			01:10																				
CCV 580-64718/99			01:17																				
CCB 580-64718/100			01:24																				
ZZZZZZ			01:31																				
ZZZZZZ			01:38																				
ZZZZZZ			01:45																				
ZZZZZZ			01:53																				
CCV 580-64718/105			02:00																				
CCB 580-64718/106			02:07																				
ZZZZZZ			02:14																				
ZZZZZZ			02:21																				
ZZZZZZ			02:28																				
ZZZZZZ			02:35																				
ZZZZZZ			02:42																				
ZZZZZZ			02:49																				
ZZZZZZ			02:57																				
ZZZZZZ			03:04																				
ZZZZZZ			03:11																				
ZZZZZZ			03:18																				
CCV 580-64718/117			03:25																				
CCB 580-64718/118			03:32																				
ZZZZZZ			03:39																				
ZZZZZZ			03:47																				
ZZZZZZ			03:54																				
ZZZZZZ			04:01																				
ZZZZZZ			04:08																				
ZZZZZZ			04:15																				
ZZZZZZ			04:22																				
ZZZZZZ			04:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			04:36																				
ZZZZZZ			04:43																				
CCV 580-64718/129			04:50																				
CCB 580-64718/130			04:58																				
ZZZZZZ			05:05																				
ZZZZZZ			05:12																				
ZZZZZZ			05:19																				
ZZZZZZ			05:26																				
ZZZZZZ			05:33																				
ZZZZZZ			05:41																				
CCV 580-64718/137	1		05:48	X	X																		
CCB 580-64718/138	1		05:55	X	X																		
MB 580-64541/21-A	10	T	06:02	X	X																		
ZZZZZZ			06:09																				
ZZZZZZ			06:17																				
ZZZZZZ			06:24																				
ZZZZZZ			06:31																				
ZZZZZZ			06:38																				
ZZZZZZ			06:45																				
LCS 580-64541/22-A	50	T	06:52	X	X																		
LCSD 580-64541/23-A	50	T	06:59	X	X																		
LCSSRM 580-64541/24-A	20	T	07:07	X	X																		
CCV 580-64718/149	1		07:14	X	X																		
CCB 580-64718/150	1		07:21	X	X																		
ZZZZZZ			07:28																				
580-19401-1	10	T	07:35	X																			
580-19401-2	10	T	07:42	X																			
580-19401-3	10	T	07:49	X																			
580-19401-4	10	T	07:56	X																			
580-19401-5	10	T	08:04	X																			
580-19401-6	10	T	08:11	X																			
580-19401-7	10	T	08:18	X																			
580-19401-8	10	T	08:25	X																			
580-19401-9	10	T	08:32	X																			
CCV 580-64718/161	1		08:39	X	X																		
CCB 580-64718/162	1		08:46	X	X																		
580-19401-10	1	T	08:53	X																			
580-19401-11	1	T	09:00	X																			
580-19401-12	1	T	09:08	X																			
580-19401-13	1	T	09:15	X																			
580-19401-14	1	T	09:22	X																			
580-19401-15	1	T	09:29	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
CCV 580-64718/169	1		09:36	X	X																		
CCB 580-64718/170	1		09:43	X	X																		
ICSA 580-64718/171	1		09:50	X	X																		
ICSAB 580-64718/172	1		09:58	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
STD0 580-64756/1 IC			11:15	X	X	X	X	X															
STD1 580-64756/2 IC			11:21	X	X	X	X	X															
STD2 580-64756/3 IC			11:27	X	X	X	X	X															
STD3 580-64756/4 IC			11:33	X	X	X	X	X															
STD4 580-64756/5 IC			11:39	X	X	X	X	X															
STD5 580-64756/6 IC			11:46	X	X	X	X	X															
ICV 580-64756/7	1		11:58	X	X	X	X	X															
ICB 580-64756/8	1		12:04	X	X	X	X	X															
CRI 580-64756/9	1		12:16	X	X	X	X	X															
ICSA 580-64756/10	1		12:23	X	X	X	X	X															
ICSAB 580-64756/11	1		12:29	X	X	X	X	X															
CCV 580-64756/12			12:53																				
CCB 580-64756/13			12:59																				
ZZZZZZ			13:05																				
ZZZZZZ			13:11																				
ZZZZZZ			13:17																				
ZZZZZZ			13:23																				
ZZZZZZ			13:29																				
ZZZZZZ			13:36																				
ZZZZZZ			13:42																				
ZZZZZZ			13:48																				
ZZZZZZ			13:54																				
ZZZZZZ			14:00																				
CCV 580-64756/24			14:06																				
CCB 580-64756/25			14:12																				
ZZZZZZ			14:18																				
ZZZZZZ			14:24																				
ZZZZZZ			14:30																				
ZZZZZZ			14:36																				
ZZZZZZ			14:42																				
ZZZZZZ			14:48																				
ZZZZZZ			14:55																				
ZZZZZZ			15:01																				
ZZZZZZ			15:07																				
ZZZZZZ			15:13																				
CCV 580-64756/36			15:19																				
CCB 580-64756/37			15:25																				
ZZZZZZ			15:31																				
ZZZZZZ			15:37																				
ZZZZZZ			15:43																				
ZZZZZZ			15:49																				
ZZZZZZ			15:55																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			16:01																				
CCV 580-64756/44			16:07																				
CCB 580-64756/45			16:13																				
ZZZZZZ			16:19																				
ZZZZZZ			16:25																				
ZZZZZZ			16:32																				
ZZZZZZ			16:38																				
ZZZZZZ			16:44																				
ZZZZZZ			16:50																				
ZZZZZZ			16:56																				
ZZZZZZ			17:02																				
ZZZZZZ			17:08																				
ZZZZZZ			17:14																				
CCV 580-64756/56			17:21																				
CCB 580-64756/57			17:27																				
ZZZZZZ			17:33																				
ZZZZZZ			17:39																				
ZZZZZZ			17:45																				
ZZZZZZ			17:51																				
ZZZZZZ			17:57																				
ZZZZZZ			18:03																				
ZZZZZZ			18:09																				
ZZZZZZ			18:15																				
ZZZZZZ			18:21																				
ZZZZZZ			18:28																				
CCV 580-64756/68			18:34																				
CCB 580-64756/69			18:40																				
ZZZZZZ			18:46																				
ZZZZZZ			18:52																				
ZZZZZZ			18:58																				
ZZZZZZ			19:04																				
ZZZZZZ			19:10																				
ZZZZZZ			19:16																				
CCV 580-64756/76			19:22																				
CCB 580-64756/77			19:29																				
ZZZZZZ			19:35																				
ZZZZZZ			19:41																				
ZZZZZZ			19:47																				
ZZZZZZ			19:53																				
ZZZZZZ			19:59																				
ZZZZZZ			20:05																				
ZZZZZZ			20:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			20:18																				
ZZZZZZ			20:24																				
CCV 580-64756/87			20:30																				
CCB 580-64756/88			20:36																				
ZZZZZZ			20:42																				
ZZZZZZ			20:48																				
ZZZZZZ			20:54																				
ZZZZZZ			21:01																				
ZZZZZZ			21:07																				
ZZZZZZ			21:13																				
ZZZZZZ			21:19																				
ZZZZZZ			21:25																				
ZZZZZZ			21:31																				
ZZZZZZ			21:38																				
CCV 580-64756/99			21:44																				
CCB 580-64756/100			21:50																				
ZZZZZZ			21:56																				
ZZZZZZ			22:02																				
ZZZZZZ			22:08																				
ZZZZZZ			22:14																				
CCV 580-64756/105			22:21																				
CCB 580-64756/106			22:27																				
ZZZZZZ			22:33																				
ZZZZZZ			22:39																				
ZZZZZZ			22:45																				
ZZZZZZ			22:51																				
ZZZZZZ			22:57																				
ZZZZZZ			23:03																				
ZZZZZZ			23:09																				
ZZZZZZ			23:16																				
ZZZZZZ			23:22																				
ZZZZZZ			23:28																				
CCV 580-64756/117			23:34																				
CCB 580-64756/118			23:41																				
ZZZZZZ			23:47																				
ZZZZZZ			23:53																				
ZZZZZZ			23:59																				
ZZZZZZ			00:05																				
ZZZZZZ			00:11																				
ZZZZZZ			00:17																				
ZZZZZZ			00:23																				
ZZZZZZ			00:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			00:35																				
ZZZZZZ			00:42																				
CCV 580-64756/129			00:48																				
CCB 580-64756/130			00:54																				
ZZZZZZ			01:00																				
ZZZZZZ			01:06																				
ZZZZZZ			01:12																				
ZZZZZZ			01:19																				
ZZZZZZ			01:25																				
ZZZZZZ			01:31																				
CCV 580-64756/137	1		01:37	X	X	X	X	X															
CCB 580-64756/138	1		01:43	X	X	X	X	X															
MB 580-64541/21-A	10	T	01:49	X	X	X	X	X															
ZZZZZZ			01:55																				
ZZZZZZ			02:01																				
ZZZZZZ			02:08																				
ZZZZZZ			02:14																				
ZZZZZZ			02:20																				
ZZZZZZ			02:26																				
LCS 580-64541/22-A	50	T	02:32	X	X	X	X	X															
LCSD 580-64541/23-A	50	T	02:38	X	X	X	X	X															
LCSSRM 580-64541/24-A	20	T	02:44	X	X	X	X	X															
CCV 580-64756/149	1		02:51	X	X	X	X	X															
CCB 580-64756/150	1		02:57	X	X	X	X	X															
ZZZZZZ			03:03																				
580-19401-1	10	T	03:09	X	X	X	X	X															
580-19401-2	10	T	03:15	X	X	X	X	X															
580-19401-3	10	T	03:21	X	X	X	X	X															
580-19401-4	10	T	03:27	X	X	X	X	X															
580-19401-5	10	T	03:33	X	X	X	X	X															
580-19401-6	10	T	03:40	X	X	X	X	X															
580-19401-7	10	T	03:46	X	X	X	X	X															
580-19401-8	10	T	03:52	X	X	X	X	X															
580-19401-9	10	T	03:58	X	X	X	X	X															
CCV 580-64756/161	1		04:04	X	X	X	X	X															
CCB 580-64756/162	1		04:10	X	X	X	X	X															
580-19401-10	1	T	04:16	X	X	X		X															
580-19401-11	1	T	04:22	X	X	X		X															
580-19401-12	1	T	04:28	X	X	X		X															
580-19401-13	1	T	04:35	X	X	X		X															
580-19401-14	1	T	04:41	X	X	X		X															
580-19401-15	1	T	04:47	X	X	X		X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
CCV 580-64756/169	1		04:53	X	X	X	X	X															
CCB 580-64756/170	1		04:59	X	X	X	X	X															
ICSA 580-64756/171	1		05:05	X	X	X	X	X															
ICSAB 580-64756/172	1		05:11	X	X	X	X	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
STD0 580-64859/1 IC			11:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 580-64859/2 IC			11:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 580-64859/3 IC			11:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 580-64859/4 IC			11:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 580-64859/5 IC			12:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD5 580-64859/6 IC			12:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 580-64859/7	1		12:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 580-64859/8	1		12:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 580-64859/9	1		12:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 580-64859/10	1		13:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 580-64859/11	1		13:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/12	1		13:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/13	1		13:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-64602/21-A	10	T	13:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16 SD	50	T	14:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16	10	T	14:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16 DU	10	T	14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16 MS	50	T	14:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16 MSD	50	T	14:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-16 PDS	50	T	14:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 580-64602/22-A	50	T	14:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSD 580-64602/23-A	50	T	14:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 580-64602/24-A	20	T	14:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/24	1		15:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/25	1		15:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-17	10	T	15:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-18	10	T	15:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-19	10	T	15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-20	10	T	15:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-21	10	T	15:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-22	10	T	15:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-23	10	T	16:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-24	10	T	16:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-25	10	T	16:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/35	1		16:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/36	1		16:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-26	10	T	16:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-27	10	T	16:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-28	10	T	17:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-29	10	T	17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-30	10	T	17:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-31	10	T	17:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
580-19401-32	10	T	17:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/44	1		17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/45	1		17:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-64624/21-A	10	T	17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33 SD	50	T	18:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33	10	T	18:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33 DU	10	T	18:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33 MS	50	T	18:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33 MSD	50	T	18:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-33 PDS	50	T	18:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 580-64624/22-A	50	T	18:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSD 580-64624/23-A	50	T	18:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 580-64624/24-A	20	T	19:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/56	1		19:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/57	1		19:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-34	10	T	19:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-35	10	T	19:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19401-36	10	T	19:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:44																				
ZZZZZZ			19:52																				
ZZZZZZ			19:59																				
ZZZZZZ			20:06																				
ZZZZZZ			20:13																				
ZZZZZZ			20:20																				
CCV 580-64859/67	1		20:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/68	1		20:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:49																				
ZZZZZZ			20:56																				
ZZZZZZ			21:03																				
ZZZZZZ			21:10																				
ZZZZZZ			21:17																				
ZZZZZZ			21:24																				
ZZZZZZ			21:31																				
ZZZZZZ			21:38																				
CCV 580-64859/77			21:53																				
CCB 580-64859/78			22:00																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
STD0 580-64859/1 IC			11:31	X	X																		
STD1 580-64859/2 IC			11:38	X	X																		
STD2 580-64859/3 IC			11:46	X	X																		
STD3 580-64859/4 IC			11:53	X	X																		
STD4 580-64859/5 IC			12:00	X	X																		
STD5 580-64859/6 IC			12:07	X	X																		
ICV 580-64859/7	1		12:36	X	X																		
ICB 580-64859/8	1		12:43	X	X																		
CRI 580-64859/9	1		12:57	X	X																		
ICSA 580-64859/10	1		13:05	X	X																		
ICSAB 580-64859/11	1		13:12	X	X																		
CCV 580-64859/12	1		13:40	X	X																		
CCB 580-64859/13	1		13:47	X	X																		
MB 580-64602/21-A	10	T	13:55	X	X																		
580-19401-16 SD	50	T	14:02	X	X																		
580-19401-16	10	T	14:09	X	X																		
580-19401-16 DU	10	T	14:16	X	X																		
580-19401-16 MS	50	T	14:23	X	X																		
580-19401-16 MSD	50	T	14:30	X	X																		
580-19401-16 PDS	50	T	14:38	X	X																		
LCS 580-64602/22-A	50	T	14:45	X	X																		
LCSD 580-64602/23-A	50	T	14:52	X	X																		
LCSSRM 580-64602/24-A	20	T	14:59	X	X																		
CCV 580-64859/24	1		15:06	X	X																		
CCB 580-64859/25	1		15:13	X	X																		
580-19401-17	10	T	15:20	X	X																		
580-19401-18	10	T	15:28	X	X																		
580-19401-19	10	T	15:35	X	X																		
580-19401-20	10	T	15:42	X	X																		
580-19401-21	10	T	15:49	X	X																		
580-19401-22	10	T	15:56	X	X																		
580-19401-23	10	T	16:03	X	X																		
580-19401-24	10	T	16:10	X	X																		
580-19401-25	10	T	16:17	X	X																		
CCV 580-64859/35	1		16:32	X	X																		
CCB 580-64859/36	1		16:39	X	X																		
580-19401-26	10	T	16:46	X	X																		
580-19401-27	10	T	16:53	X	X																		
580-19401-28	10	T	17:00	X	X																		
580-19401-29	10	T	17:07	X	X																		
580-19401-30	10	T	17:14	X	X																		
580-19401-31	10	T	17:21	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
580-19401-32	10	T	17:28	X	X																		
CCV 580-64859/44	1		17:43	X	X																		
CCB 580-64859/45	1		17:50	X	X																		
MB 580-64624/21-A	10	T	17:57	X	X																		
580-19401-33 SD	50	T	18:04	X	X																		
580-19401-33	10	T	18:12	X	X																		
580-19401-33 DU	10	T	18:19	X	X																		
580-19401-33 MS	50	T	18:26	X	X																		
580-19401-33 MSD	50	T	18:33	X	X																		
580-19401-33 PDS	50	T	18:40	X	X																		
LCS 580-64624/22-A	50	T	18:47	X	X																		
LCSD 580-64624/23-A	50	T	18:54	X	X																		
LCSSRM 580-64624/24-A	20	T	19:02	X	X																		
CCV 580-64859/56	1		19:09	X	X																		
CCB 580-64859/57	1		19:16	X	X																		
580-19401-34	10	T	19:23	X	X																		
580-19401-35	10	T	19:30	X	X																		
580-19401-36	10	T	19:37	X	X																		
ZZZZZZ			19:44																				
ZZZZZZ			19:52																				
ZZZZZZ			19:59																				
ZZZZZZ			20:06																				
ZZZZZZ			20:13																				
ZZZZZZ			20:20																				
CCV 580-64859/67	1		20:34	X	X																		
CCB 580-64859/68	1		20:41	X	X																		
ZZZZZZ			20:49																				
ZZZZZZ			20:56																				
ZZZZZZ			21:03																				
ZZZZZZ			21:10																				
ZZZZZZ			21:17																				
ZZZZZZ			21:24																				
ZZZZZZ			21:31																				
ZZZZZZ			21:38																				
CCV 580-64859/77			21:53																				
CCB 580-64859/78			22:00																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64691/1 IC			06:33	X																			
STD01REP2 580-64691/2 IC			06:37	X																			
STD01REP3 580-64691/3 IC			06:42	X																			
STD02REP1 580-64691/4 IC			06:46	X																			
STD02REP2 580-64691/5 IC			06:51	X																			
STD02REP3 580-64691/6 IC			06:55	X																			
STD03REP1 580-64691/7 IC			07:00	X																			
STD03REP2 580-64691/8 IC			07:04	X																			
STD03REP3 580-64691/9 IC			07:09	X																			
STD04REP1 580-64691/10 IC			07:13	X																			
STD04REP2 580-64691/11 IC			07:18	X																			
STD04REP3 580-64691/12 IC			07:22	X																			
STD05REP1 580-64691/13 IC			07:27	X																			
STD05REP2 580-64691/14 IC			07:31	X																			
STD05REP3 580-64691/15 IC			07:36	X																			
STD06REP1 580-64691/16 IC			07:40	X																			
STD06REP2 580-64691/17 IC			07:45	X																			
STD06REP3 580-64691/18 IC			07:50	X																			
ICV 580-64691/19	1		07:56	X																			
ICB 580-64691/20	1		08:01	X																			
CCV 580-64691/21	1		10:34	X																			
CCB 580-64691/22	1		10:38	X																			
MB 580-64538/22-A	1	T	10:43	X																			
LCS 580-64538/23-A	1	T	10:47	X																			
LCSD 580-64538/24-A	1	T	10:52	X																			
LCSSRM 580-64538/25-A	2	T	10:56	X																			
580-19401-1	20	T	11:00	X																			
580-19401-1 DU	20	T	11:05	X																			
580-19401-1 MS	20	T	11:09	X																			
580-19401-1 MSD	20	T	11:14	X																			
580-19401-2	20	T	11:19	X																			
580-19401-3	10	T	11:23	X																			
CCV 580-64691/33	1		11:28	X																			
CCB 580-64691/34	1		11:32	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
580-19401-4	20	T	11:37	X																			
580-19401-5	10	T	11:41	X																			
580-19401-6	20	T	11:45	X																			
580-19401-7	20	T	11:50	X																			
580-19401-8	500	T	11:55	X																			
580-19401-9	10	T	12:00	X																			
580-19401-10	500	T	12:04	X																			
580-19401-11	500	T	12:09	X																			
580-19401-12	500	T	12:13	X																			
580-19401-13	10	T	12:17	X																			
CCV 580-64691/45	1		12:22	X																			
CCB 580-64691/46	1		12:26	X																			
580-19401-14	500	T	12:31	X																			
580-19401-15	20	T	12:35	X																			
580-19401-16	20	T	12:40	X																			
580-19401-17	500	T	12:44	X																			
580-19401-18	500	T	12:49	X																			
CCV 580-64691/52	1		12:53	X																			
CCB 580-64691/53	1		12:58	X																			
MB 580-64544/20-A	1	T	13:02	X																			
LCS 580-64544/21-A	1	T	13:07	X																			
LCSD 580-64544/22-A	1	T	13:11	X																			
LCSSRM 580-64544/23-A	2	T	13:16	X																			
CCV 580-64691/58	1		13:20	X																			
CCB 580-64691/59	1		13:25	X																			
580-19401-19	50	T	13:29	X																			
580-19401-19 DU	50	T	13:34	X																			
580-19401-19 MS	50	T	13:38	X																			
580-19401-19 MSD	50	T	13:43	X																			
580-19401-20	500	T	13:47	X																			
580-19401-21	500	T	13:52	X																			
580-19401-22	10	T	13:56	X																			
580-19401-24	500	T	14:00	X																			
580-19401-25	500	T	14:05	X																			
580-19401-27	10	T	14:09	X																			
CCV 580-64691/70	1		14:14	X																			
CCB 580-64691/71	1		14:18	X																			
580-19401-29	10	T	14:27	X																			
580-19401-30	10	T	14:32	X																			
580-19401-31	500	T	14:36	X																			
580-19401-32	500	T	14:41	X																			
580-19401-33	10	T	14:45	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
580-19401-34	10	T	14:50	X																			
580-19401-35	10	T	14:54	X																			
580-19401-36	500	T	14:58	X																			
CCV 580-64691/80	1		15:03	X																			
CCB 580-64691/81	1		15:08	X																			
ZZZZZZ			15:12																				
ZZZZZZ			15:17																				
ZZZZZZ			15:21																				
ZZZZZZ			15:26																				
ZZZZZZ			15:30																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				
ZZZZZZ			15:44																				
ZZZZZZ			15:49																				
CCV 580-64691/91			15:54																				
CCB 580-64691/92			15:58																				
ZZZZZZ			16:02																				
ZZZZZZ			16:07																				
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:29																				
ZZZZZZ			16:33																				
ZZZZZZ			16:37																				
ZZZZZZ			16:42																				
CCV 580-64691/103			16:46																				
CCB 580-64691/104			16:51																				
ZZZZZZ			16:56																				
ZZZZZZ			17:00																				
ZZZZZZ			17:04																				
CCV 580-64691/108	1		17:09	X																			
CCB 580-64691/109	1		17:13	X																			
580-19401-28	1	T	17:44	X																			
CCV 580-64691/111	1		18:02	X																			
CCB 580-64691/112	1		18:07	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 06/01/2010 09:49 End Date: 06/01/2010 16:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64760/1 IC			09:49	X																			
STD01REP2 580-64760/2 IC			09:54	X																			
STD01REP3 580-64760/3 IC			09:58	X																			
STD02REP1 580-64760/4 IC			10:03	X																			
STD02REP2 580-64760/5 IC			10:07	X																			
STD02REP3 580-64760/6 IC			10:12	X																			
STD03REP1 580-64760/7 IC			10:16	X																			
STD03REP2 580-64760/8 IC			10:21	X																			
STD03REP3 580-64760/9 IC			10:26	X																			
STD04REP1 580-64760/10 IC			10:30	X																			
STD04REP2 580-64760/11 IC			10:34	X																			
STD04REP3 580-64760/12 IC			10:39	X																			
STD05REP1 580-64760/13 IC			10:44	X																			
STD05REP2 580-64760/14 IC			10:48	X																			
STD05REP3 580-64760/15 IC			10:53	X																			
STD06REP1 580-64760/16 IC			10:57	X																			
STD06REP2 580-64760/17 IC			11:01	X																			
STD06REP3 580-64760/18 IC			11:06	X																			
ICV 580-64760/19	1		11:15	X																			
ICB 580-64760/20	1		11:20	X																			
CCV 580-64760/21	1		14:39	X																			
CCB 580-64760/22	1		14:43	X																			
MB 580-64650/12-A	1	T	14:49	X																			
LCS 580-64650/13-A	1	T	14:54	X																			
LCSD 580-64650/14-A	1	T	14:59	X																			
LCSSRM 580-64650/15-A	2	T	15:03	X																			
580-19401-23	500	T	15:08	X																			
580-19401-26	500	T	15:12	X																			
CCV 580-64760/29	1		15:17	X																			
CCB 580-64760/30	1		15:21	X																			
ZZZZZZ			15:26																				
ZZZZZZ			15:31																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 06/01/2010 09:49 End Date: 06/01/2010 16:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:44																				
ZZZZZZ			15:48																				
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
ZZZZZZ			16:02																				
CCV 580-64760/40	1		16:07	X																			
CCB 580-64760/41	1		16:11	X																			

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64718/7	14:16	93		93		99		97		99	
ICB 580-64718/8	14:22	94		97		99		98		99	
CRI 580-64718/9	14:35			95		96		98		96	
ICSA 580-64718/10	14:41	70		72		89		82		85	
ICSAB 580-64718/11	14:47	70		72		85		77		81	
CCV 580-64718/137	05:48	72		73		47		77		48	
CCB 580-64718/138	05:55	69		71		45		78		48	
MB 580-64541/21-A	06:02					45		77			
LCS 580-64541/22-A	06:52					44		75			
LCSD 580-64541/23-A	06:59					44		75			
LCSSRM	07:07					47		78			
CCV 580-64718/149	07:14	74		74		50		80		52	
CCB 580-64718/150	07:21	71		72		46		79		49	
580-19401-1	07:35					57		85			
580-19401-2	07:42					51		89			
580-19401-3	07:49					49		91			
580-19401-4	07:56					47		92			
580-19401-5	08:04					49		88			
580-19401-6	08:11					44		88			
580-19401-7	08:18					45		94			
580-19401-8	08:25					45		88			
580-19401-9	08:32					47		96			
CCV 580-64718/161	08:39	80		82		44		85		45	
CCB 580-64718/162	08:46	82		83		43		87		44	
580-19401-10	08:53					42		93			
580-19401-11	09:00					42		90			
580-19401-12	09:08					40		88			
580-19401-13	09:15					39		85			
580-19401-14	09:22					37		87			
580-19401-15	09:29					38		86			
CCV 580-64718/169	09:36	76		76		40		78		40	
CCB 580-64718/170	09:43	73		73		42		79		44	
ICSA 580-64718/171	09:50	64		66		38		79		38	
ICSAB 580-64718/172	09:58	64		66		38		75		36	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64718/7	14:16	99		98		96		97		98	
ICB 580-64718/8	14:22	100		97		98		99		99	
CRI 580-64718/9	14:35	100				99		100		98	
ICSA 580-64718/10	14:41	81		79		72		76		85	
ICSAB 580-64718/11	14:47	76		78		69		74		85	
CCV 580-64718/137	05:48	82		84		82		85		89	
CCB 580-64718/138	05:55	84		83		86		86		90	
MB 580-64541/21-A	06:02					86		87		90	
LCS 580-64541/22-A	06:52					82		83		88	
LCSD 580-64541/23-A	06:59					82		83		88	
LCSSRM	07:07					82		86		90	
CCV 580-64718/149	07:14	85		87		85		89		93	
CCB 580-64718/150	07:21	85		84		87		87		91	
580-19401-1	07:35					79		84		91	
580-19401-2	07:42					80		86		92	
580-19401-3	07:49					85		89		94	
580-19401-4	07:56					83		88		93	
580-19401-5	08:04					85		90		96	
580-19401-6	08:11					86		92		94	
580-19401-7	08:18					84		88		94	
580-19401-8	08:25					81		86		91	
580-19401-9	08:32					84		89		94	
CCV 580-64718/161	08:39	90		97		90		96		97	
CCB 580-64718/162	08:46	93		95		94		97		96	
580-19401-10	08:53					88		93		96	
580-19401-11	09:00					84		90		95	
580-19401-12	09:08					85		91		95	
580-19401-13	09:15					78		84		89	
580-19401-14	09:22					82		86		92	
580-19401-15	09:29					83		90		94	
CCV 580-64718/169	09:36	84		90		84		90		93	
CCB 580-64718/170	09:43	87		88		88		90		91	
ICSA 580-64718/171	09:50	81		85		73		81		87	
ICSAB 580-64718/172	09:58	78		85		71		80		87	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64718/7	14:16	100		96							
ICB 580-64718/8	14:22	100		99							
CRI 580-64718/9	14:35	99									
ICSA 580-64718/10	14:41	87		77							
ICSAB 580-64718/11	14:47	86		76							
CCV 580-64718/137	05:48	90		89							
CCB 580-64718/138	05:55	91		92							
MB 580-64541/21-A	06:02	91									
LCS 580-64541/22-A	06:52	89									
LCSD 580-64541/23-A	06:59	89									
LCSSRM	07:07	91									
CCV 580-64718/149	07:14	92		91							
CCB 580-64718/150	07:21	91		92							
580-19401-1	07:35	90									
580-19401-2	07:42	92									
580-19401-3	07:49	94									
580-19401-4	07:56	93									
580-19401-5	08:04	94									
580-19401-6	08:11	95									
580-19401-7	08:18	93									
580-19401-8	08:25	90									
580-19401-9	08:32	94									
CCV 580-64718/161	08:39	97		94							
CCB 580-64718/162	08:46	96		97							
580-19401-10	08:53	96									
580-19401-11	09:00	94									
580-19401-12	09:08	94									
580-19401-13	09:15	90									
580-19401-14	09:22	92									
580-19401-15	09:29	94									
CCV 580-64718/169	09:36	92		92							
CCB 580-64718/170	09:43	93		94							
ICSA 580-64718/171	09:50	87		78							
ICSAB 580-64718/172	09:58	87		77							

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64756/7	11:58	98		99		89		100		88	
ICB 580-64756/8	12:04	97		98		92		99		90	
CRI 580-64756/9	12:16					91		101		89	
ICSA 580-64756/10	12:23	87		88		80		94		73	
ICSAB 580-64756/11	12:29	87		88		74		90		67	
CCV 580-64756/137	01:37	87		86		21		81		19	
CCB 580-64756/138	01:43	84		85		22		83		20	
MB 580-64541/21-A	01:49					21		85			
LCS 580-64541/22-A	02:32					22		79			
LCSD 580-64541/23-A	02:38					24		80			
LCSSRM	02:44					25		81			
CCV 580-64756/149	02:51	83		83		26		80		24	
CCB 580-64756/150	02:57	81		80		27		81		25	
580-19401-1	03:09					30		85			
580-19401-2	03:15					27		85			
580-19401-3	03:21					25		84			
580-19401-4	03:27					23		85			
580-19401-5	03:33					23		84			
580-19401-6	03:40					22		82			
580-19401-7	03:46					25		86			
580-19401-8	03:52					24		82			
580-19401-9	03:58					25		87			
CCV 580-64756/161	04:04	86		86		22		81		19	
CCB 580-64756/162	04:10	87		86		22		82		20	
580-19401-10	04:16					23		83			
580-19401-11	04:22					23		83			
580-19401-12	04:28					21		81			
580-19401-13	04:35					22		77			
580-19401-14	04:41					21		81			
580-19401-15	04:47					21		79			
CCV 580-64756/169	04:53	83		84		22		78		20	
CCB 580-64756/170	04:59	82		83		22		80		21	
ICSA 580-64756/171	05:05	76		75		22		77		19	
ICSAB 580-64756/172	05:11	77		77		21		76		17	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64756/7	11:58	98		100		96		99		101	
ICB 580-64756/8	12:04	100		99		99		100		100	
CRI 580-64756/9	12:16	99				99		100		101	
ICSA 580-64756/10	12:23	89		92		78		81		91	
ICSAB 580-64756/11	12:29	85		89		76		81		89	
CCV 580-64756/137	01:37	86		93		86		92		97	
CCB 580-64756/138	01:43	88		92		91		95		97	
MB 580-64541/21-A	01:49					92		95		99	
LCS 580-64541/22-A	02:32					87		89		95	
LCSD 580-64541/23-A	02:38					87		89		96	
LCSSRM	02:44					85		89		96	
CCV 580-64756/149	02:51	84		89		85		89		96	
CCB 580-64756/150	02:57	86		89		89		91		96	
580-19401-1	03:09					79		82		92	
580-19401-2	03:15					78		82		92	
580-19401-3	03:21					79		84		94	
580-19401-4	03:27					79		83		92	
580-19401-5	03:33					81		85		93	
580-19401-6	03:40					82		86		93	
580-19401-7	03:46					77		82		93	
580-19401-8	03:52					77		80		90	
580-19401-9	03:58					78		82		91	
CCV 580-64756/161	04:04	85		92		86		91		96	
CCB 580-64756/162	04:10	86		90		89		91		96	
580-19401-10	04:16					81		84		93	
580-19401-11	04:22					79		83		91	
580-19401-12	04:28					78		82		91	
580-19401-13	04:35					73		78		85	
580-19401-14	04:41					77		80		90	
580-19401-15	04:47					77		82		90	
CCV 580-64756/169	04:53	82		89		84		88		95	
CCB 580-64756/170	04:59	85		89		88		90		95	
ICSA 580-64756/171	05:05	78		83		72		77		86	
ICSAB 580-64756/172	05:11	76		84		70		77		86	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64756/7	11:58	99		97							
ICB 580-64756/8	12:04	98		100							
CRI 580-64756/9	12:16	99									
ICSA 580-64756/10	12:23	88		79							
ICSAB 580-64756/11	12:29	87		78							
CCV 580-64756/137	01:37	95		94							
CCB 580-64756/138	01:43	95		98							
MB 580-64541/21-A	01:49	97									
LCS 580-64541/22-A	02:32	94									
LCSD 580-64541/23-A	02:38	94									
LCSSRM	02:44	94									
CCV 580-64756/149	02:51	93		93							
CCB 580-64756/150	02:57	94		96							
580-19401-1	03:09	90									
580-19401-2	03:15	90									
580-19401-3	03:21	92									
580-19401-4	03:27	91									
580-19401-5	03:33	91									
580-19401-6	03:40	92									
580-19401-7	03:46	90									
580-19401-8	03:52	89									
580-19401-9	03:58	89									
CCV 580-64756/161	04:04	95		94							
CCB 580-64756/162	04:10	96		95							
580-19401-10	04:16	91									
580-19401-11	04:22	89									
580-19401-12	04:28	89									
580-19401-13	04:35	84									
580-19401-14	04:41	88									
580-19401-15	04:47	87									
CCV 580-64756/169	04:53	93		92							
CCB 580-64756/170	04:59	93		94							
ICSA 580-64756/171	05:05	84		76							
ICSAB 580-64756/172	05:11	84		76							

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64859/7	12:36	104		103		98		101		98	
ICB 580-64859/8	12:43	102		103		104		102		105	
CRI 580-64859/9	12:57			102		102		103		103	
ICSA 580-64859/10	13:05	98		99		93		92		89	
ICSAB 580-64859/11	13:12	97		97		91		88		88	
CCV 580-64859/12	13:40	97		98		99		98		100	
CCB 580-64859/13	13:47	99		99		100		100		102	
MB 580-64602/21-A	13:55					99		100			
580-19401-16 SD	14:02			100		99		100		99	
580-19401-16	14:09					99		97			
580-19401-16 DU	14:16					99		95			
580-19401-16 MS	14:23					98		98			
580-19401-16 MSD	14:30					100		101			
580-19401-16 PDS	14:38			103		100		101		100	
LCS 580-64602/22-A	14:45					98		99			
LCSD 580-64602/23-A	14:52					98		101			
LCSSRM	14:59					101		103			
CCV 580-64859/24	15:06	111		108		101		104		102	
CCB 580-64859/25	15:13	107		108		102		106		104	
580-19401-17	15:20					101		101			
580-19401-18	15:28					103		103			
580-19401-19	15:35					102		105			
580-19401-20	15:42					98		103			
580-19401-21	15:49					99		104			
580-19401-22	15:56					100		103			
580-19401-23	16:03					96		104			
580-19401-24	16:10					98		102			
580-19401-25	16:17					99		103			
CCV 580-64859/35	16:32	111		111		97		101		98	
CCB 580-64859/36	16:39	111		110		98		104		100	
580-19401-26	16:46					101		106			
580-19401-27	16:53					98		101			
580-19401-28	17:00					96		105			
580-19401-29	17:07					99		103			
580-19401-30	17:14					98		106			
580-19401-31	17:21					95		101			
580-19401-32	17:28					92		98			
CCV 580-64859/44	17:43	109		108		90		102		93	
CCB 580-64859/45	17:50	107		109		92		104		95	
MB 580-64624/21-A	17:57					93		105			
580-19401-33 SD	18:04			111		96		104		96	
580-19401-33	18:12					90		96			

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
580-19401-33 DU	18:19					88		95			
580-19401-33 MS	18:26					93		103			
580-19401-33 MSD	18:33					94		104			
580-19401-33 PDS	18:40			114		94		104		95	
LCS 580-64624/22-A	18:47					86		95			
LCSD 580-64624/23-A	18:54					86		96			
LCSSRM	19:02					92		103			
CCV 580-64859/56	19:09	110		107		90		104		93	
CCB 580-64859/57	19:16	110		110		92		108		97	
580-19401-34	19:23					94		100			
580-19401-35	19:30					87		96			
580-19401-36	19:37					85		95			
CCV 580-64859/67	20:34	109		109		84		100		87	
CCB 580-64859/68	20:41	104		103		85		100		89	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64859/7	12:36	100		105		98		97		102	
ICB 580-64859/8	12:43	103		103		103		100		102	
CRI 580-64859/9	12:57	103				103		101		104	
ICSA 580-64859/10	13:05	86		94		78		83		91	
ICSAB 580-64859/11	13:12	83		91		75		81		89	
CCV 580-64859/12	13:40	98		101		97		97		101	
CCB 580-64859/13	13:47	100		101		101		100		101	
MB 580-64602/21-A	13:55					102		100		100	
580-19401-16 SD	14:02	99				97		98		102	
580-19401-16	14:09					90		90		99	
580-19401-16 DU	14:16					89		89		97	
580-19401-16 MS	14:23					97		97		101	
580-19401-16 MSD	14:30					96		98		101	
580-19401-16 PDS	14:38	99				98		98		101	
LCS 580-64602/22-A	14:45					100		100		102	
LCSD 580-64602/23-A	14:52					101		100		101	
LCSSRM	14:59					99		100		104	
CCV 580-64859/24	15:06	103		107		101		101		104	
CCB 580-64859/25	15:13	106		109		106		104		105	
580-19401-17	15:20					95		96		101	
580-19401-18	15:28					91		93		99	
580-19401-19	15:35					92		96		102	
580-19401-20	15:42					93		96		103	
580-19401-21	15:49					91		91		99	
580-19401-22	15:56					93		98		102	
580-19401-23	16:03					103		105		105	
580-19401-24	16:10					100		100		102	
580-19401-25	16:17					90		92		99	
CCV 580-64859/35	16:32	100		106		99		101		105	
CCB 580-64859/36	16:39	106		110		106		106		106	
580-19401-26	16:46					92		95		101	
580-19401-27	16:53					89		92		98	
580-19401-28	17:00					93		97		101	
580-19401-29	17:07					92		96		101	
580-19401-30	17:14					90		94		98	
580-19401-31	17:21					87		91		95	
580-19401-32	17:28					86		91		97	
CCV 580-64859/44	17:43	102		111		102		106		105	
CCB 580-64859/45	17:50	106		112		108		109		107	
MB 580-64624/21-A	17:57					108		109		105	
580-19401-33 SD	18:04	101				97		95		95	
580-19401-33	18:12					86		93		97	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
580-19401-33 DU	18:19					88		94		100	
580-19401-33 MS	18:26					99		103		105	
580-19401-33 MSD	18:33					100		105		105	
580-19401-33 PDS	18:40	102				100		104		105	
LCS 580-64624/22-A	18:47					101		101		104	
LCSD 580-64624/23-A	18:54					101		102		105	
LCSSRM	19:02					104		108		110	
CCV 580-64859/56	19:09	105		114		106		108		108	
CCB 580-64859/57	19:16	109		118		112		113		111	
580-19401-34	19:23					88		93		97	
580-19401-35	19:30					88		94		101	
580-19401-36	19:37					87		92		100	
CCV 580-64859/67	20:34	101		114		102		109		109	
CCB 580-64859/68	20:41	104		113		108		110		110	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64859/7	12:36	101		98							
ICB 580-64859/8	12:43	103		103							
CRI 580-64859/9	12:57	101									
ICSA 580-64859/10	13:05	90		80							
ICSAB 580-64859/11	13:12	88		80							
CCV 580-64859/12	13:40	100		99							
CCB 580-64859/13	13:47	101		101							
MB 580-64602/21-A	13:55	100									
580-19401-16 SD	14:02	102									
580-19401-16	14:09	98									
580-19401-16 DU	14:16	96									
580-19401-16 MS	14:23	100									
580-19401-16 MSD	14:30	100									
580-19401-16 PDS	14:38	100									
LCS 580-64602/22-A	14:45	100									
LCSD 580-64602/23-A	14:52	101									
LCSSRM	14:59	102									
CCV 580-64859/24	15:06	102		102							
CCB 580-64859/25	15:13	103		105							
580-19401-17	15:20	100									
580-19401-18	15:28	98									
580-19401-19	15:35	100									
580-19401-20	15:42	102									
580-19401-21	15:49	97									
580-19401-22	15:56	100									
580-19401-23	16:03	104									
580-19401-24	16:10	100									
580-19401-25	16:17	97									
CCV 580-64859/35	16:32	103		102							
CCB 580-64859/36	16:39	106		107							
580-19401-26	16:46	99									
580-19401-27	16:53	95									
580-19401-28	17:00	101									
580-19401-29	17:07	99									
580-19401-30	17:14	97									
580-19401-31	17:21	94									
580-19401-32	17:28	97									
CCV 580-64859/44	17:43	104		102							
CCB 580-64859/45	17:50	104		106							
MB 580-64624/21-A	17:57	104									
580-19401-33 SD	18:04	94									
580-19401-33	18:12	95									

FORM XV - IN

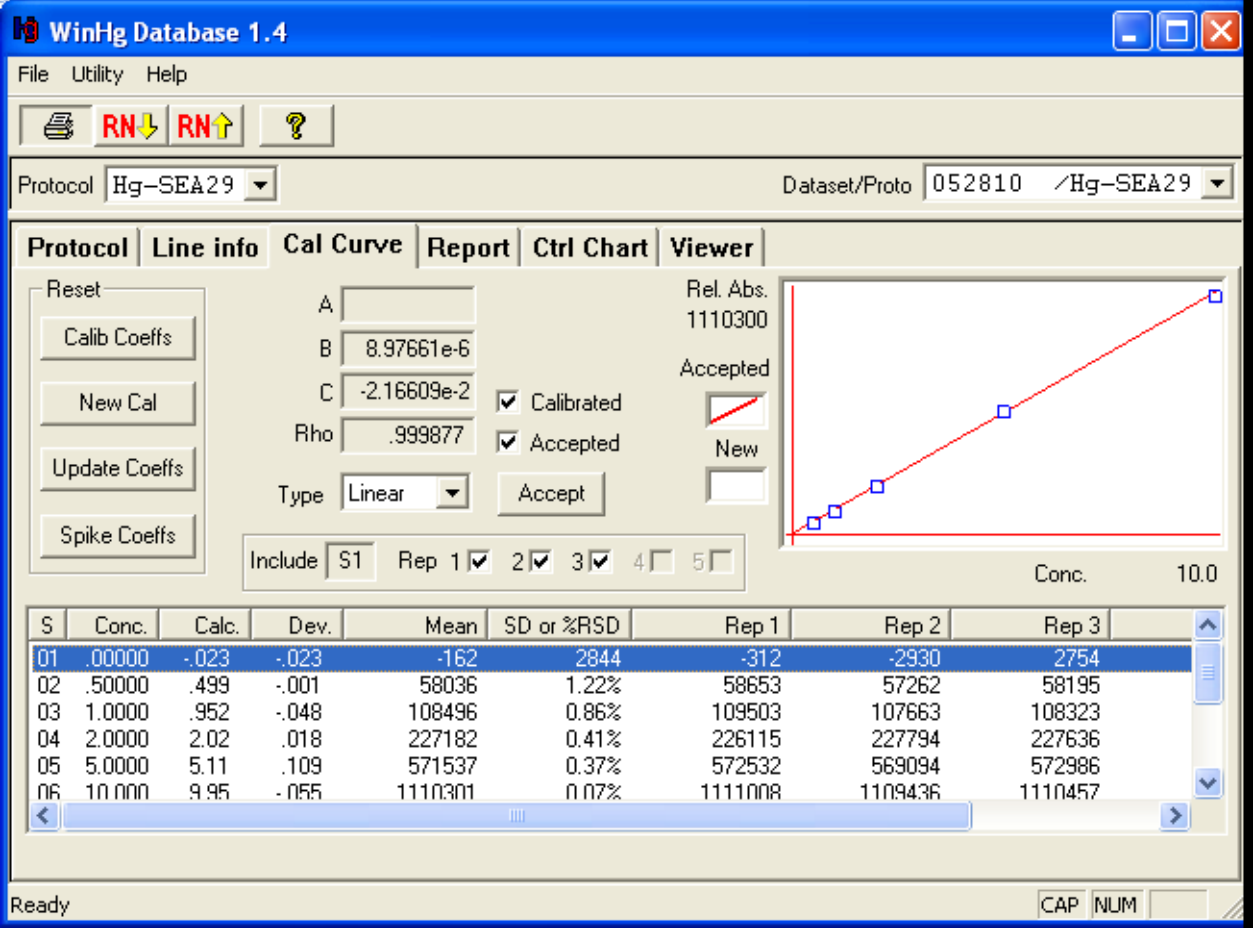
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
580-19401-33 DU	18:19	97									
580-19401-33 MS	18:26	103									
580-19401-33 MSD	18:33	103									
580-19401-33 PDS	18:40	103									
LCS 580-64624/22-A	18:47	103									
LCSD 580-64624/23-A	18:54	104									
LCSSRM	19:02	107									
CCV 580-64859/56	19:09	108		106							
CCB 580-64859/57	19:16	108		110							
580-19401-34	19:23	97									
580-19401-35	19:30	100									
580-19401-36	19:37	100									
CCV 580-64859/67	20:34	106		105							
CCB 580-64859/68	20:41	107		109							


WinHg Database 1.4
File Utility Help
RN RN
Protocol Hg-SEA29
Dataset/Proto 052810 /Hg-SEA29
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 8.97661e-6
C -2.16609e-2
Rho .999877
Type Linear
Calibrated
Accepted
Accept
Rel. Abs.
1110300
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.023 -.023 -162 2844 -312 -2930 2754
02 .50000 .499 -.001 58036 1.22% 58653 57262 58195
03 1.0000 .952 -.048 108496 0.86% 109503 107663 108323
04 2.0000 2.02 .018 227182 0.41% 226115 227794 227636
05 5.0000 5.11 .109 571537 0.37% 572532 569094 572986
06 10.000 9.95 -.055 1110301 0.07% 1111008 1109436 1110457
Ready
CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  0       06:33:37 28 May 10   HG

Hg    .000    PPB      -312
                                                                      =
*** Standard: 1 Rep: 2             Seq:  1       06:37:58 28 May 10   HG

Hg    .000    PPB      -2930
                                                                      =
*** Standard: 1 Rep: 3             Seq:  2       06:42:26 28 May 10   HG

Hg    .000    PPB      2754
                                                                      =
*** Standard: 2 Rep: 1             Seq:  3       06:46:59 28 May 10   HG

Hg    .500    PPB      58653
                                                                      =
*** Standard: 2 Rep: 2             Seq:  4       06:51:32 28 May 10   HG

Hg    .500    PPB      57262
                                                                      =
*** Standard: 2 Rep: 3             Seq:  5       06:55:50 28 May 10   HG

Hg    .500    PPB      58195
                                                                      =
*** Standard: 3 Rep: 1             Seq:  6       07:00:15 28 May 10   HG

Hg    1.00    PPB      109503
                                                                      =
*** Standard: 3 Rep: 2             Seq:  7       07:04:54 28 May 10   HG

Hg    1.00    PPB      107663
                                                                      =
*** Standard: 3 Rep: 3             Seq:  8       07:09:15 28 May 10   HG

Hg    1.00    PPB      108323
                                                                      =
*** Standard: 4 Rep: 1             Seq:  9       07:13:56 28 May 10   HG

Hg    2.00    PPB      226115
                                                                      =
*** Standard: 4 Rep: 2             Seq:  10      07:18:26 28 May 10   HG

Hg    2.00    PPB      227794
                                                                      =
*** Standard: 4 Rep: 3             Seq:  11      07:22:49 28 May 10   HG

Hg    2.00    PPB      227636
                                                                      =
*** Standard: 5 Rep: 1             Seq:  12      07:27:09 28 May 10   HG

Hg    5.00    PPB      572531
                                                                      =
*** Standard: 5 Rep: 2             Seq:  13      07:31:40 28 May 10   HG

Hg    5.00    PPB      569094
                                                                      =
*** Standard: 5 Rep: 3             Seq:  14      07:36:13 28 May 10   HG

Hg    5.00    PPB      572986
                                                                      =
*** Standard: 6 Rep: 1             Seq:  15      07:40:43 28 May 10   HG

Hg    10.0    PPB      1111008
                                                                      =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  16      07:45:35 28 May 10   HG

Hg    10.0    PPB      1109436
                                                                              =
*** Standard: 6 Rep: 3              Seq:  17      07:50:24 28 May 10   HG

Hg    10.0    PPB      1110457
                                                                              =
*** Check Standard: 2  Ck2  4PPB    Seq:  18      07:56:53 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     4.24    4.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  19      08:01:14 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.002     .200     PPB        .000
                                                                              =
*** Check Standard: 3  Ck3 0.2PPB   Seq:  20      08:05:34 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          84.4     .169    .200   PPB        .000
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  52      10:34:04 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.12    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  53      10:38:37 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .003     .200     PPB        .000
                                                                              =
*** Sample ID: 580-522203            Seq:  54     10:43:00 28 May 10   HG
                           FCW(#SEA29)64538
Hg    .003    PPB       .000      .003
                                                                              =
==============================================================================
*** Sample ID: 580-522204            Seq:  55     10:47:43 28 May 10   HG
                           FCW(#SEA29)64538
Hg    2.14    PPB       .000      2.14
                                                                              =
==============================================================================
*** Sample ID: 580-522205            Seq:  56     10:52:11 28 May 10   HG
                           FCW(#SEA29)64538
Hg    2.12    PPB       .000      2.12
                                                                              =
==============================================================================
*** Sample ID: 580-522206            Seq:  57     10:56:29 28 May 10   HG
                           FCW(#SEA29) 2X
Hg    5.85    PPB       .000      5.85
                                                                              =
==============================================================================
*** Sample ID: 580-522182            Seq:  58     11:00:50 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.63    PPB       .000      4.63
                                                                              =
==============================================================================
*** Sample ID: 580-522183            Seq:  59     11:05:14 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.57    PPB       .000      4.57
                                                                              =
==============================================================================
*** Sample ID: 580-522184            Seq:  60     11:09:54 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.56    PPB       .000      4.56
                                                                              =
==============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: 580-522185            Seq:  61     11:14:34 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.53    PPB       .000      4.53
                                                                              =
===============================================================================
*** Sample ID: 580-522186            Seq:  62     11:19:24 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    6.51    PPB       .000      6.51
                                                                              =
===============================================================================
*** Sample ID: 580-522187            Seq:  63     11:23:57 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    1.20    PPB       .000      1.20
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  64      11:28:36 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.15    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  65      11:32:55 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.004     .200     PPB        .000
                                                                              =
*** Sample ID: 580-522188            Seq:  66     11:37:15 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.87    PPB       .000      4.87
                                                                              =
===============================================================================
*** Sample ID: 580-522189            Seq:  67     11:41:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    1.76    PPB       .000      1.76
                                                                              =
===============================================================================
*** Sample ID: 580-522190            Seq:  68     11:45:53 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    7.65    PPB       .000      7.65
                                                                              =
===============================================================================
*** Sample ID: 580-522191            Seq:  69     11:50:12 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    3.93    PPB       .000      3.93
                                                                              =
===============================================================================
*** Sample ID: 580-522192            Seq:  70     11:55:51 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .718    PPB       .000      .718
                                                                              =
===============================================================================
*** Sample ID: 580-522193            Seq:  71     12:00:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    2.20    PPB       .000      2.20
                                                                              =
===============================================================================
*** Sample ID: 580-522194            Seq:  72     12:04:54 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.68    PPB       .000      2.68
                                                                              =
===============================================================================
*** Sample ID: 580-522195            Seq:  73     12:09:14 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.00    PPB       .000      2.00
                                                                              =
===============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-522196            Seq:  74     12:13:39 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    3.33    PPB       .000      3.33
                                                                                =
================================================================================
*** Sample ID: 580-522197            Seq:  75     12:17:58 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    .663    PPB       .000      .663
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  76      12:22:17 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  77      12:26:36 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .018     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522198            Seq:  78     12:31:15 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .808    PPB       .000      .808
                                                                                =
================================================================================
*** Sample ID: 580-522199            Seq:  79     12:35:44 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.38    PPB       .000      4.38
                                                                                =
================================================================================
*** Sample ID: 580-522200            Seq:  80     12:40:04 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    5.61    PPB       .000      5.61
                                                                                =
================================================================================
*** Sample ID: 580-522201            Seq:  81     12:44:42 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .578    PPB       .000      .578
                                                                                =
================================================================================
*** Sample ID: 580-522202            Seq:  82     12:49:14 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .425    PPB       .000      .425
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  83      12:53:52 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.16    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  84      12:58:33 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .019     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522307            Seq:  85     13:02:52 28 May 10   HG
                            FCW(#SEA29)64544
Hg   -.012    PPB       .000     -.012
                                                                                =
================================================================================
*** Sample ID: 580-522308            Seq:  86     13:07:11 28 May 10   HG
                            FCW(#SEA29)64544
Hg    2.13    PPB       .000      2.13
                                                                                =
================================================================================
*** Sample ID: 580-522309            Seq:  87     13:11:42 28 May 10   HG
                            FCW(#SEA29)64544
Hg    2.14    PPB       .000      2.14
                                                                                =
================================================================================
```

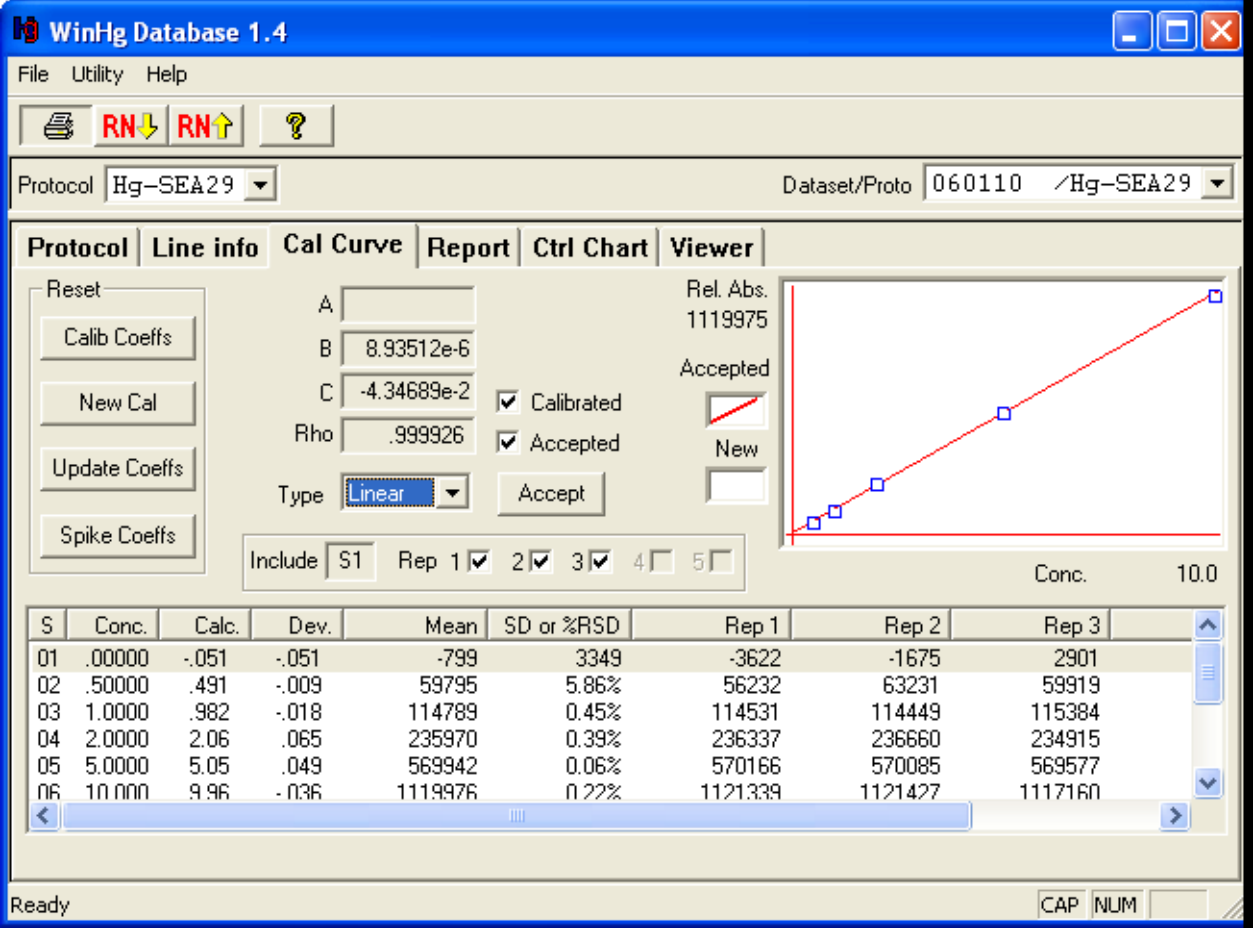
```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-522310            Seq:  88     13:16:05 28 May 10   HG
                            FCW(#SEA29) 2X
Hg    6.73    PPB       .000      6.73
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  89      13:20:57 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.10    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  90      13:25:37 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.006     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522288            Seq:  91     13:29:57 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    3.03    PPB       .000      3.03
                                                                                =
================================================================================
*** Sample ID: 580-522289            Seq:  92     13:34:17 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    3.00    PPB       .000      3.00
                                                                                =
================================================================================
*** Sample ID: 580-522290            Seq:  93     13:38:37 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    2.93    PPB       .000      2.93
                                                                                =
================================================================================
*** Sample ID: 580-522291            Seq:  94     13:43:12 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    2.91    PPB       .000      2.91
                                                                                =
================================================================================
*** Sample ID: 580-522292            Seq:  95     13:47:35 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .892    PPB       .000      .892
                                                                                =
================================================================================
*** Sample ID: 580-522293            Seq:  96     13:52:05 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.20    PPB       .000      1.20
                                                                                =
================================================================================
*** Sample ID: 580-522294            Seq:  97     13:56:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    7.26    PPB       .000      7.26
                                                                                =
================================================================================
*** Sample ID: 580-522295            Seq:  98     14:00:55 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    4.78    PPB       .000      4.78
                                                                                =
================================================================================
*** Sample ID: 580-522296            Seq:  99     14:05:27 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    3.19    PPB       .000      3.19
                                                                                =
================================================================================
*** Sample ID: 580-522297            Seq:  100    14:09:58 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    5.15    PPB       .000      5.15
                                                                                =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 4  Ck4  5PPB    Seq:  101     14:14:26 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.15    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  102     14:18:47 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .039     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522299            Seq:  104    14:27:33 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    2.22    PPB       .000      2.22
                                                                                =
================================================================================
*** Sample ID: 580-522300            Seq:  105    14:32:03 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    7.15    PPB       .000      7.15
                                                                                =
================================================================================
*** Sample ID: 580-522301            Seq:  106    14:36:43 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.92    PPB       .000      2.92
                                                                                =
================================================================================
*** Sample ID: 580-522302            Seq:  107    14:41:15 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.71    PPB       .000      1.71
                                                                                =
================================================================================
*** Sample ID: 580-522303            Seq:  108    14:45:39 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    .572    PPB       .000      .572
                                                                                =
================================================================================
*** Sample ID: 580-522304            Seq:  109    14:50:13 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.32    PPB       .000      3.32
                                                                                =
================================================================================
*** Sample ID: 580-522305            Seq:  110    14:54:32 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.60    PPB       .000      3.60
                                                                                =
================================================================================
*** Sample ID: 580-522306            Seq:  111    14:58:51 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    5.22    PPB       .000      5.22
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  112     15:03:42 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  113    15:08:15 28 May 10   HG
                            FCW(#SEA29)
Hg   -.003    PPB       .000     -.003
                                                                                =
================================================================================
*** Sample ID: 580-521993            Seq:  114    15:12:41 28 May 10   HG
                            FCW(#SEA29)64512
Hg    .012    PPB       .000      .012
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521994            Seq:  115    15:17:14 28 May 10   HG
                            FCW(#SEA29)64512
Hg    2.09    PPB       .000      2.09
                                                                                =
================================================================================
*** Sample ID: 580-521995            Seq:  116    15:21:38 28 May 10   HG
                            FCW(#SEA29)64512
Hg    2.11    PPB       .000      2.11
                                                                                =
================================================================================
*** Sample ID: 580-521996            Seq:  117    15:26:12 28 May 10   HG
                            FCW(#SEA29) 2X
Hg    5.20    PPB       .000      5.20
                                                                                =
================================================================================
*** Sample ID: 580-521975            Seq:  118    15:30:54 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.76    PPB       .000      2.76
                                                                                =
================================================================================
*** Sample ID: 580-521976            Seq:  119    15:35:16 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.24    PPB       .000      2.24
                                                                                =
================================================================================
*** Sample ID: 580-521977            Seq:  120    15:39:57 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    3.32    PPB       .000      3.32
                                                                                =
================================================================================
*** Sample ID: 580-521978            Seq:  121    15:44:37 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    4.89    PPB       .000      4.89
                                                                                =
================================================================================
*** Sample ID: 580-521979            Seq:  122    15:49:18 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.74    PPB       .000      2.74
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  123     15:54:00 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  124    15:58:24 28 May 10   HG
                            FCW(#SEA29)
Hg   -.006    PPB       .000     -.006
                                                                                =
================================================================================
*** Sample ID: 580-521980            Seq:  125    16:02:43 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.55    PPB       .000      1.55
                                                                                =
================================================================================
*** Sample ID: 580-521981            Seq:  126    16:07:04 28 May 10   HG
                            FCW(#SEA29) 5000X
Hg    1.80    PPB       .000      1.80
                                                                                =
================================================================================
*** Sample ID: 580-521982            Seq:  127    16:11:25 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.96    PPB       .000      1.96
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521983            Seq:  128    16:15:45 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    5.24    PPB       .000      5.24
                                                                                =
================================================================================
*** Sample ID: 580-521984            Seq:  129    16:20:15 28 May 10   HG
                            FCW(#SEA29) 50000X
Hg    1.84    PPB       .000      1.84
                                                                                =
================================================================================
*** Sample ID: 580-521985            Seq:  130    16:24:48 28 May 10   HG
                            FCW(#SEA29) 50000X
Hg    .475    PPB       .000      .475
                                                                                =
================================================================================
*** Sample ID: 580-521986            Seq:  131    16:29:09 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.58    PPB       .000      1.58
                                                                                =
================================================================================
*** Sample ID: 580-521987            Seq:  132    16:33:35 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.11    PPB       .000      1.11
                                                                                =
================================================================================
*** Sample ID: 580-521988            Seq:  133    16:37:55 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    4.19    PPB       .000      4.19
                                                                                =
================================================================================
*** Sample ID: 580-521989            Seq:  134    16:42:19 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.90    PPB       .000      1.90
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  135     16:46:50 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     5.19    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  136    16:51:40 28 May 10   HG
                            FCW(#SEA29)
Hg    .005    PPB       .000      .005
                                                                                =
================================================================================
*** Sample ID: 580-521990            Seq:  137    16:56:10 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    5.87    PPB       .000      5.87
                                                                                =
================================================================================
*** Sample ID: 580-521991            Seq:  138    17:00:32 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.56    PPB       .000      2.56
                                                                                =
================================================================================
*** Sample ID: 580-521992            Seq:  139    17:04:56 28 May 10   HG
                            FCW(#SEA29) 100X
Hg    2.50    PPB       .000      2.50
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  140     17:09:19 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.17    5.00   PPB        .000
                                                                                =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 1  Ck1  BLANK   Seq:  141     17:13:40 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.004     .200     PPB        .000
                                                                              =
*** Sample ID: 580-522298            Seq:  148    17:44:59 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.07    PPB       .000      1.07
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  152     18:02:45 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  153     18:07:13 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.014     .200     PPB        .000
                                                                              =
```


WinHg Database 1.4
File Utility Help
RN RN
Protocol Hg-SEA29
Dataset/Proto 060110 /Hg-SEA29
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 8.93512e-6
C -4.34689e-2
Rho .999926
Type Linear
Calibrated
Accepted
Accept
Rel. Abs.
1119975
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.051 -.051 -799 3349 -3622 -1675 2901
02 .50000 .491 -.009 59795 5.86% 56232 63231 59919
03 1.0000 .982 -.018 114789 0.45% 114531 114449 115384
04 2.0000 2.06 .065 235970 0.39% 236337 236660 234915
05 5.0000 5.05 .049 569942 0.06% 570166 570085 569577
Ready
CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  0       09:49:52 01 Jun 10   HG

Hg    .000    PPB      -3622
                                                                      =
*** Standard: 1 Rep: 2             Seq:  1       09:54:15 01 Jun 10   HG

Hg    .000    PPB      -1675
                                                                      =
*** Standard: 1 Rep: 3             Seq:  2       09:58:47 01 Jun 10   HG

Hg    .000    PPB      2901
                                                                      =
*** Standard: 2 Rep: 1             Seq:  3       10:03:06 01 Jun 10   HG

Hg    .500    PPB      56232
                                                                      =
*** Standard: 2 Rep: 2             Seq:  4       10:07:27 01 Jun 10   HG

Hg    .500    PPB      63231
                                                                      =
*** Standard: 2 Rep: 3             Seq:  5       10:12:28 01 Jun 10   HG

Hg    .500    PPB      59919
                                                                      =
*** Standard: 3 Rep: 1             Seq:  6       10:16:57 01 Jun 10   HG

Hg    1.00    PPB      114531
                                                                      =
*** Standard: 3 Rep: 2             Seq:  7       10:21:49 01 Jun 10   HG

Hg    1.00    PPB      114449
                                                                      =
*** Standard: 3 Rep: 3             Seq:  8       10:26:11 01 Jun 10   HG

Hg    1.00    PPB      115384
                                                                      =
*** Standard: 4 Rep: 1             Seq:  9       10:30:32 01 Jun 10   HG

Hg    2.00    PPB      236336
                                                                      =
*** Standard: 4 Rep: 2             Seq:  10      10:34:51 01 Jun 10   HG

Hg    2.00    PPB      236660
                                                                      =
*** Standard: 4 Rep: 3             Seq:  11      10:39:25 01 Jun 10   HG

Hg    2.00    PPB      234915
                                                                      =
*** Standard: 5 Rep: 1             Seq:  12      10:44:08 01 Jun 10   HG

Hg    5.00    PPB      570165
                                                                      =
*** Standard: 5 Rep: 2             Seq:  13      10:48:37 01 Jun 10   HG

Hg    5.00    PPB      570085
                                                                      =
*** Standard: 5 Rep: 3             Seq:  14      10:53:06 01 Jun 10   HG

Hg    5.00    PPB      569577
                                                                      =
*** Standard: 6 Rep: 1             Seq:  15      10:57:36 01 Jun 10   HG

Hg    10.0    PPB      1121339
                                                                      =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  16      11:01:56 01 Jun 10   HG

Hg    10.0    PPB      1121427
                                                                              =
*** Standard: 6 Rep: 3              Seq:  17      11:06:17 01 Jun 10   HG

Hg    10.0    PPB      1117160
                                                                              =
*** Check Standard: 2  Ck2  4PPB    Seq:  18      11:15:33 01 Jun 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     4.11    4.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  19      11:20:22 01 Jun 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.010     .200     PPB        .000
                                                                              =
*** Check Standard: 3  Ck3 0.2PPB   Seq:  20      11:24:41 01 Jun 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          83.0     .166    .200   PPB        .000
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  62      14:39:23 01 Jun 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.0     4.75    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  63      14:43:47 01 Jun 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.095     .200     PPB        .000
                                                                              =
*** Sample ID: 580-523107            Seq:  64     14:49:44 01 Jun 10   HG
                           FCW(#SEA29)64650
Hg   -.092    PPB       .000     -.092
                                                                              =
==============================================================================
*** Sample ID: 580-523108            Seq:  65     14:54:24 01 Jun 10   HG
                           FCW(#SEA29)64650
Hg    2.05    PPB       .000      2.05
                                                                              =
==============================================================================
*** Sample ID: 580-523109            Seq:  66     14:59:17 01 Jun 10   HG
                           FCW(#SEA29)64650
Hg    2.08    PPB       .000      2.08
                                                                              =
==============================================================================
*** Sample ID: 580-523110            Seq:  67     15:03:38 01 Jun 10   HG
                           FCW(#SEA29) 2X
Hg    4.69    PPB       .000      4.69
                                                                              =
==============================================================================
*** Sample ID: 580-523105            Seq:  68     15:08:06 01 Jun 10   HG
                           FCW(#SEA29) 500X
Hg    2.83    PPB       .000      2.83
                                                                              =
==============================================================================
*** Sample ID: 580-523106            Seq:  69     15:12:36 01 Jun 10   HG
                           FCW(#SEA29) 500X
Hg    .575    PPB       .000      .575
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  70      15:17:06 01 Jun 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          98.2     4.91    5.00   PPB        .000
                                                                              =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 1  Ck1  BLANK   Seq:  71      15:21:36 01 Jun 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.060     .200     PPB        .000
                                                                                =
*** Sample ID: 580-523096            Seq:  72     15:26:29 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    .493    PPB       .000      .493
                                                                                =
================================================================================
*** Sample ID: 580-523097            Seq:  73     15:31:01 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    .335    PPB       .000      .335
                                                                                =
================================================================================
*** Sample ID: 580-523098            Seq:  74     15:35:21 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    2.41    PPB       .000      2.41
                                                                                =
================================================================================
*** Sample ID: 580-523099            Seq:  75     15:39:44 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    2.40    PPB       .000      2.40
                                                                                =
================================================================================
*** Sample ID: 580-523100            Seq:  76     15:44:19 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    1.83    PPB       .000      1.83
                                                                                =
================================================================================
*** Sample ID: 580-523101            Seq:  77     15:48:38 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    1.32    PPB       .000      1.32
                                                                                =
================================================================================
*** Sample ID: 580-523102            Seq:  78     15:53:22 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    .297    PPB       .000      .297
                                                                                =
================================================================================
*** Sample ID: 580-523103            Seq:  79     15:57:52 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    .193    PPB       .000      .193
                                                                                =
================================================================================
*** Sample ID: 580-523104            Seq:  80     16:02:45 01 Jun 10   HG
                            FCW(#SEA29)64650
Hg    .538    PPB       .000      .538
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  81      16:07:07 01 Jun 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          95.2     4.76    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  82      16:11:49 01 Jun 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .088     .200     PPB        .000
                                                                                =
```

Step	Mass	Element	r	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	--- ---	---	ug/l	
3	7	Li	0.0000	--- ---	---	ug/l	
3	9	Be	1.0000	6.580E-05	2.764E-03	1.064E-03	ug/l
2	23	Na	1.0000	16.67 2.657	93.68	ug/l	
2	24	Mg	0.9999	4.446E-02	2.023E-01	4.450E-01	ug/l
2	27	Al	1.0000	2.677E-02	2.105E-01	5.211E-01	ug/l
2	31	P	1.0000	9.432E-02	3.696	26.70	ug/l
2	39	K	1.0000	14.60 8.303	170.0	ug/l	
2	44	Ca	1.0000	1.748E-02	3.043	4.281	ug/l
1	45	Sc	0.0000	--- ---	---	ug/l	
2	45	Sc	0.0000	--- ---	---	ug/l	
2	47	Ti	1.0000	2.437E-04	1.412E-02	1.078E-02	ug/l
2	51	V	1.0000	1.967E-01	9.004E-02	3.712E-01	ug/l
2	52	Cr	1.0000	1.418E-01	5.091E-02	2.278E-01	ug/l
2	54	Fe	0.9999	6.901E-02	2.021E-01	3.406	ug/l
2	55	Mn	1.0000	1.107E-02	6.777E-03	2.430E-02	ug/l
2	59	Co	1.0000	1.830E-03	5.846E-03	2.229E-03	ug/l
2	60	Ni	0.9999	1.644E-02	7.053E-02	7.936E-02	ug/l
2	63	Cu	1.0000	1.888E-02	2.394E-02	3.513E-02	ug/l
2	66	Zn	1.0000	1.759E-02	1.999E-01	1.398E-01	ug/l
1	74	Ge	0.0000	--- ---	---	ug/l	
2	74	Ge	0.0000	--- ---	---	ug/l	
3	74	Ge	0.0000	--- ---	---	ug/l	
2	75	As	1.0000	9.074E-03	5.498E-02	1.660E-01	ug/l
2	78	Se	0.9999	3.953E-03	1.057	7.562E-01	ug/l
3	88	Sr	1.0000	4.386E-03	8.389E-03	9.916E-03	ug/l
3	95	Mo	1.0000	1.297E-03	2.350E-02	1.453E-02	ug/l
2	103	Rh	0.0000	--- ---	---	ug/l	
3	103	Rh	0.0000	--- ---	---	ug/l	
3	107	Ag	1.0000	1.519E-03	9.669E-03	5.224E-03	ug/l
3	111	Cd	1.0000	3.862E-04	8.935E-03	5.537E-03	ug/l
3	118	Sn	0.9998	2.935E-03	9.511E-03	1.598E-02	ug/l
3	121	Sb	0.9999	3.365E-03	5.020E-03	1.172E-02	ug/l
3	135	Ba	1.0000	9.767E-04	1.827E-02	1.851E-02	ug/l
3	165	Ho	0.0000	--- ---	---	ug/l	
3	175	Lu	0.0000	--- ---	---	ug/l	
3	200	Hg	0.9999	1.924E-04	6.194E-03	9.614E-03	ug/l
3	205	Tl	1.0000	6.629E-03	5.853E-03	3.749E-02	ug/l
3	208	Pb	1.0000	2.581E-03	5.917E-03	1.058E-02	ug/l
3	209	Bi	0.0000	--- ---	---	ug/l	
3	238	U	1.0000	5.254E-04	1.153E-03	1.744E-03	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#
Date Acquired: May 27 2010 01:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	5118511.0	A	93130.00	1.82
7	Li	3	782070.6	P	4332.00	0.55
9	Be	3	6.7	P	5.77	86.61
23	Na	2	91316.3	P	232.10	0.25
24	Mg	2	243.3	P	35.12	14.43
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	146.7	P	20.21	13.78
31	P	2	516.7	P	25.17	4.87
39	K	2	79996.8	P	2228.00	2.79
40	Ca	1		P		
44	Ca	2	95.6	P	21.67	22.67
45	Sc	1	341365.8	P	3693.00	1.08
45	Sc	2	273883.5	P	3248.00	1.19
45	Sc	3		A		
47	Ti	2	1.3	P	0.58	43.31
50	V	2		P		
51	V	2	1076.8	P	75.72	7.03
52	Cr	2	776.7	P	56.87	7.32
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2	583.4	P	15.27	2.62
55	Mn	2	60.7	P	5.77	9.52
56	Fe	1		P		
59	Co	2	10.0	P	8.72	87.18
60	Ni	2	90.0	P	26.46	29.40
61	Ni	2		P		
63	Cu	2	103.3	P	23.09	22.34
65	Cu	2		P		
66	Zn	2	96.7	P	47.26	48.89
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	283565.0	P	2306.00	0.81
74	Ge	2	422608.5	P	3160.00	0.75
74	Ge	3	1674050.0	A	11490.00	0.69
75	As	2	76.7	P	8.08	10.54
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3	146.7	P	40.42	27.56
95	Mo	3	43.3	P	23.09	53.28
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	814900.3	P	8323.00	1.02
103	Rh	3	1534914.0	A	13520.00	0.88
106	(Cd)	3		P		
107	Ag	3	46.7	P	28.87	61.86
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	11.9	P	6.48	54.55
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	90.0	P	17.32	19.24
120	Sn	3		P		
121	Sb	3	103.3	P	15.28	14.79
123	Sb	3		P		
135	Ba	3	30.0	P	10.00	33.33
137	Ba	3		P		
165	Ho	3	3236273.0	A	25500.00	0.79
175	Lu	3	3583586.0	A	15250.00	0.43
200	Hg	3	29.3	P	6.43	21.92
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	1010.1	P	51.97	5.15
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	393.4	P	73.72	18.74
209	Bi	3	7619304.0	A	40390.00	0.53
238	U	3	80.0	P	17.32	21.65

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\007CALS.D\007CALS.D#
Date Acquired: May 27 2010 01:33 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean	SD	RSD(%)
9	Be	6	3	601.7 P	88.37	14.69
23	Na	45	2	103793.5 P	334.40	0.32
24	Mg	45	2	5658.1 P	200.40	3.54
27	Al	45	2	661.7 P	37.53	5.67
31	P	45	2	590.0 P	96.44	16.35
39	K	45	2	84475.7 P	936.20	1.11
44	Ca	45	2	341.5 P	61.43	17.99
47	Ti	45	2	14.0 P	0.00	0.00
51	V	45	2	1456.8 P	87.37	6.00
52	Cr	45	2	850.1 P	150.00	17.65
54	Fe	74	2	2217.0 P	295.80	13.34
55	Mn	45	2	345.3 P	10.26	2.97
59	Co	45	2	453.3 P	46.88	10.34
60	Ni	45	2	230.0 P	43.59	18.95
63	Cu	45	2	466.7 P	119.30	25.56
66	Zn	45	2	213.3 P	46.19	21.65
75	As	74	2	104.0 P	7.21	6.93
78	Se	74	2	20.0 P	10.00	50.00
88	Sr	74	3	1653.5 P	107.90	6.53
95	Mo	74	3	343.4 P	68.07	19.83
107	Ag	103	3	890.1 P	51.97	5.84
111	Cd	103	3	202.3 P	23.05	11.40
118	Sn	103	3	696.7 P	57.74	8.29
121	Sb	103	3	833.4 P	50.34	6.04
135	Ba	103	3	146.7 P	25.17	17.16
200	Hg	209	3	67.3 P	2.31	3.43
205	Tl	209	3	3377.3 P	173.90	5.15
208	Pb	209	3	4103.8 P	338.40	8.25
238	U	209	3	4471.1 P	130.80	2.93

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5062281	0.51	5119000	98.9	30 - 120	
45	Sc	1	352245	0.90	341400	103.2	30 - 120	
45	Sc	2	273290	0.41	273900	99.8	30 - 120	
74	Ge	1	294163	1.74	283600	103.7	30 - 120	
74	Ge	2	423611	1.14	422600	100.2	30 - 120	
74	Ge	3	1668140	1.41	1674000	99.6	30 - 120	
103	Rh	2	812206	1.25	814900	99.7	30 - 120	
103	Rh	3	1550945	1.31	1535000	101.0	30 - 120	
165	Ho	3	3175224	0.37	3236000	98.1	30 - 120	
175	Lu	3	3576534	0.99	3584000	99.8	30 - 120	
209	Bi	3	7622385	1.12	7619000	100.0	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\008CALS.D\008CALS.D#
Date Acquired: May 27 2010 01:39 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	6079.9	P	81.04	1.33
23	Na	45	2	194986.1	P	1527.00	0.78
24	Mg	45	2	56350.7	P	706.60	1.25
27	Al	45	2	3002.1	P	62.53	2.08
31	P	45	2	2206.9	P	161.70	7.33
39	K	45	2	126955.9	P	2223.00	1.75
44	Ca	45	2	2142.5	P	125.80	5.87
47	Ti	45	2	131.0	P	7.21	5.50
51	V	45	2	3877.4	P	292.90	7.55
52	Cr	45	2	4090.8	P	200.80	4.91
54	Fe	74	2	18384.0	P	1095.00	5.96
55	Mn	45	2	2576.9	P	104.70	4.06
59	Co	45	2	4501.5	P	116.70	2.59
60	Ni	45	2	1376.8	P	150.10	10.90
63	Cu	45	2	3140.5	P	45.84	1.46
66	Zn	45	2	893.4	P	113.70	12.73
75	As	74	2	498.0	P	24.98	5.02
78	Se	74	2	86.7	P	45.09	52.03
88	Sr	74	3	14746.0	P	399.90	2.71
95	Mo	74	3	2963.8	P	160.70	5.42
107	Ag	103	3	9143.7	P	120.10	1.31
111	Cd	103	3	1939.1	P	116.90	6.03
118	Sn	103	3	5661.5	P	321.00	5.67
121	Sb	103	3	8463.3	P	342.50	4.05
135	Ba	103	3	1686.9	P	80.85	4.79
200	Hg	209	3	216.7	P	12.86	5.94
205	Tl	209	3	26457.8	P	80.19	0.30
208	Pb	209	3	37882.2	P	474.30	1.25
238	U	209	3	44655.1	P	2080.00	4.66

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5174031	0.99	5119000	101.1	30 - 120	
45	Sc	1	343529	0.85	341400	100.6	30 - 120	
45	Sc	2	272774	1.31	273900	99.6	30 - 120	
74	Ge	1	285827	2.86	283600	100.8	30 - 120	
74	Ge	2	423337	0.81	422600	100.2	30 - 120	
74	Ge	3	1645535	1.03	1674000	98.3	30 - 120	
103	Rh	2	811655	0.97	814900	99.6	30 - 120	
103	Rh	3	1527763	0.79	1535000	99.5	30 - 120	
165	Ho	3	3211206	1.81	3236000	99.2	30 - 120	
175	Lu	3	3608646	1.19	3584000	100.7	30 - 120	
209	Bi	3	7601009	0.19	7619000	99.8	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\009CALS.D\009CALS.D#
Date Acquired: May 27 2010 01:45 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	59736.9	P	1121.00	1.88
23	Na	45	2	1073665.0	A	10600.00	0.99
24	Mg	45	2	562759.6	P	5533.00	0.98
27	Al	45	2	27175.7	P	299.30	1.10
31	P	45	2	18907.9	P	515.00	2.72
39	K	45	2	553661.5	P	6737.00	1.22
44	Ca	45	2	21671.3	P	293.10	1.35
47	Ti	45	2	1193.4	P	39.17	3.28
51	V	45	2	29411.7	P	620.30	2.11
52	Cr	45	2	33836.3	P	50.09	0.15
54	Fe	74	2	171454.4	P	2026.00	1.18
55	Mn	45	2	24303.3	P	335.20	1.38
59	Co	45	2	44066.4	P	530.90	1.20
60	Ni	45	2	11298.8	P	147.50	1.31
63	Cu	45	2	29595.7	P	500.50	1.69
66	Zn	45	2	6548.6	P	231.70	3.54
75	As	74	2	4549.5	P	35.25	0.77
78	Se	74	2	430.0	P	91.66	21.32
88	Sr	74	3	144411.2	P	3518.00	2.44
95	Mo	74	3	29382.7	P	1237.00	4.21
107	Ag	103	3	87354.3	P	1176.00	1.35
111	Cd	103	3	20493.9	P	964.60	4.71
118	Sn	103	3	56432.4	P	6023.00	10.67
121	Sb	103	3	82956.3	P	2370.00	2.86
135	Ba	103	3	15463.8	P	683.40	4.42
200	Hg	209	3	1498.1	P	47.29	3.16
205	Tl	209	3	258011.7	P	8786.00	3.41
208	Pb	209	3	368955.5	P	11790.00	3.20
238	U	209	3	446908.4	P	14670.00	3.28

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4999689	0.20	5119000	97.7	30 - 120	
45	Sc	1	341283	1.04	341400	100.0	30 - 120	
45	Sc	2	266342	1.19	273900	97.2	30 - 120	
74	Ge	1	281881	2.79	283600	99.4	30 - 120	
74	Ge	2	414901	0.94	422600	98.2	30 - 120	
74	Ge	3	1650836	1.10	1674000	98.6	30 - 120	
103	Rh	2	791359	0.84	814900	97.1	30 - 120	
103	Rh	3	1521050	1.11	1535000	99.1	30 - 120	
165	Ho	3	3197063	0.51	3236000	98.8	30 - 120	
175	Lu	3	3531061	0.52	3584000	98.5	30 - 120	
209	Bi	3	7476858	0.38	7619000	98.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\010CALS.D\010CALS.D#
Date Acquired: May 27 2010 01:51 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	297674.2	P	5834.00	1.96
23	Na	45	2	4799262.0	A	84470.00	1.76
24	Mg	45	2	2686047.0	A	28130.00	1.05
27	Al	45	2	135451.9	P	1925.00	1.42
31	P	45	2	93520.6	P	864.70	0.92
39	K	45	2	2349437.0	A	16670.00	0.71
44	Ca	45	2	107218.3	P	1959.00	1.83
47	Ti	45	2	5972.4	P	16.38	0.27
51	V	45	2	139384.0	P	2680.00	1.92
52	Cr	45	2	164834.0	P	2282.00	1.38
54	Fe	74	2	849811.6	P	5733.00	0.67
55	Mn	45	2	120879.9	P	575.00	0.48
59	Co	45	2	218924.0	P	1453.00	0.66
60	Ni	45	2	55674.4	P	1152.00	2.07
63	Cu	45	2	143239.2	P	3215.00	2.24
66	Zn	45	2	33154.6	P	803.80	2.42
75	As	74	2	22416.1	P	256.80	1.15
78	Se	74	2	2193.6	P	217.40	9.91
88	Sr	74	3	716564.8	P	5826.00	0.81
95	Mo	74	3	146479.0	P	2879.00	1.97
107	Ag	103	3	424768.8	P	2287.00	0.54
111	Cd	103	3	101768.3	P	3424.00	3.36
118	Sn	103	3	262905.3	P	5843.00	2.22
121	Sb	103	3	414434.8	P	4205.00	1.01
135	Ba	103	3	76686.9	P	1509.00	1.97
200	Hg	209	3	7258.3	P	46.16	0.64
205	Tl	209	3	1289895.0	P	29720.00	2.30
208	Pb	209	3	1806052.0	P	27080.00	1.50
238	U	209	3	2196869.0	A	44700.00	2.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4875339	2.14	5119000	95.2	30 - 120	
45	Sc	1	338769	0.35	341400	99.2	30 - 120	
45	Sc	2	263186	0.36	273900	96.1	30 - 120	
74	Ge	1	280700	0.41	283600	99.0	30 - 120	
74	Ge	2	409290	0.41	422600	96.9	30 - 120	
74	Ge	3	1646917	2.38	1674000	98.4	30 - 120	
103	Rh	2	772293	0.55	814900	94.8	30 - 120	
103	Rh	3	1475415	0.95	1535000	96.1	30 - 120	
165	Ho	3	3203164	1.23	3236000	99.0	30 - 120	
175	Lu	3	3559400	1.60	3584000	99.3	30 - 120	
209	Bi	3	7357085	0.98	7619000	96.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\011CALS.D\011CALS.D#
Date Acquired: May 27 2010 01:57 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	585496.1	P	4607.00	0.79
23	Na	45	2	9371905.0	A	176300.00	1.88
24	Mg	45	2	5191682.0	A	56670.00	1.09
27	Al	45	2	268582.7	P	411.00	0.15
31	P	45	2	185176.7	P	1659.00	0.90
39	K	45	2	4558714.0	A	19400.00	0.43
44	Ca	45	2	213614.0	P	3991.00	1.87
47	Ti	45	2	11810.8	P	114.70	0.97
51	V	45	2	278540.5	P	1154.00	0.41
52	Cr	45	2	326083.0	P	2495.00	0.77
54	Fe	74	2	1629538.0	A	24610.00	1.51
55	Mn	45	2	237879.6	P	406.20	0.17
59	Co	45	2	427780.0	P	2849.00	0.67
60	Ni	45	2	107778.7	P	722.50	0.67
63	Cu	45	2	279949.2	P	1063.00	0.38
66	Zn	45	2	65920.6	P	686.70	1.04
75	As	74	2	44327.4	P	366.60	0.83
78	Se	74	2	4254.2	P	115.90	2.72
88	Sr	74	3	1451590.0	A	4081.00	0.28
95	Mo	74	3	291880.0	P	1092.00	0.37
107	Ag	103	3	843155.5	P	8296.00	0.98
111	Cd	103	3	202255.3	P	2321.00	1.15
118	Sn	103	3	534998.1	P	5447.00	1.02
121	Sb	103	3	834778.6	P	11220.00	1.34
135	Ba	103	3	153260.6	P	2371.00	1.55
200	Hg	209	3	14583.2	P	268.90	1.84
205	Tl	209	3	2567865.0	A	36750.00	1.43
208	Pb	209	3	3528893.0	A	11320.00	0.32
238	U	209	3	4371733.0	A	22620.00	0.52

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4716952	2.13	5119000	92.1	30 - 120	
45	Sc	1	345585	0.58	341400	101.2	30 - 120	
45	Sc	2	261347	0.54	273900	95.4	30 - 120	
74	Ge	1	286700	0.60	283600	101.1	30 - 120	
74	Ge	2	404576	0.89	422600	95.7	30 - 120	
74	Ge	3	1633875	0.71	1674000	97.6	30 - 120	
103	Rh	2	750913	0.23	814900	92.1	30 - 120	
103	Rh	3	1445575	1.12	1535000	94.2	30 - 120	
165	Ho	3	3184737	1.10	3236000	98.4	30 - 120	
175	Lu	3	3568166	1.15	3584000	99.6	30 - 120	
209	Bi	3	7242621	1.56	7619000	95.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\014SMPL.D\014SMPL.D#
Date Acquired: May 27 2010 02:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**40.240**	ug/l	40.24	2.1	450	6	P	
23	**Na**	2	**4026.000**	ug/l	4,026.00	1.5	450000	45	A	
24	**Mg**	2	**4096.000**	ug/l	4,096.00	0.5	450000	45	A	
27	**Al**	2	**397.500**	ug/l	397.50	1.6	450000	45	P	
31	**P**	2	**3990.000**	ug/l	3,990.00	0.5	450000	45	P	
39	**K**	2	**4063.000**	ug/l	4,063.00	0.4	450000	45	A	
44	**Ca**	2	**4056.000**	ug/l	4,056.00	0.7	450000	45	P	
47	**Ti**	2	**39.910**	ug/l	39.91	3.5	4500	45	P	
51	**V**	2	**39.480**	ug/l	39.48	1.5	4500	45	P	
52	**Cr**	2	**40.150**	ug/l	40.15	0.8	4500	45	P	
54	**Fe**	2	**4051.000**	ug/l	4,051.00	1.0	450000	74	P	
55	**Mn**	2	**40.170**	ug/l	40.17	1.2	15000	45	P	
59	**Co**	2	**40.390**	ug/l	40.39	0.4	4500	45	P	
60	**Ni**	2	**41.010**	ug/l	41.01	0.6	15000	45	P	
63	**Cu**	2	**40.460**	ug/l	40.46	1.5	15000	45	P	
66	**Zn**	2	**40.550**	ug/l	40.55	1.2	15000	45	P	
75	**As**	2	**39.330**	ug/l	39.33	2.1	4500	74	P	
78	**Se**	2	**39.880**	ug/l	39.88	7.7	4500	74	P	
88	**Sr**	3	**40.060**	ug/l	40.06	0.8	4500	74	P	
95	**Mo**	3	**40.330**	ug/l	40.33	1.4	4500	74	P	
107	**Ag**	3	**39.930**	ug/l	39.93	2.0	450	103	P	
111	**Cd**	3	**40.160**	ug/l	40.16	2.8	900	103	P	
118	**Sn**	3	**39.730**	ug/l	39.73	2.1	4500	103	P	
121	**Sb**	3	**39.790**	ug/l	39.79	1.3	4500	103	P	
135	**Ba**	3	**39.010**	ug/l	39.01	1.4	4500	103	P	
200	**Hg**	3	**2.002**	ug/l	2.00	4.9	45	209	P	
205	**Tl**	3	**40.540**	ug/l	40.54	1.2	4500	209	P	
208	**Pb**	3	**41.010**	ug/l	41.01	1.6	4500	209	P	
238	**U**	3	**40.340**	ug/l	40.34	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4777471	1.73	5119000	**93.3**	30	-	120	
45	Sc	1	340053	0.48	341400	**99.6**	30	-	120	
45	Sc	2	268331	0.68	273900	**98.0**	30	-	120	
74	Ge	1	283280	0.25	283600	**99.9**	30	-	120	
74	Ge	2	420898	1.49	422600	**99.6**	30	-	120	
74	Ge	3	1648153	0.69	1674000	**98.5**	30	-	120	
103	Rh	2	784031	1.20	814900	**96.2**	30	-	120	
103	Rh	3	1494422	1.43	1535000	**97.4**	30	-	120	
165	Ho	3	3195109	1.44	3236000	**98.7**	30	-	120	
175	Lu	3	3590444	0.76	3584000	**100.2**	30	-	120	
209	Bi	3	7378706	1.10	7619000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\015SMPL.D\015SMPL.D#
Date Acquired: May 27 2010 02:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	60.8	450	6	P	
23	**Na**	2	**7.682**	ug/l	7.68	24.4	450000	45	P	
24	**Mg**	2	**1.307**	ug/l	1.31	5.8	450000	45	P	
27	**Al**	2	**0.101**	ug/l	0.10	115.9	450000	45	P	
31	**P**	2	**-3.663**	ug/l	-3.66	115.2	450000	45	P	
39	**K**	2	**4.016**	ug/l	4.02	52.3	450000	45	P	
44	**Ca**	2	**2.388**	ug/l	2.39	145.4	450000	45	P	
47	**Ti**	2	**0.025**	ug/l	0.02	101.1	4500	45	P	
51	**V**	2	**-0.095**	ug/l	-0.09	39.6	4500	45	P	
52	**Cr**	2	**0.011**	ug/l	0.01	166.8	4500	45	P	
54	**Fe**	2	**1.833**	ug/l	1.83	14.3	450000	74	P	
55	**Mn**	2	**0.012**	ug/l	0.01	45.1	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.01	30.1	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	32.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	14.9	15000	45	P	
66	**Zn**	2	**-0.046**	ug/l	-0.05	122.9	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	62.9	4500	74	P	
78	**Se**	2	**-0.231**	ug/l	-0.23	53.4	4500	74	P	
88	**Sr**	3	**0.016**	ug/l	0.02	79.4	4500	74	P	
95	**Mo**	3	**0.008**	ug/l	0.01	103.7	4500	74	P	
107	**Ag**	3	**0.007**	ug/l	0.01	69.0	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	68.7	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.04	28.7	4500	103	P	
121	**Sb**	3	**0.028**	ug/l	0.03	20.6	4500	103	P	
135	**Ba**	3	**0.006**	ug/l	0.01	100.0	4500	103	P	
200	**Hg**	3	**0.014**	ug/l	0.01	12.9	45	209	P	
205	**Tl**	3	**0.378**	ug/l	0.38	5.2	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	72.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	50.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4843146	0.99	5119000	**94.6**	30	-	120	
45	Sc	1	338511	0.33	341400	**99.2**	30	-	120	
45	Sc	2	268496	0.59	273900	**98.0**	30	-	120	
74	Ge	1	282135	0.30	283600	**99.5**	30	-	120	
74	Ge	2	423971	1.30	422600	**100.3**	30	-	120	
74	Ge	3	1632620	0.26	1674000	**97.5**	30	-	120	
103	Rh	2	805088	0.49	814900	**98.8**	30	-	120	
103	Rh	3	1525380	0.62	1535000	**99.4**	30	-	120	
165	Ho	3	3204788	1.45	3236000	**99.0**	30	-	120	
175	Lu	3	3591839	0.36	3584000	**100.2**	30	-	120	
209	Bi	3	7553531	0.23	7619000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\017SMPL.D\017SMPL.D#
Date Acquired: May 27 2010 02:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.956**	ug/l	1.96	9.5	450	6	P	
23	**Na**	2	**216.000**	ug/l	216.00	1.7	450000	45	P	
24	**Mg**	2	**212.300**	ug/l	212.30	3.3	450000	45	P	
27	**Al**	2	**21.270**	ug/l	21.27	3.1	450000	45	P	
31	**P**	2	**198.800**	ug/l	198.80	5.0	450000	45	P	
39	**K**	2	**219.200**	ug/l	219.20	2.3	450000	45	P	
44	**Ca**	2	**198.500**	ug/l	198.50	5.7	450000	45	P	
47	**Ti**	2	**2.084**	ug/l	2.08	7.8	4500	45	P	
51	**V**	2	**1.912**	ug/l	1.91	2.4	4500	45	P	
52	**Cr**	2	**2.020**	ug/l	2.02	2.0	4500	45	P	
54	**Fe**	2	**202.500**	ug/l	202.50	3.2	450000	74	P	
55	**Mn**	2	**2.043**	ug/l	2.04	2.9	15000	45	P	
59	**Co**	2	**2.088**	ug/l	2.09	0.7	4500	45	P	
60	**Ni**	2	**2.259**	ug/l	2.26	6.8	15000	45	P	
63	**Cu**	2	**2.110**	ug/l	2.11	4.1	15000	45	P	
66	**Zn**	2	**2.036**	ug/l	2.04	17.3	15000	45	P	
75	**As**	2	**1.929**	ug/l	1.93	6.8	4500	74	P	
78	**Se**	2	**2.014**	ug/l	2.01	52.1	4500	74	P	
88	**Sr**	3	**2.038**	ug/l	2.04	2.1	4500	74	P	
95	**Mo**	3	**2.063**	ug/l	2.06	5.1	4500	74	P	
107	**Ag**	3	**2.059**	ug/l	2.06	2.2	450	103	P	
111	**Cd**	3	**2.036**	ug/l	2.04	3.4	900	103	P	
118	**Sn**	3	**1.940**	ug/l	1.94	4.5	4500	103	P	
121	**Sb**	3	**1.938**	ug/l	1.94	6.7	4500	103	P	
135	**Ba**	3	**1.846**	ug/l	1.85	3.2	4500	103	P	
200	**Hg**	3	**0.134**	ug/l	0.13	4.0	45	209	P	
205	**Tl**	3	**2.087**	ug/l	2.09	4.9	4500	209	P	
208	**Pb**	3	**2.039**	ug/l	2.04	1.9	4500	209	P	
238	**U**	3	**1.995**	ug/l	2.00	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4847158	1.00	5119000	**94.7**	30	-	120	
45	Sc	1	327879	0.63	341400	**96.0**	30	-	120	
45	Sc	2	270048	1.54	273900	**98.6**	30	-	120	
74	Ge	1	274940	1.21	283600	**96.9**	30	-	120	
74	Ge	2	425517	1.64	422600	**100.7**	30	-	120	
74	Ge	3	1638658	1.82	1674000	**97.9**	30	-	120	
103	Rh	2	809779	1.29	814900	**99.4**	30	-	120	
103	Rh	3	1543222	0.40	1535000	**100.5**	30	-	120	
165	Ho	3	3184232	0.67	3236000	**98.4**	30	-	120	
175	Lu	3	3551494	0.93	3584000	**99.1**	30	-	120	
209	Bi	3	7623753	0.86	7619000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\018SMPL.D\018SMPL.D#
Date Acquired: May 27 2010 02:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.00	94.7	450	6	P	
23	**Na**	2	**245200.000**	ug/l	245,200.00	1.9	450000	45	A	
24	**Mg**	2	**96050.000**	ug/l	96,050.00	0.7	450000	45	A	
27	**Al**	2	**92580.000**	ug/l	92,580.00	1.7	450000	45	A	
31	**P**	2	**100600.000**	ug/l	100,600.00	1.5	450000	45	A	
39	**K**	2	**96080.000**	ug/l	96,080.00	1.0	450000	45	A	
44	**Ca**	2	**281700.000**	ug/l	281,700.00	0.3	450000	45	A	
47	**Ti**	2	**1978.000**	ug/l	1,978.00	0.6	4500	45	P	
51	**V**	2	**-0.037**	ug/l	-0.04	135.5	4500	45	P	
52	**Cr**	2	**1.079**	ug/l	1.08	9.4	4500	45	P	
54	**Fe**	2	**229100.000**	ug/l	229,100.00	1.5	450000	74	A	
55	**Mn**	2	**5.081**	ug/l	5.08	1.3	15000	45	P	
59	**Co**	2	**3.550**	ug/l	3.55	1.5	4500	45	P	
60	**Ni**	2	**2.519**	ug/l	2.52	7.9	15000	45	P	
63	**Cu**	2	**3.523**	ug/l	3.52	2.4	15000	45	P	
66	**Zn**	2	**3.269**	ug/l	3.27	8.4	15000	45	P	
75	**As**	2	**0.354**	ug/l	0.35	15.6	4500	74	P	
78	**Se**	2	**0.359**	ug/l	0.36	205.5	4500	74	P	
88	**Sr**	3	**17.480**	ug/l	17.48	2.4	4500	74	P	
95	**Mo**	3	**2090.000**	ug/l	2,090.00	1.0	4500	74	A	
107	**Ag**	3	**0.188**	ug/l	0.19	9.8	450	103	P	
111	**Cd**	3	**0.194**	ug/l	0.19	47.6	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	5.2	4500	103	P	
121	**Sb**	3	**0.705**	ug/l	0.71	2.0	4500	103	P	
135	**Ba**	3	**0.467**	ug/l	0.47	4.2	4500	103	P	
200	**Hg**	3	**0.019**	ug/l	0.02	28.3	45	209	P	
205	**Tl**	3	**0.111**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.274**	ug/l	0.27	3.2	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	68.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611639	1.21	5119000	**70.6**	30	-	120	
45	Sc	1	305003	1.27	341400	**89.3**	30	-	120	
45	Sc	2	225786	1.04	273900	**82.4**	30	-	120	
74	Ge	1	243649	1.81	283600	**85.9**	30	-	120	
74	Ge	2	342709	1.63	422600	**81.1**	30	-	120	
74	Ge	3	1331549	1.49	1674000	**79.5**	30	-	120	
103	Rh	2	587650	1.67	814900	**72.1**	30	-	120	
103	Rh	3	1170783	0.95	1535000	**76.3**	30	-	120	
165	Ho	3	2771062	0.60	3236000	**85.6**	30	-	120	
175	Lu	3	3118927	0.46	3584000	**87.0**	30	-	120	
209	Bi	3	5897911	0.64	7619000	**77.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\019SMPL.D\019SMPL.D#
Date Acquired: May 27 2010 02:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.00	39.6	450	6	P	
23	**Na**	2	**252300.000**	ug/l	252,300.00	2.7	450000	45	A	
24	**Mg**	2	**98980.000**	ug/l	98,980.00	0.7	450000	45	A	
27	**Al**	2	**93950.000**	ug/l	93,950.00	1.0	450000	45	A	
31	**P**	2	**103100.000**	ug/l	103,100.00	1.0	450000	45	A	
39	**K**	2	**97510.000**	ug/l	97,510.00	1.0	450000	45	A	
44	**Ca**	2	**285400.000**	ug/l	285,400.00	2.2	450000	45	A	
47	**Ti**	2	**1980.000**	ug/l	1,980.00	0.7	4500	45	P	
51	**V**	2	**204.800**	ug/l	204.80	0.8	4500	45	P	
52	**Cr**	2	**199.000**	ug/l	199.00	1.1	4500	45	P	
54	**Fe**	2	**232600.000**	ug/l	232,600.00	1.9	450000	74	A	
55	**Mn**	2	**200.300**	ug/l	200.30	1.2	15000	45	P	
59	**Co**	2	**200.200**	ug/l	200.20	0.8	4500	45	P	
60	**Ni**	2	**196.300**	ug/l	196.30	1.2	15000	45	P	
63	**Cu**	2	**190.700**	ug/l	190.70	1.2	15000	45	P	
66	**Zn**	2	**99.360**	ug/l	99.36	1.9	15000	45	P	
75	**As**	2	**107.600**	ug/l	107.60	0.4	4500	74	P	
78	**Se**	2	**101.800**	ug/l	101.80	2.4	4500	74	P	
88	**Sr**	3	**17.220**	ug/l	17.22	0.7	4500	74	P	
95	**Mo**	3	**2080.000**	ug/l	2,080.00	1.8	4500	74	A	
107	**Ag**	3	**50.810**	ug/l	50.81	0.6	450	103	P	
111	**Cd**	3	**105.400**	ug/l	105.40	0.9	900	103	P	
118	**Sn**	3	**0.114**	ug/l	0.11	18.5	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	0.78	3.3	4500	103	P	
135	**Ba**	3	**0.431**	ug/l	0.43	4.8	4500	103	P	
200	**Hg**	3	**0.017**	ug/l	0.02	27.7	45	209	P	
205	**Tl**	3	**0.078**	ug/l	0.08	9.0	4500	209	P	
208	**Pb**	3	**0.279**	ug/l	0.28	2.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	136.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3614366	2.07	5119000	**70.6**	30	-	120	
45	Sc	1	290360	0.73	341400	**85.0**	30	-	120	
45	Sc	2	212811	1.33	273900	**77.7**	30	-	120	
74	Ge	1	231478	1.49	283600	**81.6**	30	-	120	
74	Ge	2	324757	1.58	422600	**76.8**	30	-	120	
74	Ge	3	1314066	0.95	1674000	**78.5**	30	-	120	
103	Rh	2	568103	0.93	814900	**69.7**	30	-	120	
103	Rh	3	1145083	0.24	1535000	**74.6**	30	-	120	
165	Ho	3	2756504	0.87	3236000	**85.2**	30	-	120	
175	Lu	3	3109269	1.99	3584000	**86.8**	30	-	120	
209	Bi	3	5852697	1.32	7619000	**76.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\023SMPL.D\023SMPL.D#
Date Acquired: May 27 2010 03:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.080**	ug/l	51.08	2.9	450	6	P	
23	**Na**	2	**5013.000**	ug/l	5,013.00	0.8	450000	45	A	
24	**Mg**	2	**5111.000**	ug/l	5,111.00	2.2	450000	45	A	
27	**Al**	2	**499.700**	ug/l	499.70	1.6	450000	45	P	
31	**P**	2	**4941.000**	ug/l	4,941.00	0.3	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	0.3	450000	45	A	
44	**Ca**	2	**4993.000**	ug/l	4,993.00	1.9	450000	45	P	
47	**Ti**	2	**50.110**	ug/l	50.11	2.1	4500	45	P	
51	**V**	2	**50.030**	ug/l	50.03	0.7	4500	45	P	
52	**Cr**	2	**50.410**	ug/l	50.41	0.9	4500	45	P	
54	**Fe**	2	**5021.000**	ug/l	5,021.00	0.7	450000	74	P	
55	**Mn**	2	**50.500**	ug/l	50.50	1.5	15000	45	P	
59	**Co**	2	**50.310**	ug/l	50.31	1.0	4500	45	P	
60	**Ni**	2	**51.360**	ug/l	51.36	2.3	15000	45	P	
63	**Cu**	2	**50.330**	ug/l	50.33	1.1	15000	45	P	
66	**Zn**	2	**50.490**	ug/l	50.49	2.4	15000	45	P	
75	**As**	2	**49.150**	ug/l	49.15	0.9	4500	74	P	
78	**Se**	2	**48.820**	ug/l	48.82	5.2	4500	74	P	
88	**Sr**	3	**51.350**	ug/l	51.35	1.3	4500	74	P	
95	**Mo**	3	**51.480**	ug/l	51.48	1.9	4500	74	P	
107	**Ag**	3	**50.170**	ug/l	50.17	1.9	450	103	P	
111	**Cd**	3	**50.400**	ug/l	50.40	4.9	900	103	P	
118	**Sn**	3	**50.190**	ug/l	50.19	4.3	4500	103	P	
121	**Sb**	3	**50.610**	ug/l	50.61	3.1	4500	103	P	
135	**Ba**	3	**50.660**	ug/l	50.66	1.9	4500	103	P	
200	**Hg**	3	**2.480**	ug/l	2.48	2.0	45	209	P	
205	**Tl**	3	**50.160**	ug/l	50.16	2.2	4500	209	P	
208	**Pb**	3	**51.170**	ug/l	51.17	1.6	4500	209	P	
238	**U**	3	**50.720**	ug/l	50.72	3.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4168630	0.36	5119000	**81.4**	30	-	120	
45	Sc	1	323138	1.47	341400	**94.7**	30	-	120	
45	Sc	2	247432	0.93	273900	**90.3**	30	-	120	
74	Ge	1	269525	1.71	283600	**95.0**	30	-	120	
74	Ge	2	392393	0.39	422600	**92.9**	30	-	120	
74	Ge	3	1517443	0.82	1674000	**90.6**	30	-	120	
103	Rh	2	735690	0.59	814900	**90.3**	30	-	120	
103	Rh	3	1404377	1.08	1535000	**91.5**	30	-	120	
165	Ho	3	3144437	0.57	3236000	**97.2**	30	-	120	
175	Lu	3	3513731	1.51	3584000	**98.0**	30	-	120	
209	Bi	3	7271915	0.19	7619000	**95.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\024SMPL.D\024SMPL.D#
Date Acquired: May 27 2010 03:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	75.4	450	6	P	
23	**Na**	2	**16.960**	ug/l	16.96	10.8	450000	45	P	
24	**Mg**	2	**2.085**	ug/l	2.09	5.6	450000	45	P	
27	**Al**	2	**0.092**	ug/l	0.09	219.0	450000	45	P	
31	**P**	2	**-2.667**	ug/l	-2.67	113.2	450000	45	P	
39	**K**	2	**11.510**	ug/l	11.51	20.2	450000	45	P	
44	**Ca**	2	**2.392**	ug/l	2.39	73.7	450000	45	P	
47	**Ti**	2	**0.197**	ug/l	0.20	148.0	4500	45	P	
51	**V**	2	**-0.068**	ug/l	-0.07	56.2	4500	45	P	
52	**Cr**	2	**-0.004**	ug/l	0.00	202.9	4500	45	P	
54	**Fe**	2	**2.445**	ug/l	2.45	34.0	450000	74	P	
55	**Mn**	2	**0.016**	ug/l	0.02	58.0	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	11.6	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	51.8	15000	45	P	
63	**Cu**	2	**0.051**	ug/l	0.05	52.0	15000	45	P	
66	**Zn**	2	**-0.017**	ug/l	-0.02	372.6	15000	45	P	
75	**As**	2	**-0.019**	ug/l	-0.02	99.0	4500	74	P	
78	**Se**	2	**-0.114**	ug/l	-0.11	490.5	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	57.0	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	77.4	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	71.7	450	103	P	
111	**Cd**	3	**0.014**	ug/l	0.01	148.6	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	7.4	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	36.0	4500	103	P	
135	**Ba**	3	**0.013**	ug/l	0.01	30.4	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.01	22.9	45	209	P	
205	**Tl**	3	**0.357**	ug/l	0.36	7.3	4500	209	P	
208	**Pb**	3	**0.008**	ug/l	0.01	78.1	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	63.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4234243	2.23	5119000	**82.7**	30	-	120	
45	Sc	1	323218	0.84	341400	**94.7**	30	-	120	
45	Sc	2	249235	0.95	273900	**91.0**	30	-	120	
74	Ge	1	272851	0.73	283600	**96.2**	30	-	120	
74	Ge	2	394172	1.62	422600	**93.3**	30	-	120	
74	Ge	3	1507027	0.83	1674000	**90.0**	30	-	120	
103	Rh	2	764914	1.08	814900	**93.9**	30	-	120	
103	Rh	3	1420567	0.08	1535000	**92.5**	30	-	120	
165	Ho	3	3118006	0.89	3236000	**96.4**	30	-	120	
175	Lu	3	3466127	0.23	3584000	**96.7**	30	-	120	
209	Bi	3	7406851	0.59	7619000	**97.2**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\025SMPL.D\025SMPL.D#
Date Acquired: May 27 2010 03:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	78.3	450	6	P	
23	**Na**	2	**13.070**	ug/l	130.70	6.8	450000	45	P	
24	**Mg**	2	**0.408**	ug/l	4.08	51.8	450000	45	P	
27	**Al**	2	**-0.191**	ug/l	-1.91	26.8	450000	45	P	
31	**P**	2	**-3.925**	ug/l	-39.25	77.4	450000	45	P	
39	**K**	2	**13.410**	ug/l	134.10	9.9	450000	45	P	
44	**Ca**	2	**0.573**	ug/l	5.73	266.0	450000	45	P	
47	**Ti**	2	**0.013**	ug/l	0.13	79.4	4500	45	P	
51	**V**	2	**-0.073**	ug/l	-0.73	30.5	4500	45	P	
52	**Cr**	2	**0.007**	ug/l	0.07	493.9	4500	45	P	
54	**Fe**	2	**0.258**	ug/l	2.58	341.8	450000	74	P	
55	**Mn**	2	**-0.004**	ug/l	-0.04	33.2	15000	45	P	
59	**Co**	2	**0.004**	ug/l	0.04	27.4	4500	45	P	
60	**Ni**	2	**-0.002**	ug/l	-0.02	1162.8	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.19	77.5	15000	45	P	
66	**Zn**	2	**-0.023**	ug/l	-0.23	177.7	15000	45	P	
75	**As**	2	**-0.035**	ug/l	-0.35	88.5	4500	74	P	
78	**Se**	2	**-0.595**	ug/l	-5.95	47.0	4500	74	P	
88	**Sr**	3	**0.001**	ug/l	0.01	603.8	4500	74	P	
95	**Mo**	3	**-0.003**	ug/l	-0.03	214.8	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	421.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.06	188.8	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	220.2	4500	103	P	
121	**Sb**	3	**0.001**	ug/l	0.01	306.4	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	126.3	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.10	27.5	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	4.1	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	297.9	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	137.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4302567	1.52	5119000	**84.1**	30	-	120	
45	Sc	1	322698	1.90	341400	**94.5**	30	-	120	
45	Sc	2	250481	0.99	273900	**91.4**	30	-	120	
74	Ge	1	272217	0.95	283600	**96.0**	30	-	120	
74	Ge	2	400340	1.72	422600	**94.7**	30	-	120	
74	Ge	3	1513756	0.36	1674000	**90.4**	30	-	120	
103	Rh	2	767706	1.11	814900	**94.2**	30	-	120	
103	Rh	3	1435486	1.99	1535000	**93.5**	30	-	120	
165	Ho	3	3088484	0.72	3236000	**95.4**	30	-	120	
175	Lu	3	3481929	0.45	3584000	**97.2**	30	-	120	
209	Bi	3	7381481	0.55	7619000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\026SMPL.D\026SMPL.D#
Date Acquired: May 27 2010 03:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.381**	ug/l	19.07	8.0	450	6	P	
23	**Na**	2	**32.990**	ug/l	1,649.50	9.4	450000	45	P	
24	**Mg**	2	**13190.000**	ug/l	659,500.00	1.1	450000	45	A	
27	**Al**	2	**12050.000**	ug/l	602,500.00	1.5	450000	45	A	
31	**P**	2	**230.200**	ug/l	11,510.00	4.4	450000	45	P	
39	**K**	2	**547.500**	ug/l	27,375.00	2.8	450000	45	P	
44	**Ca**	2	**5885.000**	ug/l	294,250.00	1.2	450000	45	P	
47	**Ti**	2	**86.270**	ug/l	4,313.50	1.6	4500	45	P	
51	**V**	2	**35.270**	ug/l	1,763.50	1.8	4500	45	P	
52	**Cr**	2	**103.600**	ug/l	5,180.00	0.6	4500	45	P	
54	**Fe**	2	**19620.000**	ug/l	981,000.00	3.2	450000	74	A	
55	**Mn**	2	**349.400**	ug/l	17,470.00	0.9	15000	45	P	
59	**Co**	2	**12.590**	ug/l	629.50	0.5	4500	45	P	
60	**Ni**	2	**128.500**	ug/l	6,425.00	1.6	15000	45	P	
63	**Cu**	2	**22.400**	ug/l	1,120.00	1.2	15000	45	P	
66	**Zn**	2	**36.500**	ug/l	1,825.00	2.6	15000	45	P	
75	**As**	2	**4.689**	ug/l	234.45	5.8	4500	74	P	
78	**Se**	2	**0.116**	ug/l	5.79	306.5	4500	74	P	
88	**Sr**	3	**26.150**	ug/l	1,307.50	2.6	4500	74	P	
95	**Mo**	3	**0.551**	ug/l	27.56	4.8	4500	74	P	
107	**Ag**	3	**0.058**	ug/l	2.91	17.9	450	103	P	
111	**Cd**	3	**0.099**	ug/l	4.94	6.2	900	103	P	
118	**Sn**	3	**0.288**	ug/l	14.39	5.1	4500	103	P	
121	**Sb**	3	**0.345**	ug/l	17.26	6.1	4500	103	P	
135	**Ba**	3	**150.000**	ug/l	7,500.00	1.1	4500	103	P	
200	**Hg**	3	**0.061**	ug/l	3.06	4.8	45	209	P	
205	**Tl**	3	**0.137**	ug/l	6.85	6.4	4500	209	P	
208	**Pb**	3	**5.571**	ug/l	278.55	0.8	4500	209	P	
238	**U**	3	**0.144**	ug/l	7.19	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4830930	0.32	5119000	**94.4**	30	-	120	
45	Sc	1	337100	0.40	341400	**98.7**	30	-	120	
45	Sc	2	269776	0.47	273900	**98.5**	30	-	120	
74	Ge	1	273911	0.92	283600	**96.6**	30	-	120	
74	Ge	2	401110	1.49	422600	**94.9**	30	-	120	
74	Ge	3	1617163	1.90	1674000	**96.6**	30	-	120	
103	Rh	2	751741	1.76	814900	**92.2**	30	-	120	
103	Rh	3	1472745	1.04	1535000	**95.9**	30	-	120	
165	Ho	3	3153832	0.66	3236000	**97.5**	30	-	120	
175	Lu	3	3544017	1.70	3584000	**98.9**	30	-	120	
209	Bi	3	7218371	0.23	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\027SMPL.D\027SMPL.D#
Date Acquired: May 27 2010 03:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.758**	ug/l	17.58	1.9	450	6	P	
23	**Na**	2	**118.900**	ug/l	1,189.00	0.3	450000	45	P	
24	**Mg**	2	**54270.000**	ug/l	542,700.00	0.7	450000	45	A	
27	**Al**	2	**49540.000**	ug/l	495,400.00	1.9	450000	45	A	
31	**P**	2	**973.600**	ug/l	9,736.00	0.2	450000	45	P	
39	**K**	2	**2130.000**	ug/l	21,300.00	1.6	450000	45	A	
44	**Ca**	2	**24750.000**	ug/l	247,500.00	0.9	450000	45	P	
47	**Ti**	2	**362.500**	ug/l	3,625.00	0.9	4500	45	P	
51	**V**	2	**150.300**	ug/l	1,503.00	0.8	4500	45	P	
52	**Cr**	2	**434.000**	ug/l	4,340.00	0.4	4500	45	A	
54	**Fe**	2	**85210.000**	ug/l	852,100.00	0.8	450000	74	A	
55	**Mn**	2	**1412.000**	ug/l	14,120.00	0.7	15000	45	A	
59	**Co**	2	**51.970**	ug/l	519.70	0.6	4500	45	P	
60	**Ni**	2	**526.200**	ug/l	5,262.00	0.8	15000	45	P	
63	**Cu**	2	**91.940**	ug/l	919.40	0.6	15000	45	P	
66	**Zn**	2	**148.000**	ug/l	1,480.00	1.2	15000	45	P	
75	**As**	2	**21.880**	ug/l	218.80	0.4	4500	74	P	
78	**Se**	2	**1.640**	ug/l	16.40	106.6	4500	74	P	
88	**Sr**	3	**117.900**	ug/l	1,179.00	0.5	4500	74	A	
95	**Mo**	3	**2.644**	ug/l	26.44	4.7	4500	74	P	
107	**Ag**	3	**0.290**	ug/l	2.90	5.8	450	103	P	
111	**Cd**	3	**0.367**	ug/l	3.67	2.1	900	103	P	
118	**Sn**	3	**1.412**	ug/l	14.12	5.0	4500	103	P	
121	**Sb**	3	**1.533**	ug/l	15.33	1.9	4500	103	P	
135	**Ba**	3	**692.500**	ug/l	6,925.00	2.2	4500	103	P	
200	**Hg**	3	**0.247**	ug/l	2.47	3.8	45	209	P	
205	**Tl**	3	**0.299**	ug/l	2.99	4.2	4500	209	P	
208	**Pb**	3	**25.120**	ug/l	251.20	1.4	4500	209	P	
238	**U**	3	**0.674**	ug/l	6.74	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4024254	0.07	5119000	**78.6**	30	-	120	
45	Sc	1	336928	1.51	341400	**98.7**	30	-	120	
45	Sc	2	276919	0.45	273900	**101.1**	30	-	120	
74	Ge	1	249385	1.39	283600	**87.9**	30	-	120	
74	Ge	2	384300	0.87	422600	**90.9**	30	-	120	
74	Ge	3	1505700	1.33	1674000	**89.9**	30	-	120	
103	Rh	2	711391	0.85	814900	**87.3**	30	-	120	
103	Rh	3	1355482	1.29	1535000	**88.3**	30	-	120	
165	Ho	3	3130435	0.29	3236000	**96.7**	30	-	120	
175	Lu	3	3466114	1.35	3584000	**96.7**	30	-	120	
209	Bi	3	6875665	0.62	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\028SMPL.D\028SMPL.D#
Date Acquired: May 27 2010 03:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.737**	ug/l	17.37	3.5	450	6	P	
23	**Na**	2	**122.000**	ug/l	1,220.00	2.3	450000	45	P	
24	**Mg**	2	**54320.000**	ug/l	543,200.00	1.0	450000	45	A	
27	**Al**	2	**49290.000**	ug/l	492,900.00	0.7	450000	45	A	
31	**P**	2	**957.400**	ug/l	9,574.00	2.2	450000	45	P	
39	**K**	2	**2226.000**	ug/l	22,260.00	1.9	450000	45	A	
44	**Ca**	2	**24420.000**	ug/l	244,200.00	0.3	450000	45	P	
47	**Ti**	2	**359.400**	ug/l	3,594.00	0.6	4500	45	P	
51	**V**	2	**148.600**	ug/l	1,486.00	1.1	4500	45	P	
52	**Cr**	2	**419.900**	ug/l	4,199.00	1.2	4500	45	A	
54	**Fe**	2	**84270.000**	ug/l	842,700.00	1.0	450000	74	A	
55	**Mn**	2	**1377.000**	ug/l	13,770.00	0.8	15000	45	A	
59	**Co**	2	**51.670**	ug/l	516.70	0.1	4500	45	P	
60	**Ni**	2	**523.700**	ug/l	5,237.00	0.4	15000	45	P	
63	**Cu**	2	**91.340**	ug/l	913.40	1.8	15000	45	P	
66	**Zn**	2	**147.100**	ug/l	1,471.00	1.3	15000	45	P	
75	**As**	2	**21.780**	ug/l	217.80	1.4	4500	74	P	
78	**Se**	2	**0.934**	ug/l	9.34	54.4	4500	74	P	
88	**Sr**	3	**115.600**	ug/l	1,156.00	2.5	4500	74	A	
95	**Mo**	3	**2.620**	ug/l	26.20	4.0	4500	74	P	
107	**Ag**	3	**0.273**	ug/l	2.73	1.7	450	103	P	
111	**Cd**	3	**0.424**	ug/l	4.24	12.7	900	103	P	
118	**Sn**	3	**1.390**	ug/l	13.90	8.5	4500	103	P	
121	**Sb**	3	**1.589**	ug/l	15.89	2.3	4500	103	P	
135	**Ba**	3	**694.100**	ug/l	6,941.00	2.3	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	2.39	3.3	45	209	P	
205	**Tl**	3	**0.290**	ug/l	2.90	1.6	4500	209	P	
208	**Pb**	3	**25.090**	ug/l	250.90	0.4	4500	209	P	
238	**U**	3	**0.671**	ug/l	6.71	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3934460	0.81	5119000	**76.9**	30	-	120	
45	Sc	1	301888	1.46	341400	**88.4**	30	-	120	
45	Sc	2	271359	0.62	273900	**99.1**	30	-	120	
74	Ge	1	224847	0.84	283600	**79.3**	30	-	120	
74	Ge	2	376453	1.08	422600	**89.1**	30	-	120	
74	Ge	3	1485643	1.36	1674000	**88.7**	30	-	120	
103	Rh	2	700040	0.93	814900	**85.9**	30	-	120	
103	Rh	3	1328657	1.55	1535000	**86.6**	30	-	120	
165	Ho	3	3116708	0.57	3236000	**96.3**	30	-	120	
175	Lu	3	3469416	0.45	3584000	**96.8**	30	-	120	
209	Bi	3	6806118	0.64	7619000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\029SMPL.D\029SMPL.D#
Date Acquired: May 27 2010 03:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.176**	ug/l	108.80	2.9	450	6	P	
23	**Na**	2	**406.000**	ug/l	20,300.00	0.4	450000	45	P	
24	**Mg**	2	**10770.000**	ug/l	538,500.00	1.2	450000	45	A	
27	**Al**	2	**9756.000**	ug/l	487,800.00	1.4	450000	45	A	
31	**P**	2	**550.800**	ug/l	27,540.00	2.7	450000	45	P	
39	**K**	2	**806.900**	ug/l	40,345.00	1.3	450000	45	P	
44	**Ca**	2	**5007.000**	ug/l	250,350.00	0.9	450000	45	P	
47	**Ti**	2	**156.000**	ug/l	7,800.00	1.3	4500	45	P	
51	**V**	2	**46.370**	ug/l	2,318.50	0.6	4500	45	P	
52	**Cr**	2	**90.090**	ug/l	4,504.50	0.5	4500	45	P	
54	**Fe**	2	**16010.000**	ug/l	800,500.00	2.4	450000	74	A	
55	**Mn**	2	**295.700**	ug/l	14,785.00	0.4	15000	45	P	
59	**Co**	2	**28.270**	ug/l	1,413.50	0.4	4500	45	P	
60	**Ni**	2	**120.200**	ug/l	6,010.00	1.3	15000	45	P	
63	**Cu**	2	**26.950**	ug/l	1,347.50	1.4	15000	45	P	
66	**Zn**	2	**47.450**	ug/l	2,372.50	2.1	15000	45	P	
75	**As**	2	**76.660**	ug/l	3,833.00	1.5	4500	74	P	
78	**Se**	2	**78.590**	ug/l	3,929.50	2.3	4500	74	P	
88	**Sr**	3	**19.940**	ug/l	997.00	1.4	4500	74	P	
95	**Mo**	3	**93.320**	ug/l	4,666.00	0.9	4500	74	P	
107	**Ag**	3	**11.320**	ug/l	566.00	1.3	450	103	P	
111	**Cd**	3	**1.924**	ug/l	96.20	4.1	900	103	P	
118	**Sn**	3	**92.850**	ug/l	4,642.50	1.1	4500	103	P	
121	**Sb**	3	**55.160**	ug/l	2,758.00	0.6	4500	103	P	
135	**Ba**	3	**190.500**	ug/l	9,525.00	2.0	4500	103	P	
200	**Hg**	3	**0.952**	ug/l	47.58	2.5	45	209	P	
205	**Tl**	3	**75.110**	ug/l	3,755.50	1.0	4500	209	A	
208	**Pb**	3	**23.690**	ug/l	1,184.50	0.7	4500	209	P	
238	**U**	3	**0.111**	ug/l	5.57	6.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4904306	0.39	5119000	**95.8**	30	-	120	
45	Sc	1	287280	0.19	341400	**84.1**	30	-	120	
45	Sc	2	276555	0.75	273900	**101.0**	30	-	120	
74	Ge	1	231158	0.57	283600	**81.5**	30	-	120	
74	Ge	2	414241	1.12	422600	**98.0**	30	-	120	
74	Ge	3	1659507	1.17	1674000	**99.1**	30	-	120	
103	Rh	2	780620	0.75	814900	**95.8**	30	-	120	
103	Rh	3	1500686	0.83	1535000	**97.8**	30	-	120	
165	Ho	3	3194632	0.26	3236000	**98.7**	30	-	120	
175	Lu	3	3575095	0.27	3584000	**99.8**	30	-	120	
209	Bi	3	7343423	0.72	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\030SMPL.D\030SMPL.D#
Date Acquired: May 27 2010 03:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.221**	ug/l	111.05	1.9	450	6	P	
23	**Na**	2	**426.300**	ug/l	21,315.00	1.4	450000	45	P	
24	**Mg**	2	**11360.000**	ug/l	568,000.00	0.7	450000	45	A	
27	**Al**	2	**10240.000**	ug/l	512,000.00	0.9	450000	45	A	
31	**P**	2	**574.800**	ug/l	28,740.00	2.4	450000	45	P	
39	**K**	2	**847.400**	ug/l	42,370.00	1.2	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	0.3	450000	45	P	
47	**Ti**	2	**166.900**	ug/l	8,345.00	1.7	4500	45	P	
51	**V**	2	**48.610**	ug/l	2,430.50	0.7	4500	45	P	
52	**Cr**	2	**94.020**	ug/l	4,701.00	0.1	4500	45	P	
54	**Fe**	2	**16560.000**	ug/l	828,000.00	0.8	450000	74	A	
55	**Mn**	2	**310.800**	ug/l	15,540.00	0.8	15000	45	P	
59	**Co**	2	**29.880**	ug/l	1,494.00	0.4	4500	45	P	
60	**Ni**	2	**128.600**	ug/l	6,430.00	0.6	15000	45	P	
63	**Cu**	2	**28.740**	ug/l	1,437.00	1.0	15000	45	P	
66	**Zn**	2	**49.660**	ug/l	2,483.00	2.5	15000	45	P	
75	**As**	2	**78.750**	ug/l	3,937.50	0.6	4500	74	P	
78	**Se**	2	**80.750**	ug/l	4,037.50	8.5	4500	74	P	
88	**Sr**	3	**20.660**	ug/l	1,033.00	2.3	4500	74	P	
95	**Mo**	3	**96.600**	ug/l	4,830.00	2.9	4500	74	P	
107	**Ag**	3	**11.770**	ug/l	588.50	1.7	450	103	P	
111	**Cd**	3	**1.997**	ug/l	99.85	11.6	900	103	P	
118	**Sn**	3	**96.150**	ug/l	4,807.50	2.4	4500	103	P	
121	**Sb**	3	**56.900**	ug/l	2,845.00	1.4	4500	103	P	
135	**Ba**	3	**195.700**	ug/l	9,785.00	1.2	4500	103	P	
200	**Hg**	3	**1.025**	ug/l	51.25	3.6	45	209	P	
205	**Tl**	3	**77.580**	ug/l	3,879.00	1.4	4500	209	A	
208	**Pb**	3	**24.520**	ug/l	1,226.00	1.4	4500	209	P	
238	**U**	3	**0.113**	ug/l	5.64	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5126116	1.16	5119000	**100.1**	30	-	120	
45	Sc	1	284043	1.55	341400	**83.2**	30	-	120	
45	Sc	2	275410	0.89	273900	**100.6**	30	-	120	
74	Ge	1	231648	1.71	283600	**81.7**	30	-	120	
74	Ge	2	420074	1.17	422600	**99.4**	30	-	120	
74	Ge	3	1674039	0.21	1674000	**100.0**	30	-	120	
103	Rh	2	777870	1.36	814900	**95.5**	30	-	120	
103	Rh	3	1515304	0.73	1535000	**98.7**	30	-	120	
165	Ho	3	3243115	1.13	3236000	**100.2**	30	-	120	
175	Lu	3	3592616	0.67	3584000	**100.2**	30	-	120	
209	Bi	3	7343785	0.11	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\031SMPL.D\031SMPL.D#
Date Acquired: May 27 2010 04:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.235**	ug/l	111.75	1.1	450	6	P	
23	**Na**	2	**425.300**	ug/l	21,265.00	1.2	450000	45	P	
24	**Mg**	2	**11290.000**	ug/l	564,500.00	0.9	450000	45	A	
27	**Al**	2	**10260.000**	ug/l	513,000.00	1.5	450000	45	A	
31	**P**	2	**567.300**	ug/l	28,365.00	3.8	450000	45	P	
39	**K**	2	**849.400**	ug/l	42,470.00	1.7	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	1.4	450000	45	P	
47	**Ti**	2	**165.400**	ug/l	8,270.00	1.0	4500	45	P	
51	**V**	2	**49.480**	ug/l	2,474.00	0.3	4500	45	P	
52	**Cr**	2	**94.000**	ug/l	4,700.00	0.7	4500	45	P	
54	**Fe**	2	**16650.000**	ug/l	832,500.00	1.4	450000	74	A	
55	**Mn**	2	**313.000**	ug/l	15,650.00	0.7	15000	45	P	
59	**Co**	2	**29.900**	ug/l	1,495.00	0.7	4500	45	P	
60	**Ni**	2	**128.900**	ug/l	6,445.00	1.3	15000	45	P	
63	**Cu**	2	**28.670**	ug/l	1,433.50	1.4	15000	45	P	
66	**Zn**	2	**48.310**	ug/l	2,415.50	2.2	15000	45	P	
75	**As**	2	**81.640**	ug/l	4,082.00	0.6	4500	74	P	
78	**Se**	2	**78.250**	ug/l	3,912.50	5.0	4500	74	P	
88	**Sr**	3	**20.450**	ug/l	1,022.50	3.4	4500	74	P	
95	**Mo**	3	**97.150**	ug/l	4,857.50	2.8	4500	74	P	
107	**Ag**	3	**11.760**	ug/l	588.00	2.0	450	103	P	
111	**Cd**	3	**1.986**	ug/l	99.30	3.7	900	103	P	
118	**Sn**	3	**96.320**	ug/l	4,816.00	2.3	4500	103	P	
121	**Sb**	3	**57.450**	ug/l	2,872.50	1.5	4500	103	P	
135	**Ba**	3	**197.000**	ug/l	9,850.00	2.2	4500	103	P	
200	**Hg**	3	**1.024**	ug/l	51.20	1.7	45	209	P	
205	**Tl**	3	**77.600**	ug/l	3,880.00	2.7	4500	209	A	
208	**Pb**	3	**24.560**	ug/l	1,228.00	2.2	4500	209	P	
238	**U**	3	**0.110**	ug/l	5.48	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5198248	0.93	5119000	**101.5**	30	-	120	
45	Sc	1	281376	0.71	341400	**82.4**	30	-	120	
45	Sc	2	279278	0.57	273900	**102.0**	30	-	120	
74	Ge	1	232584	0.76	283600	**82.0**	30	-	120	
74	Ge	2	425146	1.36	422600	**100.6**	30	-	120	
74	Ge	3	1709033	0.99	1674000	**102.1**	30	-	120	
103	Rh	2	788351	0.35	814900	**96.7**	30	-	120	
103	Rh	3	1532162	0.69	1535000	**99.8**	30	-	120	
165	Ho	3	3267069	0.55	3236000	**101.0**	30	-	120	
175	Lu	3	3614360	1.13	3584000	**100.8**	30	-	120	
209	Bi	3	7442153	1.10	7619000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\032SMPL.D\032SMPL.D#
Date Acquired: May 27 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.033**	ug/l	101.65	1.9	450	6	P	
23	**Na**	2	**416.800**	ug/l	20,840.00	0.9	450000	45	P	
24	**Mg**	2	**420.500**	ug/l	21,025.00	1.0	450000	45	P	
27	**Al**	2	**83.190**	ug/l	4,159.50	1.4	450000	45	P	
31	**P**	2	**386.000**	ug/l	19,300.00	1.6	450000	45	P	
39	**K**	2	**421.300**	ug/l	21,065.00	1.1	450000	45	P	
44	**Ca**	2	**389.300**	ug/l	19,465.00	5.2	450000	45	P	
47	**Ti**	2	**98.160**	ug/l	4,908.00	1.3	4500	45	P	
51	**V**	2	**19.740**	ug/l	987.00	2.4	4500	45	P	
52	**Cr**	2	**7.960**	ug/l	398.00	3.2	4500	45	P	
54	**Fe**	2	**453.700**	ug/l	22,685.00	1.5	450000	74	P	
55	**Mn**	2	**20.200**	ug/l	1,010.00	1.8	15000	45	P	
59	**Co**	2	**20.310**	ug/l	1,015.50	0.3	4500	45	P	
60	**Ni**	2	**20.610**	ug/l	1,030.50	4.1	15000	45	P	
63	**Cu**	2	**10.400**	ug/l	520.00	0.7	15000	45	P	
66	**Zn**	2	**20.270**	ug/l	1,013.50	2.0	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**78.000**	ug/l	3,900.00	5.3	4500	74	P	
88	**Sr**	3	**0.005**	ug/l	0.27	36.7	4500	74	P	
95	**Mo**	3	**101.800**	ug/l	5,090.00	1.1	4500	74	P	
107	**Ag**	3	**11.880**	ug/l	594.00	0.9	450	103	P	
111	**Cd**	3	**1.898**	ug/l	94.90	4.0	900	103	P	
118	**Sn**	3	**99.940**	ug/l	4,997.00	0.6	4500	103	P	
121	**Sb**	3	**56.670**	ug/l	2,833.50	1.1	4500	103	P	
135	**Ba**	3	**78.360**	ug/l	3,918.00	1.0	4500	103	P	
200	**Hg**	3	**0.971**	ug/l	48.54	1.3	45	209	P	
205	**Tl**	3	**78.190**	ug/l	3,909.50	1.0	4500	209	A	
208	**Pb**	3	**20.260**	ug/l	1,013.00	0.3	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4562239	0.38	5119000	**89.1**	30	-	120	
45	Sc	1	266341	0.99	341400	**78.0**	30	-	120	
45	Sc	2	266800	0.84	273900	**97.4**	30	-	120	
74	Ge	1	222565	1.66	283600	**78.5**	30	-	120	
74	Ge	2	422290	0.05	422600	**99.9**	30	-	120	
74	Ge	3	1632382	0.86	1674000	**97.5**	30	-	120	
103	Rh	2	802949	1.09	814900	**98.5**	30	-	120	
103	Rh	3	1527966	1.53	1535000	**99.5**	30	-	120	
165	Ho	3	3291560	0.89	3236000	**101.7**	30	-	120	
175	Lu	3	3640705	0.58	3584000	**101.6**	30	-	120	
209	Bi	3	7620562	1.14	7619000	**100.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\033SMPL.D\033SMPL.D#
Date Acquired: May 27 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.983**	ug/l	99.15	5.8	450	6	P	
23	**Na**	2	**417.000**	ug/l	20,850.00	0.9	450000	45	P	
24	**Mg**	2	**417.500**	ug/l	20,875.00	0.4	450000	45	P	
27	**Al**	2	**78.390**	ug/l	3,919.50	1.4	450000	45	P	
31	**P**	2	**366.700**	ug/l	18,335.00	5.1	450000	45	P	
39	**K**	2	**417.500**	ug/l	20,875.00	2.0	450000	45	P	
44	**Ca**	2	**379.500**	ug/l	18,975.00	3.2	450000	45	P	
47	**Ti**	2	**97.010**	ug/l	4,850.50	1.6	4500	45	P	
51	**V**	2	**19.880**	ug/l	994.00	0.8	4500	45	P	
52	**Cr**	2	**8.023**	ug/l	401.15	1.3	4500	45	P	
54	**Fe**	2	**447.600**	ug/l	22,380.00	0.7	450000	74	P	
55	**Mn**	2	**20.240**	ug/l	1,012.00	1.4	15000	45	P	
59	**Co**	2	**20.500**	ug/l	1,025.00	1.4	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	0.6	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.4	15000	45	P	
66	**Zn**	2	**19.920**	ug/l	996.00	5.1	15000	45	P	
75	**As**	2	**79.280**	ug/l	3,964.00	0.9	4500	74	P	
78	**Se**	2	**81.530**	ug/l	4,076.50	1.0	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.38	73.3	4500	74	P	
95	**Mo**	3	**100.500**	ug/l	5,025.00	1.6	4500	74	P	
107	**Ag**	3	**12.010**	ug/l	600.50	2.2	450	103	P	
111	**Cd**	3	**1.903**	ug/l	95.15	5.0	900	103	P	
118	**Sn**	3	**99.200**	ug/l	4,960.00	3.7	4500	103	P	
121	**Sb**	3	**56.450**	ug/l	2,822.50	3.1	4500	103	P	
135	**Ba**	3	**76.710**	ug/l	3,835.50	3.6	4500	103	P	
200	**Hg**	3	**0.944**	ug/l	47.20	1.2	45	209	P	
205	**Tl**	3	**77.150**	ug/l	3,857.50	3.9	4500	209	A	
208	**Pb**	3	**19.940**	ug/l	997.00	3.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4561005	2.98	5119000	**89.1**	30	-	120	
45	Sc	1	269336	0.50	341400	**78.9**	30	-	120	
45	Sc	2	267037	0.97	273900	**97.5**	30	-	120	
74	Ge	1	225033	0.96	283600	**79.3**	30	-	120	
74	Ge	2	424297	0.80	422600	**100.4**	30	-	120	
74	Ge	3	1642762	1.09	1674000	**98.1**	30	-	120	
103	Rh	2	812728	1.54	814900	**99.7**	30	-	120	
103	Rh	3	1533358	0.61	1535000	**99.9**	30	-	120	
165	Ho	3	3278475	1.50	3236000	**101.3**	30	-	120	
175	Lu	3	3619586	1.59	3584000	**101.0**	30	-	120	
209	Bi	3	7699450	0.50	7619000	**101.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\034SMPL.D\034SMPL.D#
Date Acquired: May 27 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**96.400**	ug/l	1,928.00	1.3	450	6	P	
23	**Na**	2	**333.000**	ug/l	6,660.00	1.8	450000	45	P	
24	**Mg**	2	**2580.000**	ug/l	51,600.00	0.3	450000	45	A	
27	**Al**	2	**6251.000**	ug/l	125,020.00	1.0	450000	45	A	
31	**P**	2	**430.200**	ug/l	8,604.00	7.2	450000	45	P	
39	**K**	2	**2449.000**	ug/l	48,980.00	0.2	450000	45	A	
44	**Ca**	2	**5814.000**	ug/l	116,280.00	0.6	450000	45	P	
47	**Ti**	2	**280.300**	ug/l	5,606.00	1.0	4500	45	P	
51	**V**	2	**58.550**	ug/l	1,171.00	1.2	4500	45	P	
52	**Cr**	2	**74.090**	ug/l	1,481.80	1.9	4500	45	P	
54	**Fe**	2	**10870.000**	ug/l	217,400.00	0.8	450000	74	A	
55	**Mn**	2	**217.500**	ug/l	4,350.00	0.6	15000	45	P	
59	**Co**	2	**71.910**	ug/l	1,438.20	0.8	4500	45	P	
60	**Ni**	2	**107.200**	ug/l	2,144.00	1.1	15000	45	P	
63	**Cu**	2	**41.140**	ug/l	822.80	2.5	15000	45	P	
66	**Zn**	2	**215.100**	ug/l	4,302.00	1.6	15000	45	P	
75	**As**	2	**136.600**	ug/l	2,732.00	1.2	4500	74	P	
78	**Se**	2	**92.450**	ug/l	1,849.00	2.2	4500	74	P	
88	**Sr**	3	**72.980**	ug/l	1,459.60	1.4	4500	74	P	
95	**Mo**	3	**67.420**	ug/l	1,348.40	1.7	4500	74	P	
107	**Ag**	3	**21.430**	ug/l	428.60	0.9	450	103	P	
111	**Cd**	3	**40.270**	ug/l	805.40	1.0	900	103	P	
118	**Sn**	3	**99.500**	ug/l	1,990.00	0.6	4500	103	P	
121	**Sb**	3	**84.710**	ug/l	1,694.20	0.1	4500	103	P	
135	**Ba**	3	**330.000**	ug/l	6,600.00	0.7	4500	103	P	
200	**Hg**	3	**2.712**	ug/l	54.24	3.0	45	209	P	
205	**Tl**	3	**104.800**	ug/l	2,096.00	1.1	4500	209	A	
208	**Pb**	3	**131.100**	ug/l	2,622.00	1.6	4500	209	A	
238	**U**	3	**1.039**	ug/l	20.78	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4758340	1.60	5119000	**93.0**	30	-	120	
45	Sc	1	273069	1.95	341400	**80.0**	30	-	120	
45	Sc	2	277274	0.52	273900	**101.2**	30	-	120	
74	Ge	1	226619	1.58	283600	**79.9**	30	-	120	
74	Ge	2	426582	0.91	422600	**100.9**	30	-	120	
74	Ge	3	1701036	0.51	1674000	**101.6**	30	-	120	
103	Rh	2	801882	0.70	814900	**98.4**	30	-	120	
103	Rh	3	1557361	1.68	1535000	**101.5**	30	-	120	
165	Ho	3	3316396	0.06	3236000	**102.5**	30	-	120	
175	Lu	3	3684963	0.63	3584000	**102.8**	30	-	120	
209	Bi	3	7556078	0.28	7619000	**99.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\035SMPL.D\035SMPL.D#
Date Acquired: May 27 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.000**	ug/l	50.00	2.9	450	6	P	
23	**Na**	2	**4940.000**	ug/l	4,940.00	1.3	450000	45	A	
24	**Mg**	2	**5093.000**	ug/l	5,093.00	1.1	450000	45	A	
27	**Al**	2	**503.700**	ug/l	503.70	1.3	450000	45	P	
31	**P**	2	**4997.000**	ug/l	4,997.00	1.5	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	1.9	450000	45	A	
44	**Ca**	2	**5055.000**	ug/l	5,055.00	1.8	450000	45	P	
47	**Ti**	2	**51.120**	ug/l	51.12	0.4	4500	45	P	
51	**V**	2	**50.100**	ug/l	50.10	1.5	4500	45	P	
52	**Cr**	2	**50.390**	ug/l	50.39	0.8	4500	45	P	
54	**Fe**	2	**5098.000**	ug/l	5,098.00	0.7	450000	74	P	
55	**Mn**	2	**50.730**	ug/l	50.73	0.8	15000	45	P	
59	**Co**	2	**50.750**	ug/l	50.75	1.0	4500	45	P	
60	**Ni**	2	**51.470**	ug/l	51.47	1.8	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	51.06	3.1	15000	45	P	
66	**Zn**	2	**50.550**	ug/l	50.55	1.5	15000	45	P	
75	**As**	2	**51.040**	ug/l	51.04	1.6	4500	74	P	
78	**Se**	2	**47.710**	ug/l	47.71	3.9	4500	74	P	
88	**Sr**	3	**49.970**	ug/l	49.97	2.3	4500	74	P	
95	**Mo**	3	**50.350**	ug/l	50.35	4.4	4500	74	P	
107	**Ag**	3	**49.920**	ug/l	49.92	1.2	450	103	P	
111	**Cd**	3	**49.350**	ug/l	49.35	4.0	900	103	P	
118	**Sn**	3	**49.190**	ug/l	49.19	2.2	4500	103	P	
121	**Sb**	3	**49.760**	ug/l	49.76	2.1	4500	103	P	
135	**Ba**	3	**49.200**	ug/l	49.20	1.7	4500	103	P	
200	**Hg**	3	**2.529**	ug/l	2.53	2.9	45	209	P	
205	**Tl**	3	**51.300**	ug/l	51.30	2.7	4500	209	P	
208	**Pb**	3	**51.220**	ug/l	51.22	1.2	4500	209	P	
238	**U**	3	**49.910**	ug/l	49.91	1.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4705420	0.32	5119000	**91.9**	30	-	120	
45	Sc	1	270533	0.98	341400	**79.2**	30	-	120	
45	Sc	2	269996	1.49	273900	**98.6**	30	-	120	
74	Ge	1	227472	0.38	283600	**80.2**	30	-	120	
74	Ge	2	423686	1.31	422600	**100.3**	30	-	120	
74	Ge	3	1674997	1.45	1674000	**100.1**	30	-	120	
103	Rh	2	797506	1.58	814900	**97.9**	30	-	120	
103	Rh	3	1522382	0.51	1535000	**99.2**	30	-	120	
165	Ho	3	3230209	1.14	3236000	**99.8**	30	-	120	
175	Lu	3	3672269	1.21	3584000	**102.5**	30	-	120	
209	Bi	3	7496889	0.21	7619000	**98.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\036SMPL.D\036SMPL.D#
Date Acquired: May 27 2010 04:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	5.9	450	6	P	
23	**Na**	2	**3.610**	ug/l	3.61	20.5	450000	45	P	
24	**Mg**	2	**2.057**	ug/l	2.06	6.1	450000	45	P	
27	**Al**	2	**0.315**	ug/l	0.31	34.7	450000	45	P	
31	**P**	2	**-5.881**	ug/l	-5.88	17.5	450000	45	P	
39	**K**	2	**1.627**	ug/l	1.63	331.2	450000	45	P	
44	**Ca**	2	**2.859**	ug/l	2.86	43.6	450000	45	P	
47	**Ti**	2	**0.065**	ug/l	0.07	32.7	4500	45	P	
51	**V**	2	**-0.058**	ug/l	-0.06	31.4	4500	45	P	
52	**Cr**	2	**0.044**	ug/l	0.04	14.4	4500	45	P	
54	**Fe**	2	**2.922**	ug/l	2.92	6.8	450000	74	P	
55	**Mn**	2	**0.036**	ug/l	0.04	13.2	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	31.5	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	122.9	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	27.3	15000	45	P	
66	**Zn**	2	**0.055**	ug/l	0.06	70.8	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	75.6	4500	74	P	
78	**Se**	2	**-0.236**	ug/l	-0.24	144.7	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	45.2	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	206.8	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.01	35.8	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	66.5	900	103	P	
118	**Sn**	3	**0.079**	ug/l	0.08	33.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	0.04	25.4	4500	103	P	
135	**Ba**	3	**0.038**	ug/l	0.04	8.3	4500	103	P	
200	**Hg**	3	**0.018**	ug/l	0.02	15.8	45	209	P	
205	**Tl**	3	**0.728**	ug/l	0.73	7.0	4500	209	P	
208	**Pb**	3	**0.019**	ug/l	0.02	14.0	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	5.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4709075	2.38	5119000	**92.0**	30	-	120	
45	Sc	1	272242	0.94	341400	**79.7**	30	-	120	
45	Sc	2	271963	1.19	273900	**99.3**	30	-	120	
74	Ge	1	228380	0.42	283600	**80.5**	30	-	120	
74	Ge	2	430208	0.65	422600	**101.8**	30	-	120	
74	Ge	3	1673594	1.62	1674000	**100.0**	30	-	120	
103	Rh	2	831128	0.35	814900	**102.0**	30	-	120	
103	Rh	3	1563379	0.62	1535000	**101.8**	30	-	120	
165	Ho	3	3275318	2.32	3236000	**101.2**	30	-	120	
175	Lu	3	3648210	0.16	3584000	**101.8**	30	-	120	
209	Bi	3	7728485	0.71	7619000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\037SMPL.D\037SMPL.D#
Date Acquired: May 27 2010 04:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.208**	ug/l	12.08	1.8	450	6	P	
23	**Na**	2	**63.680**	ug/l	636.80	3.8	450000	45	P	
24	**Mg**	2	**63640.000**	ug/l	636,400.00	0.7	450000	45	A	
27	**Al**	2	**14450.000**	ug/l	144,500.00	0.9	450000	45	A	
31	**P**	2	**859.200**	ug/l	8,592.00	6.0	450000	45	P	
39	**K**	2	**2521.000**	ug/l	25,210.00	1.4	450000	45	A	
44	**Ca**	2	**7036.000**	ug/l	70,360.00	0.4	450000	45	P	
47	**Ti**	2	**239.800**	ug/l	2,398.00	0.4	4500	45	P	
51	**V**	2	**62.600**	ug/l	626.00	0.8	4500	45	P	
52	**Cr**	2	**365.400**	ug/l	3,654.00	0.7	4500	45	A	
54	**Fe**	2	**62880.000**	ug/l	628,800.00	3.4	450000	74	A	
55	**Mn**	2	**894.100**	ug/l	8,941.00	0.5	15000	45	A	
59	**Co**	2	**50.630**	ug/l	506.30	0.9	4500	45	P	
60	**Ni**	2	**702.500**	ug/l	7,025.00	0.9	15000	45	P	
63	**Cu**	2	**53.150**	ug/l	531.50	1.8	15000	45	P	
66	**Zn**	2	**113.700**	ug/l	1,137.00	1.8	15000	45	P	
75	**As**	2	**15.720**	ug/l	157.20	3.1	4500	74	P	
78	**Se**	2	**0.285**	ug/l	2.85	91.9	4500	74	P	
88	**Sr**	3	**42.210**	ug/l	422.10	1.5	4500	74	P	
95	**Mo**	3	**0.602**	ug/l	6.02	8.2	4500	74	P	
107	**Ag**	3	**0.146**	ug/l	1.46	9.0	450	103	P	
111	**Cd**	3	**0.357**	ug/l	3.57	7.4	900	103	P	
118	**Sn**	3	**0.816**	ug/l	8.16	10.2	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	7.87	4.6	4500	103	P	
135	**Ba**	3	**252.300**	ug/l	2,523.00	2.3	4500	103	P	
200	**Hg**	3	**518.700**	ug/l	5,187.00	2.1	45	209	A	Fail
205	**Tl**	3	**0.544**	ug/l	5.44	3.8	4500	209	P	
208	**Pb**	3	**16.500**	ug/l	165.00	1.7	4500	209	P	
238	**U**	3	**0.973**	ug/l	9.73	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4027359	1.47	5119000	**78.7**	30	-	120	
45	Sc	1	270061	1.57	341400	**79.1**	30	-	120	
45	Sc	2	276511	1.19	273900	**101.0**	30	-	120	
74	Ge	1	208803	2.52	283600	**73.6**	30	-	120	
74	Ge	2	397012	2.16	422600	**93.9**	30	-	120	
74	Ge	3	1522533	0.88	1674000	**91.0**	30	-	120	
103	Rh	2	740177	1.29	814900	**90.8**	30	-	120	
103	Rh	3	1385041	1.03	1535000	**90.2**	30	-	120	
165	Ho	3	3161199	0.62	3236000	**97.7**	30	-	120	
175	Lu	3	3531056	0.82	3584000	**98.5**	30	-	120	
209	Bi	3	6927820	0.59	7619000	**90.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\038SMPL.D\038SMPL.D#
Date Acquired: May 27 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.304**	ug/l	13.04	5.7	450	6	P	
23	**Na**	2	**195.300**	ug/l	1,953.00	1.0	450000	45	P	
24	**Mg**	2	**94980.000**	ug/l	949,800.00	1.8	450000	45	A	
27	**Al**	2	**42820.000**	ug/l	428,200.00	1.3	450000	45	A	
31	**P**	2	**836.800**	ug/l	8,368.00	2.0	450000	45	P	
39	**K**	2	**1847.000**	ug/l	18,470.00	0.5	450000	45	P	
44	**Ca**	2	**23890.000**	ug/l	238,900.00	1.3	450000	45	P	
47	**Ti**	2	**352.300**	ug/l	3,523.00	1.3	4500	45	P	
51	**V**	2	**112.500**	ug/l	1,125.00	0.7	4500	45	P	
52	**Cr**	2	**794.400**	ug/l	7,944.00	1.9	4500	45	A	
54	**Fe**	2	**77180.000**	ug/l	771,800.00	1.2	450000	74	A	
55	**Mn**	2	**1281.000**	ug/l	12,810.00	1.3	15000	45	A	
59	**Co**	2	**68.190**	ug/l	681.90	0.6	4500	45	P	
60	**Ni**	2	**1029.000**	ug/l	10,290.00	1.6	15000	45	P	
63	**Cu**	2	**72.290**	ug/l	722.90	1.0	15000	45	P	
66	**Zn**	2	**133.100**	ug/l	1,331.00	0.6	15000	45	P	
75	**As**	2	**12.890**	ug/l	128.90	2.0	4500	74	P	
78	**Se**	2	**1.025**	ug/l	10.25	90.6	4500	74	P	
88	**Sr**	3	**290.400**	ug/l	2,904.00	2.5	4500	74	A	
95	**Mo**	3	**1.350**	ug/l	13.50	4.6	4500	74	P	
107	**Ag**	3	**0.122**	ug/l	1.22	5.9	450	103	P	
111	**Cd**	3	**0.347**	ug/l	3.47	7.6	900	103	P	
118	**Sn**	3	**1.431**	ug/l	14.31	6.9	4500	103	P	
121	**Sb**	3	**0.761**	ug/l	7.61	8.2	4500	103	P	
135	**Ba**	3	**417.500**	ug/l	4,175.00	1.7	4500	103	P	
200	**Hg**	3	**28.020**	ug/l	280.20	2.5	45	209	P	
205	**Tl**	3	**0.379**	ug/l	3.79	6.0	4500	209	P	
208	**Pb**	3	**16.980**	ug/l	169.80	3.3	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3871321	0.70	5119000	**75.6**	30	-	120	
45	Sc	1	270973	1.29	341400	**79.4**	30	-	120	
45	Sc	2	268104	1.23	273900	**97.9**	30	-	120	
74	Ge	1	202097	0.76	283600	**71.3**	30	-	120	
74	Ge	2	377409	1.14	422600	**89.3**	30	-	120	
74	Ge	3	1456683	1.59	1674000	**87.0**	30	-	120	
103	Rh	2	692490	0.80	814900	**85.0**	30	-	120	
103	Rh	3	1293345	1.30	1535000	**84.3**	30	-	120	
165	Ho	3	3073289	0.83	3236000	**95.0**	30	-	120	
175	Lu	3	3417134	0.66	3584000	**95.3**	30	-	120	
209	Bi	3	6674272	1.73	7619000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\039SMPL.D\039SMPL.D#
Date Acquired: May 27 2010 04:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.243**	ug/l	12.43	2.0	450	6	P	
23	**Na**	2	**135.400**	ug/l	1,354.00	2.1	450000	45	P	
24	**Mg**	2	**95230.000**	ug/l	952,300.00	1.6	450000	45	A	
27	**Al**	2	**19710.000**	ug/l	197,100.00	0.9	450000	45	A	
31	**P**	2	**518.300**	ug/l	5,183.00	1.3	450000	45	P	
39	**K**	2	**1512.000**	ug/l	15,120.00	0.8	450000	45	P	
44	**Ca**	2	**12710.000**	ug/l	127,100.00	1.3	450000	45	P	
47	**Ti**	2	**1059.000**	ug/l	10,590.00	0.3	4500	45	P	
51	**V**	2	**133.800**	ug/l	1,338.00	1.1	4500	45	P	
52	**Cr**	2	**542.000**	ug/l	5,420.00	3.0	4500	45	A	
54	**Fe**	2	**104100.000**	ug/l	1,041,000.00	1.4	450000	74	A	
55	**Mn**	2	**3903.000**	ug/l	39,030.00	2.4	15000	45	A	
59	**Co**	2	**92.280**	ug/l	922.80	0.6	4500	45	P	
60	**Ni**	2	**1140.000**	ug/l	11,400.00	1.1	15000	45	A	
63	**Cu**	2	**153.600**	ug/l	1,536.00	0.5	15000	45	P	
66	**Zn**	2	**165.300**	ug/l	1,653.00	1.5	15000	45	P	
75	**As**	2	**13.170**	ug/l	131.70	2.3	4500	74	P	
78	**Se**	2	**1.698**	ug/l	16.98	60.2	4500	74	P	
88	**Sr**	3	**130.200**	ug/l	1,302.00	1.2	4500	74	A	
95	**Mo**	3	**3.150**	ug/l	31.50	7.3	4500	74	P	
107	**Ag**	3	**0.070**	ug/l	0.70	7.0	450	103	P	
111	**Cd**	3	**0.434**	ug/l	4.34	14.2	900	103	P	
118	**Sn**	3	**1.593**	ug/l	15.93	3.1	4500	103	P	
121	**Sb**	3	**0.882**	ug/l	8.82	3.1	4500	103	P	
135	**Ba**	3	**515.500**	ug/l	5,155.00	0.7	4500	103	P	
200	**Hg**	3	**16.920**	ug/l	169.20	0.9	45	209	P	
205	**Tl**	3	**0.431**	ug/l	4.31	3.1	4500	209	P	
208	**Pb**	3	**15.900**	ug/l	159.00	1.1	4500	209	P	
238	**U**	3	**0.271**	ug/l	2.71	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3786083	0.50	5119000	**74.0**	30	-	120	
45	Sc	1	283619	0.61	341400	**83.1**	30	-	120	
45	Sc	2	278639	1.36	273900	**101.7**	30	-	120	
74	Ge	1	201072	1.73	283600	**70.9**	30	-	120	
74	Ge	2	376394	1.42	422600	**89.1**	30	-	120	
74	Ge	3	1465612	0.83	1674000	**87.6**	30	-	120	
103	Rh	2	694682	1.32	814900	**85.2**	30	-	120	
103	Rh	3	1326748	0.46	1535000	**86.4**	30	-	120	
165	Ho	3	3103787	1.90	3236000	**95.9**	30	-	120	
175	Lu	3	3464470	0.46	3584000	**96.7**	30	-	120	
209	Bi	3	6769087	1.15	7619000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\040SMPL.D\040SMPL.D#
Date Acquired: May 27 2010 04:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.450**	ug/l	14.50	3.4	450	6	P	
23	**Na**	2	**277.100**	ug/l	2,771.00	2.6	450000	45	P	
24	**Mg**	2	**99820.000**	ug/l	998,200.00	0.5	450000	45	A	
27	**Al**	2	**57300.000**	ug/l	573,000.00	0.8	450000	45	A	
31	**P**	2	**1058.000**	ug/l	10,580.00	0.9	450000	45	P	
39	**K**	2	**2216.000**	ug/l	22,160.00	1.2	450000	45	A	
44	**Ca**	2	**14460.000**	ug/l	144,600.00	0.5	450000	45	P	
47	**Ti**	2	**3170.000**	ug/l	31,700.00	0.1	4500	45	P	
51	**V**	2	**146.200**	ug/l	1,462.00	0.6	4500	45	P	
52	**Cr**	2	**618.200**	ug/l	6,182.00	1.7	4500	45	A	
54	**Fe**	2	**91270.000**	ug/l	912,700.00	2.0	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	0.6	15000	45	A	
59	**Co**	2	**76.130**	ug/l	761.30	0.4	4500	45	P	
60	**Ni**	2	**983.500**	ug/l	9,835.00	0.5	15000	45	P	
63	**Cu**	2	**89.710**	ug/l	897.10	0.6	15000	45	P	
66	**Zn**	2	**160.300**	ug/l	1,603.00	1.2	15000	45	P	
75	**As**	2	**20.700**	ug/l	207.00	1.0	4500	74	P	
78	**Se**	2	**1.082**	ug/l	10.82	11.6	4500	74	P	
88	**Sr**	3	**135.900**	ug/l	1,359.00	0.2	4500	74	A	
95	**Mo**	3	**1.592**	ug/l	15.92	0.8	4500	74	P	
107	**Ag**	3	**0.206**	ug/l	2.06	8.9	450	103	P	
111	**Cd**	3	**0.438**	ug/l	4.38	29.3	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.191**	ug/l	11.91	5.6	4500	103	P	
135	**Ba**	3	**401.100**	ug/l	4,011.00	1.4	4500	103	P	
200	**Hg**	3	**1.320**	ug/l	13.20	2.4	45	209	P	
205	**Tl**	3	**0.314**	ug/l	3.14	9.0	4500	209	P	
208	**Pb**	3	**21.340**	ug/l	213.40	0.8	4500	209	P	
238	**U**	3	**0.612**	ug/l	6.12	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3811934	2.45	5119000	**74.5**	30	-	120	
45	Sc	1	268731	0.62	341400	**78.7**	30	-	120	
45	Sc	2	271162	1.16	273900	**99.0**	30	-	120	
74	Ge	1	196415	0.43	283600	**69.3**	30	-	120	
74	Ge	2	381321	1.26	422600	**90.2**	30	-	120	
74	Ge	3	1489937	1.36	1674000	**89.0**	30	-	120	
103	Rh	2	696320	1.38	814900	**85.4**	30	-	120	
103	Rh	3	1327474	1.21	1535000	**86.5**	30	-	120	
165	Ho	3	3095567	0.77	3236000	**95.7**	30	-	120	
175	Lu	3	3484716	0.30	3584000	**97.2**	30	-	120	
209	Bi	3	6747242	0.37	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\041SMPL.D\041SMPL.D#
Date Acquired: May 27 2010 05:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.278**	ug/l	12.78	3.9	450	6	P	
23	**Na**	2	**110.400**	ug/l	1,104.00	5.0	450000	45	P	
24	**Mg**	2	**48160.000**	ug/l	481,600.00	1.6	450000	45	A	
27	**Al**	2	**36800.000**	ug/l	368,000.00	1.7	450000	45	A	
31	**P**	2	**830.600**	ug/l	8,306.00	2.1	450000	45	P	
39	**K**	2	**2512.000**	ug/l	25,120.00	0.3	450000	45	A	
44	**Ca**	2	**6816.000**	ug/l	68,160.00	0.9	450000	45	P	
47	**Ti**	2	**1433.000**	ug/l	14,330.00	0.8	4500	45	P	
51	**V**	2	**102.300**	ug/l	1,023.00	1.3	4500	45	P	
52	**Cr**	2	**293.600**	ug/l	2,936.00	1.2	4500	45	P	
54	**Fe**	2	**68110.000**	ug/l	681,100.00	1.1	450000	74	A	
55	**Mn**	2	**1229.000**	ug/l	12,290.00	1.8	15000	45	A	
59	**Co**	2	**50.580**	ug/l	505.80	1.7	4500	45	P	
60	**Ni**	2	**551.400**	ug/l	5,514.00	1.4	15000	45	P	
63	**Cu**	2	**65.970**	ug/l	659.70	1.0	15000	45	P	
66	**Zn**	2	**205.400**	ug/l	2,054.00	0.8	15000	45	P	
75	**As**	2	**12.790**	ug/l	127.90	1.5	4500	74	P	
78	**Se**	2	**0.643**	ug/l	6.43	96.2	4500	74	P	
88	**Sr**	3	**67.900**	ug/l	679.00	1.5	4500	74	P	
95	**Mo**	3	**0.976**	ug/l	9.76	7.1	4500	74	P	
107	**Ag**	3	**0.108**	ug/l	1.08	17.5	450	103	P	
111	**Cd**	3	**0.501**	ug/l	5.01	8.0	900	103	P	
118	**Sn**	3	**1.067**	ug/l	10.67	1.5	4500	103	P	
121	**Sb**	3	**0.816**	ug/l	8.16	3.5	4500	103	P	
135	**Ba**	3	**403.700**	ug/l	4,037.00	1.5	4500	103	P	
200	**Hg**	3	**3.047**	ug/l	30.47	1.7	45	209	P	
205	**Tl**	3	**0.270**	ug/l	2.70	1.0	4500	209	P	
208	**Pb**	3	**20.800**	ug/l	208.00	0.7	4500	209	P	
238	**U**	3	**0.930**	ug/l	9.30	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4138952	1.35	5119000	**80.9**	30	-	120	
45	Sc	1	257945	1.29	341400	**75.6**	30	-	120	
45	Sc	2	283962	0.85	273900	**103.7**	30	-	120	
74	Ge	1	196672	2.42	283600	**69.3**	30	-	120	
74	Ge	2	410314	0.23	422600	**97.1**	30	-	120	
74	Ge	3	1625988	0.90	1674000	**97.1**	30	-	120	
103	Rh	2	756092	1.32	814900	**92.8**	30	-	120	
103	Rh	3	1482378	1.05	1535000	**96.6**	30	-	120	
165	Ho	3	3305618	0.50	3236000	**102.2**	30	-	120	
175	Lu	3	3631309	0.74	3584000	**101.3**	30	-	120	
209	Bi	3	7163596	0.26	7619000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\042SMPL.D\042SMPL.D#
Date Acquired: May 27 2010 05:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.315**	ug/l	13.15	4.3	450	6	P	
23	**Na**	2	**131.800**	ug/l	1,318.00	0.8	450000	45	P	
24	**Mg**	2	**72930.000**	ug/l	729,300.00	0.6	450000	45	A	
27	**Al**	2	**28220.000**	ug/l	282,200.00	1.4	450000	45	A	
31	**P**	2	**2112.000**	ug/l	21,120.00	2.1	450000	45	P	
39	**K**	2	**3637.000**	ug/l	36,370.00	1.9	450000	45	A	
44	**Ca**	2	**11080.000**	ug/l	110,800.00	1.0	450000	45	P	
47	**Ti**	2	**1031.000**	ug/l	10,310.00	0.7	4500	45	P	
51	**V**	2	**78.850**	ug/l	788.50	0.7	4500	45	P	
52	**Cr**	2	**335.700**	ug/l	3,357.00	0.3	4500	45	P	
54	**Fe**	2	**73190.000**	ug/l	731,900.00	1.5	450000	74	A	
55	**Mn**	2	**1241.000**	ug/l	12,410.00	0.7	15000	45	A	
59	**Co**	2	**59.440**	ug/l	594.40	0.2	4500	45	P	
60	**Ni**	2	**795.400**	ug/l	7,954.00	0.6	15000	45	P	
63	**Cu**	2	**82.940**	ug/l	829.40	0.6	15000	45	P	
66	**Zn**	2	**150.900**	ug/l	1,509.00	0.6	15000	45	P	
75	**As**	2	**12.600**	ug/l	126.00	1.4	4500	74	P	
78	**Se**	2	**1.001**	ug/l	10.01	138.1	4500	74	P	
88	**Sr**	3	**95.130**	ug/l	951.30	1.9	4500	74	A	
95	**Mo**	3	**1.332**	ug/l	13.32	3.5	4500	74	P	
107	**Ag**	3	**0.204**	ug/l	2.04	13.3	450	103	P	
111	**Cd**	3	**0.555**	ug/l	5.55	5.4	900	103	P	
118	**Sn**	3	**1.019**	ug/l	10.19	2.3	4500	103	P	
121	**Sb**	3	**0.733**	ug/l	7.33	7.9	4500	103	P	
135	**Ba**	3	**643.400**	ug/l	6,434.00	2.0	4500	103	P	
200	**Hg**	3	**92.230**	ug/l	922.30	0.3	45	209	P	Fail
205	**Tl**	3	**0.320**	ug/l	3.20	2.2	4500	209	P	
208	**Pb**	3	**22.570**	ug/l	225.70	0.9	4500	209	P	
238	**U**	3	**0.909**	ug/l	9.09	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4040325	0.50	5119000	**78.9**	30	-	120	
45	Sc	1	253682	1.49	341400	**74.3**	30	-	120	
45	Sc	2	273470	0.36	273900	**99.8**	30	-	120	
74	Ge	1	196400	1.57	283600	**69.3**	30	-	120	
74	Ge	2	398974	1.47	422600	**94.4**	30	-	120	
74	Ge	3	1539041	0.64	1674000	**91.9**	30	-	120	
103	Rh	2	727073	0.73	814900	**89.2**	30	-	120	
103	Rh	3	1374976	0.24	1535000	**89.6**	30	-	120	
165	Ho	3	3145857	0.41	3236000	**97.2**	30	-	120	
175	Lu	3	3501357	0.40	3584000	**97.7**	30	-	120	
209	Bi	3	6919766	0.66	7619000	**90.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\043SMPL.D\043SMPL.D#
Date Acquired: May 27 2010 05:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.648**	ug/l	16.48	1.9	450	6	P	
23	**Na**	2	**142.400**	ug/l	1,424.00	1.7	450000	45	P	
24	**Mg**	2	**55400.000**	ug/l	554,000.00	1.2	450000	45	A	
27	**Al**	2	**52470.000**	ug/l	524,700.00	1.4	450000	45	A	
31	**P**	2	**1078.000**	ug/l	10,780.00	2.5	450000	45	P	
39	**K**	2	**2535.000**	ug/l	25,350.00	1.5	450000	45	A	
44	**Ca**	2	**11960.000**	ug/l	119,600.00	1.0	450000	45	P	
47	**Ti**	2	**1315.000**	ug/l	13,150.00	0.2	4500	45	P	
51	**V**	2	**135.000**	ug/l	1,350.00	1.2	4500	45	P	
52	**Cr**	2	**445.500**	ug/l	4,455.00	0.7	4500	45	A	
54	**Fe**	2	**104800.000**	ug/l	1,048,000.00	1.1	450000	74	A	
55	**Mn**	2	**2056.000**	ug/l	20,560.00	1.8	15000	45	A	
59	**Co**	2	**75.680**	ug/l	756.80	0.4	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.2	15000	45	P	
63	**Cu**	2	**106.100**	ug/l	1,061.00	1.6	15000	45	P	
66	**Zn**	2	**176.400**	ug/l	1,764.00	2.1	15000	45	P	
75	**As**	2	**26.640**	ug/l	266.40	1.9	4500	74	P	
78	**Se**	2	**1.554**	ug/l	15.54	10.5	4500	74	P	
88	**Sr**	3	**68.860**	ug/l	688.60	0.8	4500	74	P	
95	**Mo**	3	**2.551**	ug/l	25.51	0.6	4500	74	P	
107	**Ag**	3	**0.212**	ug/l	2.12	9.5	450	103	P	
111	**Cd**	3	**0.471**	ug/l	4.71	11.0	900	103	P	
118	**Sn**	3	**1.348**	ug/l	13.48	5.7	4500	103	P	
121	**Sb**	3	**1.672**	ug/l	16.72	4.9	4500	103	P	
135	**Ba**	3	**575.100**	ug/l	5,751.00	2.5	4500	103	P	
200	**Hg**	3	**248.900**	ug/l	2,489.00	1.4	45	209	P	Fail
205	**Tl**	3	**0.305**	ug/l	3.05	3.2	4500	209	P	
208	**Pb**	3	**28.030**	ug/l	280.30	1.4	4500	209	P	
238	**U**	3	**0.495**	ug/l	4.95	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3835144	1.35	5119000	**74.9**	30	-	120	
45	Sc	1	267531	0.98	341400	**78.4**	30	-	120	
45	Sc	2	277819	0.83	273900	**101.4**	30	-	120	
74	Ge	1	197288	1.01	283600	**69.6**	30	-	120	
74	Ge	2	386645	0.89	422600	**91.5**	30	-	120	
74	Ge	3	1509741	1.05	1674000	**90.2**	30	-	120	
103	Rh	2	711747	0.29	814900	**87.3**	30	-	120	
103	Rh	3	1371119	2.13	1535000	**89.3**	30	-	120	
165	Ho	3	3129831	1.31	3236000	**96.7**	30	-	120	
175	Lu	3	3470488	1.54	3584000	**96.8**	30	-	120	
209	Bi	3	6845491	1.02	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\044SMPL.D\044SMPL.D#
Date Acquired: May 27 2010 05:26 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.054**	ug/l	10.54	5.0	450	6	P	
23	**Na**	2	**86.690**	ug/l	866.90	3.7	450000	45	P	
24	**Mg**	2	**55500.000**	ug/l	555,000.00	2.2	450000	45	A	
27	**Al**	2	**27710.000**	ug/l	277,100.00	2.0	450000	45	A	
31	**P**	2	**715.200**	ug/l	7,152.00	1.3	450000	45	P	
39	**K**	2	**2227.000**	ug/l	22,270.00	1.0	450000	45	A	
44	**Ca**	2	**5582.000**	ug/l	55,820.00	0.8	450000	45	P	
47	**Ti**	2	**72.670**	ug/l	726.70	2.0	4500	45	P	
51	**V**	2	**89.910**	ug/l	899.10	1.4	4500	45	P	
52	**Cr**	2	**424.200**	ug/l	4,242.00	1.2	4500	45	A	
54	**Fe**	2	**88730.000**	ug/l	887,300.00	0.3	450000	74	A	
55	**Mn**	2	**1200.000**	ug/l	12,000.00	1.7	15000	45	A	
59	**Co**	2	**92.440**	ug/l	924.40	1.0	4500	45	P	
60	**Ni**	2	**1549.000**	ug/l	15,490.00	1.1	15000	45	A	
63	**Cu**	2	**68.230**	ug/l	682.30	0.6	15000	45	P	
66	**Zn**	2	**128.300**	ug/l	1,283.00	2.0	15000	45	P	
75	**As**	2	**19.790**	ug/l	197.90	0.6	4500	74	P	
78	**Se**	2	**1.597**	ug/l	15.97	42.7	4500	74	P	
88	**Sr**	3	**35.520**	ug/l	355.20	3.0	4500	74	P	
95	**Mo**	3	**1.184**	ug/l	11.84	9.3	4500	74	P	
107	**Ag**	3	**0.177**	ug/l	1.77	3.4	450	103	P	
111	**Cd**	3	**0.333**	ug/l	3.33	2.6	900	103	P	
118	**Sn**	3	**1.301**	ug/l	13.01	4.3	4500	103	P	
121	**Sb**	3	**1.388**	ug/l	13.88	6.4	4500	103	P	
135	**Ba**	3	**234.000**	ug/l	2,340.00	1.5	4500	103	P	
200	**Hg**	3	**868.100**	ug/l	8,681.00	0.7	45	209	A	Fail
205	**Tl**	3	**0.296**	ug/l	2.96	4.2	4500	209	P	
208	**Pb**	3	**20.130**	ug/l	201.30	0.8	4500	209	P	
238	**U**	3	**0.344**	ug/l	3.44	3.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3817469	1.65	5119000	**74.6**	30	-	120	
45	Sc	1	249511	1.54	341400	**73.1**	30	-	120	
45	Sc	2	275100	1.29	273900	**100.4**	30	-	120	
74	Ge	1	192058	0.49	283600	**67.7**	30	-	120	
74	Ge	2	392280	0.95	422600	**92.8**	30	-	120	
74	Ge	3	1548816	1.10	1674000	**92.5**	30	-	120	
103	Rh	2	725392	1.12	814900	**89.0**	30	-	120	
103	Rh	3	1375968	1.30	1535000	**89.6**	30	-	120	
165	Ho	3	3113791	0.69	3236000	**96.2**	30	-	120	
175	Lu	3	3445853	1.78	3584000	**96.1**	30	-	120	
209	Bi	3	6870333	0.94	7619000	**90.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\045SMPL.D\045SMPL.D#
Date Acquired: May 27 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.083**	ug/l	10.83	3.8	450	6	P	
23	**Na**	2	**54.790**	ug/l	547.90	2.4	450000	45	P	
24	**Mg**	2	**89800.000**	ug/l	898,000.00	0.8	450000	45	A	
27	**Al**	2	**35300.000**	ug/l	353,000.00	1.6	450000	45	A	
31	**P**	2	**636.800**	ug/l	6,368.00	3.4	450000	45	P	
39	**K**	2	**1562.000**	ug/l	15,620.00	1.0	450000	45	P	
44	**Ca**	2	**3221.000**	ug/l	32,210.00	1.0	450000	45	P	
47	**Ti**	2	**69.820**	ug/l	698.20	4.7	4500	45	P	
51	**V**	2	**104.100**	ug/l	1,041.00	0.1	4500	45	P	
52	**Cr**	2	**693.500**	ug/l	6,935.00	0.9	4500	45	A	
54	**Fe**	2	**96480.000**	ug/l	964,800.00	0.7	450000	74	A	
55	**Mn**	2	**1532.000**	ug/l	15,320.00	1.6	15000	45	A	
59	**Co**	2	**106.900**	ug/l	1,069.00	0.6	4500	45	P	
60	**Ni**	2	**1951.000**	ug/l	19,510.00	1.0	15000	45	A	
63	**Cu**	2	**62.010**	ug/l	620.10	0.8	15000	45	P	
66	**Zn**	2	**128.400**	ug/l	1,284.00	3.0	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	1.3	4500	74	P	
78	**Se**	2	**1.000**	ug/l	10.00	90.2	4500	74	P	
88	**Sr**	3	**21.340**	ug/l	213.40	0.5	4500	74	P	
95	**Mo**	3	**0.563**	ug/l	5.63	4.4	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	1.58	14.6	450	103	P	
111	**Cd**	3	**0.293**	ug/l	2.93	18.2	900	103	P	
118	**Sn**	3	**1.010**	ug/l	10.10	1.6	4500	103	P	
121	**Sb**	3	**0.750**	ug/l	7.50	5.1	4500	103	P	
135	**Ba**	3	**341.100**	ug/l	3,411.00	1.5	4500	103	P	
200	**Hg**	3	**1408.000**	ug/l	14,080.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.200**	ug/l	2.00	6.3	4500	209	P	
208	**Pb**	3	**18.010**	ug/l	180.10	1.6	4500	209	P	
238	**U**	3	**0.285**	ug/l	2.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3561851	1.24	5119000	**69.6**	30	-	120	
45	Sc	1	242180	0.23	341400	**70.9**	30	-	120	
45	Sc	2	263229	0.82	273900	**96.1**	30	-	120	
74	Ge	1	182949	0.74	283600	**64.5**	30	-	120	
74	Ge	2	380974	0.28	422600	**90.2**	30	-	120	
74	Ge	3	1461842	0.93	1674000	**87.3**	30	-	120	
103	Rh	2	704642	0.61	814900	**86.5**	30	-	120	
103	Rh	3	1311428	1.40	1535000	**85.4**	30	-	120	
165	Ho	3	3035197	0.99	3236000	**93.8**	30	-	120	
175	Lu	3	3395777	0.64	3584000	**94.7**	30	-	120	
209	Bi	3	6652569	1.08	7619000	**87.3**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\046SMPL.D\046SMPL.D#
Date Acquired: May 27 2010 05:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.993**	ug/l	9.93	5.4	450	6	P	
23	**Na**	2	**90.360**	ug/l	903.60	2.8	450000	45	P	
24	**Mg**	2	**18260.000**	ug/l	182,600.00	1.0	450000	45	A	
27	**Al**	2	**30000.000**	ug/l	300,000.00	1.4	450000	45	A	
31	**P**	2	**594.500**	ug/l	5,945.00	3.2	450000	45	P	
39	**K**	2	**1981.000**	ug/l	19,810.00	1.8	450000	45	P	
44	**Ca**	2	**36590.000**	ug/l	365,900.00	0.9	450000	45	P	
47	**Ti**	2	**125.700**	ug/l	1,257.00	4.4	4500	45	P	
51	**V**	2	**91.570**	ug/l	915.70	0.5	4500	45	P	
52	**Cr**	2	**762.900**	ug/l	7,629.00	0.5	4500	45	A	
54	**Fe**	2	**91030.000**	ug/l	910,300.00	1.5	450000	74	A	
55	**Mn**	2	**1197.000**	ug/l	11,970.00	1.3	15000	45	A	
59	**Co**	2	**55.330**	ug/l	553.30	0.9	4500	45	P	
60	**Ni**	2	**509.600**	ug/l	5,096.00	1.2	15000	45	P	
63	**Cu**	2	**85.080**	ug/l	850.80	1.6	15000	45	P	
66	**Zn**	2	**141.800**	ug/l	1,418.00	0.8	15000	45	P	
75	**As**	2	**19.310**	ug/l	193.10	2.9	4500	74	P	
78	**Se**	2	**1.430**	ug/l	14.30	32.7	4500	74	P	
88	**Sr**	3	**53.590**	ug/l	535.90	0.4	4500	74	P	
95	**Mo**	3	**2.907**	ug/l	29.07	5.3	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	1.4	450	103	P	
111	**Cd**	3	**0.320**	ug/l	3.20	13.9	900	103	P	
118	**Sn**	3	**1.525**	ug/l	15.25	1.4	4500	103	P	
121	**Sb**	3	**1.536**	ug/l	15.36	2.5	4500	103	P	
135	**Ba**	3	**457.300**	ug/l	4,573.00	0.4	4500	103	P	
200	**Hg**	3	**1524.000**	ug/l	15,240.00	0.8	45	209	A	Fail
205	**Tl**	3	**0.371**	ug/l	3.71	4.1	4500	209	P	
208	**Pb**	3	**38.040**	ug/l	380.40	1.0	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3800788	2.78	5119000	**74.2**	30	-	120	
45	Sc	1	263719	0.51	341400	**77.2**	30	-	120	
45	Sc	2	267832	0.18	273900	**97.8**	30	-	120	
74	Ge	1	202349	1.16	283600	**71.4**	30	-	120	
74	Ge	2	393318	1.27	422600	**93.1**	30	-	120	
74	Ge	3	1516138	0.05	1674000	**90.6**	30	-	120	
103	Rh	2	724451	0.86	814900	**88.9**	30	-	120	
103	Rh	3	1363868	1.55	1535000	**88.9**	30	-	120	
165	Ho	3	3114405	1.02	3236000	**96.2**	30	-	120	
175	Lu	3	3513836	1.21	3584000	**98.0**	30	-	120	
209	Bi	3	6994983	0.44	7619000	**91.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\047SMPL.D\047SMPL.D#
Date Acquired: May 27 2010 05:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.680**	ug/l	52.68	1.9	450	6	P	
23	**Na**	2	**5027.000**	ug/l	5,027.00	2.8	450000	45	A	
24	**Mg**	2	**5085.000**	ug/l	5,085.00	2.3	450000	45	A	
27	**Al**	2	**509.100**	ug/l	509.10	1.5	450000	45	P	
31	**P**	2	**5072.000**	ug/l	5,072.00	2.2	450000	45	P	
39	**K**	2	**5225.000**	ug/l	5,225.00	2.0	450000	45	A	
44	**Ca**	2	**5205.000**	ug/l	5,205.00	1.6	450000	45	P	
47	**Ti**	2	**51.670**	ug/l	51.67	1.4	4500	45	P	
51	**V**	2	**51.570**	ug/l	51.57	2.4	4500	45	P	
52	**Cr**	2	**51.200**	ug/l	51.20	1.3	4500	45	P	
54	**Fe**	2	**5194.000**	ug/l	5,194.00	0.2	450000	74	P	
55	**Mn**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
59	**Co**	2	**51.770**	ug/l	51.77	1.4	4500	45	P	
60	**Ni**	2	**52.490**	ug/l	52.49	1.7	15000	45	P	
63	**Cu**	2	**51.770**	ug/l	51.77	2.2	15000	45	P	
66	**Zn**	2	**52.960**	ug/l	52.96	1.4	15000	45	P	
75	**As**	2	**51.610**	ug/l	51.61	0.7	4500	74	P	
78	**Se**	2	**53.700**	ug/l	53.70	8.4	4500	74	P	
88	**Sr**	3	**52.570**	ug/l	52.57	0.8	4500	74	P	
95	**Mo**	3	**52.770**	ug/l	52.77	1.3	4500	74	P	
107	**Ag**	3	**51.410**	ug/l	51.41	1.1	450	103	P	
111	**Cd**	3	**50.930**	ug/l	50.93	2.1	900	103	P	
118	**Sn**	3	**51.460**	ug/l	51.46	0.7	4500	103	P	
121	**Sb**	3	**51.360**	ug/l	51.36	0.8	4500	103	P	
135	**Ba**	3	**52.220**	ug/l	52.22	3.0	4500	103	P	
200	**Hg**	3	**8.607**	ug/l	8.61	1.0	45	209	P	
205	**Tl**	3	**51.620**	ug/l	51.62	1.7	4500	209	P	
208	**Pb**	3	**52.330**	ug/l	52.33	1.6	4500	209	P	
238	**U**	3	**51.180**	ug/l	51.18	2.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4012178	2.36	5119000	**78.4**	30	-	120	
45	Sc	1	251214	0.74	341400	**73.6**	30	-	120	
45	Sc	2	250709	2.08	273900	**91.5**	30	-	120	
74	Ge	1	213938	1.30	283600	**75.4**	30	-	120	
74	Ge	2	396890	0.45	422600	**93.9**	30	-	120	
74	Ge	3	1539925	1.34	1674000	**92.0**	30	-	120	
103	Rh	2	747033	1.66	814900	**91.7**	30	-	120	
103	Rh	3	1430145	0.63	1535000	**93.2**	30	-	120	
165	Ho	3	3117336	0.41	3236000	**96.3**	30	-	120	
175	Lu	3	3495004	0.56	3584000	**97.5**	30	-	120	
209	Bi	3	7199308	0.44	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\048SMPL.D\048SMPL.D#
Date Acquired: May 27 2010 05:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	82.0	450	6	P	
23	**Na**	2	**4.441**	ug/l	4.44	30.0	450000	45	P	
24	**Mg**	2	**2.775**	ug/l	2.78	15.0	450000	45	P	
27	**Al**	2	**2.373**	ug/l	2.37	19.0	450000	45	P	
31	**P**	2	**0.918**	ug/l	0.92	277.9	450000	45	P	
39	**K**	2	**17.730**	ug/l	17.73	27.5	450000	45	P	
44	**Ca**	2	**3.561**	ug/l	3.56	50.2	450000	45	P	
47	**Ti**	2	**0.182**	ug/l	0.18	62.6	4500	45	P	
51	**V**	2	**-0.057**	ug/l	-0.06	11.5	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	197.3	4500	45	P	
54	**Fe**	2	**4.498**	ug/l	4.50	27.5	450000	74	P	
55	**Mn**	2	**0.070**	ug/l	0.07	18.4	15000	45	P	
59	**Co**	2	**0.016**	ug/l	0.02	23.7	4500	45	P	
60	**Ni**	2	**0.030**	ug/l	0.03	180.6	15000	45	P	
63	**Cu**	2	**0.042**	ug/l	0.04	48.0	15000	45	P	
66	**Zn**	2	**0.057**	ug/l	0.06	82.3	15000	45	P	
75	**As**	2	**-0.028**	ug/l	-0.03	86.5	4500	74	P	
78	**Se**	2	**-0.041**	ug/l	-0.04	1538.5	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.01	19.3	4500	74	P	
95	**Mo**	3	**0.000**	ug/l	0.00	7838.4	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	62.9	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	122.4	900	103	P	
118	**Sn**	3	**0.034**	ug/l	0.03	47.7	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	30.6	4500	103	P	
135	**Ba**	3	**0.018**	ug/l	0.02	53.2	4500	103	P	
200	**Hg**	3	**3.846**	ug/l	3.85	2.8	45	209	P	
205	**Tl**	3	**0.318**	ug/l	0.32	6.7	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	19.4	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.01	54.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4131408	1.41	5119000	**80.7**	30	-	120	
45	Sc	1	252092	1.88	341400	**73.8**	30	-	120	
45	Sc	2	249269	0.95	273900	**91.0**	30	-	120	
74	Ge	1	219004	0.97	283600	**77.2**	30	-	120	
74	Ge	2	401165	1.64	422600	**94.9**	30	-	120	
74	Ge	3	1544299	1.16	1674000	**92.3**	30	-	120	
103	Rh	2	774210	1.02	814900	**95.0**	30	-	120	
103	Rh	3	1451785	1.96	1535000	**94.6**	30	-	120	
165	Ho	3	3099672	0.84	3236000	**95.8**	30	-	120	
175	Lu	3	3479094	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7390407	1.25	7619000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\049SMPL.D\049SMPL.D#
Date Acquired: May 27 2010 06:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.370**	ug/l	13.70	4.7	450	6	P	
23	**Na**	2	**91.260**	ug/l	912.60	3.1	450000	45	P	
24	**Mg**	2	**30460.000**	ug/l	304,600.00	0.7	450000	45	A	
27	**Al**	2	**26750.000**	ug/l	267,500.00	0.6	450000	45	A	
31	**P**	2	**694.700**	ug/l	6,947.00	4.0	450000	45	P	
39	**K**	2	**2233.000**	ug/l	22,330.00	1.0	450000	45	A	
44	**Ca**	2	**12680.000**	ug/l	126,800.00	1.1	450000	45	P	
47	**Ti**	2	**24.230**	ug/l	242.30	2.0	4500	45	P	
51	**V**	2	**96.810**	ug/l	968.10	0.4	4500	45	P	
52	**Cr**	2	**274.800**	ug/l	2,748.00	0.9	4500	45	P	
54	**Fe**	2	**95360.000**	ug/l	953,600.00	1.4	450000	74	A	
55	**Mn**	2	**1529.000**	ug/l	15,290.00	0.6	15000	45	A	
59	**Co**	2	**75.590**	ug/l	755.90	0.6	4500	45	P	
60	**Ni**	2	**1001.000**	ug/l	10,010.00	0.6	15000	45	P	
63	**Cu**	2	**101.500**	ug/l	1,015.00	1.3	15000	45	P	
66	**Zn**	2	**161.400**	ug/l	1,614.00	1.5	15000	45	P	
75	**As**	2	**22.920**	ug/l	229.20	1.3	4500	74	P	
78	**Se**	2	**1.373**	ug/l	13.73	44.4	4500	74	P	
88	**Sr**	3	**112.700**	ug/l	1,127.00	1.5	4500	74	A	
95	**Mo**	3	**1.838**	ug/l	18.38	5.5	4500	74	P	
107	**Ag**	3	**0.234**	ug/l	2.34	12.2	450	103	P	
111	**Cd**	3	**0.428**	ug/l	4.28	12.9	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	3.3	4500	103	P	
121	**Sb**	3	**1.637**	ug/l	16.37	4.0	4500	103	P	
135	**Ba**	3	**298.500**	ug/l	2,985.00	1.3	4500	103	P	
200	**Hg**	3	**45.690**	ug/l	456.90	1.5	45	209	P	Fail
205	**Tl**	3	**0.329**	ug/l	3.29	3.2	4500	209	P	
208	**Pb**	3	**23.810**	ug/l	238.10	1.7	4500	209	P	
238	**U**	3	**0.286**	ug/l	2.86	1.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3818527	1.31	5119000	**74.6**	30	-	120	
45	Sc	1	270547	1.28	341400	**79.2**	30	-	120	
45	Sc	2	277442	1.08	273900	**101.3**	30	-	120	
74	Ge	1	200158	0.82	283600	**70.6**	30	-	120	
74	Ge	2	388918	1.02	422600	**92.0**	30	-	120	
74	Ge	3	1510703	0.16	1674000	**90.2**	30	-	120	
103	Rh	2	723589	1.19	814900	**88.8**	30	-	120	
103	Rh	3	1384087	1.28	1535000	**90.2**	30	-	120	
165	Ho	3	3127207	0.70	3236000	**96.6**	30	-	120	
175	Lu	3	3496387	0.87	3584000	**97.6**	30	-	120	
209	Bi	3	6971433	0.55	7619000	**91.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\050SMPL.D\050SMPL.D#
Date Acquired: May 27 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.283**	ug/l	12.83	4.1	450	6	P	
23	**Na**	2	**181.500**	ug/l	1,815.00	1.2	450000	45	P	
24	**Mg**	2	**32410.000**	ug/l	324,100.00	3.3	450000	45	A	
27	**Al**	2	**8956.000**	ug/l	89,560.00	2.6	450000	45	A	
31	**P**	2	**517.900**	ug/l	5,179.00	3.2	450000	45	P	
39	**K**	2	**1962.000**	ug/l	19,620.00	1.4	450000	45	P	
44	**Ca**	2	**34860.000**	ug/l	348,600.00	1.3	450000	45	P	
47	**Ti**	2	**31.090**	ug/l	310.90	14.3	4500	45	P	
51	**V**	2	**99.340**	ug/l	993.40	1.4	4500	45	P	
52	**Cr**	2	**146.800**	ug/l	1,468.00	0.1	4500	45	P	
54	**Fe**	2	**92110.000**	ug/l	921,100.00	2.2	450000	74	A	
55	**Mn**	2	**1354.000**	ug/l	13,540.00	1.1	15000	45	A	
59	**Co**	2	**58.470**	ug/l	584.70	0.4	4500	45	P	
60	**Ni**	2	**956.200**	ug/l	9,562.00	0.2	15000	45	P	
63	**Cu**	2	**95.970**	ug/l	959.70	0.7	15000	45	P	
66	**Zn**	2	**169.800**	ug/l	1,698.00	1.5	15000	45	P	
75	**As**	2	**23.500**	ug/l	235.00	3.3	4500	74	P	
78	**Se**	2	**0.878**	ug/l	8.78	58.3	4500	74	P	
88	**Sr**	3	**126.700**	ug/l	1,267.00	2.3	4500	74	A	
95	**Mo**	3	**2.175**	ug/l	21.75	4.7	4500	74	P	
107	**Ag**	3	**0.185**	ug/l	1.85	7.5	450	103	P	
111	**Cd**	3	**0.395**	ug/l	3.95	24.5	900	103	P	
118	**Sn**	3	**1.333**	ug/l	13.33	7.9	4500	103	P	
121	**Sb**	3	**1.677**	ug/l	16.77	6.2	4500	103	P	
135	**Ba**	3	**292.100**	ug/l	2,921.00	2.8	4500	103	P	
200	**Hg**	3	**15.160**	ug/l	151.60	1.2	45	209	P	
205	**Tl**	3	**0.279**	ug/l	2.79	5.1	4500	209	P	
208	**Pb**	3	**21.890**	ug/l	218.90	1.0	4500	209	P	
238	**U**	3	**0.501**	ug/l	5.01	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3968399	1.30	5119000	**77.5**	30	-	120	
45	Sc	1	276429	0.93	341400	**81.0**	30	-	120	
45	Sc	2	278768	1.44	273900	**101.8**	30	-	120	
74	Ge	1	206953	1.17	283600	**73.0**	30	-	120	
74	Ge	2	390099	1.61	422600	**92.3**	30	-	120	
74	Ge	3	1523337	1.09	1674000	**91.0**	30	-	120	
103	Rh	2	715960	1.31	814900	**87.9**	30	-	120	
103	Rh	3	1376335	1.72	1535000	**89.7**	30	-	120	
165	Ho	3	3161779	0.76	3236000	**97.7**	30	-	120	
175	Lu	3	3454911	0.99	3584000	**96.4**	30	-	120	
209	Bi	3	7035391	0.89	7619000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\051SMPL.D\051SMPL.D#
Date Acquired: May 27 2010 06:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.937**	ug/l	19.37	8.2	450	6	P	
23	**Na**	2	**146.900**	ug/l	1,469.00	0.6	450000	45	P	
24	**Mg**	2	**22600.000**	ug/l	226,000.00	1.3	450000	45	A	
27	**Al**	2	**19300.000**	ug/l	193,000.00	2.8	450000	45	A	
31	**P**	2	**670.800**	ug/l	6,708.00	1.5	450000	45	P	
39	**K**	2	**2827.000**	ug/l	28,270.00	0.9	450000	45	A	
44	**Ca**	2	**8041.000**	ug/l	80,410.00	1.4	450000	45	P	
47	**Ti**	2	**9.394**	ug/l	93.94	10.9	4500	45	P	
51	**V**	2	**73.490**	ug/l	734.90	0.5	4500	45	P	
52	**Cr**	2	**120.400**	ug/l	1,204.00	0.7	4500	45	P	
54	**Fe**	2	**102300.000**	ug/l	1,023,000.00	0.7	450000	74	A	
55	**Mn**	2	**4955.000**	ug/l	49,550.00	1.5	15000	45	A	
59	**Co**	2	**113.100**	ug/l	1,131.00	0.4	4500	45	P	
60	**Ni**	2	**1329.000**	ug/l	13,290.00	0.9	15000	45	A	
63	**Cu**	2	**107.300**	ug/l	1,073.00	1.6	15000	45	P	
66	**Zn**	2	**193.900**	ug/l	1,939.00	0.7	15000	45	P	
75	**As**	2	**31.790**	ug/l	317.90	1.5	4500	74	P	
78	**Se**	2	**0.637**	ug/l	6.37	107.0	4500	74	P	
88	**Sr**	3	**77.880**	ug/l	778.80	1.4	4500	74	P	
95	**Mo**	3	**1.928**	ug/l	19.28	1.1	4500	74	P	
107	**Ag**	3	**0.295**	ug/l	2.95	4.1	450	103	P	
111	**Cd**	3	**0.539**	ug/l	5.39	5.0	900	103	P	
118	**Sn**	3	**1.519**	ug/l	15.19	1.2	4500	103	P	
121	**Sb**	3	**2.428**	ug/l	24.28	1.9	4500	103	P	
135	**Ba**	3	**860.100**	ug/l	8,601.00	0.5	4500	103	P	
200	**Hg**	3	**15.010**	ug/l	150.10	1.6	45	209	P	
205	**Tl**	3	**0.337**	ug/l	3.37	1.8	4500	209	P	
208	**Pb**	3	**38.880**	ug/l	388.80	0.9	4500	209	P	
238	**U**	3	**0.874**	ug/l	8.74	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3902140	2.59	5119000	**76.2**	30	-	120	
45	Sc	1	264277	1.45	341400	**77.4**	30	-	120	
45	Sc	2	284115	1.42	273900	**103.7**	30	-	120	
74	Ge	1	201452	0.82	283600	**71.0**	30	-	120	
74	Ge	2	410144	1.46	422600	**97.1**	30	-	120	
74	Ge	3	1580599	1.29	1674000	**94.4**	30	-	120	
103	Rh	2	752666	1.48	814900	**92.4**	30	-	120	
103	Rh	3	1436819	0.67	1535000	**93.6**	30	-	120	
165	Ho	3	3214226	1.93	3236000	**99.3**	30	-	120	
175	Lu	3	3546657	1.43	3584000	**99.0**	30	-	120	
209	Bi	3	7184806	0.87	7619000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\052SMPL.D\052SMPL.D#
Date Acquired: May 27 2010 06:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.912**	ug/l	9.12	3.2	450	6	P	
23	**Na**	2	**82.920**	ug/l	829.20	3.7	450000	45	P	
24	**Mg**	2	**164100.000**	ug/l	1,641,000.00	0.9	450000	45	A	
27	**Al**	2	**14090.000**	ug/l	140,900.00	2.0	450000	45	A	
31	**P**	2	**329.000**	ug/l	3,290.00	3.8	450000	45	P	
39	**K**	2	**1067.000**	ug/l	10,670.00	1.8	450000	45	P	
44	**Ca**	2	**5143.000**	ug/l	51,430.00	1.4	450000	45	P	
47	**Ti**	2	**374.600**	ug/l	3,746.00	1.5	4500	45	P	
51	**V**	2	**45.790**	ug/l	457.90	0.7	4500	45	P	
52	**Cr**	2	**532.100**	ug/l	5,321.00	0.4	4500	45	A	
54	**Fe**	2	**99530.000**	ug/l	995,300.00	1.9	450000	74	A	
55	**Mn**	2	**1439.000**	ug/l	14,390.00	0.4	15000	45	A	
59	**Co**	2	**176.000**	ug/l	1,760.00	1.2	4500	45	P	
60	**Ni**	2	**3585.000**	ug/l	35,850.00	0.9	15000	45	A	
63	**Cu**	2	**38.840**	ug/l	388.40	4.1	15000	45	P	
66	**Zn**	2	**117.400**	ug/l	1,174.00	1.6	15000	45	P	
75	**As**	2	**5.683**	ug/l	56.83	3.5	4500	74	P	
78	**Se**	2	**0.173**	ug/l	1.73	229.1	4500	74	P	
88	**Sr**	3	**27.990**	ug/l	279.90	2.0	4500	74	P	
95	**Mo**	3	**0.824**	ug/l	8.24	9.5	4500	74	P	
107	**Ag**	3	**0.084**	ug/l	0.84	9.0	450	103	P	
111	**Cd**	3	**0.226**	ug/l	2.26	12.2	900	103	P	
118	**Sn**	3	**0.796**	ug/l	7.96	3.7	4500	103	P	
121	**Sb**	3	**0.469**	ug/l	4.69	10.0	4500	103	P	
135	**Ba**	3	**120.100**	ug/l	1,201.00	1.0	4500	103	P	
200	**Hg**	3	**311.600**	ug/l	3,116.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.542**	ug/l	5.42	5.1	4500	209	P	
208	**Pb**	3	**8.149**	ug/l	81.49	2.8	4500	209	P	
238	**U**	3	**1.185**	ug/l	11.85	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3482034	0.56	5119000	**68.0**	30	-	120	
45	Sc	1	247162	1.09	341400	**72.4**	30	-	120	
45	Sc	2	258984	0.87	273900	**94.6**	30	-	120	
74	Ge	1	187926	0.68	283600	**66.3**	30	-	120	
74	Ge	2	378493	1.54	422600	**89.6**	30	-	120	
74	Ge	3	1472053	2.08	1674000	**87.9**	30	-	120	
103	Rh	2	701806	0.79	814900	**86.1**	30	-	120	
103	Rh	3	1348278	1.19	1535000	**87.8**	30	-	120	
165	Ho	3	3070462	0.45	3236000	**94.9**	30	-	120	
175	Lu	3	3425759	0.26	3584000	**95.6**	30	-	120	
209	Bi	3	6700873	1.00	7619000	**87.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\053SMPL.D\053SMPL.D#
Date Acquired: May 27 2010 06:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.922**	ug/l	9.22	6.1	450	6	P	
23	**Na**	2	**109.500**	ug/l	1,095.00	4.8	450000	45	P	
24	**Mg**	2	**98430.000**	ug/l	984,300.00	2.3	450000	45	A	
27	**Al**	2	**14870.000**	ug/l	148,700.00	1.6	450000	45	A	
31	**P**	2	**297.400**	ug/l	2,974.00	2.9	450000	45	P	
39	**K**	2	**1085.000**	ug/l	10,850.00	2.9	450000	45	P	
44	**Ca**	2	**6203.000**	ug/l	62,030.00	2.0	450000	45	P	
47	**Ti**	2	**216.300**	ug/l	2,163.00	2.8	4500	45	P	
51	**V**	2	**44.120**	ug/l	441.20	1.3	4500	45	P	
52	**Cr**	2	**627.100**	ug/l	6,271.00	2.5	4500	45	A	
54	**Fe**	2	**127700.000**	ug/l	1,277,000.00	0.6	450000	74	A	
55	**Mn**	2	**1133.000**	ug/l	11,330.00	2.3	15000	45	A	
59	**Co**	2	**185.200**	ug/l	1,852.00	2.4	4500	45	P	
60	**Ni**	2	**3011.000**	ug/l	30,110.00	2.0	15000	45	A	
63	**Cu**	2	**49.360**	ug/l	493.60	2.2	15000	45	P	
66	**Zn**	2	**124.600**	ug/l	1,246.00	2.9	15000	45	P	
75	**As**	2	**6.854**	ug/l	68.54	3.7	4500	74	P	
78	**Se**	2	**1.073**	ug/l	10.73	34.5	4500	74	P	
88	**Sr**	3	**49.700**	ug/l	497.00	0.1	4500	74	P	
95	**Mo**	3	**1.098**	ug/l	10.98	3.8	4500	74	P	
107	**Ag**	3	**0.175**	ug/l	1.75	12.1	450	103	P	
111	**Cd**	3	**0.271**	ug/l	2.71	10.6	900	103	P	
118	**Sn**	3	**1.413**	ug/l	14.13	0.6	4500	103	P	
121	**Sb**	3	**8.686**	ug/l	86.86	1.4	4500	103	P	
135	**Ba**	3	**247.900**	ug/l	2,479.00	1.4	4500	103	P	
200	**Hg**	3	**858.200**	ug/l	8,582.00	1.2	45	209	A	Fail
205	**Tl**	3	**1.084**	ug/l	10.84	0.7	4500	209	P	
208	**Pb**	3	**13.390**	ug/l	133.90	0.9	4500	209	P	
238	**U**	3	**1.563**	ug/l	15.63	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3329996	1.69	5119000	**65.1**	30	-	120	
45	Sc	1	245773	2.76	341400	**72.0**	30	-	120	
45	Sc	2	266201	1.29	273900	**97.2**	30	-	120	
74	Ge	1	184222	2.36	283600	**65.0**	30	-	120	
74	Ge	2	383127	0.70	422600	**90.7**	30	-	120	
74	Ge	3	1518201	0.60	1674000	**90.7**	30	-	120	
103	Rh	2	712332	0.73	814900	**87.4**	30	-	120	
103	Rh	3	1374657	1.38	1535000	**89.6**	30	-	120	
165	Ho	3	3150071	0.85	3236000	**97.3**	30	-	120	
175	Lu	3	3504168	0.80	3584000	**97.8**	30	-	120	
209	Bi	3	6943918	0.35	7619000	**91.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\054SMPL.D\054SMPL.D#
Date Acquired: May 27 2010 06:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.7	450	6	P	
23	**Na**	2	**129.800**	ug/l	1,298.00	3.7	450000	45	P	
24	**Mg**	2	**68630.000**	ug/l	686,300.00	1.9	450000	45	A	
27	**Al**	2	**48410.000**	ug/l	484,100.00	2.1	450000	45	A	
31	**P**	2	**2117.000**	ug/l	21,170.00	2.0	450000	45	P	
39	**K**	2	**2795.000**	ug/l	27,950.00	1.7	450000	45	A	
44	**Ca**	2	**20840.000**	ug/l	208,400.00	2.9	450000	45	P	
47	**Ti**	2	**2808.000**	ug/l	28,080.00	3.0	4500	45	P	
51	**V**	2	**151.300**	ug/l	1,513.00	1.9	4500	45	P	
52	**Cr**	2	**435.700**	ug/l	4,357.00	2.6	4500	45	A	
54	**Fe**	2	**98510.000**	ug/l	985,100.00	1.8	450000	74	A	
55	**Mn**	2	**2227.000**	ug/l	22,270.00	1.8	15000	45	A	
59	**Co**	2	**63.380**	ug/l	633.80	2.7	4500	45	P	
60	**Ni**	2	**490.600**	ug/l	4,906.00	2.3	15000	45	P	
63	**Cu**	2	**145.200**	ug/l	1,452.00	1.9	15000	45	P	
66	**Zn**	2	**190.200**	ug/l	1,902.00	3.0	15000	45	P	
75	**As**	2	**23.360**	ug/l	233.60	2.6	4500	74	P	
78	**Se**	2	**-0.094**	ug/l	-0.94	607.6	4500	74	P	
88	**Sr**	3	**97.690**	ug/l	976.90	1.4	4500	74	A	
95	**Mo**	3	**2.275**	ug/l	22.75	2.0	4500	74	P	
107	**Ag**	3	**0.336**	ug/l	3.36	4.3	450	103	P	
111	**Cd**	3	**0.400**	ug/l	4.00	19.1	900	103	P	
118	**Sn**	3	**0.979**	ug/l	9.79	1.6	4500	103	P	
121	**Sb**	3	**1.629**	ug/l	16.29	2.4	4500	103	P	
135	**Ba**	3	**664.900**	ug/l	6,649.00	0.9	4500	103	P	
200	**Hg**	3	**27.150**	ug/l	271.50	2.1	45	209	P	
205	**Tl**	3	**0.249**	ug/l	2.49	5.1	4500	209	P	
208	**Pb**	3	**27.090**	ug/l	270.90	1.3	4500	209	P	
238	**U**	3	**0.712**	ug/l	7.12	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3542726	0.98	5119000	**69.2**	30	-	120	
45	Sc	1	244189	1.94	341400	**71.5**	30	-	120	
45	Sc	2	269645	1.53	273900	**98.4**	30	-	120	
74	Ge	1	188624	1.41	283600	**66.5**	30	-	120	
74	Ge	2	385395	1.20	422600	**91.2**	30	-	120	
74	Ge	3	1530081	0.90	1674000	**91.4**	30	-	120	
103	Rh	2	717670	1.51	814900	**88.1**	30	-	120	
103	Rh	3	1367175	0.30	1535000	**89.1**	30	-	120	
165	Ho	3	3134362	0.94	3236000	**96.9**	30	-	120	
175	Lu	3	3465404	1.16	3584000	**96.7**	30	-	120	
209	Bi	3	6908855	1.14	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\055SMPL.D\055SMPL.D#
Date Acquired: May 27 2010 06:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.500**	ug/l	52.50	2.1	450	6	P	
23	**Na**	2	**4927.000**	ug/l	4,927.00	0.5	450000	45	A	
24	**Mg**	2	**5067.000**	ug/l	5,067.00	0.2	450000	45	A	
27	**Al**	2	**506.400**	ug/l	506.40	1.1	450000	45	P	
31	**P**	2	**5008.000**	ug/l	5,008.00	0.6	450000	45	P	
39	**K**	2	**5176.000**	ug/l	5,176.00	1.8	450000	45	A	
44	**Ca**	2	**5164.000**	ug/l	5,164.00	2.2	450000	45	P	
47	**Ti**	2	**51.960**	ug/l	51.96	1.4	4500	45	P	
51	**V**	2	**51.500**	ug/l	51.50	1.2	4500	45	P	
52	**Cr**	2	**52.410**	ug/l	52.41	1.8	4500	45	P	
54	**Fe**	2	**5135.000**	ug/l	5,135.00	0.8	450000	74	P	
55	**Mn**	2	**53.340**	ug/l	53.34	1.4	15000	45	P	
59	**Co**	2	**52.850**	ug/l	52.85	1.2	4500	45	P	
60	**Ni**	2	**52.430**	ug/l	52.43	1.0	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	1.2	15000	45	P	
66	**Zn**	2	**52.640**	ug/l	52.64	0.8	15000	45	P	
75	**As**	2	**50.650**	ug/l	50.65	1.0	4500	74	P	
78	**Se**	2	**46.230**	ug/l	46.23	6.4	4500	74	P	
88	**Sr**	3	**52.540**	ug/l	52.54	1.5	4500	74	P	
95	**Mo**	3	**52.720**	ug/l	52.72	2.1	4500	74	P	
107	**Ag**	3	**50.980**	ug/l	50.98	1.7	450	103	P	
111	**Cd**	3	**50.240**	ug/l	50.24	2.1	900	103	P	
118	**Sn**	3	**51.090**	ug/l	51.09	2.3	4500	103	P	
121	**Sb**	3	**50.990**	ug/l	50.99	1.7	4500	103	P	
135	**Ba**	3	**51.260**	ug/l	51.26	1.8	4500	103	P	
200	**Hg**	3	**4.982**	ug/l	4.98	2.0	45	209	P	
205	**Tl**	3	**51.440**	ug/l	51.44	3.3	4500	209	P	
208	**Pb**	3	**52.140**	ug/l	52.14	2.2	4500	209	P	
238	**U**	3	**50.450**	ug/l	50.45	3.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4065145	3.72	5119000	**79.4**	30	-	120	
45	Sc	1	234860	1.09	341400	**68.8**	30	-	120	
45	Sc	2	256774	1.09	273900	**93.7**	30	-	120	
74	Ge	1	203767	1.17	283600	**71.9**	30	-	120	
74	Ge	2	416010	0.31	422600	**98.4**	30	-	120	
74	Ge	3	1625018	0.97	1674000	**97.1**	30	-	120	
103	Rh	2	783528	0.83	814900	**96.2**	30	-	120	
103	Rh	3	1516256	0.52	1535000	**98.8**	30	-	120	
165	Ho	3	3220530	0.92	3236000	**99.5**	30	-	120	
175	Lu	3	3592159	1.06	3584000	**100.2**	30	-	120	
209	Bi	3	7518471	1.09	7619000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\056SMPL.D\056SMPL.D#
Date Acquired: May 27 2010 06:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	14.3	450	6	P	
23	**Na**	2	**-1.422**	ug/l	-1.42	61.9	450000	45	P	
24	**Mg**	2	**4.919**	ug/l	4.92	4.5	450000	45	P	
27	**Al**	2	**2.068**	ug/l	2.07	9.8	450000	45	P	
31	**P**	2	**-1.774**	ug/l	-1.77	279.5	450000	45	P	
39	**K**	2	**5.826**	ug/l	5.83	14.0	450000	45	P	
44	**Ca**	2	**1.752**	ug/l	1.75	116.1	450000	45	P	
47	**Ti**	2	**0.122**	ug/l	0.12	32.5	4500	45	P	
51	**V**	2	**-0.115**	ug/l	-0.11	55.4	4500	45	P	
52	**Cr**	2	**0.008**	ug/l	0.01	237.6	4500	45	P	
54	**Fe**	2	**4.945**	ug/l	4.95	17.8	450000	74	P	
55	**Mn**	2	**0.097**	ug/l	0.10	13.6	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.02	23.4	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	124.5	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	28.6	15000	45	P	
66	**Zn**	2	**0.078**	ug/l	0.08	59.3	15000	45	P	
75	**As**	2	**-0.048**	ug/l	-0.05	32.2	4500	74	P	
78	**Se**	2	**-0.384**	ug/l	-0.38	88.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	16.6	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	263.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	111.6	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	60.8	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	30.9	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	69.3	4500	103	P	
135	**Ba**	3	**0.012**	ug/l	0.01	86.6	4500	103	P	
200	**Hg**	3	**2.051**	ug/l	2.05	2.8	45	209	P	
205	**Tl**	3	**0.333**	ug/l	0.33	5.2	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	16.7	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	13.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4094792	2.04	5119000	**80.0**	30	-	120	
45	Sc	1	240183	1.35	341400	**70.4**	30	-	120	
45	Sc	2	261226	0.49	273900	**95.4**	30	-	120	
74	Ge	1	208236	1.82	283600	**73.4**	30	-	120	
74	Ge	2	424959	1.37	422600	**100.6**	30	-	120	
74	Ge	3	1633746	1.38	1674000	**97.6**	30	-	120	
103	Rh	2	813199	1.33	814900	**99.8**	30	-	120	
103	Rh	3	1537751	0.87	1535000	**100.2**	30	-	120	
165	Ho	3	3241874	1.48	3236000	**100.2**	30	-	120	
175	Lu	3	3594589	0.80	3584000	**100.3**	30	-	120	
209	Bi	3	7648634	1.12	7619000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\057SMPL.D\057SMPL.D#
Date Acquired: May 27 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	87.8	450	6	P	
23	**Na**	2	**-0.164**	ug/l	-1.64	190.6	450000	45	P	
24	**Mg**	2	**1.383**	ug/l	13.83	11.6	450000	45	P	
27	**Al**	2	**0.543**	ug/l	5.43	24.4	450000	45	P	
31	**P**	2	**-6.724**	ug/l	-67.24	14.7	450000	45	P	
39	**K**	2	**6.495**	ug/l	64.95	37.8	450000	45	P	
44	**Ca**	2	**0.274**	ug/l	2.74	481.6	450000	45	P	
47	**Ti**	2	**0.032**	ug/l	0.32	25.7	4500	45	P	
51	**V**	2	**-0.099**	ug/l	-0.99	32.2	4500	45	P	
52	**Cr**	2	**0.006**	ug/l	0.06	294.8	4500	45	P	
54	**Fe**	2	**1.195**	ug/l	11.95	37.1	450000	74	P	
55	**Mn**	2	**0.033**	ug/l	0.33	20.7	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.03	108.0	4500	45	P	
60	**Ni**	2	**0.039**	ug/l	0.39	11.3	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.18	98.9	15000	45	P	
66	**Zn**	2	**-0.042**	ug/l	-0.42	87.8	15000	45	P	
75	**As**	2	**-0.060**	ug/l	-0.60	38.9	4500	74	P	
78	**Se**	2	**-0.601**	ug/l	-6.01	44.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.03	50.9	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	89.0	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	376.0	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.07	116.7	900	103	P	
118	**Sn**	3	**0.009**	ug/l	0.09	105.2	4500	103	P	
121	**Sb**	3	**0.006**	ug/l	0.06	10.3	4500	103	P	
135	**Ba**	3	**0.003**	ug/l	0.03	122.1	4500	103	P	
200	**Hg**	3	**1.870**	ug/l	18.70	2.6	45	209	P	
205	**Tl**	3	**0.119**	ug/l	1.19	12.7	4500	209	P	
208	**Pb**	3	**0.002**	ug/l	0.02	69.2	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.02	21.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4110451	1.57	5119000	**80.3**	30	-	120	
45	Sc	1	236341	0.33	341400	**69.2**	30	-	120	
45	Sc	2	257527	1.16	273900	**94.0**	30	-	120	
74	Ge	1	203169	0.38	283600	**71.6**	30	-	120	
74	Ge	2	413204	1.97	422600	**97.8**	30	-	120	
74	Ge	3	1585275	0.93	1674000	**94.7**	30	-	120	
103	Rh	2	793479	0.82	814900	**97.4**	30	-	120	
103	Rh	3	1465874	0.37	1535000	**95.5**	30	-	120	
165	Ho	3	3153516	0.67	3236000	**97.5**	30	-	120	
175	Lu	3	3492045	0.71	3584000	**97.4**	30	-	120	
209	Bi	3	7424189	0.59	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\058SMPL.D\058SMPL.D#
Date Acquired: May 27 2010 07:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.042**	ug/l	2.11	22.8	450	6	P	
23	**Na**	2	**0.556**	ug/l	27.81	97.4	450000	45	P	
24	**Mg**	2	**4079.000**	ug/l	203,950.00	0.6	450000	45	A	
27	**Al**	2	**763.700**	ug/l	38,185.00	0.9	450000	45	P	
31	**P**	2	**3.194**	ug/l	159.70	144.7	450000	45	P	
39	**K**	2	**56.200**	ug/l	2,810.00	6.8	450000	45	P	
44	**Ca**	2	**71.760**	ug/l	3,588.00	4.1	450000	45	P	
47	**Ti**	2	**12.270**	ug/l	613.50	3.0	4500	45	P	
51	**V**	2	**7.928**	ug/l	396.40	2.6	4500	45	P	
52	**Cr**	2	**159.500**	ug/l	7,975.00	0.8	4500	45	P	
54	**Fe**	2	**16710.000**	ug/l	835,500.00	3.1	450000	74	A	
55	**Mn**	2	**107.400**	ug/l	5,370.00	0.8	15000	45	P	
59	**Co**	2	**37.390**	ug/l	1,869.50	0.4	4500	45	P	
60	**Ni**	2	**721.800**	ug/l	36,090.00	0.2	15000	45	P	
63	**Cu**	2	**2.200**	ug/l	110.00	2.3	15000	45	P	
66	**Zn**	2	**7.226**	ug/l	361.30	6.5	15000	45	P	
75	**As**	2	**0.164**	ug/l	8.22	37.7	4500	74	P	
78	**Se**	2	**0.022**	ug/l	1.10	1192.1	4500	74	P	
88	**Sr**	3	**0.680**	ug/l	34.01	2.5	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.90	60.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.10	142.6	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.95	60.6	900	103	P	
118	**Sn**	3	**0.059**	ug/l	2.95	9.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	2.07	10.0	4500	103	P	
135	**Ba**	3	**48.430**	ug/l	2,421.50	3.3	4500	103	P	
200	**Hg**	3	**12.870**	ug/l	643.50	0.6	45	209	P	
205	**Tl**	3	**0.158**	ug/l	7.90	1.8	4500	209	P	
208	**Pb**	3	**0.482**	ug/l	24.11	2.8	4500	209	P	
238	**U**	3	**0.034**	ug/l	1.68	8.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4382010	0.65	5119000	**85.6**	30	-	120	
45	Sc	1	248803	1.30	341400	**72.9**	30	-	120	
45	Sc	2	260562	0.55	273900	**95.1**	30	-	120	
74	Ge	1	211860	1.36	283600	**74.7**	30	-	120	
74	Ge	2	408483	1.77	422600	**96.7**	30	-	120	
74	Ge	3	1608492	2.13	1674000	**96.1**	30	-	120	
103	Rh	2	763885	1.72	814900	**93.7**	30	-	120	
103	Rh	3	1464498	0.61	1535000	**95.4**	30	-	120	
165	Ho	3	3117845	1.25	3236000	**96.3**	30	-	120	
175	Lu	3	3451204	0.09	3584000	**96.3**	30	-	120	
209	Bi	3	7336501	0.68	7619000	**96.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\059SMPL.D\059SMPL.D#
Date Acquired: May 27 2010 07:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.211**	ug/l	2.11	4.0	450	6	P	
23	**Na**	2	**33.680**	ug/l	336.80	1.9	450000	45	P	
24	**Mg**	2	**18490.000**	ug/l	184,900.00	0.8	450000	45	A	
27	**Al**	2	**3480.000**	ug/l	34,800.00	0.4	450000	45	P	
31	**P**	2	**39.530**	ug/l	395.30	4.1	450000	45	P	
39	**K**	2	**230.500**	ug/l	2,305.00	1.1	450000	45	P	
44	**Ca**	2	**315.600**	ug/l	3,156.00	5.5	450000	45	P	
47	**Ti**	2	**57.860**	ug/l	578.60	4.7	4500	45	P	
51	**V**	2	**38.930**	ug/l	389.30	1.8	4500	45	P	
52	**Cr**	2	**730.900**	ug/l	7,309.00	0.7	4500	45	A	
54	**Fe**	2	**78450.000**	ug/l	784,500.00	0.8	450000	74	A	
55	**Mn**	2	**503.400**	ug/l	5,034.00	0.2	15000	45	P	
59	**Co**	2	**172.200**	ug/l	1,722.00	0.4	4500	45	P	
60	**Ni**	2	**3211.000**	ug/l	32,110.00	0.7	15000	45	A	
63	**Cu**	2	**10.170**	ug/l	101.70	1.5	15000	45	P	
66	**Zn**	2	**34.790**	ug/l	347.90	2.1	15000	45	P	
75	**As**	2	**1.174**	ug/l	11.74	4.4	4500	74	P	
78	**Se**	2	**0.059**	ug/l	0.59	627.7	4500	74	P	
88	**Sr**	3	**3.155**	ug/l	31.55	1.6	4500	74	P	
95	**Mo**	3	**0.148**	ug/l	1.48	19.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.08	69.0	450	103	P	
111	**Cd**	3	**0.073**	ug/l	0.73	28.7	900	103	P	
118	**Sn**	3	**0.336**	ug/l	3.36	4.4	4500	103	P	
121	**Sb**	3	**0.224**	ug/l	2.24	6.4	4500	103	P	
135	**Ba**	3	**236.800**	ug/l	2,368.00	0.7	4500	103	P	
200	**Hg**	3	**51.540**	ug/l	515.40	0.9	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	3.8	4500	209	P	
208	**Pb**	3	**2.374**	ug/l	23.74	0.4	4500	209	P	
238	**U**	3	**0.159**	ug/l	1.59	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3704910	1.55	5119000	**72.4**	30	-	120	
45	Sc	1	246015	1.05	341400	**72.1**	30	-	120	
45	Sc	2	255742	0.61	273900	**93.4**	30	-	120	
74	Ge	1	198652	1.14	283600	**70.0**	30	-	120	
74	Ge	2	390926	1.47	422600	**92.5**	30	-	120	
74	Ge	3	1528704	1.28	1674000	**91.3**	30	-	120	
103	Rh	2	728753	0.75	814900	**89.4**	30	-	120	
103	Rh	3	1389861	2.27	1535000	**90.5**	30	-	120	
165	Ho	3	3094058	0.92	3236000	**95.6**	30	-	120	
175	Lu	3	3442889	0.35	3584000	**96.1**	30	-	120	
209	Bi	3	7036718	1.15	7619000	**92.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\060SMPL.D\060SMPL.D#
Date Acquired: May 27 2010 07:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.225**	ug/l	2.25	3.8	450	6	P	
23	**Na**	2	**38.730**	ug/l	387.30	1.6	450000	45	P	
24	**Mg**	2	**18890.000**	ug/l	188,900.00	1.5	450000	45	A	
27	**Al**	2	**3546.000**	ug/l	35,460.00	0.6	450000	45	P	
31	**P**	2	**30.300**	ug/l	303.00	13.7	450000	45	P	
39	**K**	2	**237.500**	ug/l	2,375.00	2.6	450000	45	P	
44	**Ca**	2	**317.200**	ug/l	3,172.00	13.7	450000	45	P	
47	**Ti**	2	**57.280**	ug/l	572.80	1.7	4500	45	P	
51	**V**	2	**39.430**	ug/l	394.30	1.5	4500	45	P	
52	**Cr**	2	**740.400**	ug/l	7,404.00	0.2	4500	45	A	
54	**Fe**	2	**77890.000**	ug/l	778,900.00	0.6	450000	74	A	
55	**Mn**	2	**507.000**	ug/l	5,070.00	1.2	15000	45	P	
59	**Co**	2	**175.200**	ug/l	1,752.00	1.0	4500	45	P	
60	**Ni**	2	**3253.000**	ug/l	32,530.00	0.6	15000	45	A	
63	**Cu**	2	**9.980**	ug/l	99.80	3.7	15000	45	P	
66	**Zn**	2	**35.400**	ug/l	354.00	2.2	15000	45	P	
75	**As**	2	**1.155**	ug/l	11.55	7.7	4500	74	P	
78	**Se**	2	**-0.173**	ug/l	-1.73	220.9	4500	74	P	
88	**Sr**	3	**3.279**	ug/l	32.79	1.7	4500	74	P	
95	**Mo**	3	**0.128**	ug/l	1.28	7.4	4500	74	P	
107	**Ag**	3	**0.011**	ug/l	0.11	7.1	450	103	P	
111	**Cd**	3	**0.081**	ug/l	0.81	32.7	900	103	P	
118	**Sn**	3	**0.353**	ug/l	3.53	4.2	4500	103	P	
121	**Sb**	3	**0.223**	ug/l	2.23	15.6	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.4	4500	103	P	
200	**Hg**	3	**51.330**	ug/l	513.30	0.4	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	2.6	4500	209	P	
208	**Pb**	3	**2.334**	ug/l	23.34	2.8	4500	209	P	
238	**U**	3	**0.160**	ug/l	1.60	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719100	2.15	5119000	**72.7**	30	-	120	
45	Sc	1	242408	0.35	341400	**71.0**	30	-	120	
45	Sc	2	248218	0.92	273900	**90.6**	30	-	120	
74	Ge	1	195040	1.27	283600	**68.8**	30	-	120	
74	Ge	2	382722	0.60	422600	**90.6**	30	-	120	
74	Ge	3	1493530	1.23	1674000	**89.2**	30	-	120	
103	Rh	2	717094	1.11	814900	**88.0**	30	-	120	
103	Rh	3	1371571	1.11	1535000	**89.4**	30	-	120	
165	Ho	3	3080849	0.63	3236000	**95.2**	30	-	120	
175	Lu	3	3442726	0.56	3584000	**96.1**	30	-	120	
209	Bi	3	7075315	1.30	7619000	**92.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\061SMPL.D\061SMPL.D#
Date Acquired: May 27 2010 07:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.944**	ug/l	97.20	4.5	450	6	P	
23	**Na**	2	**414.800**	ug/l	20,740.00	1.1	450000	45	P	
24	**Mg**	2	**4032.000**	ug/l	201,600.00	1.8	450000	45	A	
27	**Al**	2	**763.500**	ug/l	38,175.00	1.5	450000	45	P	
31	**P**	2	**381.200**	ug/l	19,060.00	1.7	450000	45	P	
39	**K**	2	**473.200**	ug/l	23,660.00	0.9	450000	45	P	
44	**Ca**	2	**463.500**	ug/l	23,175.00	5.6	450000	45	P	
47	**Ti**	2	**108.000**	ug/l	5,400.00	1.0	4500	45	P	
51	**V**	2	**26.940**	ug/l	1,347.00	2.0	4500	45	P	
52	**Cr**	2	**152.300**	ug/l	7,615.00	5.2	4500	45	P	
54	**Fe**	2	**15140.000**	ug/l	757,000.00	1.1	450000	74	A	
55	**Mn**	2	**114.600**	ug/l	5,730.00	0.7	15000	45	P	
59	**Co**	2	**53.100**	ug/l	2,655.00	1.0	4500	45	P	
60	**Ni**	2	**647.600**	ug/l	32,380.00	1.0	15000	45	P	
63	**Cu**	2	**12.270**	ug/l	613.50	1.2	15000	45	P	
66	**Zn**	2	**27.140**	ug/l	1,357.00	1.6	15000	45	P	
75	**As**	2	**78.640**	ug/l	3,932.00	1.1	4500	74	P	
78	**Se**	2	**75.800**	ug/l	3,790.00	4.3	4500	74	P	
88	**Sr**	3	**0.562**	ug/l	28.08	4.4	4500	74	P	
95	**Mo**	3	**100.400**	ug/l	5,020.00	2.0	4500	74	P	
107	**Ag**	3	**12.260**	ug/l	613.00	3.7	450	103	P	
111	**Cd**	3	**2.074**	ug/l	103.70	7.0	900	103	P	
118	**Sn**	3	**99.960**	ug/l	4,998.00	1.6	4500	103	P	
121	**Sb**	3	**54.450**	ug/l	2,722.50	1.2	4500	103	P	
135	**Ba**	3	**122.600**	ug/l	6,130.00	2.1	4500	103	P	
200	**Hg**	3	**11.740**	ug/l	587.00	0.2	45	209	P	
205	**Tl**	3	**80.220**	ug/l	4,011.00	0.3	4500	209	A	
208	**Pb**	3	**21.220**	ug/l	1,061.00	0.7	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.37	19.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4483238	2.51	5119000	**87.6**	30	-	120	
45	Sc	1	242232	1.08	341400	**71.0**	30	-	120	
45	Sc	2	251941	1.70	273900	**92.0**	30	-	120	
74	Ge	1	207456	0.65	283600	**73.2**	30	-	120	
74	Ge	2	397488	1.46	422600	**94.1**	30	-	120	
74	Ge	3	1578035	0.88	1674000	**94.3**	30	-	120	
103	Rh	2	744636	2.35	814900	**91.4**	30	-	120	
103	Rh	3	1459816	2.37	1535000	**95.1**	30	-	120	
165	Ho	3	3100036	0.48	3236000	**95.8**	30	-	120	
175	Lu	3	3399594	0.96	3584000	**94.9**	30	-	120	
209	Bi	3	7197300	0.24	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\062SMPL.D\062SMPL.D#
Date Acquired: May 27 2010 07:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.976**	ug/l	98.80	2.3	450	6	P	
23	**Na**	2	**419.500**	ug/l	20,975.00	2.7	450000	45	P	
24	**Mg**	2	**4038.000**	ug/l	201,900.00	1.1	450000	45	A	
27	**Al**	2	**739.200**	ug/l	36,960.00	1.5	450000	45	P	
31	**P**	2	**396.500**	ug/l	19,825.00	5.3	450000	45	P	
39	**K**	2	**475.700**	ug/l	23,785.00	2.9	450000	45	P	
44	**Ca**	2	**454.000**	ug/l	22,700.00	0.9	450000	45	P	
47	**Ti**	2	**110.000**	ug/l	5,500.00	3.5	4500	45	P	
51	**V**	2	**26.430**	ug/l	1,321.50	2.8	4500	45	P	
52	**Cr**	2	**147.500**	ug/l	7,375.00	2.5	4500	45	P	
54	**Fe**	2	**14840.000**	ug/l	742,000.00	1.8	450000	74	A	
55	**Mn**	2	**114.000**	ug/l	5,700.00	1.5	15000	45	P	
59	**Co**	2	**52.980**	ug/l	2,649.00	1.4	4500	45	P	
60	**Ni**	2	**650.200**	ug/l	32,510.00	1.1	15000	45	P	
63	**Cu**	2	**12.310**	ug/l	615.50	2.1	15000	45	P	
66	**Zn**	2	**26.910**	ug/l	1,345.50	3.6	15000	45	P	
75	**As**	2	**77.990**	ug/l	3,899.50	0.7	4500	74	P	
78	**Se**	2	**83.670**	ug/l	4,183.50	7.0	4500	74	P	
88	**Sr**	3	**0.564**	ug/l	28.18	6.4	4500	74	P	
95	**Mo**	3	**99.680**	ug/l	4,984.00	1.8	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	2.1	450	103	P	
111	**Cd**	3	**2.130**	ug/l	106.50	4.2	900	103	P	
118	**Sn**	3	**100.000**	ug/l	5,000.00	2.7	4500	103	P	
121	**Sb**	3	**55.270**	ug/l	2,763.50	2.2	4500	103	P	
135	**Ba**	3	**123.400**	ug/l	6,170.00	0.8	4500	103	P	
200	**Hg**	3	**11.470**	ug/l	573.50	2.0	45	209	P	
205	**Tl**	3	**79.780**	ug/l	3,989.00	0.9	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	0.6	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.34	11.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4553204	1.74	5119000	**88.9**	30	-	120	
45	Sc	1	241585	1.01	341400	**70.8**	30	-	120	
45	Sc	2	255045	2.03	273900	**93.1**	30	-	120	
74	Ge	1	206768	1.42	283600	**72.9**	30	-	120	
74	Ge	2	404786	0.70	422600	**95.8**	30	-	120	
74	Ge	3	1604519	1.84	1674000	**95.8**	30	-	120	
103	Rh	2	757537	1.80	814900	**93.0**	30	-	120	
103	Rh	3	1461285	2.46	1535000	**95.2**	30	-	120	
165	Ho	3	3144309	0.49	3236000	**97.2**	30	-	120	
175	Lu	3	3471384	0.19	3584000	**96.9**	30	-	120	
209	Bi	3	7244944	0.51	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\063SMPL.D\063SMPL.D#
Date Acquired: May 27 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.006**	ug/l	100.30	4.5	450	6	P	
23	**Na**	2	**398.200**	ug/l	19,910.00	0.6	450000	45	P	
24	**Mg**	2	**3876.000**	ug/l	193,800.00	0.7	450000	45	A	
27	**Al**	2	**718.300**	ug/l	35,915.00	1.0	450000	45	P	
31	**P**	2	**373.700**	ug/l	18,685.00	3.1	450000	45	P	
39	**K**	2	**463.700**	ug/l	23,185.00	1.1	450000	45	P	
44	**Ca**	2	**445.900**	ug/l	22,295.00	2.5	450000	45	P	
47	**Ti**	2	**104.700**	ug/l	5,235.00	2.2	4500	45	P	
51	**V**	2	**26.450**	ug/l	1,322.50	1.6	4500	45	P	
52	**Cr**	2	**144.200**	ug/l	7,210.00	0.9	4500	45	P	
54	**Fe**	2	**14640.000**	ug/l	732,000.00	1.5	450000	74	A	
55	**Mn**	2	**111.100**	ug/l	5,555.00	0.9	15000	45	P	
59	**Co**	2	**51.360**	ug/l	2,568.00	1.1	4500	45	P	
60	**Ni**	2	**635.200**	ug/l	31,760.00	0.5	15000	45	P	
63	**Cu**	2	**11.780**	ug/l	589.00	2.2	15000	45	P	
66	**Zn**	2	**26.440**	ug/l	1,322.00	1.6	15000	45	P	
75	**As**	2	**76.570**	ug/l	3,828.50	0.8	4500	74	P	
78	**Se**	2	**81.780**	ug/l	4,089.00	5.0	4500	74	P	
88	**Sr**	3	**0.554**	ug/l	27.72	4.2	4500	74	P	
95	**Mo**	3	**98.050**	ug/l	4,902.50	2.9	4500	74	P	
107	**Ag**	3	**12.110**	ug/l	605.50	1.5	450	103	P	
111	**Cd**	3	**2.000**	ug/l	100.00	4.1	900	103	P	
118	**Sn**	3	**98.690**	ug/l	4,934.50	1.6	4500	103	P	
121	**Sb**	3	**54.540**	ug/l	2,727.00	0.2	4500	103	P	
135	**Ba**	3	**120.400**	ug/l	6,020.00	2.0	4500	103	P	
200	**Hg**	3	**11.050**	ug/l	552.50	0.4	45	209	P	
205	**Tl**	3	**77.910**	ug/l	3,895.50	1.4	4500	209	A	
208	**Pb**	3	**20.530**	ug/l	1,026.50	2.6	4500	209	P	
238	**U**	3	**0.026**	ug/l	1.28	13.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4435599	1.47	5119000	**86.6**	30	-	120	
45	Sc	1	252049	1.57	341400	**73.8**	30	-	120	
45	Sc	2	261260	0.80	273900	**95.4**	30	-	120	
74	Ge	1	215105	1.24	283600	**75.8**	30	-	120	
74	Ge	2	409620	0.93	422600	**96.9**	30	-	120	
74	Ge	3	1611701	1.19	1674000	**96.3**	30	-	120	
103	Rh	2	767210	0.88	814900	**94.1**	30	-	120	
103	Rh	3	1470478	0.50	1535000	**95.8**	30	-	120	
165	Ho	3	3164186	1.89	3236000	**97.8**	30	-	120	
175	Lu	3	3473885	1.35	3584000	**96.9**	30	-	120	
209	Bi	3	7332680	1.02	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\064SMPL.D\064SMPL.D#
Date Acquired: May 27 2010 07:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.141**	ug/l	107.05	13.5	450	6	P	
23	**Na**	2	**414.000**	ug/l	20,700.00	1.7	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	0.8	450000	45	P	
27	**Al**	2	**76.980**	ug/l	3,849.00	1.3	450000	45	P	
31	**P**	2	**374.300**	ug/l	18,715.00	3.4	450000	45	P	
39	**K**	2	**430.100**	ug/l	21,505.00	2.0	450000	45	P	
44	**Ca**	2	**420.100**	ug/l	21,005.00	3.1	450000	45	P	
47	**Ti**	2	**100.300**	ug/l	5,015.00	0.7	4500	45	P	
51	**V**	2	**20.780**	ug/l	1,039.00	0.9	4500	45	P	
52	**Cr**	2	**8.429**	ug/l	421.45	0.3	4500	45	P	
54	**Fe**	2	**463.300**	ug/l	23,165.00	1.7	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	1,046.50	0.9	15000	45	P	
59	**Co**	2	**21.010**	ug/l	1,050.50	0.7	4500	45	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.130**	ug/l	556.50	2.9	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.7	15000	45	P	
75	**As**	2	**81.690**	ug/l	4,084.50	2.0	4500	74	P	
78	**Se**	2	**83.070**	ug/l	4,153.50	6.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.64	11.7	4500	74	P	
95	**Mo**	3	**112.900**	ug/l	5,645.00	12.3	4500	74	P	
107	**Ag**	3	**13.390**	ug/l	669.50	13.1	450	103	P	
111	**Cd**	3	**2.093**	ug/l	104.65	16.2	900	103	P	
118	**Sn**	3	**111.900**	ug/l	5,595.00	13.2	4500	103	P	
121	**Sb**	3	**63.700**	ug/l	3,185.00	12.6	4500	103	P	
135	**Ba**	3	**88.480**	ug/l	4,424.00	12.9	4500	103	P	
200	**Hg**	3	**1.948**	ug/l	97.40	10.1	45	209	P	
205	**Tl**	3	**86.010**	ug/l	4,300.50	14.5	4500	209	A	
208	**Pb**	3	**22.510**	ug/l	1,125.50	12.5	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	35.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3807644	6.30	5119000	**74.4**	30	-	120	
45	Sc	1	222716	1.74	341400	**65.2**	30	-	120	
45	Sc	2	249146	0.20	273900	**91.0**	30	-	120	
74	Ge	1	194844	1.39	283600	**68.7**	30	-	120	
74	Ge	2	401601	1.63	422600	**95.0**	30	-	120	
74	Ge	3	1445272	9.24	1674000	**86.3**	30	-	120	
103	Rh	2	769274	0.62	814900	**94.4**	30	-	120	
103	Rh	3	1353900	9.39	1535000	**88.2**	30	-	120	
165	Ho	3	2926689	12.48	3236000	**90.4**	30	-	120	
175	Lu	3	3236367	9.66	3584000	**90.3**	30	-	120	
209	Bi	3	6874753	9.81	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\065SMPL.D\065SMPL.D#
Date Acquired: May 27 2010 07:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.064**	ug/l	103.20	1.4	450	6	P	
23	**Na**	2	**409.600**	ug/l	20,480.00	0.6	450000	45	P	
24	**Mg**	2	**412.600**	ug/l	20,630.00	1.0	450000	45	P	
27	**Al**	2	**78.350**	ug/l	3,917.50	1.8	450000	45	P	
31	**P**	2	**380.800**	ug/l	19,040.00	4.2	450000	45	P	
39	**K**	2	**434.200**	ug/l	21,710.00	0.1	450000	45	P	
44	**Ca**	2	**431.900**	ug/l	21,595.00	5.9	450000	45	P	
47	**Ti**	2	**100.700**	ug/l	5,035.00	1.2	4500	45	P	
51	**V**	2	**20.490**	ug/l	1,024.50	0.5	4500	45	P	
52	**Cr**	2	**8.247**	ug/l	412.35	1.3	4500	45	P	
54	**Fe**	2	**451.100**	ug/l	22,555.00	2.6	450000	74	P	
55	**Mn**	2	**20.700**	ug/l	1,035.00	0.6	15000	45	P	
59	**Co**	2	**21.040**	ug/l	1,052.00	1.7	4500	45	P	
60	**Ni**	2	**21.050**	ug/l	1,052.50	0.6	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	2.4	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.9	15000	45	P	
75	**As**	2	**81.430**	ug/l	4,071.50	2.6	4500	74	P	
78	**Se**	2	**80.700**	ug/l	4,035.00	2.5	4500	74	P	
88	**Sr**	3	**0.006**	ug/l	0.30	73.6	4500	74	P	
95	**Mo**	3	**105.500**	ug/l	5,275.00	2.3	4500	74	P	
107	**Ag**	3	**12.250**	ug/l	612.50	2.0	450	103	P	
111	**Cd**	3	**2.075**	ug/l	103.75	5.7	900	103	P	
118	**Sn**	3	**103.000**	ug/l	5,150.00	0.8	4500	103	P	
121	**Sb**	3	**58.820**	ug/l	2,941.00	1.1	4500	103	P	
135	**Ba**	3	**81.170**	ug/l	4,058.50	1.2	4500	103	P	
200	**Hg**	3	**1.659**	ug/l	82.95	0.9	45	209	P	
205	**Tl**	3	**81.150**	ug/l	4,057.50	0.8	4500	209	A	
208	**Pb**	3	**20.940**	ug/l	1,047.00	0.6	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4064432	0.98	5119000	**79.4**	30	-	120	
45	Sc	1	233042	2.09	341400	**68.3**	30	-	120	
45	Sc	2	251031	0.86	273900	**91.7**	30	-	120	
74	Ge	1	201240	1.45	283600	**71.0**	30	-	120	
74	Ge	2	404714	1.00	422600	**95.8**	30	-	120	
74	Ge	3	1565711	1.95	1674000	**93.5**	30	-	120	
103	Rh	2	771380	0.91	814900	**94.7**	30	-	120	
103	Rh	3	1473166	1.12	1535000	**96.0**	30	-	120	
165	Ho	3	3176658	1.23	3236000	**98.2**	30	-	120	
175	Lu	3	3480876	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7424391	0.61	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\066SMPL.D\066SMPL.D#
Date Acquired: May 27 2010 08:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**90.700**	ug/l	1,814.00	0.9	450	6	P	
23	**Na**	2	**299.700**	ug/l	5,994.00	27.4	450000	45	P	
24	**Mg**	2	**2315.000**	ug/l	46,300.00	23.1	450000	45	A	
27	**Al**	2	**5592.000**	ug/l	111,840.00	21.4	450000	45	A	
31	**P**	2	**399.100**	ug/l	7,982.00	20.6	450000	45	P	
39	**K**	2	**2304.000**	ug/l	46,080.00	23.2	450000	45	M	
44	**Ca**	2	**5374.000**	ug/l	107,480.00	21.5	450000	45	P	
47	**Ti**	2	**260.200**	ug/l	5,204.00	23.1	4500	45	P	
51	**V**	2	**54.100**	ug/l	1,082.00	21.1	4500	45	P	
52	**Cr**	2	**68.140**	ug/l	1,362.80	20.1	4500	45	P	
54	**Fe**	2	**9953.000**	ug/l	199,060.00	16.7	450000	74	A	
55	**Mn**	2	**203.300**	ug/l	4,066.00	21.2	15000	45	P	
59	**Co**	2	**67.120**	ug/l	1,342.40	21.7	4500	45	P	
60	**Ni**	2	**100.300**	ug/l	2,006.00	22.6	15000	45	P	
63	**Cu**	2	**38.340**	ug/l	766.80	23.5	15000	45	P	
66	**Zn**	2	**201.300**	ug/l	4,026.00	21.0	15000	45	P	
75	**As**	2	**129.200**	ug/l	2,584.00	16.0	4500	74	P	
78	**Se**	2	**88.370**	ug/l	1,767.40	13.6	4500	74	P	
88	**Sr**	3	**69.560**	ug/l	1,391.20	0.5	4500	74	P	
95	**Mo**	3	**64.790**	ug/l	1,295.80	1.1	4500	74	P	
107	**Ag**	3	**20.550**	ug/l	411.00	1.6	450	103	P	
111	**Cd**	3	**38.020**	ug/l	760.40	2.3	900	103	P	
118	**Sn**	3	**96.630**	ug/l	1,932.60	1.9	4500	103	P	
121	**Sb**	3	**80.970**	ug/l	1,619.40	1.1	4500	103	P	
135	**Ba**	3	**323.200**	ug/l	6,464.00	1.2	4500	103	P	
200	**Hg**	3	**3.428**	ug/l	68.56	2.7	45	209	P	
205	**Tl**	3	**100.000**	ug/l	2,000.00	1.0	4500	209	A	
208	**Pb**	3	**124.500**	ug/l	2,490.00	0.8	4500	209	A	
238	**U**	3	**0.997**	ug/l	19.94	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4348824	0.52	5119000	**85.0**	30	-	120	
45	Sc	1	239875	0.99	341400	**70.3**	30	-	120	
45	Sc	2	265998	18.82	273900	**97.1**	30	-	120	
74	Ge	1	204296	1.72	283600	**72.0**	30	-	120	
74	Ge	2	411580	13.92	422600	**97.4**	30	-	120	
74	Ge	3	1587276	0.91	1674000	**94.8**	30	-	120	
103	Rh	2	775520	17.76	814900	**95.2**	30	-	120	
103	Rh	3	1443792	0.82	1535000	**94.1**	30	-	120	
165	Ho	3	3108195	0.46	3236000	**96.1**	30	-	120	
175	Lu	3	3426006	0.83	3584000	**95.6**	30	-	120	
209	Bi	3	7107943	0.07	7619000	**93.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\067SMPL.D\067SMPL.D#
Date Acquired: May 27 2010 08:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.130**	ug/l	53.13	2.9	450	6	P	
23	**Na**	2	**4987.000**	ug/l	4,987.00	0.7	450000	45	A	
24	**Mg**	2	**5069.000**	ug/l	5,069.00	1.2	450000	45	A	
27	**Al**	2	**504.000**	ug/l	504.00	0.6	450000	45	P	
31	**P**	2	**5142.000**	ug/l	5,142.00	0.4	450000	45	P	
39	**K**	2	**5234.000**	ug/l	5,234.00	1.8	450000	45	A	
44	**Ca**	2	**5175.000**	ug/l	5,175.00	0.3	450000	45	P	
47	**Ti**	2	**52.440**	ug/l	52.44	1.3	4500	45	P	
51	**V**	2	**52.040**	ug/l	52.04	1.9	4500	45	P	
52	**Cr**	2	**52.420**	ug/l	52.42	1.7	4500	45	P	
54	**Fe**	2	**5207.000**	ug/l	5,207.00	1.3	450000	74	P	
55	**Mn**	2	**53.070**	ug/l	53.07	0.6	15000	45	P	
59	**Co**	2	**52.820**	ug/l	52.82	1.0	4500	45	P	
60	**Ni**	2	**53.460**	ug/l	53.46	1.1	15000	45	P	
63	**Cu**	2	**53.110**	ug/l	53.11	1.5	15000	45	P	
66	**Zn**	2	**53.250**	ug/l	53.25	1.3	15000	45	P	
75	**As**	2	**52.710**	ug/l	52.71	0.6	4500	74	P	
78	**Se**	2	**52.530**	ug/l	52.53	1.3	4500	74	P	
88	**Sr**	3	**52.690**	ug/l	52.69	1.2	4500	74	P	
95	**Mo**	3	**52.680**	ug/l	52.68	1.5	4500	74	P	
107	**Ag**	3	**51.700**	ug/l	51.70	1.9	450	103	P	
111	**Cd**	3	**52.510**	ug/l	52.51	2.6	900	103	P	
118	**Sn**	3	**51.780**	ug/l	51.78	3.9	4500	103	P	
121	**Sb**	3	**51.880**	ug/l	51.88	2.4	4500	103	P	
135	**Ba**	3	**52.420**	ug/l	52.42	2.5	4500	103	P	
200	**Hg**	3	**3.235**	ug/l	3.24	1.7	45	209	P	
205	**Tl**	3	**52.560**	ug/l	52.56	1.6	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.2	4500	209	P	
238	**U**	3	**50.830**	ug/l	50.83	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4146467	1.26	5119000	**81.0**	30	-	120	
45	Sc	1	227462	1.55	341400	**66.6**	30	-	120	
45	Sc	2	251280	0.93	273900	**91.7**	30	-	120	
74	Ge	1	197786	1.13	283600	**69.7**	30	-	120	
74	Ge	2	402081	1.11	422600	**95.1**	30	-	120	
74	Ge	3	1577998	0.48	1674000	**94.3**	30	-	120	
103	Rh	2	741882	0.87	814900	**91.0**	30	-	120	
103	Rh	3	1439497	1.14	1535000	**93.8**	30	-	120	
165	Ho	3	3092552	0.58	3236000	**95.6**	30	-	120	
175	Lu	3	3443638	0.74	3584000	**96.1**	30	-	120	
209	Bi	3	7168894	0.78	7619000	**94.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\068SMPL.D\068SMPL.D#
Date Acquired: May 27 2010 08:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.01	2.9	450	6	P	
23	**Na**	2	**-0.966**	ug/l	-0.97	160.7	450000	45	P	
24	**Mg**	2	**1.750**	ug/l	1.75	18.2	450000	45	P	
27	**Al**	2	**0.543**	ug/l	0.54	25.0	450000	45	P	
31	**P**	2	**-8.556**	ug/l	-8.56	38.5	450000	45	P	
39	**K**	2	**15.460**	ug/l	15.46	19.2	450000	45	P	
44	**Ca**	2	**2.268**	ug/l	2.27	111.4	450000	45	P	
47	**Ti**	2	**0.050**	ug/l	0.05	36.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	62.8	4500	45	P	
52	**Cr**	2	**0.000**	ug/l	0.00	3447.3	4500	45	P	
54	**Fe**	2	**1.871**	ug/l	1.87	11.4	450000	74	P	
55	**Mn**	2	**0.053**	ug/l	0.05	28.3	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	17.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	78.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	57.1	15000	45	P	
66	**Zn**	2	**0.114**	ug/l	0.11	86.9	15000	45	P	
75	**As**	2	**-0.030**	ug/l	-0.03	71.0	4500	74	P	
78	**Se**	2	**-0.283**	ug/l	-0.28	84.7	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	43.7	4500	74	P	
95	**Mo**	3	**0.001**	ug/l	0.00	740.9	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	64.5	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	277.8	900	103	P	
118	**Sn**	3	**0.064**	ug/l	0.06	9.7	4500	103	P	
121	**Sb**	3	**0.048**	ug/l	0.05	13.7	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	25.7	4500	103	P	
200	**Hg**	3	**0.601**	ug/l	0.60	2.5	45	209	P	
205	**Tl**	3	**0.592**	ug/l	0.59	4.0	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	25.9	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.00	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4194188	2.59	5119000	**81.9**	30	-	120	
45	Sc	1	225712	1.77	341400	**66.1**	30	-	120	
45	Sc	2	254414	1.54	273900	**92.9**	30	-	120	
74	Ge	1	194025	2.24	283600	**68.4**	30	-	120	
74	Ge	2	405307	0.73	422600	**95.9**	30	-	120	
74	Ge	3	1560068	0.76	1674000	**93.2**	30	-	120	
103	Rh	2	778074	1.04	814900	**95.5**	30	-	120	
103	Rh	3	1459041	1.08	1535000	**95.1**	30	-	120	
165	Ho	3	3074450	0.46	3236000	**95.0**	30	-	120	
175	Lu	3	3418697	2.00	3584000	**95.4**	30	-	120	
209	Bi	3	7286976	0.21	7619000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\069SMPL.D\069SMPL.D#
Date Acquired: May 27 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.3	450	6	P	
23	**Na**	2	**27.870**	ug/l	278.70	3.9	450000	45	P	
24	**Mg**	2	**428400.000**	ug/l	4,284,000.00	1.0	450000	45	A	
27	**Al**	2	**2487.000**	ug/l	24,870.00	1.2	450000	45	P	
31	**P**	2	**3.817**	ug/l	38.17	200.3	450000	45	P	
39	**K**	2	**15.890**	ug/l	158.90	19.4	450000	45	P	
44	**Ca**	2	**2983.000**	ug/l	29,830.00	0.8	450000	45	P	
47	**Ti**	2	**11.650**	ug/l	116.50	0.7	4500	45	P	
51	**V**	2	**38.030**	ug/l	380.30	1.7	4500	45	P	
52	**Cr**	2	**2425.000**	ug/l	24,250.00	0.7	4500	45	A	
54	**Fe**	2	**106900.000**	ug/l	1,069,000.00	1.5	450000	74	A	
55	**Mn**	2	**1537.000**	ug/l	15,370.00	1.4	15000	45	A	
59	**Co**	2	**256.700**	ug/l	2,567.00	0.9	4500	45	P	
60	**Ni**	2	**4865.000**	ug/l	48,650.00	0.7	15000	45	A	
63	**Cu**	2	**28.970**	ug/l	289.70	1.7	15000	45	P	
66	**Zn**	2	**43.450**	ug/l	434.50	0.2	15000	45	P	
75	**As**	2	**0.092**	ug/l	0.92	39.8	4500	74	P	
78	**Se**	2	**0.319**	ug/l	3.19	254.2	4500	74	P	
88	**Sr**	3	**1.026**	ug/l	10.26	0.6	4500	74	P	
95	**Mo**	3	**0.033**	ug/l	0.33	44.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	94.6	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.24	107.4	900	103	P	
118	**Sn**	3	**0.059**	ug/l	0.59	25.4	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.35	15.3	4500	103	P	
135	**Ba**	3	**0.794**	ug/l	7.94	6.9	4500	103	P	
200	**Hg**	3	**0.997**	ug/l	9.97	1.4	45	209	P	
205	**Tl**	3	**0.321**	ug/l	3.21	4.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.37	11.2	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	210.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3565937	1.55	5119000	**69.7**	30	-	120	
45	Sc	1	252852	1.81	341400	**74.1**	30	-	120	
45	Sc	2	256305	0.80	273900	**93.6**	30	-	120	
74	Ge	1	186478	1.18	283600	**65.8**	30	-	120	
74	Ge	2	357333	0.82	422600	**84.6**	30	-	120	
74	Ge	3	1416414	0.96	1674000	**84.6**	30	-	120	
103	Rh	2	649844	1.43	814900	**79.7**	30	-	120	
103	Rh	3	1278222	0.80	1535000	**83.3**	30	-	120	
165	Ho	3	2886247	1.08	3236000	**89.2**	30	-	120	
175	Lu	3	3245935	0.61	3584000	**90.6**	30	-	120	
209	Bi	3	6296255	0.83	7619000	**82.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\070SMPL.D\070SMPL.D#
Date Acquired: May 27 2010 08:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	32.5	450	6	P	
23	**Na**	2	**44.130**	ug/l	441.30	4.6	450000	45	P	
24	**Mg**	2	**431400.000**	ug/l	4,314,000.00	1.3	450000	45	A	
27	**Al**	2	**2744.000**	ug/l	27,440.00	0.4	450000	45	P	
31	**P**	2	**-0.197**	ug/l	-1.97	4716.0	450000	45	P	
39	**K**	2	**12.840**	ug/l	128.40	11.9	450000	45	P	
44	**Ca**	2	**5000.000**	ug/l	50,000.00	0.4	450000	45	P	
47	**Ti**	2	**9.456**	ug/l	94.56	1.5	4500	45	P	
51	**V**	2	**33.820**	ug/l	338.20	0.8	4500	45	P	
52	**Cr**	2	**1314.000**	ug/l	13,140.00	1.2	4500	45	A	
54	**Fe**	2	**105400.000**	ug/l	1,054,000.00	0.4	450000	74	A	
55	**Mn**	2	**1615.000**	ug/l	16,150.00	1.0	15000	45	A	
59	**Co**	2	**191.200**	ug/l	1,912.00	0.5	4500	45	P	
60	**Ni**	2	**3828.000**	ug/l	38,280.00	1.3	15000	45	A	
63	**Cu**	2	**9.323**	ug/l	93.23	0.5	15000	45	P	
66	**Zn**	2	**52.000**	ug/l	520.00	1.1	15000	45	P	
75	**As**	2	**-0.039**	ug/l	-0.39	79.9	4500	74	P	
78	**Se**	2	**-0.042**	ug/l	-0.42	1600.2	4500	74	P	
88	**Sr**	3	**1.947**	ug/l	19.47	3.5	4500	74	P	
95	**Mo**	3	**0.066**	ug/l	0.66	33.3	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.02	128.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	327.1	900	103	P	
118	**Sn**	3	**0.048**	ug/l	0.48	18.6	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.25	18.7	4500	103	P	
135	**Ba**	3	**0.833**	ug/l	8.33	13.6	4500	103	P	
200	**Hg**	3	**0.847**	ug/l	8.47	2.1	45	209	P	
205	**Tl**	3	**0.203**	ug/l	2.03	8.4	4500	209	P	
208	**Pb**	3	**0.032**	ug/l	0.32	5.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	169.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3483174	1.72	5119000	**68.0**	30	-	120	
45	Sc	1	236078	2.10	341400	**69.2**	30	-	120	
45	Sc	2	250296	1.46	273900	**91.4**	30	-	120	
74	Ge	1	177787	0.92	283600	**62.7**	30	-	120	
74	Ge	2	356226	0.82	422600	**84.3**	30	-	120	
74	Ge	3	1429118	1.25	1674000	**85.4**	30	-	120	
103	Rh	2	653017	0.94	814900	**80.1**	30	-	120	
103	Rh	3	1295630	1.63	1535000	**84.4**	30	-	120	
165	Ho	3	2902358	0.61	3236000	**89.7**	30	-	120	
175	Lu	3	3251777	0.36	3584000	**90.7**	30	-	120	
209	Bi	3	6237080	0.30	7619000	**81.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\071SMPL.D\071SMPL.D#
Date Acquired: May 27 2010 08:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.986**	ug/l	9.86	2.7	450	6	P	
23	**Na**	2	**85.450**	ug/l	854.50	4.0	450000	45	P	
24	**Mg**	2	**30540.000**	ug/l	305,400.00	0.5	450000	45	A	
27	**Al**	2	**25480.000**	ug/l	254,800.00	0.3	450000	45	A	
31	**P**	2	**567.000**	ug/l	5,670.00	1.6	450000	45	P	
39	**K**	2	**2858.000**	ug/l	28,580.00	0.5	450000	45	A	
44	**Ca**	2	**5743.000**	ug/l	57,430.00	1.1	450000	45	P	
47	**Ti**	2	**778.200**	ug/l	7,782.00	0.8	4500	45	P	
51	**V**	2	**80.040**	ug/l	800.40	0.4	4500	45	P	
52	**Cr**	2	**271.200**	ug/l	2,712.00	1.1	4500	45	P	
54	**Fe**	2	**54430.000**	ug/l	544,300.00	1.1	450000	74	A	
55	**Mn**	2	**597.800**	ug/l	5,978.00	1.6	15000	45	A	
59	**Co**	2	**43.590**	ug/l	435.90	1.2	4500	45	P	
60	**Ni**	2	**474.500**	ug/l	4,745.00	0.4	15000	45	P	
63	**Cu**	2	**52.510**	ug/l	525.10	0.1	15000	45	P	
66	**Zn**	2	**96.080**	ug/l	960.80	0.6	15000	45	P	
75	**As**	2	**12.120**	ug/l	121.20	3.5	4500	74	P	
78	**Se**	2	**0.960**	ug/l	9.60	73.7	4500	74	P	
88	**Sr**	3	**53.730**	ug/l	537.30	0.3	4500	74	P	
95	**Mo**	3	**0.863**	ug/l	8.63	4.1	4500	74	P	
107	**Ag**	3	**0.105**	ug/l	1.05	14.4	450	103	P	
111	**Cd**	3	**0.264**	ug/l	2.64	14.4	900	103	P	
118	**Sn**	3	**1.080**	ug/l	10.80	2.1	4500	103	P	
121	**Sb**	3	**0.969**	ug/l	9.69	3.6	4500	103	P	
135	**Ba**	3	**390.000**	ug/l	3,900.00	1.5	4500	103	P	
200	**Hg**	3	**111.600**	ug/l	1,116.00	1.3	45	209	P	Fail
205	**Tl**	3	**0.311**	ug/l	3.11	0.7	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.3	4500	209	P	
238	**U**	3	**0.536**	ug/l	5.36	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095366	0.16	5119000	**80.0**	30	-	120	
45	Sc	1	223965	1.67	341400	**65.6**	30	-	120	
45	Sc	2	275611	0.52	273900	**100.6**	30	-	120	
74	Ge	1	178656	1.78	283600	**63.0**	30	-	120	
74	Ge	2	408311	0.75	422600	**96.6**	30	-	120	
74	Ge	3	1643744	0.33	1674000	**98.2**	30	-	120	
103	Rh	2	755614	0.34	814900	**92.7**	30	-	120	
103	Rh	3	1494573	0.82	1535000	**97.4**	30	-	120	
165	Ho	3	3174587	0.54	3236000	**98.1**	30	-	120	
175	Lu	3	3533715	0.65	3584000	**98.6**	30	-	120	
209	Bi	3	7048091	0.64	7619000	**92.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\072SMPL.D\072SMPL.D#
Date Acquired: May 27 2010 08:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.079**	ug/l	0.79	8.5	450	6	P	
23	**Na**	2	**11.290**	ug/l	112.90	1.3	450000	45	P	
24	**Mg**	2	**345500.000**	ug/l	3,455,000.00	2.2	450000	45	A	
27	**Al**	2	**4035.000**	ug/l	40,350.00	2.0	450000	45	P	
31	**P**	2	**254.100**	ug/l	2,541.00	5.1	450000	45	P	
39	**K**	2	**443.700**	ug/l	4,437.00	1.8	450000	45	P	
44	**Ca**	2	**961.700**	ug/l	9,617.00	2.8	450000	45	P	
47	**Ti**	2	**50.820**	ug/l	508.20	4.2	4500	45	P	
51	**V**	2	**22.090**	ug/l	220.90	0.7	4500	45	P	
52	**Cr**	2	**681.400**	ug/l	6,814.00	1.3	4500	45	A	
54	**Fe**	2	**81610.000**	ug/l	816,100.00	0.6	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	1.2	15000	45	A	
59	**Co**	2	**186.800**	ug/l	1,868.00	1.1	4500	45	P	
60	**Ni**	2	**3491.000**	ug/l	34,910.00	1.6	15000	45	A	
63	**Cu**	2	**8.258**	ug/l	82.58	1.5	15000	45	P	
66	**Zn**	2	**47.950**	ug/l	479.50	2.7	15000	45	P	
75	**As**	2	**1.215**	ug/l	12.15	6.6	4500	74	P	
78	**Se**	2	**0.269**	ug/l	2.69	189.2	4500	74	P	
88	**Sr**	3	**7.162**	ug/l	71.62	1.6	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	18.7	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.13	34.8	450	103	P	
111	**Cd**	3	**0.034**	ug/l	0.34	32.8	900	103	P	
118	**Sn**	3	**0.148**	ug/l	1.48	10.7	4500	103	P	
121	**Sb**	3	**0.150**	ug/l	1.50	13.3	4500	103	P	
135	**Ba**	3	**81.400**	ug/l	814.00	1.5	4500	103	P	
200	**Hg**	3	**10.220**	ug/l	102.20	0.2	45	209	P	
205	**Tl**	3	**0.161**	ug/l	1.61	5.5	4500	209	P	
208	**Pb**	3	**6.571**	ug/l	65.71	0.2	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	6.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3788739	1.45	5119000	**74.0**	30	-	120	
45	Sc	1	220358	0.87	341400	**64.5**	30	-	120	
45	Sc	2	256167	0.77	273900	**93.5**	30	-	120	
74	Ge	1	169315	0.75	283600	**59.7**	30	-	120	
74	Ge	2	372593	0.57	422600	**88.2**	30	-	120	
74	Ge	3	1511107	0.40	1674000	**90.3**	30	-	120	
103	Rh	2	680588	0.19	814900	**83.5**	30	-	120	
103	Rh	3	1335760	0.54	1535000	**87.0**	30	-	120	
165	Ho	3	2982637	0.35	3236000	**92.2**	30	-	120	
175	Lu	3	3319960	0.74	3584000	**92.6**	30	-	120	
209	Bi	3	6397661	0.38	7619000	**84.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\073SMPL.D\073SMPL.D#
Date Acquired: May 27 2010 08:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.914**	ug/l	9.14	2.3	450	6	P	
23	**Na**	2	**267.100**	ug/l	2,671.00	10.6	450000	45	P	
24	**Mg**	2	**25570.000**	ug/l	255,700.00	1.9	450000	45	A	
27	**Al**	2	**23630.000**	ug/l	236,300.00	2.4	450000	45	A	
31	**P**	2	**2037.000**	ug/l	20,370.00	0.9	450000	45	P	
39	**K**	2	**5118.000**	ug/l	51,180.00	0.9	450000	45	A	
44	**Ca**	2	**18770.000**	ug/l	187,700.00	1.1	450000	45	P	
47	**Ti**	2	**1584.000**	ug/l	15,840.00	1.1	4500	45	P	
51	**V**	2	**258.300**	ug/l	2,583.00	2.0	4500	45	P	
52	**Cr**	2	**177.100**	ug/l	1,771.00	2.0	4500	45	P	
54	**Fe**	2	**104600.000**	ug/l	1,046,000.00	1.6	450000	74	A	
55	**Mn**	2	**13220.000**	ug/l	132,200.00	1.1	15000	45	A	
59	**Co**	2	**53.780**	ug/l	537.80	2.1	4500	45	P	
60	**Ni**	2	**575.400**	ug/l	5,754.00	1.6	15000	45	P	
63	**Cu**	2	**316.400**	ug/l	3,164.00	1.1	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	3,640.00	1.6	15000	45	P	
75	**As**	2	**28.940**	ug/l	289.40	1.6	4500	74	P	
78	**Se**	2	**1.948**	ug/l	19.48	16.1	4500	74	P	
88	**Sr**	3	**123.100**	ug/l	1,231.00	3.0	4500	74	A	
95	**Mo**	3	**3.251**	ug/l	32.51	3.6	4500	74	P	
107	**Ag**	3	**0.325**	ug/l	3.25	7.7	450	103	P	
111	**Cd**	3	**0.653**	ug/l	6.53	6.3	900	103	P	
118	**Sn**	3	**1.241**	ug/l	12.41	1.5	4500	103	P	
121	**Sb**	3	**1.908**	ug/l	19.08	0.9	4500	103	P	
135	**Ba**	3	**3193.000**	ug/l	31,930.00	0.9	4500	103	A	
200	**Hg**	3	**58.070**	ug/l	580.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	3.33	2.7	4500	209	P	
208	**Pb**	3	**69.010**	ug/l	690.10	0.6	4500	209	P	
238	**U**	3	**0.832**	ug/l	8.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4250922	1.68	5119000	**83.0**	30	-	120	
45	Sc	1	224105	1.12	341400	**65.6**	30	-	120	
45	Sc	2	281465	2.27	273900	**102.8**	30	-	120	
74	Ge	1	175218	1.70	283600	**61.8**	30	-	120	
74	Ge	2	412156	1.58	422600	**97.5**	30	-	120	
74	Ge	3	1665759	1.73	1674000	**99.5**	30	-	120	
103	Rh	2	757098	2.07	814900	**92.9**	30	-	120	
103	Rh	3	1502519	0.64	1535000	**97.9**	30	-	120	
165	Ho	3	3224730	0.57	3236000	**99.7**	30	-	120	
175	Lu	3	3576830	1.06	3584000	**99.8**	30	-	120	
209	Bi	3	7157057	1.40	7619000	**93.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\074SMPL.D\074SMPL.D#
Date Acquired: May 27 2010 09:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.114**	ug/l	11.14	5.0	450	6	P	
23	**Na**	2	**67.820**	ug/l	678.20	3.2	450000	45	P	
24	**Mg**	2	**25830.000**	ug/l	258,300.00	1.6	450000	45	A	
27	**Al**	2	**18880.000**	ug/l	188,800.00	1.3	450000	45	A	
31	**P**	2	**1043.000**	ug/l	10,430.00	0.6	450000	45	P	
39	**K**	2	**2701.000**	ug/l	27,010.00	2.5	450000	45	A	
44	**Ca**	2	**5104.000**	ug/l	51,040.00	1.6	450000	45	P	
47	**Ti**	2	**535.600**	ug/l	5,356.00	2.3	4500	45	P	
51	**V**	2	**103.800**	ug/l	1,038.00	0.8	4500	45	P	
52	**Cr**	2	**267.700**	ug/l	2,677.00	0.7	4500	45	P	
54	**Fe**	2	**90630.000**	ug/l	906,300.00	1.5	450000	74	A	
55	**Mn**	2	**2600.000**	ug/l	26,000.00	0.9	15000	45	A	
59	**Co**	2	**91.270**	ug/l	912.70	0.7	4500	45	P	
60	**Ni**	2	**1327.000**	ug/l	13,270.00	0.9	15000	45	A	
63	**Cu**	2	**104.300**	ug/l	1,043.00	1.0	15000	45	P	
66	**Zn**	2	**184.800**	ug/l	1,848.00	1.0	15000	45	P	
75	**As**	2	**18.320**	ug/l	183.20	0.8	4500	74	P	
78	**Se**	2	**1.453**	ug/l	14.53	74.0	4500	74	P	
88	**Sr**	3	**39.020**	ug/l	390.20	2.2	4500	74	P	
95	**Mo**	3	**1.727**	ug/l	17.27	4.5	4500	74	P	
107	**Ag**	3	**0.156**	ug/l	1.56	14.0	450	103	P	
111	**Cd**	3	**0.419**	ug/l	4.19	7.5	900	103	P	
118	**Sn**	3	**2.557**	ug/l	25.57	1.5	4500	103	P	
121	**Sb**	3	**2.421**	ug/l	24.21	1.8	4500	103	P	
135	**Ba**	3	**588.000**	ug/l	5,880.00	1.9	4500	103	P	
200	**Hg**	3	**113.300**	ug/l	1,133.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.255**	ug/l	2.55	8.2	4500	209	P	
208	**Pb**	3	**54.710**	ug/l	547.10	0.3	4500	209	P	
238	**U**	3	**0.621**	ug/l	6.21	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095650	1.60	5119000	**80.0**	30	-	120	
45	Sc	1	225348	1.13	341400	**66.0**	30	-	120	
45	Sc	2	279800	1.29	273900	**102.2**	30	-	120	
74	Ge	1	176203	1.47	283600	**62.1**	30	-	120	
74	Ge	2	404874	0.98	422600	**95.8**	30	-	120	
74	Ge	3	1605595	2.37	1674000	**95.9**	30	-	120	
103	Rh	2	751574	1.64	814900	**92.2**	30	-	120	
103	Rh	3	1457500	1.26	1535000	**95.0**	30	-	120	
165	Ho	3	3164280	0.51	3236000	**97.8**	30	-	120	
175	Lu	3	3521531	0.89	3584000	**98.3**	30	-	120	
209	Bi	3	7017541	0.33	7619000	**92.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\075SMPL.D\075SMPL.D#
Date Acquired: May 27 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.138**	ug/l	11.38	3.2	450	6	P	
23	**Na**	2	**82.090**	ug/l	820.90	5.0	450000	45	P	
24	**Mg**	2	**14470.000**	ug/l	144,700.00	1.6	450000	45	A	
27	**Al**	2	**26590.000**	ug/l	265,900.00	1.8	450000	45	A	
31	**P**	2	**848.900**	ug/l	8,489.00	1.4	450000	45	P	
39	**K**	2	**3653.000**	ug/l	36,530.00	1.0	450000	45	A	
44	**Ca**	2	**5958.000**	ug/l	59,580.00	1.3	450000	45	P	
47	**Ti**	2	**1847.000**	ug/l	18,470.00	1.0	4500	45	P	
51	**V**	2	**80.580**	ug/l	805.80	1.6	4500	45	P	
52	**Cr**	2	**92.310**	ug/l	923.10	1.2	4500	45	P	
54	**Fe**	2	**57090.000**	ug/l	570,900.00	1.0	450000	74	A	
55	**Mn**	2	**884.800**	ug/l	8,848.00	1.6	15000	45	A	
59	**Co**	2	**25.450**	ug/l	254.50	1.4	4500	45	P	
60	**Ni**	2	**126.700**	ug/l	1,267.00	0.6	15000	45	P	
63	**Cu**	2	**55.310**	ug/l	553.10	1.7	15000	45	P	
66	**Zn**	2	**125.000**	ug/l	1,250.00	0.7	15000	45	P	
75	**As**	2	**15.070**	ug/l	150.70	2.3	4500	74	P	
78	**Se**	2	**0.103**	ug/l	1.03	469.5	4500	74	P	
88	**Sr**	3	**33.920**	ug/l	339.20	1.0	4500	74	P	
95	**Mo**	3	**1.014**	ug/l	10.14	4.0	4500	74	P	
107	**Ag**	3	**0.072**	ug/l	0.72	8.7	450	103	P	
111	**Cd**	3	**0.371**	ug/l	3.71	9.1	900	103	P	
118	**Sn**	3	**1.094**	ug/l	10.94	6.7	4500	103	P	
121	**Sb**	3	**1.070**	ug/l	10.70	5.0	4500	103	P	
135	**Ba**	3	**387.100**	ug/l	3,871.00	0.8	4500	103	P	
200	**Hg**	3	**13.540**	ug/l	135.40	0.6	45	209	P	
205	**Tl**	3	**0.204**	ug/l	2.04	8.3	4500	209	P	
208	**Pb**	3	**20.360**	ug/l	203.60	1.6	4500	209	P	
238	**U**	3	**1.032**	ug/l	10.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4327316	1.15	5119000	**84.5**	30	-	120	
45	Sc	1	215065	2.05	341400	**63.0**	30	-	120	
45	Sc	2	272883	0.63	273900	**99.6**	30	-	120	
74	Ge	1	169761	1.39	283600	**59.9**	30	-	120	
74	Ge	2	407306	0.75	422600	**96.4**	30	-	120	
74	Ge	3	1609662	0.68	1674000	**96.2**	30	-	120	
103	Rh	2	756408	1.16	814900	**92.8**	30	-	120	
103	Rh	3	1475918	0.40	1535000	**96.2**	30	-	120	
165	Ho	3	3183463	0.68	3236000	**98.4**	30	-	120	
175	Lu	3	3507569	0.32	3584000	**97.9**	30	-	120	
209	Bi	3	7062355	0.52	7619000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\076SMPL.D\076SMPL.D#
Date Acquired: May 27 2010 09:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	6.44	2.6	450	6	P	
23	**Na**	2	**134.100**	ug/l	1,341.00	4.2	450000	45	P	
24	**Mg**	2	**210500.000**	ug/l	2,105,000.00	2.1	450000	45	A	
27	**Al**	2	**20510.000**	ug/l	205,100.00	0.9	450000	45	A	
31	**P**	2	**726.000**	ug/l	7,260.00	2.4	450000	45	P	
39	**K**	2	**2164.000**	ug/l	21,640.00	1.7	450000	45	A	
44	**Ca**	2	**8573.000**	ug/l	85,730.00	0.5	450000	45	P	
47	**Ti**	2	**221.500**	ug/l	2,215.00	0.8	4500	45	P	
51	**V**	2	**70.830**	ug/l	708.30	0.6	4500	45	P	
52	**Cr**	2	**562.900**	ug/l	5,629.00	0.7	4500	45	A	
54	**Fe**	2	**117100.000**	ug/l	1,171,000.00	1.3	450000	74	A	
55	**Mn**	2	**1550.000**	ug/l	15,500.00	1.4	15000	45	A	
59	**Co**	2	**148.300**	ug/l	1,483.00	0.4	4500	45	P	
60	**Ni**	2	**2709.000**	ug/l	27,090.00	1.7	15000	45	A	
63	**Cu**	2	**51.810**	ug/l	518.10	1.1	15000	45	P	
66	**Zn**	2	**112.700**	ug/l	1,127.00	0.4	15000	45	P	
75	**As**	2	**12.050**	ug/l	120.50	1.1	4500	74	P	
78	**Se**	2	**0.335**	ug/l	3.35	45.7	4500	74	P	
88	**Sr**	3	**38.080**	ug/l	380.80	0.6	4500	74	P	
95	**Mo**	3	**1.119**	ug/l	11.19	8.8	4500	74	P	
107	**Ag**	3	**0.082**	ug/l	0.82	6.8	450	103	P	
111	**Cd**	3	**0.308**	ug/l	3.08	1.5	900	103	P	
118	**Sn**	3	**1.607**	ug/l	16.07	2.2	4500	103	P	
121	**Sb**	3	**1.042**	ug/l	10.42	1.5	4500	103	P	
135	**Ba**	3	**402.800**	ug/l	4,028.00	1.1	4500	103	P	
200	**Hg**	3	**1964.000**	ug/l	19,640.00	1.8	45	209	A	Fail
205	**Tl**	3	**0.249**	ug/l	2.49	6.1	4500	209	P	
208	**Pb**	3	**31.180**	ug/l	311.80	1.1	4500	209	P	
238	**U**	3	**0.297**	ug/l	2.97	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3838851	0.54	5119000	**75.0**	30	-	120	
45	Sc	1	209690	1.27	341400	**61.4**	30	-	120	
45	Sc	2	263282	1.00	273900	**96.1**	30	-	120	
74	Ge	1	160623	1.73	283600	**56.6**	30	-	120	
74	Ge	2	380163	1.12	422600	**90.0**	30	-	120	
74	Ge	3	1490626	0.37	1674000	**89.0**	30	-	120	
103	Rh	2	691570	0.68	814900	**84.9**	30	-	120	
103	Rh	3	1337016	0.57	1535000	**87.1**	30	-	120	
165	Ho	3	2993741	1.15	3236000	**92.5**	30	-	120	
175	Lu	3	3325598	0.50	3584000	**92.8**	30	-	120	
209	Bi	3	6444764	0.98	7619000	**84.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\077SMPL.D\077SMPL.D#
Date Acquired: May 27 2010 09:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.899**	ug/l	8.99	1.7	450	6	P	
23	**Na**	2	**44.490**	ug/l	444.90	1.8	450000	45	P	
24	**Mg**	2	**239800.000**	ug/l	2,398,000.00	0.7	450000	45	A	
27	**Al**	2	**29530.000**	ug/l	295,300.00	1.0	450000	45	A	
31	**P**	2	**324.500**	ug/l	3,245.00	6.9	450000	45	P	
39	**K**	2	**1138.000**	ug/l	11,380.00	1.1	450000	45	P	
44	**Ca**	2	**2976.000**	ug/l	29,760.00	1.2	450000	45	P	
47	**Ti**	2	**143.500**	ug/l	1,435.00	5.7	4500	45	P	
51	**V**	2	**89.440**	ug/l	894.40	0.6	4500	45	P	
52	**Cr**	2	**1233.000**	ug/l	12,330.00	1.3	4500	45	A	
54	**Fe**	2	**171800.000**	ug/l	1,718,000.00	1.5	450000	74	A	
55	**Mn**	2	**1654.000**	ug/l	16,540.00	0.2	15000	45	A	
59	**Co**	2	**285.300**	ug/l	2,853.00	0.8	4500	45	P	
60	**Ni**	2	**5020.000**	ug/l	50,200.00	0.4	15000	45	A	
63	**Cu**	2	**36.280**	ug/l	362.80	1.3	15000	45	P	
66	**Zn**	2	**110.700**	ug/l	1,107.00	0.8	15000	45	P	
75	**As**	2	**9.962**	ug/l	99.62	1.2	4500	74	P	
78	**Se**	2	**0.716**	ug/l	7.16	115.4	4500	74	P	
88	**Sr**	3	**32.080**	ug/l	320.80	0.2	4500	74	P	
95	**Mo**	3	**0.338**	ug/l	3.38	6.2	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	2.9	450	103	P	
111	**Cd**	3	**0.272**	ug/l	2.72	6.5	900	103	P	
118	**Sn**	3	**0.841**	ug/l	8.41	2.9	4500	103	P	
121	**Sb**	3	**0.503**	ug/l	5.03	6.3	4500	103	P	
135	**Ba**	3	**307.300**	ug/l	3,073.00	1.1	4500	103	P	
200	**Hg**	3	**146.600**	ug/l	1,466.00	0.5	45	209	P	Fail
205	**Tl**	3	**0.217**	ug/l	2.17	5.1	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.0	4500	209	P	
238	**U**	3	**0.395**	ug/l	3.95	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3577140	1.74	5119000	**69.9**	30	-	120	
45	Sc	1	215106	0.39	341400	**63.0**	30	-	120	
45	Sc	2	266751	0.29	273900	**97.4**	30	-	120	
74	Ge	1	153329	1.02	283600	**54.1**	30	-	120	
74	Ge	2	366646	1.19	422600	**86.8**	30	-	120	
74	Ge	3	1510257	0.59	1674000	**90.2**	30	-	120	
103	Rh	2	676929	1.11	814900	**83.1**	30	-	120	
103	Rh	3	1332144	2.38	1535000	**86.8**	30	-	120	
165	Ho	3	3022583	0.23	3236000	**93.4**	30	-	120	
175	Lu	3	3380510	0.82	3584000	**94.3**	30	-	120	
209	Bi	3	6479245	1.24	7619000	**85.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\078SMPL.D\078SMPL.D#
Date Acquired: May 27 2010 09:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.155**	ug/l	11.55	4.6	450	6	P	
23	**Na**	2	**75.120**	ug/l	751.20	3.2	450000	45	P	
24	**Mg**	2	**173900.000**	ug/l	1,739,000.00	1.4	450000	45	A	
27	**Al**	2	**29010.000**	ug/l	290,100.00	1.5	450000	45	A	
31	**P**	2	**663.000**	ug/l	6,630.00	1.6	450000	45	P	
39	**K**	2	**2205.000**	ug/l	22,050.00	1.2	450000	45	P	
44	**Ca**	2	**2925.000**	ug/l	29,250.00	0.8	450000	45	P	
47	**Ti**	2	**106.700**	ug/l	1,067.00	5.0	4500	45	P	
51	**V**	2	**93.340**	ug/l	933.40	1.2	4500	45	P	
52	**Cr**	2	**654.700**	ug/l	6,547.00	1.6	4500	45	A	
54	**Fe**	2	**112700.000**	ug/l	1,127,000.00	1.6	450000	74	A	
55	**Mn**	2	**1973.000**	ug/l	19,730.00	0.7	15000	45	A	
59	**Co**	2	**154.300**	ug/l	1,543.00	1.1	4500	45	P	
60	**Ni**	2	**2596.000**	ug/l	25,960.00	0.7	15000	45	A	
63	**Cu**	2	**73.270**	ug/l	732.70	0.6	15000	45	P	
66	**Zn**	2	**164.500**	ug/l	1,645.00	1.9	15000	45	P	
75	**As**	2	**14.430**	ug/l	144.30	4.0	4500	74	P	
78	**Se**	2	**1.205**	ug/l	12.05	75.9	4500	74	P	
88	**Sr**	3	**19.790**	ug/l	197.90	1.0	4500	74	P	
95	**Mo**	3	**0.971**	ug/l	9.71	9.6	4500	74	P	
107	**Ag**	3	**0.131**	ug/l	1.31	3.5	450	103	P	
111	**Cd**	3	**0.328**	ug/l	3.28	8.5	900	103	P	
118	**Sn**	3	**1.017**	ug/l	10.17	8.8	4500	103	P	
121	**Sb**	3	**1.082**	ug/l	10.82	2.5	4500	103	P	
135	**Ba**	3	**573.100**	ug/l	5,731.00	1.2	4500	103	P	
200	**Hg**	3	**111.800**	ug/l	1,118.00	1.6	45	209	P	Fail
205	**Tl**	3	**0.225**	ug/l	2.25	8.9	4500	209	P	
208	**Pb**	3	**46.970**	ug/l	469.70	1.3	4500	209	P	
238	**U**	3	**0.358**	ug/l	3.58	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3667494	0.61	5119000	**71.6**	30	-	120	
45	Sc	1	197045	0.86	341400	**57.7**	30	-	120	
45	Sc	2	263694	1.40	273900	**96.3**	30	-	120	
74	Ge	1	147769	0.75	283600	**52.1**	30	-	120	
74	Ge	2	375097	1.00	422600	**88.8**	30	-	120	
74	Ge	3	1516180	1.64	1674000	**90.6**	30	-	120	
103	Rh	2	689196	1.08	814900	**84.6**	30	-	120	
103	Rh	3	1356274	1.13	1535000	**88.4**	30	-	120	
165	Ho	3	3047825	0.68	3236000	**94.2**	30	-	120	
175	Lu	3	3358047	1.39	3584000	**93.7**	30	-	120	
209	Bi	3	6506353	0.82	7619000	**85.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\079SMPL.D\079SMPL.D#
Date Acquired: May 27 2010 09:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.040**	ug/l	53.04	1.2	450	6	P	
23	**Na**	2	**5002.000**	ug/l	5,002.00	2.4	450000	45	A	
24	**Mg**	2	**5137.000**	ug/l	5,137.00	2.2	450000	45	A	
27	**Al**	2	**513.200**	ug/l	513.20	1.6	450000	45	P	
31	**P**	2	**5031.000**	ug/l	5,031.00	2.4	450000	45	P	
39	**K**	2	**5356.000**	ug/l	5,356.00	1.2	450000	45	A	
44	**Ca**	2	**5214.000**	ug/l	5,214.00	1.7	450000	45	P	
47	**Ti**	2	**52.810**	ug/l	52.81	2.4	4500	45	P	
51	**V**	2	**52.480**	ug/l	52.48	2.8	4500	45	P	
52	**Cr**	2	**53.480**	ug/l	53.48	2.4	4500	45	P	
54	**Fe**	2	**5205.000**	ug/l	5,205.00	1.2	450000	74	P	
55	**Mn**	2	**53.960**	ug/l	53.96	2.0	15000	45	P	
59	**Co**	2	**53.770**	ug/l	53.77	1.9	4500	45	P	
60	**Ni**	2	**55.920**	ug/l	55.92	0.8	15000	45	P	
63	**Cu**	2	**54.230**	ug/l	54.23	1.4	15000	45	P	
66	**Zn**	2	**54.760**	ug/l	54.76	1.7	15000	45	P	
75	**As**	2	**51.970**	ug/l	51.97	1.4	4500	74	P	
78	**Se**	2	**59.180**	ug/l	59.18	6.9	4500	74	P	
88	**Sr**	3	**53.070**	ug/l	53.07	2.0	4500	74	P	
95	**Mo**	3	**53.020**	ug/l	53.02	2.3	4500	74	P	
107	**Ag**	3	**52.160**	ug/l	52.16	0.9	450	103	P	
111	**Cd**	3	**52.200**	ug/l	52.20	2.4	900	103	P	
118	**Sn**	3	**52.070**	ug/l	52.07	2.4	4500	103	P	
121	**Sb**	3	**52.450**	ug/l	52.45	2.0	4500	103	P	
135	**Ba**	3	**52.750**	ug/l	52.75	2.6	4500	103	P	
200	**Hg**	3	**4.455**	ug/l	4.46	1.2	45	209	P	
205	**Tl**	3	**51.850**	ug/l	51.85	3.3	4500	209	P	
208	**Pb**	3	**52.840**	ug/l	52.84	2.0	4500	209	P	
238	**U**	3	**51.010**	ug/l	51.01	2.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3836967	1.62	5119000	**75.0**	30	-	120	
45	Sc	1	204612	0.27	341400	**59.9**	30	-	120	
45	Sc	2	232187	2.06	273900	**84.8**	30	-	120	
74	Ge	1	175654	0.68	283600	**61.9**	30	-	120	
74	Ge	2	378946	1.20	422600	**89.7**	30	-	120	
74	Ge	3	1522366	1.49	1674000	**90.9**	30	-	120	
103	Rh	2	720662	0.44	814900	**88.4**	30	-	120	
103	Rh	3	1396247	1.04	1535000	**91.0**	30	-	120	
165	Ho	3	3032068	0.60	3236000	**93.7**	30	-	120	
175	Lu	3	3388139	1.32	3584000	**94.5**	30	-	120	
209	Bi	3	7054861	0.68	7619000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\080SMPL.D\080SMPL.D#
Date Acquired: May 27 2010 09:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**4.040**	ug/l	4.04	10.5	450000	45	P	
24	**Mg**	2	**10.890**	ug/l	10.89	1.4	450000	45	P	
27	**Al**	2	**1.602**	ug/l	1.60	7.7	450000	45	P	
31	**P**	2	**-1.610**	ug/l	-1.61	384.2	450000	45	P	
39	**K**	2	**11.650**	ug/l	11.65	34.6	450000	45	P	
44	**Ca**	2	**3.423**	ug/l	3.42	41.3	450000	45	P	
47	**Ti**	2	**0.048**	ug/l	0.05	59.4	4500	45	P	
51	**V**	2	**-0.110**	ug/l	-0.11	12.6	4500	45	P	
52	**Cr**	2	**0.058**	ug/l	0.06	72.2	4500	45	P	
54	**Fe**	2	**6.053**	ug/l	6.05	11.8	450000	74	P	
55	**Mn**	2	**0.183**	ug/l	0.18	11.7	15000	45	P	
59	**Co**	2	**0.022**	ug/l	0.02	17.1	4500	45	P	
60	**Ni**	2	**0.183**	ug/l	0.18	78.9	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	19.4	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	25.4	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	37.6	4500	74	P	
78	**Se**	2	**-0.106**	ug/l	-0.11	134.4	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	58.4	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	50.5	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	25.8	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.028**	ug/l	0.03	36.6	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	12.5	4500	103	P	
135	**Ba**	3	**0.028**	ug/l	0.03	39.7	4500	103	P	
200	**Hg**	3	**1.491**	ug/l	1.49	0.8	45	209	P	
205	**Tl**	3	**0.324**	ug/l	0.32	3.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	27.0	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3802756	1.76	5119000	**74.3**	30	-	120	
45	Sc	1	222447	1.35	341400	**65.2**	30	-	120	
45	Sc	2	236914	0.55	273900	**86.5**	30	-	120	
74	Ge	1	194874	0.61	283600	**68.7**	30	-	120	
74	Ge	2	392403	0.76	422600	**92.9**	30	-	120	
74	Ge	3	1512202	2.43	1674000	**90.3**	30	-	120	
103	Rh	2	760092	1.00	814900	**93.3**	30	-	120	
103	Rh	3	1434895	1.43	1535000	**93.5**	30	-	120	
165	Ho	3	3064398	0.80	3236000	**94.7**	30	-	120	
175	Lu	3	3390854	0.91	3584000	**94.6**	30	-	120	
209	Bi	3	7264491	0.50	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\081SMPL.D\081SMPL.D#
Date Acquired: May 27 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.424**	ug/l	14.24	0.6	450	6	P	
23	**Na**	2	**90.970**	ug/l	909.70	5.2	450000	45	P	
24	**Mg**	2	**104000.000**	ug/l	1,040,000.00	0.9	450000	45	A	
27	**Al**	2	**41840.000**	ug/l	418,400.00	1.5	450000	45	A	
31	**P**	2	**590.100**	ug/l	5,901.00	1.9	450000	45	P	
39	**K**	2	**2911.000**	ug/l	29,110.00	1.1	450000	45	A	
44	**Ca**	2	**2636.000**	ug/l	26,360.00	1.7	450000	45	P	
47	**Ti**	2	**99.920**	ug/l	999.20	2.4	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.4	4500	45	P	
52	**Cr**	2	**783.900**	ug/l	7,839.00	0.8	4500	45	A	
54	**Fe**	2	**127200.000**	ug/l	1,272,000.00	0.9	450000	74	A	
55	**Mn**	2	**2386.000**	ug/l	23,860.00	0.6	15000	45	A	
59	**Co**	2	**171.900**	ug/l	1,719.00	0.3	4500	45	P	
60	**Ni**	2	**2544.000**	ug/l	25,440.00	0.2	15000	45	A	
63	**Cu**	2	**74.900**	ug/l	749.00	1.1	15000	45	P	
66	**Zn**	2	**153.300**	ug/l	1,533.00	0.3	15000	45	P	
75	**As**	2	**21.050**	ug/l	210.50	0.2	4500	74	P	
78	**Se**	2	**1.247**	ug/l	12.47	52.2	4500	74	P	
88	**Sr**	3	**21.930**	ug/l	219.30	1.5	4500	74	P	
95	**Mo**	3	**0.855**	ug/l	8.55	3.7	4500	74	P	
107	**Ag**	3	**0.157**	ug/l	1.57	6.1	450	103	P	
111	**Cd**	3	**0.366**	ug/l	3.66	12.5	900	103	P	
118	**Sn**	3	**1.508**	ug/l	15.08	1.9	4500	103	P	
121	**Sb**	3	**1.211**	ug/l	12.11	3.3	4500	103	P	
135	**Ba**	3	**841.600**	ug/l	8,416.00	1.8	4500	103	P	
200	**Hg**	3	**627.600**	ug/l	6,276.00	1.0	45	209	A	Fail
205	**Tl**	3	**0.359**	ug/l	3.59	1.9	4500	209	P	
208	**Pb**	3	**25.440**	ug/l	254.40	0.2	4500	209	P	
238	**U**	3	**0.333**	ug/l	3.33	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3658549	1.09	5119000	**71.5**	30	-	120	
45	Sc	1	216069	0.43	341400	**63.3**	30	-	120	
45	Sc	2	267962	0.98	273900	**97.8**	30	-	120	
74	Ge	1	160980	0.77	283600	**56.8**	30	-	120	
74	Ge	2	381447	0.90	422600	**90.3**	30	-	120	
74	Ge	3	1526867	2.33	1674000	**91.2**	30	-	120	
103	Rh	2	694902	1.21	814900	**85.3**	30	-	120	
103	Rh	3	1374438	1.62	1535000	**89.5**	30	-	120	
165	Ho	3	3056074	0.22	3236000	**94.4**	30	-	120	
175	Lu	3	3398875	1.61	3584000	**94.8**	30	-	120	
209	Bi	3	6638683	0.61	7619000	**87.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\082SMPL.D\082SMPL.D#
Date Acquired: May 27 2010 09:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.456**	ug/l	14.56	2.8	450	6	P	
23	**Na**	2	**87.550**	ug/l	875.50	41.7	450000	45	P	
24	**Mg**	2	**29620.000**	ug/l	296,200.00	0.5	450000	45	A	
27	**Al**	2	**34050.000**	ug/l	340,500.00	1.3	450000	45	A	
31	**P**	2	**644.900**	ug/l	6,449.00	2.8	450000	45	P	
39	**K**	2	**2269.000**	ug/l	22,690.00	1.6	450000	45	A	
44	**Ca**	2	**1944.000**	ug/l	19,440.00	1.6	450000	45	P	
47	**Ti**	2	**1248.000**	ug/l	12,480.00	0.5	4500	45	P	
51	**V**	2	**99.580**	ug/l	995.80	0.7	4500	45	P	
52	**Cr**	2	**300.400**	ug/l	3,004.00	0.8	4500	45	P	
54	**Fe**	2	**75720.000**	ug/l	757,200.00	1.8	450000	74	A	
55	**Mn**	2	**1119.000**	ug/l	11,190.00	1.5	15000	45	A	
59	**Co**	2	**58.070**	ug/l	580.70	0.6	4500	45	P	
60	**Ni**	2	**610.400**	ug/l	6,104.00	0.4	15000	45	P	
63	**Cu**	2	**62.760**	ug/l	627.60	0.8	15000	45	P	
66	**Zn**	2	**131.300**	ug/l	1,313.00	0.3	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	4.4	4500	74	P	
78	**Se**	2	**0.645**	ug/l	6.45	21.7	4500	74	P	
88	**Sr**	3	**10.430**	ug/l	104.30	1.5	4500	74	P	
95	**Mo**	3	**0.755**	ug/l	7.55	11.3	4500	74	P	
107	**Ag**	3	**0.030**	ug/l	0.30	16.2	450	103	P	
111	**Cd**	3	**0.284**	ug/l	2.84	9.6	900	103	P	
118	**Sn**	3	**1.358**	ug/l	13.58	1.6	4500	103	P	
121	**Sb**	3	**0.968**	ug/l	9.68	3.6	4500	103	P	
135	**Ba**	3	**239.300**	ug/l	2,393.00	1.8	4500	103	P	
200	**Hg**	3	**16.930**	ug/l	169.30	2.4	45	209	P	
205	**Tl**	3	**0.261**	ug/l	2.61	1.8	4500	209	P	
208	**Pb**	3	**24.090**	ug/l	240.90	1.0	4500	209	P	
238	**U**	3	**0.997**	ug/l	9.97	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3899313	2.09	5119000	**76.2**	30	-	120	
45	Sc	1	199337	1.62	341400	**58.4**	30	-	120	
45	Sc	2	260761	0.46	273900	**95.2**	30	-	120	
74	Ge	1	155718	1.69	283600	**54.9**	30	-	120	
74	Ge	2	386664	1.48	422600	**91.5**	30	-	120	
74	Ge	3	1608222	1.62	1674000	**96.1**	30	-	120	
103	Rh	2	722030	0.80	814900	**88.6**	30	-	120	
103	Rh	3	1461609	1.17	1535000	**95.2**	30	-	120	
165	Ho	3	3154200	0.58	3236000	**97.5**	30	-	120	
175	Lu	3	3513231	1.18	3584000	**98.0**	30	-	120	
209	Bi	3	6996478	0.90	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\083SMPL.D\083SMPL.D#
Date Acquired: May 27 2010 10:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.108**	ug/l	11.08	3.7	450	6	P	
23	**Na**	2	**90.630**	ug/l	906.30	6.3	450000	45	P	
24	**Mg**	2	**37410.000**	ug/l	374,100.00	1.0	450000	45	A	
27	**Al**	2	**29690.000**	ug/l	296,900.00	1.3	450000	45	A	
31	**P**	2	**887.800**	ug/l	8,878.00	3.8	450000	45	P	
39	**K**	2	**2754.000**	ug/l	27,540.00	0.5	450000	45	A	
44	**Ca**	2	**6506.000**	ug/l	65,060.00	0.8	450000	45	P	
47	**Ti**	2	**696.500**	ug/l	6,965.00	0.8	4500	45	P	
51	**V**	2	**96.070**	ug/l	960.70	0.7	4500	45	P	
52	**Cr**	2	**282.000**	ug/l	2,820.00	0.9	4500	45	P	
54	**Fe**	2	**69710.000**	ug/l	697,100.00	1.3	450000	74	A	
55	**Mn**	2	**1383.000**	ug/l	13,830.00	0.2	15000	45	A	
59	**Co**	2	**54.000**	ug/l	540.00	0.5	4500	45	P	
60	**Ni**	2	**562.200**	ug/l	5,622.00	0.9	15000	45	P	
63	**Cu**	2	**78.080**	ug/l	780.80	1.4	15000	45	P	
66	**Zn**	2	**128.500**	ug/l	1,285.00	0.3	15000	45	P	
75	**As**	2	**14.740**	ug/l	147.40	2.7	4500	74	P	
78	**Se**	2	**0.307**	ug/l	3.07	203.3	4500	74	P	
88	**Sr**	3	**47.400**	ug/l	474.00	1.2	4500	74	P	
95	**Mo**	3	**1.632**	ug/l	16.32	6.3	4500	74	P	
107	**Ag**	3	**0.095**	ug/l	0.95	15.3	450	103	P	
111	**Cd**	3	**0.281**	ug/l	2.81	20.7	900	103	P	
118	**Sn**	3	**1.052**	ug/l	10.52	4.4	4500	103	P	
121	**Sb**	3	**1.017**	ug/l	10.17	2.9	4500	103	P	
135	**Ba**	3	**488.000**	ug/l	4,880.00	1.2	4500	103	P	
200	**Hg**	3	**72.920**	ug/l	729.20	1.1	45	209	P	Fail
205	**Tl**	3	**0.204**	ug/l	2.04	2.6	4500	209	P	
208	**Pb**	3	**25.350**	ug/l	253.50	0.4	4500	209	P	
238	**U**	3	**0.466**	ug/l	4.66	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3939096	1.22	5119000	**77.0**	30	-	120	
45	Sc	1	202387	1.02	341400	**59.3**	30	-	120	
45	Sc	2	263809	0.63	273900	**96.3**	30	-	120	
74	Ge	1	161520	1.87	283600	**57.0**	30	-	120	
74	Ge	2	390608	0.77	422600	**92.4**	30	-	120	
74	Ge	3	1604168	1.23	1674000	**95.8**	30	-	120	
103	Rh	2	721547	0.61	814900	**88.5**	30	-	120	
103	Rh	3	1428271	1.05	1535000	**93.0**	30	-	120	
165	Ho	3	3123711	1.18	3236000	**96.5**	30	-	120	
175	Lu	3	3485432	0.96	3584000	**97.2**	30	-	120	
209	Bi	3	6945183	0.99	7619000	**91.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\084SMPL.D\084SMPL.D#
Date Acquired: May 27 2010 10:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.101**	ug/l	11.01	5.6	450	6	P	
23	**Na**	2	**85.980**	ug/l	859.80	2.4	450000	45	P	
24	**Mg**	2	**84630.000**	ug/l	846,300.00	1.0	450000	45	A	
27	**Al**	2	**27650.000**	ug/l	276,500.00	1.4	450000	45	A	
31	**P**	2	**603.300**	ug/l	6,033.00	5.2	450000	45	P	
39	**K**	2	**2199.000**	ug/l	21,990.00	0.7	450000	45	M	
44	**Ca**	2	**3728.000**	ug/l	37,280.00	0.5	450000	45	P	
47	**Ti**	2	**500.200**	ug/l	5,002.00	0.7	4500	45	P	
51	**V**	2	**105.200**	ug/l	1,052.00	1.4	4500	45	P	
52	**Cr**	2	**703.300**	ug/l	7,033.00	0.2	4500	45	A	
54	**Fe**	2	**98670.000**	ug/l	986,700.00	1.7	450000	74	A	
55	**Mn**	2	**2692.000**	ug/l	26,920.00	0.9	15000	45	A	
59	**Co**	2	**143.600**	ug/l	1,436.00	0.3	4500	45	P	
60	**Ni**	2	**1995.000**	ug/l	19,950.00	0.2	15000	45	A	
63	**Cu**	2	**76.700**	ug/l	767.00	1.3	15000	45	P	
66	**Zn**	2	**140.900**	ug/l	1,409.00	1.5	15000	45	P	
75	**As**	2	**17.660**	ug/l	176.60	1.1	4500	74	P	
78	**Se**	2	**0.997**	ug/l	9.97	67.6	4500	74	P	
88	**Sr**	3	**28.080**	ug/l	280.80	0.9	4500	74	P	
95	**Mo**	3	**1.396**	ug/l	13.96	6.9	4500	74	P	
107	**Ag**	3	**0.093**	ug/l	0.93	12.4	450	103	P	
111	**Cd**	3	**0.282**	ug/l	2.82	3.7	900	103	P	
118	**Sn**	3	**0.990**	ug/l	9.90	8.9	4500	103	P	
121	**Sb**	3	**1.999**	ug/l	19.99	4.7	4500	103	P	
135	**Ba**	3	**549.100**	ug/l	5,491.00	1.0	4500	103	P	
200	**Hg**	3	**752.600**	ug/l	7,526.00	1.3	45	209	A	Fail
205	**Tl**	3	**0.195**	ug/l	1.95	1.7	4500	209	P	
208	**Pb**	3	**51.130**	ug/l	511.30	1.6	4500	209	P	
238	**U**	3	**0.550**	ug/l	5.50	0.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3703882	1.90	5119000	**72.4**	30	-	120	
45	Sc	1	191486	0.94	341400	**56.1**	30	-	120	
45	Sc	2	261502	0.98	273900	**95.5**	30	-	120	
74	Ge	1	145486	1.59	283600	**51.3**	30	-	120	
74	Ge	2	382587	1.40	422600	**90.5**	30	-	120	
74	Ge	3	1533587	0.79	1674000	**91.6**	30	-	120	
103	Rh	2	708580	1.52	814900	**87.0**	30	-	120	
103	Rh	3	1383990	1.17	1535000	**90.2**	30	-	120	
165	Ho	3	3105760	1.03	3236000	**96.0**	30	-	120	
175	Lu	3	3415428	0.81	3584000	**95.3**	30	-	120	
209	Bi	3	6751332	2.01	7619000	**88.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\085SMPL.D\085SMPL.D#
Date Acquired: May 27 2010 10:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.424**	ug/l	4.24	6.8	450	6	P	
23	**Na**	2	**152.100**	ug/l	1,521.00	1.8	450000	45	P	
24	**Mg**	2	**145200.000**	ug/l	1,452,000.00	1.1	450000	45	A	
27	**Al**	2	**38350.000**	ug/l	383,500.00	1.6	450000	45	A	
31	**P**	2	**255.500**	ug/l	2,555.00	8.9	450000	45	P	
39	**K**	2	**936.500**	ug/l	9,365.00	2.1	450000	45	P	
44	**Ca**	2	**3999.000**	ug/l	39,990.00	2.1	450000	45	P	
47	**Ti**	2	**575.400**	ug/l	5,754.00	0.9	4500	45	P	
51	**V**	2	**116.900**	ug/l	1,169.00	1.8	4500	45	P	
52	**Cr**	2	**1952.000**	ug/l	19,520.00	1.4	4500	45	A	
54	**Fe**	2	**116700.000**	ug/l	1,167,000.00	1.5	450000	74	A	
55	**Mn**	2	**1526.000**	ug/l	15,260.00	0.8	15000	45	A	
59	**Co**	2	**187.700**	ug/l	1,877.00	1.2	4500	45	P	
60	**Ni**	2	**2929.000**	ug/l	29,290.00	0.5	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	683.70	1.8	15000	45	P	
66	**Zn**	2	**83.120**	ug/l	831.20	1.6	15000	45	P	
75	**As**	2	**18.390**	ug/l	183.90	1.8	4500	74	P	
78	**Se**	2	**0.283**	ug/l	2.83	184.4	4500	74	P	
88	**Sr**	3	**24.470**	ug/l	244.70	0.3	4500	74	P	
95	**Mo**	3	**0.293**	ug/l	2.93	5.8	4500	74	P	
107	**Ag**	3	**0.050**	ug/l	0.50	12.3	450	103	P	
111	**Cd**	3	**0.159**	ug/l	1.59	16.4	900	103	P	
118	**Sn**	3	**0.381**	ug/l	3.81	6.4	4500	103	P	
121	**Sb**	3	**0.504**	ug/l	5.04	0.7	4500	103	P	
135	**Ba**	3	**290.200**	ug/l	2,902.00	1.2	4500	103	P	
200	**Hg**	3	**27.900**	ug/l	279.00	0.3	45	209	P	
205	**Tl**	3	**0.188**	ug/l	1.88	0.6	4500	209	P	
208	**Pb**	3	**7.128**	ug/l	71.28	0.9	4500	209	P	
238	**U**	3	**0.122**	ug/l	1.22	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3515934	0.79	5119000	**68.7**	30	-	120	
45	Sc	1	195668	1.94	341400	**57.3**	30	-	120	
45	Sc	2	259539	0.38	273900	**94.8**	30	-	120	
74	Ge	1	146643	2.34	283600	**51.7**	30	-	120	
74	Ge	2	367871	1.30	422600	**87.0**	30	-	120	
74	Ge	3	1496607	0.20	1674000	**89.4**	30	-	120	
103	Rh	2	688541	1.42	814900	**84.5**	30	-	120	
103	Rh	3	1356879	0.50	1535000	**88.4**	30	-	120	
165	Ho	3	3042941	1.40	3236000	**94.0**	30	-	120	
175	Lu	3	3376903	0.58	3584000	**94.2**	30	-	120	
209	Bi	3	6607722	1.17	7619000	**86.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\086SMPL.D\086SMPL.D#
Date Acquired: May 27 2010 10:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.941**	ug/l	9.41	4.0	450	6	P	
23	**Na**	2	**39.350**	ug/l	393.50	2.2	450000	45	P	
24	**Mg**	2	**75200.000**	ug/l	752,000.00	2.2	450000	45	A	
27	**Al**	2	**17920.000**	ug/l	179,200.00	0.4	450000	45	A	
31	**P**	2	**730.800**	ug/l	7,308.00	4.0	450000	45	P	
39	**K**	2	**2323.000**	ug/l	23,230.00	1.0	450000	45	A	
44	**Ca**	2	**2446.000**	ug/l	24,460.00	0.4	450000	45	P	
47	**Ti**	2	**105.200**	ug/l	1,052.00	5.1	4500	45	P	
51	**V**	2	**83.200**	ug/l	832.00	0.8	4500	45	P	
52	**Cr**	2	**484.300**	ug/l	4,843.00	0.6	4500	45	A	
54	**Fe**	2	**101300.000**	ug/l	1,013,000.00	1.3	450000	74	A	
55	**Mn**	2	**1635.000**	ug/l	16,350.00	1.1	15000	45	A	
59	**Co**	2	**139.400**	ug/l	1,394.00	0.2	4500	45	P	
60	**Ni**	2	**2520.000**	ug/l	25,200.00	2.0	15000	45	A	
63	**Cu**	2	**64.480**	ug/l	644.80	0.7	15000	45	P	
66	**Zn**	2	**139.400**	ug/l	1,394.00	1.3	15000	45	P	
75	**As**	2	**14.410**	ug/l	144.10	5.1	4500	74	P	
78	**Se**	2	**0.748**	ug/l	7.48	68.4	4500	74	P	
88	**Sr**	3	**27.340**	ug/l	273.40	2.0	4500	74	P	
95	**Mo**	3	**1.170**	ug/l	11.70	7.5	4500	74	P	
107	**Ag**	3	**0.127**	ug/l	1.27	3.2	450	103	P	
111	**Cd**	3	**0.239**	ug/l	2.39	13.9	900	103	P	
118	**Sn**	3	**2.078**	ug/l	20.78	1.4	4500	103	P	
121	**Sb**	3	**2.469**	ug/l	24.69	1.9	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.6	4500	103	P	
200	**Hg**	3	**66.040**	ug/l	660.40	1.7	45	209	P	Fail
205	**Tl**	3	**0.211**	ug/l	2.11	9.8	4500	209	P	
208	**Pb**	3	**233.600**	ug/l	2,336.00	1.4	4500	209	A	
238	**U**	3	**0.335**	ug/l	3.35	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611349	1.03	5119000	**70.5**	30	-	120	
45	Sc	1	188403	2.08	341400	**55.2**	30	-	120	
45	Sc	2	259143	0.94	273900	**94.6**	30	-	120	
74	Ge	1	144971	1.29	283600	**51.1**	30	-	120	
74	Ge	2	381922	1.24	422600	**90.4**	30	-	120	
74	Ge	3	1512008	1.25	1674000	**90.3**	30	-	120	
103	Rh	2	706642	1.38	814900	**86.7**	30	-	120	
103	Rh	3	1378286	1.56	1535000	**89.8**	30	-	120	
165	Ho	3	3062666	0.85	3236000	**94.6**	30	-	120	
175	Lu	3	3349822	1.64	3584000	**93.5**	30	-	120	
209	Bi	3	6677571	1.72	7619000	**87.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\087SMPL.D\087SMPL.D#
Date Acquired: May 27 2010 10:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.230**	ug/l	51.23	2.7	450	6	P	
23	**Na**	2	**5015.000**	ug/l	5,015.00	3.6	450000	45	A	
24	**Mg**	2	**5134.000**	ug/l	5,134.00	2.9	450000	45	A	
27	**Al**	2	**500.200**	ug/l	500.20	1.1	450000	45	P	
31	**P**	2	**4890.000**	ug/l	4,890.00	1.0	450000	45	P	
39	**K**	2	**5265.000**	ug/l	5,265.00	1.7	450000	45	A	
44	**Ca**	2	**5221.000**	ug/l	5,221.00	3.1	450000	45	P	
47	**Ti**	2	**52.670**	ug/l	52.67	1.4	4500	45	P	
51	**V**	2	**52.340**	ug/l	52.34	1.3	4500	45	P	
52	**Cr**	2	**53.230**	ug/l	53.23	2.0	4500	45	P	
54	**Fe**	2	**5169.000**	ug/l	5,169.00	0.5	450000	74	P	
55	**Mn**	2	**53.920**	ug/l	53.92	1.4	15000	45	P	
59	**Co**	2	**53.190**	ug/l	53.19	1.6	4500	45	P	
60	**Ni**	2	**54.100**	ug/l	54.10	0.2	15000	45	P	
63	**Cu**	2	**53.860**	ug/l	53.86	1.0	15000	45	P	
66	**Zn**	2	**54.850**	ug/l	54.85	1.4	15000	45	P	
75	**As**	2	**51.370**	ug/l	51.37	1.5	4500	74	P	
78	**Se**	2	**50.110**	ug/l	50.11	6.8	4500	74	P	
88	**Sr**	3	**53.910**	ug/l	53.91	0.1	4500	74	P	
95	**Mo**	3	**53.810**	ug/l	53.81	0.6	4500	74	P	
107	**Ag**	3	**51.830**	ug/l	51.83	2.3	450	103	P	
111	**Cd**	3	**51.540**	ug/l	51.54	1.8	900	103	P	
118	**Sn**	3	**52.510**	ug/l	52.51	2.7	4500	103	P	
121	**Sb**	3	**52.680**	ug/l	52.68	2.8	4500	103	P	
135	**Ba**	3	**53.690**	ug/l	53.69	3.6	4500	103	P	
200	**Hg**	3	**4.330**	ug/l	4.33	1.3	45	209	P	
205	**Tl**	3	**51.770**	ug/l	51.77	2.6	4500	209	P	
208	**Pb**	3	**52.880**	ug/l	52.88	2.0	4500	209	P	
238	**U**	3	**52.020**	ug/l	52.02	3.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3727925	0.85	5119000	**72.8**	30	-	120	
45	Sc	1	195966	0.68	341400	**57.4**	30	-	120	
45	Sc	2	223784	1.67	273900	**81.7**	30	-	120	
74	Ge	1	165171	1.34	283600	**58.2**	30	-	120	
74	Ge	2	364915	1.06	422600	**86.4**	30	-	120	
74	Ge	3	1464999	2.25	1674000	**87.5**	30	-	120	
103	Rh	2	698555	1.62	814900	**85.7**	30	-	120	
103	Rh	3	1355518	0.85	1535000	**88.3**	30	-	120	
165	Ho	3	3016618	0.55	3236000	**93.2**	30	-	120	
175	Lu	3	3349103	0.92	3584000	**93.4**	30	-	120	
209	Bi	3	7001938	1.10	7619000	**91.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\088SMPL.D\088SMPL.D#
Date Acquired: May 27 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	42.2	450	6	P	
23	**Na**	2	**3.233**	ug/l	3.23	38.4	450000	45	P	
24	**Mg**	2	**6.984**	ug/l	6.98	5.1	450000	45	P	
27	**Al**	2	**1.632**	ug/l	1.63	23.2	450000	45	P	
31	**P**	2	**-5.544**	ug/l	-5.54	21.3	450000	45	P	
39	**K**	2	**9.779**	ug/l	9.78	40.6	450000	45	P	
44	**Ca**	2	**3.008**	ug/l	3.01	56.7	450000	45	P	
47	**Ti**	2	**0.035**	ug/l	0.03	70.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	47.8	4500	45	P	
52	**Cr**	2	**0.045**	ug/l	0.05	103.9	4500	45	P	
54	**Fe**	2	**5.699**	ug/l	5.70	13.1	450000	74	P	
55	**Mn**	2	**0.208**	ug/l	0.21	5.7	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	5.7	4500	45	P	
60	**Ni**	2	**0.204**	ug/l	0.20	16.9	15000	45	P	
63	**Cu**	2	**0.022**	ug/l	0.02	47.8	15000	45	P	
66	**Zn**	2	**0.140**	ug/l	0.14	20.5	15000	45	P	
75	**As**	2	**-0.053**	ug/l	-0.05	24.6	4500	74	P	
78	**Se**	2	**0.085**	ug/l	0.08	446.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	44.6	4500	74	P	
95	**Mo**	3	**0.011**	ug/l	0.01	111.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	43.0	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	176.7	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.04	27.0	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	26.0	4500	103	P	
135	**Ba**	3	**0.032**	ug/l	0.03	32.7	4500	103	P	
200	**Hg**	3	**1.504**	ug/l	1.50	0.9	45	209	P	
205	**Tl**	3	**0.331**	ug/l	0.33	8.9	4500	209	P	
208	**Pb**	3	**0.023**	ug/l	0.02	11.7	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3539394	0.62	5119000	**69.1**	30	-	120	
45	Sc	1	205779	1.30	341400	**60.3**	30	-	120	
45	Sc	2	227463	0.70	273900	**83.0**	30	-	120	
74	Ge	1	180855	0.85	283600	**63.8**	30	-	120	
74	Ge	2	378403	0.93	422600	**89.5**	30	-	120	
74	Ge	3	1451116	0.92	1674000	**86.7**	30	-	120	
103	Rh	2	740264	0.51	814900	**90.8**	30	-	120	
103	Rh	3	1369834	1.11	1535000	**89.2**	30	-	120	
165	Ho	3	2989092	0.62	3236000	**92.4**	30	-	120	
175	Lu	3	3331687	0.94	3584000	**93.0**	30	-	120	
209	Bi	3	7166026	0.69	7619000	**94.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\089SMPL.D\089SMPL.D#
Date Acquired: May 27 2010 10:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	85.3	450	6	P	
23	**Na**	2	**5.484**	ug/l	5.48	220.8	450000	45	P	
24	**Mg**	2	**1.932**	ug/l	1.93	7.4	450000	45	P	
27	**Al**	2	**0.450**	ug/l	0.45	9.0	450000	45	P	
31	**P**	2	**-10.130**	ug/l	-10.13	37.6	450000	45	P	
39	**K**	2	**12.610**	ug/l	12.61	166.7	450000	45	P	
44	**Ca**	2	**-0.272**	ug/l	-0.27	290.1	450000	45	P	
47	**Ti**	2	**0.008**	ug/l	0.01	176.1	4500	45	P	
51	**V**	2	**-0.104**	ug/l	-0.10	89.6	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	403.7	4500	45	P	
54	**Fe**	2	**1.188**	ug/l	1.19	69.5	450000	74	P	
55	**Mn**	2	**0.154**	ug/l	0.15	24.6	15000	45	P	
59	**Co**	2	**0.008**	ug/l	0.01	12.8	4500	45	P	
60	**Ni**	2	**0.083**	ug/l	0.08	77.0	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.02	45.5	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	17.0	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	121.8	4500	74	P	
78	**Se**	2	**0.158**	ug/l	0.16	347.3	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.00	41.2	4500	74	P	
95	**Mo**	3	**-0.008**	ug/l	-0.01	55.9	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	0.00	76.8	450	103	P	
111	**Cd**	3	**0.000**	ug/l	0.00	587.3	900	103	P	
118	**Sn**	3	**0.010**	ug/l	0.01	78.5	4500	103	P	
121	**Sb**	3	**0.010**	ug/l	0.01	58.7	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	161.0	4500	103	P	
200	**Hg**	3	**1.390**	ug/l	1.39	2.4	45	209	P	
205	**Tl**	3	**0.118**	ug/l	0.12	10.1	4500	209	P	
208	**Pb**	3	**0.005**	ug/l	0.01	24.3	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	237.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3549359	1.47	5119000	**69.3**	30	-	120	
45	Sc	1	206146	1.32	341400	**60.4**	30	-	120	
45	Sc	2	222901	12.14	273900	**81.4**	30	-	120	
74	Ge	1	181795	0.79	283600	**64.1**	30	-	120	
74	Ge	2	372000	10.17	422600	**88.0**	30	-	120	
74	Ge	3	1438880	0.05	1674000	**86.0**	30	-	120	
103	Rh	2	728774	12.02	814900	**89.4**	30	-	120	
103	Rh	3	1390077	0.67	1535000	**90.6**	30	-	120	
165	Ho	3	3010248	0.22	3236000	**93.0**	30	-	120	
175	Lu	3	3381929	1.12	3584000	**94.4**	30	-	120	
209	Bi	3	7230005	0.67	7619000	**94.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\090SMPL.D\090SMPL.D#
Date Acquired: May 27 2010 10:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.01	90.8	450	6	P	
23	**Na**	2	**1214.000**	ug/l	6,070.00	2.0	450000	45	A	
24	**Mg**	2	**2004.000**	ug/l	10,020.00	1.2	450000	45	P	
27	**Al**	2	**27.230**	ug/l	136.15	2.5	450000	45	P	
31	**P**	2	**3.632**	ug/l	18.16	66.7	450000	45	P	
39	**K**	2	**401.500**	ug/l	2,007.50	2.2	450000	45	P	
44	**Ca**	2	**1723.000**	ug/l	8,615.00	3.7	450000	45	P	
47	**Ti**	2	**0.077**	ug/l	0.38	50.6	4500	45	P	
51	**V**	2	**1.524**	ug/l	7.62	8.5	4500	45	P	
52	**Cr**	2	**1.201**	ug/l	6.01	5.4	4500	45	P	
54	**Fe**	2	**2.471**	ug/l	12.36	19.5	450000	74	P	
55	**Mn**	2	**0.228**	ug/l	1.14	2.9	15000	45	P	
59	**Co**	2	**1.754**	ug/l	8.77	3.5	4500	45	P	
60	**Ni**	2	**0.247**	ug/l	1.23	32.2	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.23	37.3	15000	45	P	
66	**Zn**	2	**0.246**	ug/l	1.23	40.0	15000	45	P	
75	**As**	2	**0.503**	ug/l	2.52	2.3	4500	74	P	
78	**Se**	2	**-0.069**	ug/l	-0.35	425.4	4500	74	P	
88	**Sr**	3	**10.020**	ug/l	50.10	1.6	4500	74	P	
95	**Mo**	3	**0.054**	ug/l	0.27	33.6	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	212.7	450	103	P	
111	**Cd**	3	**-0.001**	ug/l	0.00	571.6	900	103	P	
118	**Sn**	3	**0.022**	ug/l	0.11	34.2	4500	103	P	
121	**Sb**	3	**0.019**	ug/l	0.09	24.1	4500	103	P	
135	**Ba**	3	**0.876**	ug/l	4.38	6.2	4500	103	P	
200	**Hg**	3	**0.708**	ug/l	3.54	3.5	45	209	P	
205	**Tl**	3	**0.071**	ug/l	0.36	8.5	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.04	25.9	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.04	47.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302573	1.83	5119000	**64.5**	30	-	120	
45	Sc	1	192925	0.50	341400	**56.5**	30	-	120	
45	Sc	2	219359	0.67	273900	**80.1**	30	-	120	
74	Ge	1	172757	1.57	283600	**60.9**	30	-	120	
74	Ge	2	370841	0.47	422600	**87.8**	30	-	120	
74	Ge	3	1445680	1.87	1674000	**86.4**	30	-	120	
103	Rh	2	708844	0.31	814900	**87.0**	30	-	120	
103	Rh	3	1341837	0.90	1535000	**87.4**	30	-	120	
165	Ho	3	2981920	0.80	3236000	**92.1**	30	-	120	
175	Lu	3	3327813	0.27	3584000	**92.9**	30	-	120	
209	Bi	3	7047988	0.94	7619000	**92.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\091SMPL.D\091SMPL.D#
Date Acquired: May 27 2010 11:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	80.1	450	6	P	
23	**Na**	2	**5902.000**	ug/l	5,902.00	0.3	450000	45	A	
24	**Mg**	2	**9439.000**	ug/l	9,439.00	0.8	450000	45	A	
27	**Al**	2	**7.775**	ug/l	7.78	6.3	450000	45	P	
31	**P**	2	**48.250**	ug/l	48.25	19.3	450000	45	P	
39	**K**	2	**2011.000**	ug/l	2,011.00	0.6	450000	45	P	
44	**Ca**	2	**8455.000**	ug/l	8,455.00	0.6	450000	45	P	
47	**Ti**	2	**0.368**	ug/l	0.37	22.4	4500	45	P	
51	**V**	2	**9.511**	ug/l	9.51	1.4	4500	45	P	
52	**Cr**	2	**5.894**	ug/l	5.89	1.3	4500	45	P	
54	**Fe**	2	**9.418**	ug/l	9.42	7.8	450000	74	P	
55	**Mn**	2	**0.718**	ug/l	0.72	1.2	15000	45	P	
59	**Co**	2	**8.794**	ug/l	8.79	0.8	4500	45	P	
60	**Ni**	2	**1.148**	ug/l	1.15	6.8	15000	45	P	
63	**Cu**	2	**0.440**	ug/l	0.44	18.2	15000	45	P	
66	**Zn**	2	**9.612**	ug/l	9.61	3.3	15000	45	P	
75	**As**	2	**2.491**	ug/l	2.49	6.4	4500	74	P	
78	**Se**	2	**-0.078**	ug/l	-0.08	184.3	4500	74	P	
88	**Sr**	3	**46.120**	ug/l	46.12	2.6	4500	74	P	
95	**Mo**	3	**0.229**	ug/l	0.23	15.7	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	2969.0	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	83.6	900	103	P	
118	**Sn**	3	**0.232**	ug/l	0.23	2.5	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	21.6	4500	103	P	
135	**Ba**	3	**4.332**	ug/l	4.33	4.0	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	0.24	4.1	45	209	P	
205	**Tl**	3	**0.065**	ug/l	0.06	9.1	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	3.0	4500	209	P	
238	**U**	3	**0.051**	ug/l	0.05	6.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2852653	1.29	5119000	**55.7**	30	-	120	
45	Sc	1	174932	2.55	341400	**51.2**	30	-	120	
45	Sc	2	204614	0.95	273900	**74.7**	30	-	120	
74	Ge	1	165368	1.29	283600	**58.3**	30	-	120	
74	Ge	2	375772	1.22	422600	**88.9**	30	-	120	
74	Ge	3	1433402	0.76	1674000	**85.6**	30	-	120	
103	Rh	2	656125	0.98	814900	**80.5**	30	-	120	
103	Rh	3	1262760	0.56	1535000	**82.3**	30	-	120	
165	Ho	3	2870410	0.86	3236000	**88.7**	30	-	120	
175	Lu	3	3167731	1.31	3584000	**88.4**	30	-	120	
209	Bi	3	6654344	0.39	7619000	**87.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\092SMPL.D\092SMPL.D#
Date Acquired: May 27 2010 11:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	37.6	450	6	P	
23	**Na**	2	**5879.000**	ug/l	5,879.00	3.6	450000	45	A	
24	**Mg**	2	**9319.000**	ug/l	9,319.00	2.5	450000	45	A	
27	**Al**	2	**7.238**	ug/l	7.24	9.3	450000	45	P	
31	**P**	2	**42.240**	ug/l	42.24	13.3	450000	45	P	
39	**K**	2	**2017.000**	ug/l	2,017.00	2.1	450000	45	P	
44	**Ca**	2	**8409.000**	ug/l	8,409.00	2.4	450000	45	P	
47	**Ti**	2	**0.550**	ug/l	0.55	51.2	4500	45	P	
51	**V**	2	**9.675**	ug/l	9.68	2.2	4500	45	P	
52	**Cr**	2	**5.945**	ug/l	5.95	1.5	4500	45	P	
54	**Fe**	2	**9.762**	ug/l	9.76	6.1	450000	74	P	
55	**Mn**	2	**0.706**	ug/l	0.71	1.5	15000	45	P	
59	**Co**	2	**8.750**	ug/l	8.75	1.6	4500	45	P	
60	**Ni**	2	**1.209**	ug/l	1.21	18.1	15000	45	P	
63	**Cu**	2	**0.379**	ug/l	0.38	7.2	15000	45	P	
66	**Zn**	2	**1.907**	ug/l	1.91	16.7	15000	45	P	
75	**As**	2	**2.480**	ug/l	2.48	5.1	4500	74	P	
78	**Se**	2	**-0.146**	ug/l	-0.15	448.2	4500	74	P	
88	**Sr**	3	**46.460**	ug/l	46.46	3.9	4500	74	P	
95	**Mo**	3	**0.262**	ug/l	0.26	28.8	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	111.3	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	0.00	420.1	900	103	P	
118	**Sn**	3	**0.121**	ug/l	0.12	6.7	4500	103	P	
121	**Sb**	3	**0.090**	ug/l	0.09	9.3	4500	103	P	
135	**Ba**	3	**4.180**	ug/l	4.18	5.6	4500	103	P	
200	**Hg**	3	**0.216**	ug/l	0.22	4.0	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.05	13.7	4500	209	P	
208	**Pb**	3	**0.038**	ug/l	0.04	11.1	4500	209	P	
238	**U**	3	**0.053**	ug/l	0.05	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2687960	2.22	5119000	**52.5**	30	-	120	
45	Sc	1	167065	0.44	341400	**48.9**	30	-	120	
45	Sc	2	199838	2.46	273900	**73.0**	30	-	120	
74	Ge	1	159907	1.28	283600	**56.4**	30	-	120	
74	Ge	2	366695	0.62	422600	**86.8**	30	-	120	
74	Ge	3	1403228	4.03	1674000	**83.8**	30	-	120	
103	Rh	2	646139	1.62	814900	**79.3**	30	-	120	
103	Rh	3	1236048	1.27	1535000	**80.5**	30	-	120	
165	Ho	3	2844239	1.65	3236000	**87.9**	30	-	120	
175	Lu	3	3183670	1.69	3584000	**88.8**	30	-	120	
209	Bi	3	6613079	0.30	7619000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\093SMPL.D\093SMPL.D#
Date Acquired: May 27 2010 11:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.147**	ug/l	107.35	1.8	450	6	P	
23	**Na**	2	**549.900**	ug/l	27,495.00	1.2	450000	45	P	
24	**Mg**	2	**628.200**	ug/l	31,410.00	1.3	450000	45	P	
27	**Al**	2	**86.720**	ug/l	4,336.00	1.6	450000	45	P	
31	**P**	2	**388.500**	ug/l	19,425.00	1.1	450000	45	P	
39	**K**	2	**478.600**	ug/l	23,930.00	1.8	450000	45	P	
44	**Ca**	2	**592.300**	ug/l	29,615.00	5.9	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	5,110.00	1.3	4500	45	P	
51	**V**	2	**21.100**	ug/l	1,055.00	1.3	4500	45	P	
52	**Cr**	2	**8.653**	ug/l	432.65	2.5	4500	45	P	
54	**Fe**	2	**456.200**	ug/l	22,810.00	1.1	450000	74	P	
55	**Mn**	2	**21.850**	ug/l	1,092.50	1.2	15000	45	P	
59	**Co**	2	**21.820**	ug/l	1,091.00	0.6	4500	45	P	
60	**Ni**	2	**22.150**	ug/l	1,107.50	1.9	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.2	15000	45	P	
66	**Zn**	2	**22.810**	ug/l	1,140.50	1.4	15000	45	P	
75	**As**	2	**80.070**	ug/l	4,003.50	0.4	4500	74	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.5	4500	74	P	
88	**Sr**	3	**0.974**	ug/l	48.70	1.7	4500	74	P	
95	**Mo**	3	**107.400**	ug/l	5,370.00	1.1	4500	74	P	
107	**Ag**	3	**12.490**	ug/l	624.50	1.7	450	103	P	
111	**Cd**	3	**2.055**	ug/l	102.75	1.6	900	103	P	
118	**Sn**	3	**106.300**	ug/l	5,315.00	1.0	4500	103	P	
121	**Sb**	3	**61.300**	ug/l	3,065.00	1.1	4500	103	P	
135	**Ba**	3	**84.820**	ug/l	4,241.00	1.5	4500	103	P	
200	**Hg**	3	**1.923**	ug/l	96.15	0.1	45	209	P	
205	**Tl**	3	**80.280**	ug/l	4,014.00	1.8	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	1.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	187.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3645884	1.48	5119000	**71.2**	30	-	120	
45	Sc	1	191092	0.90	341400	**56.0**	30	-	120	
45	Sc	2	221996	1.23	273900	**81.0**	30	-	120	
74	Ge	1	167674	1.24	283600	**59.1**	30	-	120	
74	Ge	2	366252	0.86	422600	**86.7**	30	-	120	
74	Ge	3	1437383	0.75	1674000	**85.9**	30	-	120	
103	Rh	2	715074	1.61	814900	**87.7**	30	-	120	
103	Rh	3	1365896	1.31	1535000	**89.0**	30	-	120	
165	Ho	3	2985228	0.47	3236000	**92.3**	30	-	120	
175	Lu	3	3314399	0.95	3584000	**92.5**	30	-	120	
209	Bi	3	7153365	0.61	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\094SMPL.D\094SMPL.D#
Date Acquired: May 27 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.097**	ug/l	104.85	5.1	450	6	P	
23	**Na**	2	**568.700**	ug/l	28,435.00	0.8	450000	45	P	
24	**Mg**	2	**640.400**	ug/l	32,020.00	0.8	450000	45	P	
27	**Al**	2	**83.630**	ug/l	4,181.50	0.6	450000	45	P	
31	**P**	2	**402.300**	ug/l	20,115.00	5.2	450000	45	P	
39	**K**	2	**496.400**	ug/l	24,820.00	2.0	450000	45	P	
44	**Ca**	2	**639.800**	ug/l	31,990.00	0.6	450000	45	P	
47	**Ti**	2	**105.400**	ug/l	5,270.00	1.1	4500	45	P	
51	**V**	2	**21.290**	ug/l	1,064.50	2.1	4500	45	P	
52	**Cr**	2	**8.860**	ug/l	443.00	1.2	4500	45	P	
54	**Fe**	2	**472.800**	ug/l	23,640.00	1.2	450000	74	P	
55	**Mn**	2	**22.420**	ug/l	1,121.00	0.6	15000	45	P	
59	**Co**	2	**22.510**	ug/l	1,125.50	0.9	4500	45	P	
60	**Ni**	2	**22.710**	ug/l	1,135.50	3.7	15000	45	P	
63	**Cu**	2	**11.670**	ug/l	583.50	0.5	15000	45	P	
66	**Zn**	2	**22.400**	ug/l	1,120.00	2.5	15000	45	P	
75	**As**	2	**82.550**	ug/l	4,127.50	1.0	4500	74	P	
78	**Se**	2	**87.380**	ug/l	4,369.00	1.1	4500	74	P	
88	**Sr**	3	**0.995**	ug/l	49.76	4.8	4500	74	P	
95	**Mo**	3	**109.500**	ug/l	5,475.00	0.7	4500	74	P	
107	**Ag**	3	**12.960**	ug/l	648.00	0.5	450	103	P	
111	**Cd**	3	**2.135**	ug/l	106.75	4.6	900	103	P	
118	**Sn**	3	**110.800**	ug/l	5,540.00	1.2	4500	103	P	
121	**Sb**	3	**63.810**	ug/l	3,190.50	1.9	4500	103	P	
135	**Ba**	3	**88.530**	ug/l	4,426.50	2.0	4500	103	P	
200	**Hg**	3	**2.167**	ug/l	108.35	0.1	45	209	P	
205	**Tl**	3	**82.550**	ug/l	4,127.50	0.8	4500	209	A	
208	**Pb**	3	**21.730**	ug/l	1,086.50	0.9	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	162.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3738018	1.63	5119000	**73.0**	30	-	120	
45	Sc	1	188553	1.10	341400	**55.2**	30	-	120	
45	Sc	2	223858	0.08	273900	**81.7**	30	-	120	
74	Ge	1	166899	1.45	283600	**58.9**	30	-	120	
74	Ge	2	369745	0.94	422600	**87.5**	30	-	120	
74	Ge	3	1463319	0.15	1674000	**87.4**	30	-	120	
103	Rh	2	715227	0.64	814900	**87.8**	30	-	120	
103	Rh	3	1359983	1.27	1535000	**88.6**	30	-	120	
165	Ho	3	2967428	1.18	3236000	**91.7**	30	-	120	
175	Lu	3	3330529	0.50	3584000	**92.9**	30	-	120	
209	Bi	3	7156704	0.88	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\095SMPL.D\095SMPL.D#
Date Acquired: May 27 2010 11:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.180**	ug/l	109.00	2.3	450	6	P	
23	**Na**	2	**558.200**	ug/l	27,910.00	0.9	450000	45	P	
24	**Mg**	2	**638.500**	ug/l	31,925.00	2.0	450000	45	P	
27	**Al**	2	**82.810**	ug/l	4,140.50	1.8	450000	45	P	
31	**P**	2	**389.700**	ug/l	19,485.00	0.4	450000	45	P	
39	**K**	2	**492.800**	ug/l	24,640.00	0.6	450000	45	P	
44	**Ca**	2	**605.700**	ug/l	30,285.00	2.5	450000	45	P	
47	**Ti**	2	**105.100**	ug/l	5,255.00	1.4	4500	45	P	
51	**V**	2	**21.780**	ug/l	1,089.00	1.0	4500	45	P	
52	**Cr**	2	**8.886**	ug/l	444.30	3.8	4500	45	P	
54	**Fe**	2	**462.900**	ug/l	23,145.00	0.2	450000	74	P	
55	**Mn**	2	**22.480**	ug/l	1,124.00	0.4	15000	45	P	
59	**Co**	2	**22.380**	ug/l	1,119.00	0.6	4500	45	P	
60	**Ni**	2	**22.500**	ug/l	1,125.00	1.3	15000	45	P	
63	**Cu**	2	**11.260**	ug/l	563.00	2.1	15000	45	P	
66	**Zn**	2	**22.240**	ug/l	1,112.00	2.2	15000	45	P	
75	**As**	2	**82.450**	ug/l	4,122.50	0.8	4500	74	P	
78	**Se**	2	**89.970**	ug/l	4,498.50	4.2	4500	74	P	
88	**Sr**	3	**1.020**	ug/l	51.00	1.1	4500	74	P	
95	**Mo**	3	**109.900**	ug/l	5,495.00	1.8	4500	74	P	
107	**Ag**	3	**12.870**	ug/l	643.50	0.9	450	103	P	
111	**Cd**	3	**2.103**	ug/l	105.15	4.2	900	103	P	
118	**Sn**	3	**109.900**	ug/l	5,495.00	2.0	4500	103	P	
121	**Sb**	3	**63.440**	ug/l	3,172.00	2.3	4500	103	P	
135	**Ba**	3	**88.150**	ug/l	4,407.50	3.6	4500	103	P	
200	**Hg**	3	**2.165**	ug/l	108.25	1.2	45	209	P	
205	**Tl**	3	**82.280**	ug/l	4,114.00	1.3	4500	209	A	
208	**Pb**	3	**21.690**	ug/l	1,084.50	2.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	227.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3764377	0.50	5119000	**73.5**	30	-	120	
45	Sc	1	192631	0.70	341400	**56.4**	30	-	120	
45	Sc	2	227347	0.94	273900	**83.0**	30	-	120	
74	Ge	1	168599	1.03	283600	**59.4**	30	-	120	
74	Ge	2	373966	0.28	422600	**88.5**	30	-	120	
74	Ge	3	1469452	0.30	1674000	**87.8**	30	-	120	
103	Rh	2	722627	1.63	814900	**88.7**	30	-	120	
103	Rh	3	1380069	0.69	1535000	**89.9**	30	-	120	
165	Ho	3	3030507	0.83	3236000	**93.6**	30	-	120	
175	Lu	3	3335013	1.02	3584000	**93.1**	30	-	120	
209	Bi	3	7207560	0.60	7619000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\096SMPL.D\096SMPL.D#
Date Acquired: May 27 2010 11:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	1.2	450	6	P	
23	**Na**	2	**420.500**	ug/l	21,025.00	0.8	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	1.1	450000	45	P	
27	**Al**	2	**77.830**	ug/l	3,891.50	2.3	450000	45	P	
31	**P**	2	**354.000**	ug/l	17,700.00	4.1	450000	45	P	
39	**K**	2	**434.800**	ug/l	21,740.00	0.9	450000	45	P	
44	**Ca**	2	**421.100**	ug/l	21,055.00	2.0	450000	45	P	
47	**Ti**	2	**101.100**	ug/l	5,055.00	1.7	4500	45	P	
51	**V**	2	**21.010**	ug/l	1,050.50	0.3	4500	45	P	
52	**Cr**	2	**8.186**	ug/l	409.30	2.0	4500	45	P	
54	**Fe**	2	**449.200**	ug/l	22,460.00	1.2	450000	74	P	
55	**Mn**	2	**21.300**	ug/l	1,065.00	0.9	15000	45	P	
59	**Co**	2	**21.370**	ug/l	1,068.50	0.7	4500	45	P	
60	**Ni**	2	**21.570**	ug/l	1,078.50	1.6	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.5	15000	45	P	
66	**Zn**	2	**21.720**	ug/l	1,086.00	3.0	15000	45	P	
75	**As**	2	**81.010**	ug/l	4,050.50	0.8	4500	74	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	4.2	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.12	185.2	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.100**	ug/l	105.00	4.6	900	103	P	
118	**Sn**	3	**106.800**	ug/l	5,340.00	1.3	4500	103	P	
121	**Sb**	3	**60.530**	ug/l	3,026.50	1.3	4500	103	P	
135	**Ba**	3	**83.710**	ug/l	4,185.50	0.7	4500	103	P	
200	**Hg**	3	**1.587**	ug/l	79.35	1.5	45	209	P	
205	**Tl**	3	**79.970**	ug/l	3,998.50	1.5	4500	209	A	
208	**Pb**	3	**20.950**	ug/l	1,047.50	1.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3374207	1.62	5119000	**65.9**	30	-	120	
45	Sc	1	183561	0.89	341400	**53.8**	30	-	120	
45	Sc	2	221824	1.76	273900	**81.0**	30	-	120	
74	Ge	1	160856	0.95	283600	**56.7**	30	-	120	
74	Ge	2	369206	1.82	422600	**87.4**	30	-	120	
74	Ge	3	1446739	0.08	1674000	**86.4**	30	-	120	
103	Rh	2	722921	2.22	814900	**88.7**	30	-	120	
103	Rh	3	1375131	1.17	1535000	**89.6**	30	-	120	
165	Ho	3	3014344	1.31	3236000	**93.2**	30	-	120	
175	Lu	3	3416381	0.55	3584000	**95.3**	30	-	120	
209	Bi	3	7261040	1.58	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\097SMPL.D\097SMPL.D#
Date Acquired: May 27 2010 11:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.105**	ug/l	105.25	2.6	450	6	P	
23	**Na**	2	**419.800**	ug/l	20,990.00	1.9	450000	45	P	
24	**Mg**	2	**410.200**	ug/l	20,510.00	1.0	450000	45	P	
27	**Al**	2	**78.110**	ug/l	3,905.50	0.2	450000	45	P	
31	**P**	2	**360.500**	ug/l	18,025.00	4.0	450000	45	P	
39	**K**	2	**439.900**	ug/l	21,995.00	1.6	450000	45	P	
44	**Ca**	2	**414.300**	ug/l	20,715.00	4.0	450000	45	P	
47	**Ti**	2	**101.000**	ug/l	5,050.00	0.6	4500	45	P	
51	**V**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
52	**Cr**	2	**8.423**	ug/l	421.15	0.7	4500	45	P	
54	**Fe**	2	**446.000**	ug/l	22,300.00	2.0	450000	74	P	
55	**Mn**	2	**21.540**	ug/l	1,077.00	2.0	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.6	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	4.8	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	3.3	15000	45	P	
66	**Zn**	2	**21.560**	ug/l	1,078.00	3.0	15000	45	P	
75	**As**	2	**81.420**	ug/l	4,071.00	0.9	4500	74	P	
78	**Se**	2	**82.680**	ug/l	4,134.00	8.6	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.60	31.5	4500	74	P	
95	**Mo**	3	**106.400**	ug/l	5,320.00	1.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.063**	ug/l	103.15	9.2	900	103	P	
118	**Sn**	3	**106.100**	ug/l	5,305.00	1.3	4500	103	P	
121	**Sb**	3	**60.030**	ug/l	3,001.50	0.6	4500	103	P	
135	**Ba**	3	**83.880**	ug/l	4,194.00	0.9	4500	103	P	
200	**Hg**	3	**1.559**	ug/l	77.95	2.2	45	209	P	
205	**Tl**	3	**80.640**	ug/l	4,032.00	1.4	4500	209	A	
208	**Pb**	3	**20.790**	ug/l	1,039.50	2.2	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.06	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3349102	0.33	5119000	**65.4**	30	-	120	
45	Sc	1	177859	0.69	341400	**52.1**	30	-	120	
45	Sc	2	221115	1.34	273900	**80.7**	30	-	120	
74	Ge	1	153704	1.42	283600	**54.2**	30	-	120	
74	Ge	2	368054	0.23	422600	**87.1**	30	-	120	
74	Ge	3	1444342	0.84	1674000	**86.3**	30	-	120	
103	Rh	2	723055	0.40	814900	**88.7**	30	-	120	
103	Rh	3	1365530	0.72	1535000	**89.0**	30	-	120	
165	Ho	3	3034244	0.66	3236000	**93.8**	30	-	120	
175	Lu	3	3358152	1.43	3584000	**93.7**	30	-	120	
209	Bi	3	7234663	0.98	7619000	**95.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\098SMPL.D\098SMPL.D#
Date Acquired: May 27 2010 11:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.230**	ug/l	54.23	1.4	450	6	P	
23	**Na**	2	**4904.000**	ug/l	4,904.00	2.2	450000	45	A	
24	**Mg**	2	**4988.000**	ug/l	4,988.00	0.9	450000	45	A	
27	**Al**	2	**488.600**	ug/l	488.60	2.4	450000	45	P	
31	**P**	2	**4909.000**	ug/l	4,909.00	0.6	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.4	450000	45	A	
44	**Ca**	2	**5210.000**	ug/l	5,210.00	0.2	450000	45	P	
47	**Ti**	2	**52.780**	ug/l	52.78	0.7	4500	45	P	
51	**V**	2	**51.670**	ug/l	51.67	1.2	4500	45	P	
52	**Cr**	2	**52.290**	ug/l	52.29	1.5	4500	45	P	
54	**Fe**	2	**5070.000**	ug/l	5,070.00	0.4	450000	74	P	
55	**Mn**	2	**53.640**	ug/l	53.64	0.8	15000	45	P	
59	**Co**	2	**53.200**	ug/l	53.20	0.9	4500	45	P	
60	**Ni**	2	**53.470**	ug/l	53.47	3.6	15000	45	P	
63	**Cu**	2	**53.580**	ug/l	53.58	1.0	15000	45	P	
66	**Zn**	2	**53.290**	ug/l	53.29	1.6	15000	45	P	
75	**As**	2	**51.690**	ug/l	51.69	1.3	4500	74	P	
78	**Se**	2	**50.120**	ug/l	50.12	3.1	4500	74	P	
88	**Sr**	3	**54.040**	ug/l	54.04	2.2	4500	74	P	
95	**Mo**	3	**54.130**	ug/l	54.13	2.1	4500	74	P	
107	**Ag**	3	**52.000**	ug/l	52.00	0.2	450	103	P	
111	**Cd**	3	**52.080**	ug/l	52.08	1.9	900	103	P	
118	**Sn**	3	**52.870**	ug/l	52.87	1.9	4500	103	P	
121	**Sb**	3	**52.370**	ug/l	52.37	1.2	4500	103	P	
135	**Ba**	3	**53.040**	ug/l	53.04	1.1	4500	103	P	
200	**Hg**	3	**3.264**	ug/l	3.26	1.8	45	209	P	
205	**Tl**	3	**53.070**	ug/l	53.07	1.4	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**51.920**	ug/l	51.92	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3523044	1.20	5119000	**68.8**	30	-	120	
45	Sc	1	183017	2.22	341400	**53.6**	30	-	120	
45	Sc	2	229828	0.70	273900	**83.9**	30	-	120	
74	Ge	1	161858	3.12	283600	**57.1**	30	-	120	
74	Ge	2	379230	0.69	422600	**89.7**	30	-	120	
74	Ge	3	1494042	1.63	1674000	**89.2**	30	-	120	
103	Rh	2	718497	0.83	814900	**88.2**	30	-	120	
103	Rh	3	1403076	0.78	1535000	**91.4**	30	-	120	
165	Ho	3	3066196	1.24	3236000	**94.8**	30	-	120	
175	Lu	3	3412388	0.38	3584000	**95.2**	30	-	120	
209	Bi	3	7136907	0.09	7619000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\099SMPL.D\099SMPL.D#
Date Acquired: May 27 2010 11:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**6.261**	ug/l	6.26	13.6	450000	45	P	
24	**Mg**	2	**2.578**	ug/l	2.58	11.9	450000	45	P	
27	**Al**	2	**0.269**	ug/l	0.27	11.7	450000	45	P	
31	**P**	2	**-6.389**	ug/l	-6.39	64.3	450000	45	P	
39	**K**	2	**10.820**	ug/l	10.82	27.4	450000	45	P	
44	**Ca**	2	**3.966**	ug/l	3.97	40.5	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.02	106.3	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	53.6	4500	45	P	
52	**Cr**	2	**0.033**	ug/l	0.03	38.8	4500	45	P	
54	**Fe**	2	**1.894**	ug/l	1.89	26.4	450000	74	P	
55	**Mn**	2	**0.125**	ug/l	0.13	7.3	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	18.3	4500	45	P	
60	**Ni**	2	**0.148**	ug/l	0.15	43.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	27.8	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	71.2	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.06	34.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.16	233.0	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	59.7	4500	74	P	
95	**Mo**	3	**0.017**	ug/l	0.02	105.4	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	128.7	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	88.4	900	103	P	
118	**Sn**	3	**0.076**	ug/l	0.08	14.2	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.04	13.9	4500	103	P	
135	**Ba**	3	**0.022**	ug/l	0.02	80.0	4500	103	P	
200	**Hg**	3	**0.622**	ug/l	0.62	2.6	45	209	P	
205	**Tl**	3	**0.640**	ug/l	0.64	7.0	4500	209	P	
208	**Pb**	3	**0.014**	ug/l	0.01	30.3	4500	209	P	
238	**U**	3	**0.008**	ug/l	0.01	35.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364518	1.66	5119000	**65.7**	30	-	120	
45	Sc	1	186274	1.96	341400	**54.6**	30	-	120	
45	Sc	2	230080	0.36	273900	**84.0**	30	-	120	
74	Ge	1	162161	1.91	283600	**57.2**	30	-	120	
74	Ge	2	380527	1.22	422600	**90.0**	30	-	120	
74	Ge	3	1472733	1.06	1674000	**88.0**	30	-	120	
103	Rh	2	744411	1.43	814900	**91.4**	30	-	120	
103	Rh	3	1403615	1.00	1535000	**91.4**	30	-	120	
165	Ho	3	3067805	0.81	3236000	**94.8**	30	-	120	
175	Lu	3	3410210	0.61	3584000	**95.2**	30	-	120	
209	Bi	3	7331702	1.67	7619000	**96.2**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	78.0	450	6	P	
23	**Na**	2	**11680.000**	ug/l	11,680.00	1.6	450000	45	A	
24	**Mg**	2	**24900.000**	ug/l	24,900.00	1.7	450000	45	A	
27	**Al**	2	**7.333**	ug/l	7.33	8.7	450000	45	P	
31	**P**	2	**52.440**	ug/l	52.44	5.4	450000	45	P	
39	**K**	2	**2902.000**	ug/l	2,902.00	1.5	450000	45	M	
44	**Ca**	2	**21070.000**	ug/l	21,070.00	0.8	450000	45	P	
47	**Ti**	2	**0.278**	ug/l	0.28	33.0	4500	45	P	
51	**V**	2	**6.630**	ug/l	6.63	4.2	4500	45	P	
52	**Cr**	2	**0.742**	ug/l	0.74	11.0	4500	45	P	
54	**Fe**	2	**47.270**	ug/l	47.27	2.0	450000	74	P	
55	**Mn**	2	**373.500**	ug/l	373.50	1.1	15000	45	P	
59	**Co**	2	**1.025**	ug/l	1.03	1.2	4500	45	P	
60	**Ni**	2	**3.624**	ug/l	3.62	3.1	15000	45	P	
63	**Cu**	2	**0.457**	ug/l	0.46	16.0	15000	45	P	
66	**Zn**	2	**2.294**	ug/l	2.29	9.0	15000	45	P	
75	**As**	2	**4.785**	ug/l	4.79	1.0	4500	74	P	
78	**Se**	2	**0.263**	ug/l	0.26	256.6	4500	74	P	
88	**Sr**	3	**125.800**	ug/l	125.80	1.1	4500	74	A	
95	**Mo**	3	**5.913**	ug/l	5.91	2.6	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	104.3	450	103	P	
111	**Cd**	3	**0.033**	ug/l	0.03	61.3	900	103	P	
118	**Sn**	3	**0.375**	ug/l	0.38	11.2	4500	103	P	
121	**Sb**	3	**0.148**	ug/l	0.15	19.9	4500	103	P	
135	**Ba**	3	**14.790**	ug/l	14.79	3.1	4500	103	P	
200	**Hg**	3	**0.176**	ug/l	0.18	1.5	45	209	P	
205	**Tl**	3	**0.368**	ug/l	0.37	4.8	4500	209	P	
208	**Pb**	3	**0.033**	ug/l	0.03	9.9	4500	209	P	
238	**U**	3	**0.496**	ug/l	0.50	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2764018	2.31	5119000	**54.0**	30	-	120	
45	Sc	1	162599	1.28	341400	**47.6**	30	-	120	
45	Sc	2	204451	1.55	273900	**74.6**	30	-	120	
74	Ge	1	153167	1.43	283600	**54.0**	30	-	120	
74	Ge	2	374828	1.11	422600	**88.7**	30	-	120	
74	Ge	3	1464844	1.60	1674000	**87.5**	30	-	120	
103	Rh	2	642730	1.94	814900	**78.9**	30	-	120	
103	Rh	3	1249398	2.36	1535000	**81.4**	30	-	120	
165	Ho	3	2902099	1.12	3236000	**89.7**	30	-	120	
175	Lu	3	3270918	0.82	3584000	**91.3**	30	-	120	
209	Bi	3	6630748	0.84	7619000	**87.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 12:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	106.4	450	6	P	
23	**Na**	2	**7408.000**	ug/l	7,408.00	1.8	450000	45	A	
24	**Mg**	2	**26210.000**	ug/l	26,210.00	1.8	450000	45	A	
27	**Al**	2	**9.477**	ug/l	9.48	4.8	450000	45	P	
31	**P**	2	**31.520**	ug/l	31.52	14.5	450000	45	P	
39	**K**	2	**2842.000**	ug/l	2,842.00	1.8	450000	45	M	
44	**Ca**	2	**21140.000**	ug/l	21,140.00	2.3	450000	45	P	
47	**Ti**	2	**0.465**	ug/l	0.46	5.5	4500	45	P	
51	**V**	2	**9.778**	ug/l	9.78	2.1	4500	45	P	
52	**Cr**	2	**4.186**	ug/l	4.19	3.4	4500	45	P	
54	**Fe**	2	**8.882**	ug/l	8.88	8.3	450000	74	P	
55	**Mn**	2	**1.027**	ug/l	1.03	2.6	15000	45	P	
59	**Co**	2	**0.146**	ug/l	0.15	4.3	4500	45	P	
60	**Ni**	2	**2.158**	ug/l	2.16	1.6	15000	45	P	
63	**Cu**	2	**1.193**	ug/l	1.19	6.4	15000	45	P	
66	**Zn**	2	**1.673**	ug/l	1.67	2.9	15000	45	P	
75	**As**	2	**1.861**	ug/l	1.86	4.0	4500	74	P	
78	**Se**	2	**-0.254**	ug/l	-0.25	172.5	4500	74	P	
88	**Sr**	3	**114.100**	ug/l	114.10	0.9	4500	74	A	
95	**Mo**	3	**0.220**	ug/l	0.22	11.4	4500	74	P	
107	**Ag**	3	**0.022**	ug/l	0.02	38.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.01	216.0	900	103	P	
118	**Sn**	3	**0.319**	ug/l	0.32	9.9	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	12.3	4500	103	P	
135	**Ba**	3	**11.670**	ug/l	11.67	2.1	4500	103	P	
200	**Hg**	3	**0.192**	ug/l	0.19	3.5	45	209	P	
205	**Tl**	3	**0.252**	ug/l	0.25	3.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	8.3	4500	209	P	
238	**U**	3	**0.632**	ug/l	0.63	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2663534	1.10	5119000	**52.0**	30	-	120	
45	Sc	1	161211	1.87	341400	**47.2**	30	-	120	
45	Sc	2	203247	2.05	273900	**74.2**	30	-	120	
74	Ge	1	151976	0.75	283600	**53.6**	30	-	120	
74	Ge	2	381498	0.77	422600	**90.3**	30	-	120	
74	Ge	3	1448838	1.76	1674000	**86.5**	30	-	120	
103	Rh	2	647023	0.51	814900	**79.4**	30	-	120	
103	Rh	3	1247963	0.62	1535000	**81.3**	30	-	120	
165	Ho	3	2918888	1.15	3236000	**90.2**	30	-	120	
175	Lu	3	3246898	0.46	3584000	**90.6**	30	-	120	
209	Bi	3	6594426	0.71	7619000	**86.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 12:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	204.3	450	6	P	
23	**Na**	2	**7307.000**	ug/l	7,307.00	2.2	450000	45	A	
24	**Mg**	2	**14610.000**	ug/l	14,610.00	1.4	450000	45	A	
27	**Al**	2	**7.655**	ug/l	7.66	6.5	450000	45	P	
31	**P**	2	**29.870**	ug/l	29.87	21.8	450000	45	P	
39	**K**	2	**2277.000**	ug/l	2,277.00	0.5	450000	45	P	
44	**Ca**	2	**11390.000**	ug/l	11,390.00	1.8	450000	45	P	
47	**Ti**	2	**0.363**	ug/l	0.36	16.9	4500	45	P	
51	**V**	2	**11.000**	ug/l	11.00	1.3	4500	45	P	
52	**Cr**	2	**0.546**	ug/l	0.55	4.4	4500	45	P	
54	**Fe**	2	**4.824**	ug/l	4.82	30.1	450000	74	P	
55	**Mn**	2	**59.860**	ug/l	59.86	1.0	15000	45	P	
59	**Co**	2	**0.163**	ug/l	0.16	2.8	4500	45	P	
60	**Ni**	2	**3.326**	ug/l	3.33	3.0	15000	45	P	
63	**Cu**	2	**1.919**	ug/l	1.92	6.1	15000	45	P	
66	**Zn**	2	**1.852**	ug/l	1.85	5.1	15000	45	P	
75	**As**	2	**2.791**	ug/l	2.79	4.0	4500	74	P	
78	**Se**	2	**-0.317**	ug/l	-0.32	96.8	4500	74	P	
88	**Sr**	3	**57.990**	ug/l	57.99	4.4	4500	74	P	
95	**Mo**	3	**2.253**	ug/l	2.25	2.2	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	856.3	450	103	P	
111	**Cd**	3	**0.015**	ug/l	0.01	46.3	900	103	P	
118	**Sn**	3	**0.120**	ug/l	0.12	15.8	4500	103	P	
121	**Sb**	3	**0.146**	ug/l	0.15	6.5	4500	103	P	
135	**Ba**	3	**5.665**	ug/l	5.67	0.4	4500	103	P	
200	**Hg**	3	**0.179**	ug/l	0.18	6.7	45	209	P	
205	**Tl**	3	**0.183**	ug/l	0.18	2.7	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.03	11.3	4500	209	P	
238	**U**	3	**0.078**	ug/l	0.08	5.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2677063	0.05	5119000	**52.3**	30	-	120	
45	Sc	1	148997	2.53	341400	**43.6**	30	-	120	
45	Sc	2	197390	1.81	273900	**72.1**	30	-	120	
74	Ge	1	143009	2.22	283600	**50.4**	30	-	120	
74	Ge	2	363444	1.07	422600	**86.0**	30	-	120	
74	Ge	3	1372188	2.70	1674000	**82.0**	30	-	120	
103	Rh	2	633529	1.45	814900	**77.7**	30	-	120	
103	Rh	3	1211541	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2834281	2.03	3236000	**87.6**	30	-	120	
175	Lu	3	3200710	1.47	3584000	**89.3**	30	-	120	
209	Bi	3	6583712	0.33	7619000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 12:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	70.6	450	6	P	
23	**Na**	2	**7238.000**	ug/l	7,238.00	0.5	450000	45	A	
24	**Mg**	2	**14260.000**	ug/l	14,260.00	0.3	450000	45	A	
27	**Al**	2	**6.217**	ug/l	6.22	5.7	450000	45	P	
31	**P**	2	**37.190**	ug/l	37.19	24.2	450000	45	P	
39	**K**	2	**2244.000**	ug/l	2,244.00	1.3	450000	45	P	
44	**Ca**	2	**11170.000**	ug/l	11,170.00	1.1	450000	45	P	
47	**Ti**	2	**0.318**	ug/l	0.32	40.3	4500	45	P	
51	**V**	2	**11.030**	ug/l	11.03	1.9	4500	45	P	
52	**Cr**	2	**0.506**	ug/l	0.51	14.6	4500	45	P	
54	**Fe**	2	**4.610**	ug/l	4.61	18.2	450000	74	P	
55	**Mn**	2	**56.100**	ug/l	56.10	0.5	15000	45	P	
59	**Co**	2	**0.151**	ug/l	0.15	9.8	4500	45	P	
60	**Ni**	2	**3.292**	ug/l	3.29	8.7	15000	45	P	
63	**Cu**	2	**1.566**	ug/l	1.57	4.4	15000	45	P	
66	**Zn**	2	**1.424**	ug/l	1.42	18.3	15000	45	P	
75	**As**	2	**2.837**	ug/l	2.84	6.3	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	100.5	4500	74	P	
88	**Sr**	3	**56.780**	ug/l	56.78	1.4	4500	74	P	
95	**Mo**	3	**2.197**	ug/l	2.20	3.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	74.1	450	103	P	
111	**Cd**	3	**0.032**	ug/l	0.03	47.9	900	103	P	
118	**Sn**	3	**0.093**	ug/l	0.09	6.5	4500	103	P	
121	**Sb**	3	**0.126**	ug/l	0.13	18.2	4500	103	P	
135	**Ba**	3	**5.705**	ug/l	5.71	2.3	4500	103	P	
200	**Hg**	3	**0.165**	ug/l	0.16	8.0	45	209	P	
205	**Tl**	3	**0.143**	ug/l	0.14	2.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	43.7	4500	209	P	
238	**U**	3	**0.075**	ug/l	0.07	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2660959	0.57	5119000	**52.0**	30	-	120	
45	Sc	1	145792	0.94	341400	**42.7**	30	-	120	
45	Sc	2	197906	1.34	273900	**72.3**	30	-	120	
74	Ge	1	136895	2.35	283600	**48.3**	30	-	120	
74	Ge	2	357354	1.43	422600	**84.6**	30	-	120	
74	Ge	3	1373421	0.12	1674000	**82.0**	30	-	120	
103	Rh	2	626838	1.14	814900	**76.9**	30	-	120	
103	Rh	3	1211051	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2840987	0.40	3236000	**87.8**	30	-	120	
175	Lu	3	3172339	0.80	3584000	**88.5**	30	-	120	
209	Bi	3	6498283	0.80	7619000	**85.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 12:34 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	76.0	450	6	P	
23	**Na**	2	**19790.000**	ug/l	19,790.00	1.4	450000	45	A	
24	**Mg**	2	**17130.000**	ug/l	17,130.00	0.7	450000	45	A	
27	**Al**	2	**7.604**	ug/l	7.60	2.5	450000	45	P	
31	**P**	2	**46.360**	ug/l	46.36	23.8	450000	45	P	
39	**K**	2	**3070.000**	ug/l	3,070.00	3.8	450000	45	M	
44	**Ca**	2	**14150.000**	ug/l	14,150.00	0.6	450000	45	P	
47	**Ti**	2	**0.249**	ug/l	0.25	25.0	4500	45	P	
51	**V**	2	**11.730**	ug/l	11.73	1.4	4500	45	P	
52	**Cr**	2	**0.550**	ug/l	0.55	6.5	4500	45	P	
54	**Fe**	2	**31.140**	ug/l	31.14	3.3	450000	74	P	
55	**Mn**	2	**81.050**	ug/l	81.05	0.4	15000	45	P	
59	**Co**	2	**0.113**	ug/l	0.11	2.3	4500	45	P	
60	**Ni**	2	**0.937**	ug/l	0.94	2.0	15000	45	P	
63	**Cu**	2	**0.319**	ug/l	0.32	15.0	15000	45	P	
66	**Zn**	2	**1.216**	ug/l	1.22	9.9	15000	45	P	
75	**As**	2	**3.883**	ug/l	3.88	3.7	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	76.8	4500	74	P	
88	**Sr**	3	**69.010**	ug/l	69.01	2.4	4500	74	P	
95	**Mo**	3	**1.255**	ug/l	1.26	7.4	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.00	139.8	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.02	108.0	900	103	P	
118	**Sn**	3	**0.099**	ug/l	0.10	17.0	4500	103	P	
121	**Sb**	3	**0.085**	ug/l	0.09	6.9	4500	103	P	
135	**Ba**	3	**11.130**	ug/l	11.13	3.2	4500	103	P	
200	**Hg**	3	**0.178**	ug/l	0.18	9.0	45	209	P	
205	**Tl**	3	**0.113**	ug/l	0.11	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	28.3	4500	209	P	
238	**U**	3	**0.275**	ug/l	0.28	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2623079	2.32	5119000	**51.2**	30	-	120	
45	Sc	1	146723	2.05	341400	**43.0**	30	-	120	
45	Sc	2	196498	1.20	273900	**71.7**	30	-	120	
74	Ge	1	136935	0.44	283600	**48.3**	30	-	120	
74	Ge	2	360555	0.80	422600	**85.3**	30	-	120	
74	Ge	3	1368614	2.98	1674000	**81.8**	30	-	120	
103	Rh	2	617695	1.01	814900	**75.8**	30	-	120	
103	Rh	3	1203202	1.04	1535000	**78.4**	30	-	120	
165	Ho	3	2894194	0.87	3236000	**89.4**	30	-	120	
175	Lu	3	3202168	0.75	3584000	**89.3**	30	-	120	
209	Bi	3	6410938	0.79	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 12:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	171.8	450	6	P	
23	**Na**	2	**13460.000**	ug/l	13,460.00	1.9	450000	45	A	
24	**Mg**	2	**24890.000**	ug/l	24,890.00	3.3	450000	45	A	
27	**Al**	2	**8.464**	ug/l	8.46	8.1	450000	45	P	
31	**P**	2	**186.100**	ug/l	186.10	10.8	450000	45	P	
39	**K**	2	**2382.000**	ug/l	2,382.00	1.6	450000	45	P	
44	**Ca**	2	**28270.000**	ug/l	28,270.00	1.7	450000	45	P	
47	**Ti**	2	**0.588**	ug/l	0.59	7.4	4500	45	P	
51	**V**	2	**5.308**	ug/l	5.31	7.1	4500	45	P	
52	**Cr**	2	**0.745**	ug/l	0.75	8.3	4500	45	P	
54	**Fe**	2	**740.400**	ug/l	740.40	1.2	450000	74	P	
55	**Mn**	2	**3521.000**	ug/l	3,521.00	2.3	15000	45	A	
59	**Co**	2	**1.232**	ug/l	1.23	3.3	4500	45	P	
60	**Ni**	2	**1.956**	ug/l	1.96	13.3	15000	45	P	
63	**Cu**	2	**0.452**	ug/l	0.45	13.4	15000	45	P	
66	**Zn**	2	**1.927**	ug/l	1.93	12.5	15000	45	P	
75	**As**	2	**22.780**	ug/l	22.78	4.5	4500	74	P	
78	**Se**	2	**0.052**	ug/l	0.05	1051.1	4500	74	P	
88	**Sr**	3	**199.400**	ug/l	199.40	1.1	4500	74	A	
95	**Mo**	3	**1.697**	ug/l	1.70	3.6	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	85.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	66.1	900	103	P	
118	**Sn**	3	**0.071**	ug/l	0.07	17.1	4500	103	P	
121	**Sb**	3	**0.043**	ug/l	0.04	5.9	4500	103	P	
135	**Ba**	3	**15.530**	ug/l	15.53	0.6	4500	103	P	
200	**Hg**	3	**0.180**	ug/l	0.18	10.9	45	209	P	
205	**Tl**	3	**0.090**	ug/l	0.09	11.6	4500	209	P	
208	**Pb**	3	**0.054**	ug/l	0.05	8.1	4500	209	P	
238	**U**	3	**0.361**	ug/l	0.36	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2510463	1.13	5119000	**49.0**	30	-	120	
45	Sc	1	148848	1.91	341400	**43.6**	30	-	120	
45	Sc	2	195755	2.20	273900	**71.5**	30	-	120	
74	Ge	1	137828	1.36	283600	**48.6**	30	-	120	
74	Ge	2	357200	1.73	422600	**84.5**	30	-	120	
74	Ge	3	1368398	0.72	1674000	**81.7**	30	-	120	
103	Rh	2	617046	1.06	814900	**75.7**	30	-	120	
103	Rh	3	1196044	0.59	1535000	**77.9**	30	-	120	
165	Ho	3	2840662	0.68	3236000	**87.8**	30	-	120	
175	Lu	3	3199509	1.28	3584000	**89.3**	30	-	120	
209	Bi	3	6404370	0.25	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.07	26.0	450	6	P	
23	**Na**	2	**16680.000**	ug/l	83,400.00	1.1	450000	45	A	
24	**Mg**	2	**13910.000**	ug/l	69,550.00	1.0	450000	45	A	
27	**Al**	2	**254.500**	ug/l	1,272.50	2.7	450000	45	P	
31	**P**	2	**9.509**	ug/l	47.55	16.7	450000	45	P	
39	**K**	2	**4003.000**	ug/l	20,015.00	0.4	450000	45	A	
44	**Ca**	2	**31860.000**	ug/l	159,300.00	0.3	450000	45	P	
47	**Ti**	2	**15.960**	ug/l	79.80	7.5	4500	45	P	
51	**V**	2	**1.779**	ug/l	8.90	0.6	4500	45	P	
52	**Cr**	2	**0.374**	ug/l	1.87	3.7	4500	45	P	
54	**Fe**	2	**321.700**	ug/l	1,608.50	2.3	450000	74	P	
55	**Mn**	2	**220.800**	ug/l	1,104.00	0.5	15000	45	P	
59	**Co**	2	**0.372**	ug/l	1.86	4.2	4500	45	P	
60	**Ni**	2	**1.295**	ug/l	6.48	7.0	15000	45	P	
63	**Cu**	2	**1.099**	ug/l	5.50	0.6	15000	45	P	
66	**Zn**	2	**1.532**	ug/l	7.66	3.3	15000	45	P	
75	**As**	2	**0.415**	ug/l	2.08	9.7	4500	74	P	
78	**Se**	2	**0.024**	ug/l	0.12	1094.3	4500	74	P	
88	**Sr**	3	**307.200**	ug/l	1,536.00	0.4	4500	74	A	
95	**Mo**	3	**1.584**	ug/l	7.92	2.8	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	177.5	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.12	48.5	900	103	P	
118	**Sn**	3	**0.032**	ug/l	0.16	13.2	4500	103	P	
121	**Sb**	3	**0.071**	ug/l	0.36	12.4	4500	103	P	
135	**Ba**	3	**51.090**	ug/l	255.45	0.8	4500	103	P	
200	**Hg**	3	**0.345**	ug/l	1.72	3.1	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	1.8	4500	209	P	
208	**Pb**	3	**0.255**	ug/l	1.27	6.3	4500	209	P	
238	**U**	3	**5.300**	ug/l	26.50	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3203680	1.05	5119000	**62.6**	30	-	120	
45	Sc	1	168336	0.37	341400	**49.3**	30	-	120	
45	Sc	2	220200	0.11	273900	**80.4**	30	-	120	
74	Ge	1	148093	1.88	283600	**52.2**	30	-	120	
74	Ge	2	368076	0.65	422600	**87.1**	30	-	120	
74	Ge	3	1429379	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	675518	1.31	814900	**82.9**	30	-	120	
103	Rh	3	1305146	1.27	1535000	**85.0**	30	-	120	
165	Ho	3	3075171	0.67	3236000	**95.0**	30	-	120	
175	Lu	3	3400399	0.76	3584000	**94.9**	30	-	120	
209	Bi	3	6885431	0.18	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 12:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	240.5	450	6	P	
23	**Na**	2	**19900.000**	ug/l	99,500.00	0.8	450000	45	A	
24	**Mg**	2	**9675.000**	ug/l	48,375.00	1.0	450000	45	A	
27	**Al**	2	**2.378**	ug/l	11.89	20.4	450000	45	P	
31	**P**	2	**1.062**	ug/l	5.31	245.1	450000	45	P	
39	**K**	2	**915.800**	ug/l	4,579.00	0.5	450000	45	P	
44	**Ca**	2	**21140.000**	ug/l	105,700.00	1.1	450000	45	P	
47	**Ti**	2	**0.150**	ug/l	0.75	32.6	4500	45	P	
51	**V**	2	**5.396**	ug/l	26.98	5.3	4500	45	P	
52	**Cr**	2	**0.090**	ug/l	0.45	8.5	4500	45	P	
54	**Fe**	2	**1.792**	ug/l	8.96	16.8	450000	74	P	
55	**Mn**	2	**9.074**	ug/l	45.37	1.0	15000	45	P	
59	**Co**	2	**0.079**	ug/l	0.40	3.7	4500	45	P	
60	**Ni**	2	**0.947**	ug/l	4.73	3.7	15000	45	P	
63	**Cu**	2	**1.080**	ug/l	5.40	14.2	15000	45	P	
66	**Zn**	2	**1.489**	ug/l	7.45	8.8	15000	45	P	
75	**As**	2	**1.380**	ug/l	6.90	4.9	4500	74	P	
78	**Se**	2	**-0.411**	ug/l	-2.06	96.2	4500	74	P	
88	**Sr**	3	**141.900**	ug/l	709.50	1.2	4500	74	A	
95	**Mo**	3	**1.454**	ug/l	7.27	1.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	114.7	450	103	P	
111	**Cd**	3	**0.104**	ug/l	0.52	15.8	900	103	P	
118	**Sn**	3	**0.038**	ug/l	0.19	25.0	4500	103	P	
121	**Sb**	3	**0.072**	ug/l	0.36	4.5	4500	103	P	
135	**Ba**	3	**17.390**	ug/l	86.95	1.1	4500	103	P	
200	**Hg**	3	**0.360**	ug/l	1.80	7.5	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.27	15.9	4500	209	P	
208	**Pb**	3	**0.047**	ug/l	0.23	6.0	4500	209	P	
238	**U**	3	**3.998**	ug/l	19.99	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3268715	1.45	5119000	**63.9**	30	-	120	
45	Sc	1	167422	1.51	341400	**49.0**	30	-	120	
45	Sc	2	224367	0.29	273900	**81.9**	30	-	120	
74	Ge	1	147233	0.67	283600	**51.9**	30	-	120	
74	Ge	2	370369	0.25	422600	**87.6**	30	-	120	
74	Ge	3	1459816	2.12	1674000	**87.2**	30	-	120	
103	Rh	2	683800	1.69	814900	**83.9**	30	-	120	
103	Rh	3	1322267	0.69	1535000	**86.1**	30	-	120	
165	Ho	3	3063441	0.46	3236000	**94.7**	30	-	120	
175	Lu	3	3419526	0.38	3584000	**95.4**	30	-	120	
209	Bi	3	6909696	0.27	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 01:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	319.6	450	6	P	
23	**Na**	2	**16130.000**	ug/l	80,650.00	1.8	450000	45	A	
24	**Mg**	2	**7041.000**	ug/l	35,205.00	2.2	450000	45	A	
27	**Al**	2	**8.616**	ug/l	43.08	4.1	450000	45	P	
31	**P**	2	**-0.945**	ug/l	-4.73	145.5	450000	45	P	
39	**K**	2	**1574.000**	ug/l	7,870.00	1.9	450000	45	P	
44	**Ca**	2	**22930.000**	ug/l	114,650.00	2.5	450000	45	P	
47	**Ti**	2	**0.179**	ug/l	0.89	9.4	4500	45	P	
51	**V**	2	**3.289**	ug/l	16.45	4.6	4500	45	P	
52	**Cr**	2	**0.103**	ug/l	0.52	27.9	4500	45	P	
54	**Fe**	2	**3.685**	ug/l	18.43	15.1	450000	74	P	
55	**Mn**	2	**9.175**	ug/l	45.88	3.6	15000	45	P	
59	**Co**	2	**0.064**	ug/l	0.32	2.9	4500	45	P	
60	**Ni**	2	**0.645**	ug/l	3.23	19.5	15000	45	P	
63	**Cu**	2	**1.031**	ug/l	5.16	2.7	15000	45	P	
66	**Zn**	2	**1.051**	ug/l	5.26	16.5	15000	45	P	
75	**As**	2	**1.235**	ug/l	6.18	5.4	4500	74	P	
78	**Se**	2	**0.098**	ug/l	0.49	303.3	4500	74	P	
88	**Sr**	3	**126.300**	ug/l	631.50	1.8	4500	74	A	
95	**Mo**	3	**0.982**	ug/l	4.91	2.2	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	34.2	450	103	P	
111	**Cd**	3	**0.021**	ug/l	0.11	32.0	900	103	P	
118	**Sn**	3	**0.090**	ug/l	0.45	20.0	4500	103	P	
121	**Sb**	3	**0.056**	ug/l	0.28	11.7	4500	103	P	
135	**Ba**	3	**23.740**	ug/l	118.70	3.3	4500	103	P	
200	**Hg**	3	**0.392**	ug/l	1.96	1.0	45	209	P	
205	**Tl**	3	**0.042**	ug/l	0.21	15.8	4500	209	P	
208	**Pb**	3	**0.016**	ug/l	0.08	10.7	4500	209	P	
238	**U**	3	**3.419**	ug/l	17.10	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3305976	3.93	5119000	**64.6**	30	-	120	
45	Sc	1	172153	0.61	341400	**50.4**	30	-	120	
45	Sc	2	225435	1.99	273900	**82.3**	30	-	120	
74	Ge	1	152304	1.22	283600	**53.7**	30	-	120	
74	Ge	2	373425	0.68	422600	**88.4**	30	-	120	
74	Ge	3	1492709	1.95	1674000	**89.2**	30	-	120	
103	Rh	2	701327	0.90	814900	**86.1**	30	-	120	
103	Rh	3	1346082	1.33	1535000	**87.7**	30	-	120	
165	Ho	3	3063200	0.26	3236000	**94.7**	30	-	120	
175	Lu	3	3396516	0.72	3584000	**94.8**	30	-	120	
209	Bi	3	7067409	0.94	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 01:10 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	103.1	450	6	P	
23	**Na**	2	**6789.000**	ug/l	33,945.00	1.1	450000	45	A	
24	**Mg**	2	**9424.000**	ug/l	47,120.00	1.5	450000	45	A	
27	**Al**	2	**5.676**	ug/l	28.38	10.2	450000	45	P	
31	**P**	2	**43.750**	ug/l	218.75	6.5	450000	45	P	
39	**K**	2	**2080.000**	ug/l	10,400.00	0.6	450000	45	P	
44	**Ca**	2	**18010.000**	ug/l	90,050.00	1.0	450000	45	P	
47	**Ti**	2	**0.420**	ug/l	2.10	7.9	4500	45	P	
51	**V**	2	**0.530**	ug/l	2.65	14.2	4500	45	P	
52	**Cr**	2	**0.071**	ug/l	0.35	34.3	4500	45	P	
54	**Fe**	2	**1168.000**	ug/l	5,840.00	0.9	450000	74	P	
55	**Mn**	2	**1224.000**	ug/l	6,120.00	0.4	15000	45	A	
59	**Co**	2	**0.357**	ug/l	1.78	3.5	4500	45	P	
60	**Ni**	2	**1.229**	ug/l	6.15	8.5	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.26	62.4	15000	45	P	
66	**Zn**	2	**0.837**	ug/l	4.19	15.8	15000	45	P	
75	**As**	2	**4.021**	ug/l	20.11	3.1	4500	74	P	
78	**Se**	2	**-0.077**	ug/l	-0.38	191.4	4500	74	P	
88	**Sr**	3	**127.900**	ug/l	639.50	1.0	4500	74	A	
95	**Mo**	3	**1.118**	ug/l	5.59	4.4	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	76.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	113.6	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.14	6.5	4500	103	P	
121	**Sb**	3	**0.016**	ug/l	0.08	32.6	4500	103	P	
135	**Ba**	3	**32.450**	ug/l	162.25	3.0	4500	103	P	
200	**Hg**	3	**0.316**	ug/l	1.58	5.1	45	209	P	
205	**Tl**	3	**0.030**	ug/l	0.15	18.1	4500	209	P	
208	**Pb**	3	**0.011**	ug/l	0.05	23.8	4500	209	P	
238	**U**	3	**0.511**	ug/l	2.56	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3297505	0.50	5119000	**64.4**	30	-	120	
45	Sc	1	181113	1.38	341400	**53.0**	30	-	120	
45	Sc	2	227648	0.86	273900	**83.1**	30	-	120	
74	Ge	1	158623	2.63	283600	**55.9**	30	-	120	
74	Ge	2	375349	1.17	422600	**88.8**	30	-	120	
74	Ge	3	1487475	0.16	1674000	**88.9**	30	-	120	
103	Rh	2	703260	1.18	814900	**86.3**	30	-	120	
103	Rh	3	1354958	1.70	1535000	**88.3**	30	-	120	
165	Ho	3	3054120	1.51	3236000	**94.4**	30	-	120	
175	Lu	3	3409881	0.24	3584000	**95.1**	30	-	120	
209	Bi	3	7013806	0.79	7619000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 01:17 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.790**	ug/l	54.79	1.4	450	6	P	
23	**Na**	2	**4915.000**	ug/l	4,915.00	0.9	450000	45	A	
24	**Mg**	2	**5030.000**	ug/l	5,030.00	2.0	450000	45	A	
27	**Al**	2	**494.400**	ug/l	494.40	0.1	450000	45	P	
31	**P**	2	**4908.000**	ug/l	4,908.00	1.2	450000	45	P	
39	**K**	2	**5259.000**	ug/l	5,259.00	2.2	450000	45	A	
44	**Ca**	2	**5226.000**	ug/l	5,226.00	1.3	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	1.5	4500	45	P	
51	**V**	2	**52.220**	ug/l	52.22	0.8	4500	45	P	
52	**Cr**	2	**52.040**	ug/l	52.04	0.6	4500	45	P	
54	**Fe**	2	**5107.000**	ug/l	5,107.00	1.3	450000	74	P	
55	**Mn**	2	**54.060**	ug/l	54.06	0.3	15000	45	P	
59	**Co**	2	**53.210**	ug/l	53.21	0.8	4500	45	P	
60	**Ni**	2	**53.540**	ug/l	53.54	1.2	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.8	15000	45	P	
66	**Zn**	2	**54.090**	ug/l	54.09	3.6	15000	45	P	
75	**As**	2	**51.630**	ug/l	51.63	0.8	4500	74	P	
78	**Se**	2	**51.640**	ug/l	51.64	1.4	4500	74	P	
88	**Sr**	3	**53.930**	ug/l	53.93	1.0	4500	74	P	
95	**Mo**	3	**53.510**	ug/l	53.51	0.9	4500	74	P	
107	**Ag**	3	**52.610**	ug/l	52.61	1.3	450	103	P	
111	**Cd**	3	**53.190**	ug/l	53.19	1.6	900	103	P	
118	**Sn**	3	**52.910**	ug/l	52.91	1.7	4500	103	P	
121	**Sb**	3	**53.240**	ug/l	53.24	1.3	4500	103	P	
135	**Ba**	3	**53.930**	ug/l	53.93	1.1	4500	103	P	
200	**Hg**	3	**2.967**	ug/l	2.97	0.7	45	209	P	
205	**Tl**	3	**52.200**	ug/l	52.20	1.5	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.7	4500	209	P	
238	**U**	3	**51.550**	ug/l	51.55	1.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3551934	2.36	5119000	**69.4**	30	-	120	
45	Sc	1	180625	1.45	341400	**52.9**	30	-	120	
45	Sc	2	234181	0.86	273900	**85.5**	30	-	120	
74	Ge	1	157362	0.32	283600	**55.5**	30	-	120	
74	Ge	2	382744	0.44	422600	**90.6**	30	-	120	
74	Ge	3	1539906	0.59	1674000	**92.0**	30	-	120	
103	Rh	2	726195	1.25	814900	**89.1**	30	-	120	
103	Rh	3	1410816	0.49	1535000	**91.9**	30	-	120	
165	Ho	3	3129227	1.03	3236000	**96.7**	30	-	120	
175	Lu	3	3472104	0.50	3584000	**96.9**	30	-	120	
209	Bi	3	7243321	0.57	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 01:24 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.012**	ug/l	0.01	45.1	450	6	P	
23	**Na**	2	**7.854**	ug/l	7.85	33.3	450000	45	P	
24	**Mg**	2	**2.762**	ug/l	2.76	13.1	450000	45	P	
27	**Al**	2	**0.762**	ug/l	0.76	33.4	450000	45	P	
31	**P**	2	**-4.267**	ug/l	-4.27	149.5	450000	45	P	
39	**K**	2	**19.610**	ug/l	19.61	28.8	450000	45	P	
44	**Ca**	2	**4.333**	ug/l	4.33	35.9	450000	45	P	
47	**Ti**	2	**0.074**	ug/l	0.07	23.0	4500	45	P	
51	**V**	2	**-0.025**	ug/l	-0.02	146.9	4500	45	P	
52	**Cr**	2	**-0.009**	ug/l	-0.01	290.1	4500	45	P	
54	**Fe**	2	**1.624**	ug/l	1.62	19.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	10.1	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	30.0	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	52.8	15000	45	P	
63	**Cu**	2	**0.011**	ug/l	0.01	57.1	15000	45	P	
66	**Zn**	2	**0.074**	ug/l	0.07	47.7	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	57.0	4500	74	P	
78	**Se**	2	**0.056**	ug/l	0.06	1103.0	4500	74	P	
88	**Sr**	3	**0.011**	ug/l	0.01	20.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	24.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	70.8	450	103	P	
111	**Cd**	3	**0.004**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.023**	ug/l	0.02	6.0	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	15.6	4500	103	P	
135	**Ba**	3	**0.005**	ug/l	0.01	65.8	4500	103	P	
200	**Hg**	3	**0.403**	ug/l	0.40	3.2	45	209	P	
205	**Tl**	3	**0.375**	ug/l	0.38	2.8	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	35.4	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	56.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3569564	2.08	5119000	**69.7**	30	-	120	
45	Sc	1	177489	0.21	341400	**52.0**	30	-	120	
45	Sc	2	235042	1.17	273900	**85.8**	30	-	120	
74	Ge	1	154115	0.48	283600	**54.3**	30	-	120	
74	Ge	2	392497	0.19	422600	**92.9**	30	-	120	
74	Ge	3	1543168	0.68	1674000	**92.2**	30	-	120	
103	Rh	2	760942	0.77	814900	**93.4**	30	-	120	
103	Rh	3	1450776	0.96	1535000	**94.5**	30	-	120	
165	Ho	3	3121776	0.93	3236000	**96.5**	30	-	120	
175	Lu	3	3414452	0.42	3584000	**95.3**	30	-	120	
209	Bi	3	7408655	0.21	7619000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	50.4	450	6	P	
23	**Na**	2	**38300.000**	ug/l	191,500.00	1.5	450000	45	A	
24	**Mg**	2	**1884.000**	ug/l	9,420.00	1.0	450000	45	P	
27	**Al**	2	**165.800**	ug/l	829.00	2.1	450000	45	P	
31	**P**	2	**35.060**	ug/l	175.30	22.3	450000	45	P	
39	**K**	2	**1177.000**	ug/l	5,885.00	0.6	450000	45	P	
44	**Ca**	2	**6673.000**	ug/l	33,365.00	1.6	450000	45	P	
47	**Ti**	2	**7.076**	ug/l	35.38	9.0	4500	45	P	
51	**V**	2	**16.480**	ug/l	82.40	1.8	4500	45	P	
52	**Cr**	2	**0.786**	ug/l	3.93	4.0	4500	45	P	
54	**Fe**	2	**172.200**	ug/l	861.00	3.5	450000	74	P	
55	**Mn**	2	**8.120**	ug/l	40.60	0.4	15000	45	P	
59	**Co**	2	**0.128**	ug/l	0.64	6.7	4500	45	P	
60	**Ni**	2	**0.475**	ug/l	2.37	24.3	15000	45	P	
63	**Cu**	2	**0.685**	ug/l	3.42	1.4	15000	45	P	
66	**Zn**	2	**1.031**	ug/l	5.16	4.6	15000	45	P	
75	**As**	2	**15.460**	ug/l	77.30	0.7	4500	74	P	
78	**Se**	2	**0.149**	ug/l	0.75	623.2	4500	74	P	
88	**Sr**	3	**38.250**	ug/l	191.25	1.7	4500	74	P	
95	**Mo**	3	**8.363**	ug/l	41.82	3.5	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.03	32.1	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	273.9	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.22	9.8	4500	103	P	
121	**Sb**	3	**0.142**	ug/l	0.71	8.0	4500	103	P	
135	**Ba**	3	**16.150**	ug/l	80.75	1.2	4500	103	P	
200	**Hg**	3	**0.276**	ug/l	1.38	4.7	45	209	P	
205	**Tl**	3	**0.150**	ug/l	0.75	2.9	4500	209	P	
208	**Pb**	3	**0.159**	ug/l	0.79	6.0	4500	209	P	
238	**U**	3	**5.219**	ug/l	26.10	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3239524	2.03	5119000	**63.3**	30	-	120	
45	Sc	1	177225	2.48	341400	**51.9**	30	-	120	
45	Sc	2	229694	1.73	273900	**83.9**	30	-	120	
74	Ge	1	154859	1.19	283600	**54.6**	30	-	120	
74	Ge	2	385404	0.78	422600	**91.2**	30	-	120	
74	Ge	3	1514110	3.19	1674000	**90.4**	30	-	120	
103	Rh	2	708166	1.76	814900	**86.9**	30	-	120	
103	Rh	3	1358630	2.18	1535000	**88.5**	30	-	120	
165	Ho	3	3082939	1.13	3236000	**95.3**	30	-	120	
175	Lu	3	3414361	0.67	3584000	**95.3**	30	-	120	
209	Bi	3	7114725	1.53	7619000	**93.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 01:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	23.9	450	6	P	
23	**Na**	2	**23370.000**	ug/l	116,850.00	1.6	450000	45	A	
24	**Mg**	2	**13060.000**	ug/l	65,300.00	2.1	450000	45	A	
27	**Al**	2	**17.480**	ug/l	87.40	5.7	450000	45	P	
31	**P**	2	**5.893**	ug/l	29.47	74.5	450000	45	P	
39	**K**	2	**5870.000**	ug/l	29,350.00	1.0	450000	45	A	
44	**Ca**	2	**29390.000**	ug/l	146,950.00	2.0	450000	45	P	
47	**Ti**	2	**1.537**	ug/l	7.69	12.9	4500	45	P	
51	**V**	2	**1.907**	ug/l	9.54	8.0	4500	45	P	
52	**Cr**	2	**0.127**	ug/l	0.63	31.4	4500	45	P	
54	**Fe**	2	**19.600**	ug/l	98.00	7.6	450000	74	P	
55	**Mn**	2	**127.300**	ug/l	636.50	0.8	15000	45	P	
59	**Co**	2	**0.691**	ug/l	3.45	2.0	4500	45	P	
60	**Ni**	2	**5.601**	ug/l	28.01	5.3	15000	45	P	
63	**Cu**	2	**1.954**	ug/l	9.77	1.9	15000	45	P	
66	**Zn**	2	**1.592**	ug/l	7.96	2.8	15000	45	P	
75	**As**	2	**0.621**	ug/l	3.11	19.7	4500	74	P	
78	**Se**	2	**0.006**	ug/l	0.03	4213.8	4500	74	P	
88	**Sr**	3	**238.800**	ug/l	1,194.00	1.3	4500	74	A	
95	**Mo**	3	**7.080**	ug/l	35.40	0.6	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	178.8	450	103	P	
111	**Cd**	3	**0.101**	ug/l	0.51	12.0	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.19	43.5	4500	103	P	
121	**Sb**	3	**0.154**	ug/l	0.77	4.9	4500	103	P	
135	**Ba**	3	**39.760**	ug/l	198.80	2.4	4500	103	P	
200	**Hg**	3	**0.271**	ug/l	1.36	2.4	45	209	P	
205	**Tl**	3	**0.099**	ug/l	0.49	6.8	4500	209	P	
208	**Pb**	3	**0.122**	ug/l	0.61	4.4	4500	209	P	
238	**U**	3	**6.717**	ug/l	33.59	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3310432	0.91	5119000	**64.7**	30	-	120	
45	Sc	1	173935	0.95	341400	**50.9**	30	-	120	
45	Sc	2	224143	1.62	273900	**81.8**	30	-	120	
74	Ge	1	150688	0.71	283600	**53.1**	30	-	120	
74	Ge	2	376290	1.26	422600	**89.0**	30	-	120	
74	Ge	3	1480841	0.31	1674000	**88.5**	30	-	120	
103	Rh	2	686448	2.13	814900	**84.2**	30	-	120	
103	Rh	3	1339115	0.85	1535000	**87.2**	30	-	120	
165	Ho	3	3056862	0.24	3236000	**94.5**	30	-	120	
175	Lu	3	3375010	0.82	3584000	**94.2**	30	-	120	
209	Bi	3	6837098	1.41	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 01:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	599.4	450	6	P	
23	**Na**	2	**5209.000**	ug/l	26,045.00	2.1	450000	45	A	
24	**Mg**	2	**3791.000**	ug/l	18,955.00	1.7	450000	45	A	
27	**Al**	2	**1.721**	ug/l	8.61	12.2	450000	45	P	
31	**P**	2	**2.984**	ug/l	14.92	9.4	450000	45	P	
39	**K**	2	**922.700**	ug/l	4,613.50	1.3	450000	45	P	
44	**Ca**	2	**13660.000**	ug/l	68,300.00	0.8	450000	45	P	
47	**Ti**	2	**0.057**	ug/l	0.28	16.1	4500	45	P	
51	**V**	2	**2.124**	ug/l	10.62	4.5	4500	45	P	
52	**Cr**	2	**0.070**	ug/l	0.35	85.5	4500	45	P	
54	**Fe**	2	**2.712**	ug/l	13.56	16.5	450000	74	P	
55	**Mn**	2	**36.120**	ug/l	180.60	0.4	15000	45	P	
59	**Co**	2	**0.059**	ug/l	0.29	13.0	4500	45	P	
60	**Ni**	2	**0.835**	ug/l	4.17	7.5	15000	45	P	
63	**Cu**	2	**0.517**	ug/l	2.58	2.5	15000	45	P	
66	**Zn**	2	**3.217**	ug/l	16.09	8.2	15000	45	P	
75	**As**	2	**0.505**	ug/l	2.52	6.6	4500	74	P	
78	**Se**	2	**-0.337**	ug/l	-1.68	42.2	4500	74	P	
88	**Sr**	3	**69.430**	ug/l	347.15	1.3	4500	74	P	
95	**Mo**	3	**0.689**	ug/l	3.45	7.5	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	86.6	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	112.5	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	69.4	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.13	31.3	4500	103	P	
135	**Ba**	3	**19.060**	ug/l	95.30	2.8	4500	103	P	
200	**Hg**	3	**0.253**	ug/l	1.27	3.4	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	8.3	4500	209	P	
208	**Pb**	3	**0.516**	ug/l	2.58	1.2	4500	209	P	
238	**U**	3	**0.818**	ug/l	4.09	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3269546	0.82	5119000	**63.9**	30	-	120	
45	Sc	1	179985	1.36	341400	**52.7**	30	-	120	
45	Sc	2	228862	1.19	273900	**83.6**	30	-	120	
74	Ge	1	155290	2.23	283600	**54.8**	30	-	120	
74	Ge	2	379080	1.28	422600	**89.7**	30	-	120	
74	Ge	3	1490988	0.96	1674000	**89.1**	30	-	120	
103	Rh	2	710524	1.09	814900	**87.2**	30	-	120	
103	Rh	3	1368403	1.58	1535000	**89.1**	30	-	120	
165	Ho	3	3073944	0.57	3236000	**95.0**	30	-	120	
175	Lu	3	3448063	1.09	3584000	**96.2**	30	-	120	
209	Bi	3	7150862	0.53	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 01:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	148.0	450	6	P	
23	**Na**	2	**5099.000**	ug/l	25,495.00	0.4	450000	45	A	
24	**Mg**	2	**3717.000**	ug/l	18,585.00	1.2	450000	45	A	
27	**Al**	2	**3.049**	ug/l	15.25	5.7	450000	45	P	
31	**P**	2	**1.953**	ug/l	9.77	330.6	450000	45	P	
39	**K**	2	**890.200**	ug/l	4,451.00	1.1	450000	45	P	
44	**Ca**	2	**13470.000**	ug/l	67,350.00	0.4	450000	45	P	
47	**Ti**	2	**0.113**	ug/l	0.56	27.7	4500	45	P	
51	**V**	2	**2.117**	ug/l	10.59	9.1	4500	45	P	
52	**Cr**	2	**0.064**	ug/l	0.32	51.7	4500	45	P	
54	**Fe**	2	**6.608**	ug/l	33.04	4.7	450000	74	P	
55	**Mn**	2	**35.110**	ug/l	175.55	0.6	15000	45	P	
59	**Co**	2	**0.072**	ug/l	0.36	10.3	4500	45	P	
60	**Ni**	2	**0.764**	ug/l	3.82	10.0	15000	45	P	
63	**Cu**	2	**0.261**	ug/l	1.31	15.0	15000	45	P	
66	**Zn**	2	**3.021**	ug/l	15.11	9.2	15000	45	P	
75	**As**	2	**0.471**	ug/l	2.36	8.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.82	443.8	4500	74	P	
88	**Sr**	3	**66.510**	ug/l	332.55	5.5	4500	74	P	
95	**Mo**	3	**0.600**	ug/l	3.00	5.8	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	282.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	59.4	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	90.7	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.12	25.2	4500	103	P	
135	**Ba**	3	**17.610**	ug/l	88.05	7.9	4500	103	P	
200	**Hg**	3	**0.242**	ug/l	1.21	13.6	45	209	P	
205	**Tl**	3	**0.050**	ug/l	0.25	24.6	4500	209	P	
208	**Pb**	3	**0.024**	ug/l	0.12	12.4	4500	209	P	
238	**U**	3	**0.616**	ug/l	3.08	8.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364238	2.36	5119000	**65.7**	30	-	120	
45	Sc	1	182483	1.85	341400	**53.5**	30	-	120	
45	Sc	2	227157	0.71	273900	**82.9**	30	-	120	
74	Ge	1	158611	1.73	283600	**55.9**	30	-	120	
74	Ge	2	382069	0.91	422600	**90.4**	30	-	120	
74	Ge	3	1512956	3.55	1674000	**90.4**	30	-	120	
103	Rh	2	712739	0.90	814900	**87.5**	30	-	120	
103	Rh	3	1424914	6.18	1535000	**92.8**	30	-	120	
165	Ho	3	3191575	7.39	3236000	**98.6**	30	-	120	
175	Lu	3	3576149	5.85	3584000	**99.8**	30	-	120	
209	Bi	3	7331912	4.98	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 02:00 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**55.440**	ug/l	55.44	2.1	450	6	P	
23	**Na**	2	**4975.000**	ug/l	4,975.00	2.7	450000	45	A	
24	**Mg**	2	**5040.000**	ug/l	5,040.00	0.3	450000	45	A	
27	**Al**	2	**493.300**	ug/l	493.30	0.3	450000	45	P	
31	**P**	2	**4875.000**	ug/l	4,875.00	1.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.3	450000	45	A	
44	**Ca**	2	**5230.000**	ug/l	5,230.00	2.5	450000	45	P	
47	**Ti**	2	**52.020**	ug/l	52.02	1.1	4500	45	P	
51	**V**	2	**52.640**	ug/l	52.64	0.9	4500	45	P	
52	**Cr**	2	**53.040**	ug/l	53.04	1.1	4500	45	P	
54	**Fe**	2	**5115.000**	ug/l	5,115.00	0.5	450000	74	P	
55	**Mn**	2	**53.940**	ug/l	53.94	0.7	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**53.810**	ug/l	53.81	1.7	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.2	15000	45	P	
66	**Zn**	2	**54.530**	ug/l	54.53	0.8	15000	45	P	
75	**As**	2	**51.990**	ug/l	51.99	1.4	4500	74	P	
78	**Se**	2	**54.780**	ug/l	54.78	4.7	4500	74	P	
88	**Sr**	3	**54.090**	ug/l	54.09	1.7	4500	74	P	
95	**Mo**	3	**53.670**	ug/l	53.67	2.4	4500	74	P	
107	**Ag**	3	**52.430**	ug/l	52.43	1.9	450	103	P	
111	**Cd**	3	**52.610**	ug/l	52.61	2.8	900	103	P	
118	**Sn**	3	**53.520**	ug/l	53.52	2.0	4500	103	P	
121	**Sb**	3	**53.320**	ug/l	53.32	2.3	4500	103	P	
135	**Ba**	3	**54.280**	ug/l	54.28	2.0	4500	103	P	
200	**Hg**	3	**2.986**	ug/l	2.99	0.5	45	209	P	
205	**Tl**	3	**52.930**	ug/l	52.93	0.8	4500	209	P	
208	**Pb**	3	**53.550**	ug/l	53.55	1.1	4500	209	P	
238	**U**	3	**51.940**	ug/l	51.94	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3514483	1.10	5119000	**68.7**	30	-	120	
45	Sc	1	192352	2.12	341400	**56.3**	30	-	120	
45	Sc	2	234713	0.99	273900	**85.7**	30	-	120	
74	Ge	1	165627	1.32	283600	**58.4**	30	-	120	
74	Ge	2	386289	0.58	422600	**91.4**	30	-	120	
74	Ge	3	1540505	0.90	1674000	**92.0**	30	-	120	
103	Rh	2	732203	1.65	814900	**89.9**	30	-	120	
103	Rh	3	1412780	0.96	1535000	**92.0**	30	-	120	
165	Ho	3	3120733	0.97	3236000	**96.4**	30	-	120	
175	Lu	3	3486894	0.52	3584000	**97.3**	30	-	120	
209	Bi	3	7156871	0.28	7619000	**93.9**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 02:07 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	32.8	450	6	P	
23	**Na**	2	**7.180**	ug/l	7.18	6.0	450000	45	P	
24	**Mg**	2	**2.599**	ug/l	2.60	12.7	450000	45	P	
27	**Al**	2	**0.362**	ug/l	0.36	76.3	450000	45	P	
31	**P**	2	**-6.859**	ug/l	-6.86	41.9	450000	45	P	
39	**K**	2	**15.370**	ug/l	15.37	23.7	450000	45	P	
44	**Ca**	2	**3.801**	ug/l	3.80	56.2	450000	45	P	
47	**Ti**	2	**0.055**	ug/l	0.06	45.8	4500	45	P	
51	**V**	2	**-0.066**	ug/l	-0.07	62.0	4500	45	P	
52	**Cr**	2	**-0.002**	ug/l	0.00	3230.8	4500	45	P	
54	**Fe**	2	**0.877**	ug/l	0.88	20.5	450000	74	P	
55	**Mn**	2	**0.092**	ug/l	0.09	5.2	15000	45	P	
59	**Co**	2	**0.017**	ug/l	0.02	27.2	4500	45	P	
60	**Ni**	2	**0.081**	ug/l	0.08	48.2	15000	45	P	
63	**Cu**	2	**0.027**	ug/l	0.03	37.9	15000	45	P	
66	**Zn**	2	**0.034**	ug/l	0.03	239.1	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	118.4	4500	74	P	
78	**Se**	2	**-0.426**	ug/l	-0.43	89.2	4500	74	P	
88	**Sr**	3	**0.018**	ug/l	0.02	25.0	4500	74	P	
95	**Mo**	3	**0.004**	ug/l	0.00	7.3	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	8.5	450	103	P	
111	**Cd**	3	**0.012**	ug/l	0.01	95.7	900	103	P	
118	**Sn**	3	**0.015**	ug/l	0.02	26.6	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	38.5	4500	103	P	
135	**Ba**	3	**0.008**	ug/l	0.01	80.9	4500	103	P	
200	**Hg**	3	**0.339**	ug/l	0.34	2.7	45	209	P	
205	**Tl**	3	**0.376**	ug/l	0.38	6.5	4500	209	P	
208	**Pb**	3	**0.013**	ug/l	0.01	12.2	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	3.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3545477	2.67	5119000	**69.3**	30	-	120	
45	Sc	1	181365	2.13	341400	**53.1**	30	-	120	
45	Sc	2	235580	0.86	273900	**86.0**	30	-	120	
74	Ge	1	158750	0.82	283600	**56.0**	30	-	120	
74	Ge	2	390004	1.23	422600	**92.3**	30	-	120	
74	Ge	3	1506942	1.61	1674000	**90.0**	30	-	120	
103	Rh	2	752909	1.25	814900	**92.4**	30	-	120	
103	Rh	3	1429488	0.92	1535000	**93.1**	30	-	120	
165	Ho	3	3089178	1.80	3236000	**95.5**	30	-	120	
175	Lu	3	3399808	0.42	3584000	**94.9**	30	-	120	
209	Bi	3	7361822	0.89	7619000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	34.3	450	6	P	
23	**Na**	2	**5.219**	ug/l	52.19	24.9	450000	45	P	
24	**Mg**	2	**0.969**	ug/l	9.69	24.9	450000	45	P	
27	**Al**	2	**-0.138**	ug/l	-1.38	84.0	450000	45	P	
31	**P**	2	**-4.601**	ug/l	-46.01	92.8	450000	45	P	
39	**K**	2	**11.450**	ug/l	114.50	25.5	450000	45	P	
44	**Ca**	2	**0.165**	ug/l	1.65	1116.4	450000	45	P	
47	**Ti**	2	**0.011**	ug/l	0.11	213.6	4500	45	P	
51	**V**	2	**-0.100**	ug/l	-1.00	57.0	4500	45	P	
52	**Cr**	2	**-0.007**	ug/l	-0.07	369.9	4500	45	P	
54	**Fe**	2	**-0.130**	ug/l	-1.30	266.1	450000	74	P	
55	**Mn**	2	**0.079**	ug/l	0.79	14.4	15000	45	P	
59	**Co**	2	**0.005**	ug/l	0.05	89.7	4500	45	P	
60	**Ni**	2	**0.063**	ug/l	0.63	42.9	15000	45	P	
63	**Cu**	2	**0.020**	ug/l	0.20	130.3	15000	45	P	
66	**Zn**	2	**-0.011**	ug/l	-0.11	160.8	15000	45	P	
75	**As**	2	**-0.056**	ug/l	-0.56	47.3	4500	74	P	
78	**Se**	2	**-0.269**	ug/l	-2.69	157.1	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.02	139.8	4500	74	P	
95	**Mo**	3	**-0.007**	ug/l	-0.07	52.0	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	159.6	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	952.2	900	103	P	
118	**Sn**	3	**0.016**	ug/l	0.16	37.4	4500	103	P	
121	**Sb**	3	**0.008**	ug/l	0.08	33.6	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	125.4	4500	103	P	
200	**Hg**	3	**0.327**	ug/l	3.27	3.5	45	209	P	
205	**Tl**	3	**0.150**	ug/l	1.50	1.8	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	15623.0	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	132.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3675360	0.81	5119000	**71.8**	30	-	120	
45	Sc	1	185942	1.78	341400	**54.5**	30	-	120	
45	Sc	2	237206	0.72	273900	**86.6**	30	-	120	
74	Ge	1	162557	0.44	283600	**57.3**	30	-	120	
74	Ge	2	389130	1.48	422600	**92.1**	30	-	120	
74	Ge	3	1534128	1.21	1674000	**91.6**	30	-	120	
103	Rh	2	750161	0.76	814900	**92.1**	30	-	120	
103	Rh	3	1432360	0.34	1535000	**93.3**	30	-	120	
165	Ho	3	3103646	0.87	3236000	**95.9**	30	-	120	
175	Lu	3	3437128	1.16	3584000	**95.9**	30	-	120	
209	Bi	3	7350793	0.57	7619000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 02:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.113**	ug/l	5.66	1.4	450	6	P	
23	**Na**	2	**39.400**	ug/l	1,970.00	6.0	450000	45	P	
24	**Mg**	2	**3658.000**	ug/l	182,900.00	0.7	450000	45	A	
27	**Al**	2	**4941.000**	ug/l	247,050.00	1.7	450000	45	A	
31	**P**	2	**305.500**	ug/l	15,275.00	4.0	450000	45	P	
39	**K**	2	**541.700**	ug/l	27,085.00	1.4	450000	45	P	
44	**Ca**	2	**1652.000**	ug/l	82,600.00	0.7	450000	45	P	
47	**Ti**	2	**33.070**	ug/l	1,653.50	5.2	4500	45	P	
51	**V**	2	**27.000**	ug/l	1,350.00	1.5	4500	45	P	
52	**Cr**	2	**677.400**	ug/l	33,870.00	0.7	4500	45	A	
54	**Fe**	2	**60590.000**	ug/l	3,029,500.00	1.9	450000	74	A	
55	**Mn**	2	**248.500**	ug/l	12,425.00	0.7	15000	45	P	
59	**Co**	2	**30.900**	ug/l	1,545.00	1.1	4500	45	P	
60	**Ni**	2	**348.200**	ug/l	17,410.00	1.1	15000	45	P	
63	**Cu**	2	**25.080**	ug/l	1,254.00	2.1	15000	45	P	
66	**Zn**	2	**372.700**	ug/l	18,635.00	1.5	15000	45	P	
75	**As**	2	**2.060**	ug/l	103.00	1.7	4500	74	P	
78	**Se**	2	**-0.068**	ug/l	-3.38	589.5	4500	74	P	
88	**Sr**	3	**15.710**	ug/l	785.50	1.0	4500	74	P	
95	**Mo**	3	**0.529**	ug/l	26.43	11.7	4500	74	P	
107	**Ag**	3	**0.033**	ug/l	1.64	5.9	450	103	P	
111	**Cd**	3	**0.197**	ug/l	9.87	19.0	900	103	P	
118	**Sn**	3	**0.901**	ug/l	45.06	4.3	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	38.74	2.5	4500	103	P	
135	**Ba**	3	**52.660**	ug/l	2,633.00	2.4	4500	103	P	
200	**Hg**	3	**11600.000**	ug/l	580,000.00	0.3	45	209	A	Fail
205	**Tl**	3	**0.150**	ug/l	7.52	6.9	4500	209	P	
208	**Pb**	3	**254.200**	ug/l	12,710.00	0.2	4500	209	A	
238	**U**	3	**0.076**	ug/l	3.82	6.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3503835	0.68	5119000	**68.4**	30	-	120	
45	Sc	1	196808	2.36	341400	**57.6**	30	-	120	
45	Sc	2	232807	1.10	273900	**85.0**	30	-	120	
74	Ge	1	165015	0.85	283600	**58.2**	30	-	120	
74	Ge	2	371173	1.23	422600	**87.8**	30	-	120	
74	Ge	3	1453813	1.14	1674000	**86.8**	30	-	120	
103	Rh	2	708914	1.58	814900	**87.0**	30	-	120	
103	Rh	3	1343500	1.40	1535000	**87.5**	30	-	120	
165	Ho	3	3029067	1.43	3236000	**93.6**	30	-	120	
175	Lu	3	3382335	0.72	3584000	**94.4**	30	-	120	
209	Bi	3	7019296	0.50	7619000	**92.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 02:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.582**	ug/l	5.82	2.1	450	6	P	
23	**Na**	2	**181.800**	ug/l	1,818.00	2.5	450000	45	P	
24	**Mg**	2	**16050.000**	ug/l	160,500.00	1.0	450000	45	A	
27	**Al**	2	**21520.000**	ug/l	215,200.00	1.6	450000	45	A	
31	**P**	2	**1403.000**	ug/l	14,030.00	2.3	450000	45	P	
39	**K**	2	**2365.000**	ug/l	23,650.00	1.0	450000	45	P	
44	**Ca**	2	**7420.000**	ug/l	74,200.00	1.2	450000	45	P	
47	**Ti**	2	**147.900**	ug/l	1,479.00	8.6	4500	45	P	
51	**V**	2	**122.100**	ug/l	1,221.00	0.7	4500	45	P	
52	**Cr**	2	**2917.000**	ug/l	29,170.00	1.5	4500	45	A	
54	**Fe**	2	**296200.000**	ug/l	2,962,000.00	0.9	450000	74	A	
55	**Mn**	2	**1085.000**	ug/l	10,850.00	2.1	15000	45	A	
59	**Co**	2	**136.600**	ug/l	1,366.00	1.2	4500	45	P	
60	**Ni**	2	**1500.000**	ug/l	15,000.00	1.3	15000	45	A	
63	**Cu**	2	**109.700**	ug/l	1,097.00	1.1	15000	45	P	
66	**Zn**	2	**1653.000**	ug/l	16,530.00	2.2	15000	45	P	
75	**As**	2	**9.883**	ug/l	98.83	0.9	4500	74	P	
78	**Se**	2	**0.857**	ug/l	8.57	140.0	4500	74	P	
88	**Sr**	3	**78.770**	ug/l	787.70	1.8	4500	74	P	
95	**Mo**	3	**3.021**	ug/l	30.21	3.1	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	8.9	450	103	P	
111	**Cd**	3	**0.863**	ug/l	8.63	11.5	900	103	P	
118	**Sn**	3	**4.532**	ug/l	45.32	1.8	4500	103	P	
121	**Sb**	3	**3.781**	ug/l	37.81	3.0	4500	103	P	
135	**Ba**	3	**256.300**	ug/l	2,563.00	0.8	4500	103	P	
200	**Hg**	3	**59270.000**	ug/l	592,700.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.315**	ug/l	3.15	4.9	4500	209	P	
208	**Pb**	3	**1240.000**	ug/l	12,400.00	1.3	4500	209	A	
238	**U**	3	**0.415**	ug/l	4.15	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2788876	1.17	5119000	**54.5**	30	-	120	
45	Sc	1	193235	1.45	341400	**56.6**	30	-	120	
45	Sc	2	215961	1.79	273900	**78.8**	30	-	120	
74	Ge	1	142634	1.36	283600	**50.3**	30	-	120	
74	Ge	2	314196	1.30	422600	**74.3**	30	-	120	
74	Ge	3	1234557	2.10	1674000	**73.7**	30	-	120	
103	Rh	2	604910	1.41	814900	**74.2**	30	-	120	
103	Rh	3	1194942	0.82	1535000	**77.8**	30	-	120	
165	Ho	3	2813448	0.58	3236000	**86.9**	30	-	120	
175	Lu	3	3119866	0.76	3584000	**87.0**	30	-	120	
209	Bi	3	6320709	1.50	7619000	**83.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 02:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.607**	ug/l	6.07	2.5	450	6	P	
23	**Na**	2	**190.000**	ug/l	1,900.00	0.4	450000	45	P	
24	**Mg**	2	**16690.000**	ug/l	166,900.00	1.1	450000	45	A	
27	**Al**	2	**22230.000**	ug/l	222,300.00	0.8	450000	45	A	
31	**P**	2	**1452.000**	ug/l	14,520.00	6.3	450000	45	P	
39	**K**	2	**2406.000**	ug/l	24,060.00	1.5	450000	45	P	
44	**Ca**	2	**7607.000**	ug/l	76,070.00	0.5	450000	45	P	
47	**Ti**	2	**144.700**	ug/l	1,447.00	1.4	4500	45	P	
51	**V**	2	**126.500**	ug/l	1,265.00	1.5	4500	45	P	
52	**Cr**	2	**3009.000**	ug/l	30,090.00	1.1	4500	45	A	
54	**Fe**	2	**308500.000**	ug/l	3,085,000.00	1.8	450000	74	A	
55	**Mn**	2	**1117.000**	ug/l	11,170.00	1.9	15000	45	A	
59	**Co**	2	**142.000**	ug/l	1,420.00	1.4	4500	45	P	
60	**Ni**	2	**1556.000**	ug/l	15,560.00	2.2	15000	45	A	
63	**Cu**	2	**113.900**	ug/l	1,139.00	1.2	15000	45	P	
66	**Zn**	2	**1718.000**	ug/l	17,180.00	0.8	15000	45	P	
75	**As**	2	**10.650**	ug/l	106.50	1.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	32.8	4500	74	P	
88	**Sr**	3	**80.610**	ug/l	806.10	0.9	4500	74	P	
95	**Mo**	3	**2.967**	ug/l	29.67	4.4	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	1.36	16.7	450	103	P	
111	**Cd**	3	**0.829**	ug/l	8.29	6.4	900	103	P	
118	**Sn**	3	**4.716**	ug/l	47.16	3.7	4500	103	P	
121	**Sb**	3	**3.936**	ug/l	39.36	3.3	4500	103	P	
135	**Ba**	3	**267.600**	ug/l	2,676.00	0.6	4500	103	P	
200	**Hg**	3	**60810.000**	ug/l	608,100.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.293**	ug/l	2.93	4.6	4500	209	P	
208	**Pb**	3	**1266.000**	ug/l	12,660.00	0.6	4500	209	A	
238	**U**	3	**0.435**	ug/l	4.35	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2703033	1.65	5119000	**52.8**	30	-	120	
45	Sc	1	191451	1.10	341400	**56.1**	30	-	120	
45	Sc	2	211929	1.33	273900	**77.4**	30	-	120	
74	Ge	1	139723	1.04	283600	**49.3**	30	-	120	
74	Ge	2	308266	2.18	422600	**72.9**	30	-	120	
74	Ge	3	1253667	1.85	1674000	**74.9**	30	-	120	
103	Rh	2	600677	1.93	814900	**73.7**	30	-	120	
103	Rh	3	1188359	0.47	1535000	**77.4**	30	-	120	
165	Ho	3	2809526	0.16	3236000	**86.8**	30	-	120	
175	Lu	3	3156967	0.74	3584000	**88.1**	30	-	120	
209	Bi	3	6393694	0.42	7619000	**83.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 02:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.211**	ug/l	110.55	0.5	450	6	P	
23	**Na**	2	**451.000**	ug/l	22,550.00	1.0	450000	45	P	
24	**Mg**	2	**3629.000**	ug/l	181,450.00	1.2	450000	45	A	
27	**Al**	2	**4520.000**	ug/l	226,000.00	0.5	450000	45	P	
31	**P**	2	**626.100**	ug/l	31,305.00	1.3	450000	45	P	
39	**K**	2	**884.200**	ug/l	44,210.00	0.4	450000	45	P	
44	**Ca**	2	**1859.000**	ug/l	92,950.00	0.8	450000	45	P	
47	**Ti**	2	**124.800**	ug/l	6,240.00	0.6	4500	45	P	
51	**V**	2	**44.100**	ug/l	2,205.00	1.6	4500	45	P	
52	**Cr**	2	**607.200**	ug/l	30,360.00	1.1	4500	45	A	
54	**Fe**	2	**53590.000**	ug/l	2,679,500.00	0.6	450000	74	A	
55	**Mn**	2	**240.200**	ug/l	12,010.00	0.5	15000	45	P	
59	**Co**	2	**47.540**	ug/l	2,377.00	0.3	4500	45	P	
60	**Ni**	2	**326.900**	ug/l	16,345.00	0.7	15000	45	P	
63	**Cu**	2	**32.250**	ug/l	1,612.50	0.9	15000	45	P	
66	**Zn**	2	**352.600**	ug/l	17,630.00	1.4	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**85.530**	ug/l	4,276.50	7.7	4500	74	P	
88	**Sr**	3	**13.690**	ug/l	684.50	0.3	4500	74	P	
95	**Mo**	3	**105.700**	ug/l	5,285.00	1.4	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.2	450	103	P	
111	**Cd**	3	**2.277**	ug/l	113.85	5.0	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**59.100**	ug/l	2,955.00	1.4	4500	103	P	
135	**Ba**	3	**130.900**	ug/l	6,545.00	1.7	4500	103	P	
200	**Hg**	3	**10540.000**	ug/l	527,000.00	0.7	45	209	A	Fail
205	**Tl**	3	**80.210**	ug/l	4,010.50	0.6	4500	209	A	
208	**Pb**	3	**245.100**	ug/l	12,255.00	1.1	4500	209	A	
238	**U**	3	**0.074**	ug/l	3.69	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3215270	1.59	5119000	**62.8**	30	-	120	
45	Sc	1	188805	0.60	341400	**55.3**	30	-	120	
45	Sc	2	212052	0.68	273900	**77.4**	30	-	120	
74	Ge	1	157650	1.28	283600	**55.6**	30	-	120	
74	Ge	2	345724	1.37	422600	**81.8**	30	-	120	
74	Ge	3	1358625	0.97	1674000	**81.2**	30	-	120	
103	Rh	2	672207	0.09	814900	**82.5**	30	-	120	
103	Rh	3	1287027	0.40	1535000	**83.8**	30	-	120	
165	Ho	3	2926651	1.06	3236000	**90.4**	30	-	120	
175	Lu	3	3269518	0.85	3584000	**91.2**	30	-	120	
209	Bi	3	6840558	0.76	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 02:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.340**	ug/l	117.00	4.5	450	6	P	
23	**Na**	2	**456.100**	ug/l	22,805.00	1.0	450000	45	P	
24	**Mg**	2	**3751.000**	ug/l	187,550.00	1.8	450000	45	A	
27	**Al**	2	**4641.000**	ug/l	232,050.00	0.7	450000	45	P	
31	**P**	2	**653.900**	ug/l	32,695.00	3.5	450000	45	P	
39	**K**	2	**920.800**	ug/l	46,040.00	1.0	450000	45	P	
44	**Ca**	2	**1939.000**	ug/l	96,950.00	1.6	450000	45	P	
47	**Ti**	2	**129.400**	ug/l	6,470.00	0.5	4500	45	P	
51	**V**	2	**44.670**	ug/l	2,233.50	0.4	4500	45	P	
52	**Cr**	2	**622.900**	ug/l	31,145.00	0.3	4500	45	A	
54	**Fe**	2	**56280.000**	ug/l	2,814,000.00	0.8	450000	74	A	
55	**Mn**	2	**246.400**	ug/l	12,320.00	0.5	15000	45	P	
59	**Co**	2	**48.900**	ug/l	2,445.00	0.7	4500	45	P	
60	**Ni**	2	**335.600**	ug/l	16,780.00	0.6	15000	45	P	
63	**Cu**	2	**33.310**	ug/l	1,665.50	1.3	15000	45	P	
66	**Zn**	2	**361.100**	ug/l	18,055.00	0.1	15000	45	P	
75	**As**	2	**83.000**	ug/l	4,150.00	2.5	4500	74	P	
78	**Se**	2	**83.460**	ug/l	4,173.00	5.0	4500	74	P	
88	**Sr**	3	**14.080**	ug/l	704.00	1.6	4500	74	P	
95	**Mo**	3	**110.600**	ug/l	5,530.00	1.7	4500	74	P	
107	**Ag**	3	**12.910**	ug/l	645.50	1.4	450	103	P	
111	**Cd**	3	**2.322**	ug/l	116.10	4.1	900	103	P	
118	**Sn**	3	**112.300**	ug/l	5,615.00	0.2	4500	103	P	
121	**Sb**	3	**62.290**	ug/l	3,114.50	1.9	4500	103	P	
135	**Ba**	3	**135.300**	ug/l	6,765.00	2.5	4500	103	P	
200	**Hg**	3	**10810.000**	ug/l	540,500.00	0.7	45	209	A	Fail
205	**Tl**	3	**83.760**	ug/l	4,188.00	1.4	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.2	4500	209	A	
238	**U**	3	**0.068**	ug/l	3.42	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3249122	1.91	5119000	**63.5**	30	-	120	
45	Sc	1	196673	0.44	341400	**57.6**	30	-	120	
45	Sc	2	216349	1.14	273900	**79.0**	30	-	120	
74	Ge	1	167658	2.39	283600	**59.1**	30	-	120	
74	Ge	2	343560	1.24	422600	**81.3**	30	-	120	
74	Ge	3	1370036	1.32	1674000	**81.8**	30	-	120	
103	Rh	2	668136	0.61	814900	**82.0**	30	-	120	
103	Rh	3	1277754	0.41	1535000	**83.2**	30	-	120	
165	Ho	3	2919016	0.54	3236000	**90.2**	30	-	120	
175	Lu	3	3272152	0.70	3584000	**91.3**	30	-	120	
209	Bi	3	6822660	0.83	7619000	**89.5**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.238**	ug/l	111.90	3.9	450	6	P	
23	**Na**	2	**463.500**	ug/l	23,175.00	0.9	450000	45	P	
24	**Mg**	2	**3787.000**	ug/l	189,350.00	3.3	450000	45	A	
27	**Al**	2	**4688.000**	ug/l	234,400.00	1.2	450000	45	P	
31	**P**	2	**648.000**	ug/l	32,400.00	1.3	450000	45	P	
39	**K**	2	**912.400**	ug/l	45,620.00	1.1	450000	45	P	
44	**Ca**	2	**1950.000**	ug/l	97,500.00	0.4	450000	45	P	
47	**Ti**	2	**130.000**	ug/l	6,500.00	1.7	4500	45	P	
51	**V**	2	**45.020**	ug/l	2,251.00	0.9	4500	45	P	
52	**Cr**	2	**624.800**	ug/l	31,240.00	1.9	4500	45	A	
54	**Fe**	2	**56330.000**	ug/l	2,816,500.00	2.1	450000	74	A	
55	**Mn**	2	**247.700**	ug/l	12,385.00	1.0	15000	45	P	
59	**Co**	2	**48.970**	ug/l	2,448.50	0.3	4500	45	P	
60	**Ni**	2	**338.000**	ug/l	16,900.00	0.7	15000	45	P	
63	**Cu**	2	**33.110**	ug/l	1,655.50	0.5	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	18,200.00	1.4	15000	45	P	
75	**As**	2	**81.440**	ug/l	4,072.00	1.2	4500	74	P	
78	**Se**	2	**86.300**	ug/l	4,315.00	10.3	4500	74	P	
88	**Sr**	3	**14.120**	ug/l	706.00	1.1	4500	74	P	
95	**Mo**	3	**110.100**	ug/l	5,505.00	0.4	4500	74	P	
107	**Ag**	3	**12.670**	ug/l	633.50	0.3	450	103	P	
111	**Cd**	3	**2.254**	ug/l	112.70	5.7	900	103	P	
118	**Sn**	3	**111.700**	ug/l	5,585.00	1.0	4500	103	P	
121	**Sb**	3	**61.940**	ug/l	3,097.00	1.4	4500	103	P	
135	**Ba**	3	**134.900**	ug/l	6,745.00	2.3	4500	103	P	
200	**Hg**	3	**10790.000**	ug/l	539,500.00	0.9	45	209	A	Fail
205	**Tl**	3	**83.190**	ug/l	4,159.50	0.6	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.3	4500	209	A	
238	**U**	3	**0.072**	ug/l	3.58	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302458	1.21	5119000	**64.5**	30	-	120	
45	Sc	1	193331	1.24	341400	**56.6**	30	-	120	
45	Sc	2	214293	1.43	273900	**78.2**	30	-	120	
74	Ge	1	161265	2.21	283600	**56.9**	30	-	120	
74	Ge	2	342827	1.91	422600	**81.1**	30	-	120	
74	Ge	3	1342083	0.33	1674000	**80.2**	30	-	120	
103	Rh	2	666322	1.76	814900	**81.8**	30	-	120	
103	Rh	3	1264862	1.00	1535000	**82.4**	30	-	120	
165	Ho	3	2928652	0.52	3236000	**90.5**	30	-	120	
175	Lu	3	3235943	1.09	3584000	**90.3**	30	-	120	
209	Bi	3	6747785	0.26	7619000	**88.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 03:04 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.152**	ug/l	107.60	1.3	450	6	P	
23	**Na**	2	**425.600**	ug/l	21,280.00	1.8	450000	45	P	
24	**Mg**	2	**416.800**	ug/l	20,840.00	1.5	450000	45	P	
27	**Al**	2	**78.000**	ug/l	3,900.00	1.3	450000	45	P	
31	**P**	2	**369.000**	ug/l	18,450.00	2.9	450000	45	P	
39	**K**	2	**433.300**	ug/l	21,665.00	0.5	450000	45	P	
44	**Ca**	2	**409.900**	ug/l	20,495.00	2.1	450000	45	P	
47	**Ti**	2	**100.800**	ug/l	5,040.00	1.0	4500	45	P	
51	**V**	2	**20.620**	ug/l	1,031.00	1.3	4500	45	P	
52	**Cr**	2	**8.473**	ug/l	423.65	3.1	4500	45	P	
54	**Fe**	2	**455.100**	ug/l	22,755.00	1.0	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	0.9	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.5	4500	45	P	
60	**Ni**	2	**21.840**	ug/l	1,092.00	2.9	15000	45	P	
63	**Cu**	2	**10.920**	ug/l	546.00	0.3	15000	45	P	
66	**Zn**	2	**21.310**	ug/l	1,065.50	4.0	15000	45	P	
75	**As**	2	**81.200**	ug/l	4,060.00	2.1	4500	74	P	
78	**Se**	2	**84.830**	ug/l	4,241.50	4.7	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.35	84.5	4500	74	P	
95	**Mo**	3	**106.100**	ug/l	5,305.00	0.4	4500	74	P	
107	**Ag**	3	**12.430**	ug/l	621.50	2.0	450	103	P	
111	**Cd**	3	**1.966**	ug/l	98.30	0.6	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**60.900**	ug/l	3,045.00	1.3	4500	103	P	
135	**Ba**	3	**84.920**	ug/l	4,246.00	2.1	4500	103	P	
200	**Hg**	3	**97.450**	ug/l	4,872.50	2.1	45	209	P	Fail
205	**Tl**	3	**79.380**	ug/l	3,969.00	2.1	4500	209	A	
208	**Pb**	3	**20.690**	ug/l	1,034.50	1.6	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	15.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3172018	0.74	5119000	**62.0**	30	-	120	
45	Sc	1	187075	1.02	341400	**54.8**	30	-	120	
45	Sc	2	211130	1.70	273900	**77.1**	30	-	120	
74	Ge	1	160962	2.53	283600	**56.8**	30	-	120	
74	Ge	2	351420	0.76	422600	**83.2**	30	-	120	
74	Ge	3	1375847	0.18	1674000	**82.2**	30	-	120	
103	Rh	2	690459	0.53	814900	**84.7**	30	-	120	
103	Rh	3	1307511	0.54	1535000	**85.2**	30	-	120	
165	Ho	3	2971472	0.60	3236000	**91.8**	30	-	120	
175	Lu	3	3226827	0.89	3584000	**90.0**	30	-	120	
209	Bi	3	7068557	1.03	7619000	**92.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 03:11 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.159**	ug/l	107.95	1.3	450	6	P	
23	**Na**	2	**424.400**	ug/l	21,220.00	0.5	450000	45	P	
24	**Mg**	2	**414.600**	ug/l	20,730.00	1.1	450000	45	P	
27	**Al**	2	**76.790**	ug/l	3,839.50	3.4	450000	45	P	
31	**P**	2	**356.500**	ug/l	17,825.00	4.6	450000	45	P	
39	**K**	2	**428.500**	ug/l	21,425.00	0.4	450000	45	P	
44	**Ca**	2	**423.600**	ug/l	21,180.00	5.9	450000	45	P	
47	**Ti**	2	**99.850**	ug/l	4,992.50	1.8	4500	45	P	
51	**V**	2	**20.430**	ug/l	1,021.50	0.9	4500	45	P	
52	**Cr**	2	**8.212**	ug/l	410.60	1.1	4500	45	P	
54	**Fe**	2	**443.300**	ug/l	22,165.00	1.2	450000	74	P	
55	**Mn**	2	**21.330**	ug/l	1,066.50	0.3	15000	45	P	
59	**Co**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
60	**Ni**	2	**21.020**	ug/l	1,051.00	4.1	15000	45	P	
63	**Cu**	2	**10.900**	ug/l	545.00	0.8	15000	45	P	
66	**Zn**	2	**21.900**	ug/l	1,095.00	1.5	15000	45	P	
75	**As**	2	**80.880**	ug/l	4,044.00	1.0	4500	74	P	
78	**Se**	2	**75.290**	ug/l	3,764.50	7.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.14	161.9	4500	74	P	
95	**Mo**	3	**106.600**	ug/l	5,330.00	1.2	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	0.9	450	103	P	
111	**Cd**	3	**2.077**	ug/l	103.85	3.6	900	103	P	
118	**Sn**	3	**107.300**	ug/l	5,365.00	0.2	4500	103	P	
121	**Sb**	3	**60.830**	ug/l	3,041.50	1.4	4500	103	P	
135	**Ba**	3	**86.040**	ug/l	4,302.00	0.9	4500	103	P	
200	**Hg**	3	**71.400**	ug/l	3,570.00	1.7	45	209	P	Fail
205	**Tl**	3	**80.380**	ug/l	4,019.00	0.3	4500	209	A	
208	**Pb**	3	**20.920**	ug/l	1,046.00	0.5	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3163652	1.52	5119000	**61.8**	30	-	120	
45	Sc	1	186752	0.91	341400	**54.7**	30	-	120	
45	Sc	2	213137	0.64	273900	**77.8**	30	-	120	
74	Ge	1	162307	0.71	283600	**57.2**	30	-	120	
74	Ge	2	353633	0.94	422600	**83.7**	30	-	120	
74	Ge	3	1391109	0.69	1674000	**83.1**	30	-	120	
103	Rh	2	696394	1.10	814900	**85.5**	30	-	120	
103	Rh	3	1316056	0.72	1535000	**85.7**	30	-	120	
165	Ho	3	2994420	1.18	3236000	**92.5**	30	-	120	
175	Lu	3	3327261	0.33	3584000	**92.8**	30	-	120	
209	Bi	3	7040570	0.32	7619000	**92.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 03:18 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**95.780**	ug/l	1,915.60	1.3	450	6	P	
23	**Na**	2	**328.900**	ug/l	6,578.00	0.5	450000	45	P	
24	**Mg**	2	**2449.000**	ug/l	48,980.00	0.6	450000	45	A	
27	**Al**	2	**5847.000**	ug/l	116,940.00	0.9	450000	45	A	
31	**P**	2	**403.100**	ug/l	8,062.00	5.6	450000	45	P	
39	**K**	2	**2430.000**	ug/l	48,600.00	0.5	450000	45	P	
44	**Ca**	2	**5586.000**	ug/l	111,720.00	2.1	450000	45	P	
47	**Ti**	2	**274.600**	ug/l	5,492.00	0.6	4500	45	P	
51	**V**	2	**56.980**	ug/l	1,139.60	1.2	4500	45	P	
52	**Cr**	2	**72.540**	ug/l	1,450.80	0.7	4500	45	P	
54	**Fe**	2	**10180.000**	ug/l	203,600.00	2.0	450000	74	A	
55	**Mn**	2	**216.600**	ug/l	4,332.00	0.5	15000	45	P	
59	**Co**	2	**70.910**	ug/l	1,418.20	0.5	4500	45	P	
60	**Ni**	2	**106.200**	ug/l	2,124.00	1.5	15000	45	P	
63	**Cu**	2	**40.610**	ug/l	812.20	0.5	15000	45	P	
66	**Zn**	2	**217.100**	ug/l	4,342.00	0.5	15000	45	P	
75	**As**	2	**130.700**	ug/l	2,614.00	1.2	4500	74	P	
78	**Se**	2	**89.080**	ug/l	1,781.60	10.3	4500	74	P	
88	**Sr**	3	**74.010**	ug/l	1,480.20	2.6	4500	74	P	
95	**Mo**	3	**67.690**	ug/l	1,353.80	2.2	4500	74	P	
107	**Ag**	3	**21.040**	ug/l	420.80	0.5	450	103	P	
111	**Cd**	3	**40.280**	ug/l	805.60	0.8	900	103	P	
118	**Sn**	3	**101.200**	ug/l	2,024.00	1.4	4500	103	P	
121	**Sb**	3	**86.000**	ug/l	1,720.00	1.4	4500	103	P	
135	**Ba**	3	**337.800**	ug/l	6,756.00	1.4	4500	103	P	
200	**Hg**	3	**73.880**	ug/l	1,477.60	0.9	45	209	P	Fail
205	**Tl**	3	**101.300**	ug/l	2,026.00	1.1	4500	209	A	
208	**Pb**	3	**126.600**	ug/l	2,532.00	0.3	4500	209	A	
238	**U**	3	**1.052**	ug/l	21.04	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3541150	1.81	5119000	**69.2**	30	-	120	
45	Sc	1	195648	1.35	341400	**57.3**	30	-	120	
45	Sc	2	217133	0.52	273900	**79.3**	30	-	120	
74	Ge	1	169345	1.69	283600	**59.7**	30	-	120	
74	Ge	2	353442	1.40	422600	**83.6**	30	-	120	
74	Ge	3	1413697	2.49	1674000	**84.5**	30	-	120	
103	Rh	2	676511	0.81	814900	**83.0**	30	-	120	
103	Rh	3	1318493	0.29	1535000	**85.9**	30	-	120	
165	Ho	3	2966347	1.69	3236000	**91.7**	30	-	120	
175	Lu	3	3306452	0.32	3584000	**92.3**	30	-	120	
209	Bi	3	6907766	0.97	7619000	**90.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 03:25 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.990**	ug/l	53.99	1.3	450	6	P	
23	**Na**	2	**5053.000**	ug/l	5,053.00	1.8	450000	45	A	
24	**Mg**	2	**5087.000**	ug/l	5,087.00	2.0	450000	45	A	
27	**Al**	2	**491.400**	ug/l	491.40	0.6	450000	45	P	
31	**P**	2	**4989.000**	ug/l	4,989.00	2.9	450000	45	P	
39	**K**	2	**5325.000**	ug/l	5,325.00	2.1	450000	45	A	
44	**Ca**	2	**5194.000**	ug/l	5,194.00	1.9	450000	45	P	
47	**Ti**	2	**52.740**	ug/l	52.74	0.7	4500	45	P	
51	**V**	2	**53.020**	ug/l	53.02	1.6	4500	45	P	
52	**Cr**	2	**52.970**	ug/l	52.97	1.3	4500	45	P	
54	**Fe**	2	**5153.000**	ug/l	5,153.00	1.1	450000	74	P	
55	**Mn**	2	**53.850**	ug/l	53.85	0.4	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.8	4500	45	P	
60	**Ni**	2	**53.990**	ug/l	53.99	2.6	15000	45	P	
63	**Cu**	2	**53.780**	ug/l	53.78	1.5	15000	45	P	
66	**Zn**	2	**54.140**	ug/l	54.14	1.5	15000	45	P	
75	**As**	2	**51.910**	ug/l	51.91	3.0	4500	74	P	
78	**Se**	2	**51.220**	ug/l	51.22	2.4	4500	74	P	
88	**Sr**	3	**53.490**	ug/l	53.49	1.1	4500	74	P	
95	**Mo**	3	**52.860**	ug/l	52.86	1.3	4500	74	P	
107	**Ag**	3	**52.230**	ug/l	52.23	1.6	450	103	P	
111	**Cd**	3	**51.730**	ug/l	51.73	3.5	900	103	P	
118	**Sn**	3	**53.190**	ug/l	53.19	1.1	4500	103	P	
121	**Sb**	3	**53.210**	ug/l	53.21	2.7	4500	103	P	
135	**Ba**	3	**53.830**	ug/l	53.83	2.8	4500	103	P	
200	**Hg**	3	**54.090**	ug/l	54.09	0.1	45	209	P	Fail
205	**Tl**	3	**52.910**	ug/l	52.91	1.9	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**52.010**	ug/l	52.01	2.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3511565	0.22	5119000	**68.6**	30	-	120	
45	Sc	1	200366	1.51	341400	**58.7**	30	-	120	
45	Sc	2	220486	1.01	273900	**80.5**	30	-	120	
74	Ge	1	174374	0.98	283600	**61.5**	30	-	120	
74	Ge	2	361888	1.53	422600	**85.6**	30	-	120	
74	Ge	3	1466606	0.39	1674000	**87.6**	30	-	120	
103	Rh	2	696151	1.22	814900	**85.4**	30	-	120	
103	Rh	3	1336452	1.50	1535000	**87.1**	30	-	120	
165	Ho	3	2994963	1.73	3236000	**92.6**	30	-	120	
175	Lu	3	3319903	0.92	3584000	**92.6**	30	-	120	
209	Bi	3	6932508	0.97	7619000	**91.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 03:32 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	17.3	450	6	P	
23	**Na**	2	**8.956**	ug/l	8.96	10.8	450000	45	P	
24	**Mg**	2	**2.350**	ug/l	2.35	6.4	450000	45	P	
27	**Al**	2	**0.566**	ug/l	0.57	19.0	450000	45	P	
31	**P**	2	**-5.222**	ug/l	-5.22	132.7	450000	45	P	
39	**K**	2	**12.230**	ug/l	12.23	13.6	450000	45	P	
44	**Ca**	2	**7.849**	ug/l	7.85	20.4	450000	45	P	
47	**Ti**	2	**0.062**	ug/l	0.06	92.9	4500	45	P	
51	**V**	2	**-0.171**	ug/l	-0.17	26.7	4500	45	P	
52	**Cr**	2	**0.013**	ug/l	0.01	167.0	4500	45	P	
54	**Fe**	2	**2.727**	ug/l	2.73	18.9	450000	74	P	
55	**Mn**	2	**0.104**	ug/l	0.10	5.1	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	21.4	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	55.0	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.02	99.9	15000	45	P	
66	**Zn**	2	**0.062**	ug/l	0.06	174.5	15000	45	P	
75	**As**	2	**-0.038**	ug/l	-0.04	37.7	4500	74	P	
78	**Se**	2	**-0.152**	ug/l	-0.15	550.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	24.5	4500	74	P	
95	**Mo**	3	**0.007**	ug/l	0.01	112.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	37.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	55.0	900	103	P	
118	**Sn**	3	**0.069**	ug/l	0.07	8.6	4500	103	P	
121	**Sb**	3	**0.061**	ug/l	0.06	17.7	4500	103	P	
135	**Ba**	3	**0.042**	ug/l	0.04	20.3	4500	103	P	
200	**Hg**	3	**44.060**	ug/l	44.06	0.8	45	209	P	
205	**Tl**	3	**0.685**	ug/l	0.69	8.8	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.02	10.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3399935	2.19	5119000	**66.4**	30	-	120	
45	Sc	1	198430	0.80	341400	**58.1**	30	-	120	
45	Sc	2	223829	0.65	273900	**81.7**	30	-	120	
74	Ge	1	173828	1.18	283600	**61.3**	30	-	120	
74	Ge	2	371487	0.74	422600	**87.9**	30	-	120	
74	Ge	3	1448040	1.66	1674000	**86.5**	30	-	120	
103	Rh	2	720321	0.66	814900	**88.4**	30	-	120	
103	Rh	3	1363550	0.98	1535000	**88.8**	30	-	120	
165	Ho	3	2971052	1.42	3236000	**91.8**	30	-	120	
175	Lu	3	3308839	1.79	3584000	**92.3**	30	-	120	
209	Bi	3	7177571	0.78	7619000	**94.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 03:39 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.252**	ug/l	12.52	2.8	450	6	P	
23	**Na**	2	**103.700**	ug/l	1,037.00	1.8	450000	45	P	
24	**Mg**	2	**33570.000**	ug/l	335,700.00	1.2	450000	45	A	
27	**Al**	2	**34420.000**	ug/l	344,200.00	1.6	450000	45	A	
31	**P**	2	**675.400**	ug/l	6,754.00	2.2	450000	45	P	
39	**K**	2	**2137.000**	ug/l	21,370.00	0.8	450000	45	P	
44	**Ca**	2	**2880.000**	ug/l	28,800.00	1.1	450000	45	P	
47	**Ti**	2	**79.600**	ug/l	796.00	14.2	4500	45	P	
51	**V**	2	**98.980**	ug/l	989.80	1.8	4500	45	P	
52	**Cr**	2	**344.600**	ug/l	3,446.00	0.9	4500	45	P	
54	**Fe**	2	**85250.000**	ug/l	852,500.00	1.7	450000	74	A	
55	**Mn**	2	**1647.000**	ug/l	16,470.00	0.7	15000	45	A	
59	**Co**	2	**81.780**	ug/l	817.80	0.9	4500	45	P	
60	**Ni**	2	**906.000**	ug/l	9,060.00	0.6	15000	45	P	
63	**Cu**	2	**82.590**	ug/l	825.90	1.1	15000	45	P	
66	**Zn**	2	**178.600**	ug/l	1,786.00	0.8	15000	45	P	
75	**As**	2	**21.340**	ug/l	213.40	1.7	4500	74	P	
78	**Se**	2	**0.862**	ug/l	8.62	28.0	4500	74	P	
88	**Sr**	3	**30.380**	ug/l	303.80	1.5	4500	74	P	
95	**Mo**	3	**1.894**	ug/l	18.94	5.5	4500	74	P	
107	**Ag**	3	**0.180**	ug/l	1.80	11.5	450	103	P	
111	**Cd**	3	**0.359**	ug/l	3.59	17.6	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	1.2	4500	103	P	
121	**Sb**	3	**0.442**	ug/l	4.42	10.1	4500	103	P	
135	**Ba**	3	**438.500**	ug/l	4,385.00	2.6	4500	103	P	
200	**Hg**	3	**745.500**	ug/l	7,455.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.573**	ug/l	5.73	3.6	4500	209	P	
208	**Pb**	3	**36.910**	ug/l	369.10	1.1	4500	209	P	
238	**U**	3	**0.321**	ug/l	3.21	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3233697	1.57	5119000	**63.2**	30	-	120	
45	Sc	1	208169	0.87	341400	**61.0**	30	-	120	
45	Sc	2	235758	0.41	273900	**86.1**	30	-	120	
74	Ge	1	162388	1.51	283600	**57.3**	30	-	120	
74	Ge	2	354045	2.07	422600	**83.8**	30	-	120	
74	Ge	3	1436157	2.21	1674000	**85.8**	30	-	120	
103	Rh	2	671438	1.02	814900	**82.4**	30	-	120	
103	Rh	3	1317775	2.40	1535000	**85.8**	30	-	120	
165	Ho	3	3023569	1.13	3236000	**93.4**	30	-	120	
175	Lu	3	3357138	0.71	3584000	**93.7**	30	-	120	
209	Bi	3	6737754	0.75	7619000	**88.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 03:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.186**	ug/l	11.86	3.5	450	6	P	
23	**Na**	2	**80.050**	ug/l	800.50	4.4	450000	45	P	
24	**Mg**	2	**17530.000**	ug/l	175,300.00	0.7	450000	45	A	
27	**Al**	2	**33520.000**	ug/l	335,200.00	0.0	450000	45	A	
31	**P**	2	**1011.000**	ug/l	10,110.00	0.7	450000	45	P	
39	**K**	2	**3474.000**	ug/l	34,740.00	1.0	450000	45	A	
44	**Ca**	2	**4382.000**	ug/l	43,820.00	1.0	450000	45	P	
47	**Ti**	2	**89.760**	ug/l	897.60	2.2	4500	45	P	
51	**V**	2	**86.910**	ug/l	869.10	0.7	4500	45	P	
52	**Cr**	2	**230.500**	ug/l	2,305.00	0.7	4500	45	P	
54	**Fe**	2	**75570.000**	ug/l	755,700.00	0.3	450000	74	A	
55	**Mn**	2	**1345.000**	ug/l	13,450.00	1.0	15000	45	A	
59	**Co**	2	**48.720**	ug/l	487.20	1.8	4500	45	P	
60	**Ni**	2	**420.300**	ug/l	4,203.00	0.9	15000	45	P	
63	**Cu**	2	**109.200**	ug/l	1,092.00	0.9	15000	45	P	
66	**Zn**	2	**226.800**	ug/l	2,268.00	1.6	15000	45	P	
75	**As**	2	**17.730**	ug/l	177.30	0.8	4500	74	P	
78	**Se**	2	**0.996**	ug/l	9.96	17.7	4500	74	P	
88	**Sr**	3	**32.830**	ug/l	328.30	1.2	4500	74	P	
95	**Mo**	3	**1.425**	ug/l	14.25	4.8	4500	74	P	
107	**Ag**	3	**0.117**	ug/l	1.17	10.4	450	103	P	
111	**Cd**	3	**0.484**	ug/l	4.84	4.8	900	103	P	
118	**Sn**	3	**1.957**	ug/l	19.57	6.6	4500	103	P	
121	**Sb**	3	**1.361**	ug/l	13.61	3.6	4500	103	P	
135	**Ba**	3	**461.300**	ug/l	4,613.00	3.2	4500	103	P	
200	**Hg**	3	**1328.000**	ug/l	13,280.00	0.6	45	209	A	Fail
205	**Tl**	3	**0.474**	ug/l	4.74	6.2	4500	209	P	
208	**Pb**	3	**250.900**	ug/l	2,509.00	0.3	4500	209	A	
238	**U**	3	**0.331**	ug/l	3.31	5.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3252827	0.73	5119000	**63.5**	30	-	120	
45	Sc	1	195640	1.34	341400	**57.3**	30	-	120	
45	Sc	2	229481	0.76	273900	**83.8**	30	-	120	
74	Ge	1	152256	1.31	283600	**53.7**	30	-	120	
74	Ge	2	345859	1.04	422600	**81.8**	30	-	120	
74	Ge	3	1341073	1.92	1674000	**80.1**	30	-	120	
103	Rh	2	659979	1.01	814900	**81.0**	30	-	120	
103	Rh	3	1249960	2.47	1535000	**81.4**	30	-	120	
165	Ho	3	2901084	0.31	3236000	**89.7**	30	-	120	
175	Lu	3	3202416	0.95	3584000	**89.4**	30	-	120	
209	Bi	3	6595326	0.63	7619000	**86.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\132SMPL.D\132SMPL.D#
Date Acquired: May 28 2010 03:54 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.2	450	6	P	
23	**Na**	2	**76.880**	ug/l	768.80	5.7	450000	45	P	
24	**Mg**	2	**127200.000**	ug/l	1,272,000.00	1.1	450000	45	A	
27	**Al**	2	**30250.000**	ug/l	302,500.00	0.3	450000	45	A	
31	**P**	2	**795.200**	ug/l	7,952.00	4.1	450000	45	P	
39	**K**	2	**2870.000**	ug/l	28,700.00	1.1	450000	45	A	
44	**Ca**	2	**3244.000**	ug/l	32,440.00	1.2	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	1,022.00	4.0	4500	45	P	
51	**V**	2	**98.500**	ug/l	985.00	0.7	4500	45	P	
52	**Cr**	2	**612.800**	ug/l	6,128.00	0.2	4500	45	A	
54	**Fe**	2	**107100.000**	ug/l	1,071,000.00	1.2	450000	74	A	
55	**Mn**	2	**1660.000**	ug/l	16,600.00	0.6	15000	45	A	
59	**Co**	2	**137.200**	ug/l	1,372.00	0.6	4500	45	P	
60	**Ni**	2	**2406.000**	ug/l	24,060.00	1.3	15000	45	A	
63	**Cu**	2	**72.230**	ug/l	722.30	0.3	15000	45	P	
66	**Zn**	2	**203.400**	ug/l	2,034.00	1.0	15000	45	P	
75	**As**	2	**15.540**	ug/l	155.40	1.6	4500	74	P	
78	**Se**	2	**1.177**	ug/l	11.77	46.4	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.5	4500	74	P	
95	**Mo**	3	**1.126**	ug/l	11.26	8.4	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	19.7	450	103	P	
111	**Cd**	3	**0.354**	ug/l	3.54	6.4	900	103	P	
118	**Sn**	3	**1.362**	ug/l	13.62	5.7	4500	103	P	
121	**Sb**	3	**0.549**	ug/l	5.49	4.4	4500	103	P	
135	**Ba**	3	**552.200**	ug/l	5,522.00	0.5	4500	103	P	
200	**Hg**	3	**392.900**	ug/l	3,929.00	0.1	45	209	P	Fail
205	**Tl**	3	**0.350**	ug/l	3.50	2.6	4500	209	P	
208	**Pb**	3	**27.990**	ug/l	279.90	0.5	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	0.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3280978	0.85	5119000	**64.1**	30	-	120	
45	Sc	1	195565	1.42	341400	**57.3**	30	-	120	
45	Sc	2	236480	0.71	273900	**86.3**	30	-	120	
74	Ge	1	148021	3.80	283600	**52.2**	30	-	120	
74	Ge	2	346008	1.40	422600	**81.9**	30	-	120	
74	Ge	3	1414206	0.46	1674000	**84.5**	30	-	120	
103	Rh	2	650335	0.51	814900	**79.8**	30	-	120	
103	Rh	3	1272919	0.97	1535000	**82.9**	30	-	120	
165	Ho	3	2926850	1.30	3236000	**90.4**	30	-	120	
175	Lu	3	3266921	0.51	3584000	**91.2**	30	-	120	
209	Bi	3	6399828	0.26	7619000	**84.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\133SMPL.D\133SMPL.D#
Date Acquired: May 28 2010 04:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.486**	ug/l	14.86	4.0	450	6	P	
23	**Na**	2	**82.310**	ug/l	823.10	2.5	450000	45	P	
24	**Mg**	2	**33320.000**	ug/l	333,200.00	0.9	450000	45	A	
27	**Al**	2	**38950.000**	ug/l	389,500.00	0.7	450000	45	A	
31	**P**	2	**693.800**	ug/l	6,938.00	1.5	450000	45	P	
39	**K**	2	**2485.000**	ug/l	24,850.00	2.1	450000	45	M	
44	**Ca**	2	**1622.000**	ug/l	16,220.00	3.0	450000	45	P	
47	**Ti**	2	**56.270**	ug/l	562.70	2.9	4500	45	P	
51	**V**	2	**99.870**	ug/l	998.70	0.8	4500	45	P	
52	**Cr**	2	**417.300**	ug/l	4,173.00	1.5	4500	45	A	
54	**Fe**	2	**89170.000**	ug/l	891,700.00	1.5	450000	74	A	
55	**Mn**	2	**2186.000**	ug/l	21,860.00	0.7	15000	45	A	
59	**Co**	2	**79.940**	ug/l	799.40	0.6	4500	45	P	
60	**Ni**	2	**951.600**	ug/l	9,516.00	0.1	15000	45	P	
63	**Cu**	2	**144.500**	ug/l	1,445.00	0.6	15000	45	P	
66	**Zn**	2	**176.800**	ug/l	1,768.00	0.7	15000	45	P	
75	**As**	2	**21.180**	ug/l	211.80	1.7	4500	74	P	
78	**Se**	2	**0.504**	ug/l	5.04	81.1	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.8	4500	74	P	
95	**Mo**	3	**5.156**	ug/l	51.56	1.5	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.68	16.3	450	103	P	
111	**Cd**	3	**0.277**	ug/l	2.77	10.1	900	103	P	
118	**Sn**	3	**1.425**	ug/l	14.25	4.0	4500	103	P	
121	**Sb**	3	**0.479**	ug/l	4.79	7.6	4500	103	P	
135	**Ba**	3	**649.700**	ug/l	6,497.00	0.8	4500	103	P	
200	**Hg**	3	**349.300**	ug/l	3,493.00	0.7	45	209	P	Fail
205	**Tl**	3	**0.330**	ug/l	3.30	6.3	4500	209	P	
208	**Pb**	3	**33.110**	ug/l	331.10	0.8	4500	209	P	
238	**U**	3	**0.257**	ug/l	2.57	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3414273	1.21	5119000	**66.7**	30	-	120	
45	Sc	1	192762	0.51	341400	**56.5**	30	-	120	
45	Sc	2	238401	0.44	273900	**87.0**	30	-	120	
74	Ge	1	146889	2.39	283600	**51.8**	30	-	120	
74	Ge	2	354074	0.38	422600	**83.8**	30	-	120	
74	Ge	3	1466972	0.81	1674000	**87.6**	30	-	120	
103	Rh	2	665774	0.69	814900	**81.7**	30	-	120	
103	Rh	3	1341915	1.12	1535000	**87.4**	30	-	120	
165	Ho	3	3015882	1.30	3236000	**93.2**	30	-	120	
175	Lu	3	3357165	0.59	3584000	**93.7**	30	-	120	
209	Bi	3	6711187	0.98	7619000	**88.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\134SMPL.D\134SMPL.D#
Date Acquired: May 28 2010 04:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.141**	ug/l	11.41	2.4	450	6	P	
23	**Na**	2	**136.300**	ug/l	1,363.00	1.2	450000	45	P	
24	**Mg**	2	**29800.000**	ug/l	298,000.00	0.9	450000	45	A	
27	**Al**	2	**31190.000**	ug/l	311,900.00	0.7	450000	45	A	
31	**P**	2	**949.200**	ug/l	9,492.00	4.9	450000	45	P	
39	**K**	2	**3289.000**	ug/l	32,890.00	1.7	450000	45	A	
44	**Ca**	2	**4192.000**	ug/l	41,920.00	0.2	450000	45	P	
47	**Ti**	2	**127.200**	ug/l	1,272.00	3.4	4500	45	P	
51	**V**	2	**89.280**	ug/l	892.80	1.1	4500	45	P	
52	**Cr**	2	**367.500**	ug/l	3,675.00	0.5	4500	45	P	
54	**Fe**	2	**78270.000**	ug/l	782,700.00	1.5	450000	74	A	
55	**Mn**	2	**1670.000**	ug/l	16,700.00	1.2	15000	45	A	
59	**Co**	2	**77.920**	ug/l	779.20	0.8	4500	45	P	
60	**Ni**	2	**1142.000**	ug/l	11,420.00	0.7	15000	45	P	
63	**Cu**	2	**93.510**	ug/l	935.10	0.6	15000	45	P	
66	**Zn**	2	**233.200**	ug/l	2,332.00	1.0	15000	45	P	
75	**As**	2	**14.220**	ug/l	142.20	1.8	4500	74	P	
78	**Se**	2	**-0.132**	ug/l	-1.32	232.9	4500	74	P	
88	**Sr**	3	**41.720**	ug/l	417.20	0.6	4500	74	P	
95	**Mo**	3	**3.515**	ug/l	35.15	3.9	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	9.4	450	103	P	
111	**Cd**	3	**0.487**	ug/l	4.87	16.8	900	103	P	
118	**Sn**	3	**1.998**	ug/l	19.98	1.8	4500	103	P	
121	**Sb**	3	**1.292**	ug/l	12.92	0.6	4500	103	P	
135	**Ba**	3	**551.600**	ug/l	5,516.00	0.2	4500	103	P	
200	**Hg**	3	**1052.000**	ug/l	10,520.00	1.1	45	209	A	Fail
205	**Tl**	3	**0.303**	ug/l	3.03	3.2	4500	209	P	
208	**Pb**	3	**126.500**	ug/l	1,265.00	0.7	4500	209	A	
238	**U**	3	**0.362**	ug/l	3.62	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3504359	0.71	5119000	**68.5**	30	-	120	
45	Sc	1	186564	0.22	341400	**54.6**	30	-	120	
45	Sc	2	241439	0.52	273900	**88.1**	30	-	120	
74	Ge	1	143797	1.45	283600	**50.7**	30	-	120	
74	Ge	2	357348	1.10	422600	**84.6**	30	-	120	
74	Ge	3	1463543	0.48	1674000	**87.4**	30	-	120	
103	Rh	2	682146	1.36	814900	**83.7**	30	-	120	
103	Rh	3	1339332	0.52	1535000	**87.3**	30	-	120	
165	Ho	3	3045249	0.66	3236000	**94.1**	30	-	120	
175	Lu	3	3340997	1.56	3584000	**93.2**	30	-	120	
209	Bi	3	6767508	1.21	7619000	**88.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\135SMPL.D\135SMPL.D#
Date Acquired: May 28 2010 04:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.886**	ug/l	8.86	1.2	450	6	P	
23	**Na**	2	**67.060**	ug/l	670.60	4.0	450000	45	P	
24	**Mg**	2	**83020.000**	ug/l	830,200.00	1.7	450000	45	A	
27	**Al**	2	**22090.000**	ug/l	220,900.00	1.2	450000	45	A	
31	**P**	2	**692.600**	ug/l	6,926.00	1.9	450000	45	P	
39	**K**	2	**2000.000**	ug/l	20,000.00	1.7	450000	45	P	
44	**Ca**	2	**3347.000**	ug/l	33,470.00	3.3	450000	45	P	
47	**Ti**	2	**101.300**	ug/l	1,013.00	3.8	4500	45	P	
51	**V**	2	**82.950**	ug/l	829.50	1.8	4500	45	P	
52	**Cr**	2	**451.000**	ug/l	4,510.00	0.9	4500	45	A	
54	**Fe**	2	**85500.000**	ug/l	855,000.00	1.9	450000	74	A	
55	**Mn**	2	**1502.000**	ug/l	15,020.00	1.7	15000	45	A	
59	**Co**	2	**113.800**	ug/l	1,138.00	1.4	4500	45	P	
60	**Ni**	2	**1972.000**	ug/l	19,720.00	2.0	15000	45	A	
63	**Cu**	2	**55.210**	ug/l	552.10	1.8	15000	45	P	
66	**Zn**	2	**121.400**	ug/l	1,214.00	0.7	15000	45	P	
75	**As**	2	**14.800**	ug/l	148.00	5.5	4500	74	P	
78	**Se**	2	**0.861**	ug/l	8.61	32.1	4500	74	P	
88	**Sr**	3	**18.800**	ug/l	188.00	0.9	4500	74	P	
95	**Mo**	3	**0.642**	ug/l	6.42	6.2	4500	74	P	
107	**Ag**	3	**0.080**	ug/l	0.80	10.9	450	103	P	
111	**Cd**	3	**0.227**	ug/l	2.27	19.5	900	103	P	
118	**Sn**	3	**0.866**	ug/l	8.66	1.8	4500	103	P	
121	**Sb**	3	**0.509**	ug/l	5.09	4.1	4500	103	P	
135	**Ba**	3	**356.700**	ug/l	3,567.00	0.5	4500	103	P	
200	**Hg**	3	**197.700**	ug/l	1,977.00	1.9	45	209	P	Fail
205	**Tl**	3	**0.254**	ug/l	2.54	5.1	4500	209	P	
208	**Pb**	3	**44.950**	ug/l	449.50	1.3	4500	209	P	
238	**U**	3	**0.320**	ug/l	3.20	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3386836	0.54	5119000	**66.2**	30	-	120	
45	Sc	1	164796	1.36	341400	**48.3**	30	-	120	
45	Sc	2	237012	0.67	273900	**86.5**	30	-	120	
74	Ge	1	128234	2.32	283600	**45.2**	30	-	120	
74	Ge	2	354926	0.93	422600	**84.0**	30	-	120	
74	Ge	3	1435823	0.94	1674000	**85.8**	30	-	120	
103	Rh	2	668284	1.48	814900	**82.0**	30	-	120	
103	Rh	3	1291272	1.16	1535000	**84.1**	30	-	120	
165	Ho	3	2956301	0.34	3236000	**91.4**	30	-	120	
175	Lu	3	3278151	0.70	3584000	**91.5**	30	-	120	
209	Bi	3	6464435	0.99	7619000	**84.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\136SMPL.D\136SMPL.D#
Date Acquired: May 28 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.087**	ug/l	0.87	6.7	450	6	P	
23	**Na**	2	**90.120**	ug/l	901.20	3.2	450000	45	P	
24	**Mg**	2	**4803.000**	ug/l	48,030.00	0.7	450000	45	A	
27	**Al**	2	**13980.000**	ug/l	139,800.00	1.7	450000	45	A	
31	**P**	2	**221.600**	ug/l	2,216.00	1.8	450000	45	P	
39	**K**	2	**1101.000**	ug/l	11,010.00	1.7	450000	45	P	
44	**Ca**	2	**369.200**	ug/l	3,692.00	4.8	450000	45	P	
47	**Ti**	2	**10.350**	ug/l	103.50	9.3	4500	45	P	
51	**V**	2	**67.850**	ug/l	678.50	0.9	4500	45	P	
52	**Cr**	2	**470.700**	ug/l	4,707.00	2.0	4500	45	A	
54	**Fe**	2	**171200.000**	ug/l	1,712,000.00	0.4	450000	74	A	
55	**Mn**	2	**141.400**	ug/l	1,414.00	0.6	15000	45	P	
59	**Co**	2	**68.430**	ug/l	684.30	0.8	4500	45	P	
60	**Ni**	2	**489.200**	ug/l	4,892.00	1.1	15000	45	P	
63	**Cu**	2	**76.290**	ug/l	762.90	1.7	15000	45	P	
66	**Zn**	2	**90.950**	ug/l	909.50	0.7	15000	45	P	
75	**As**	2	**12.220**	ug/l	122.20	4.5	4500	74	P	
78	**Se**	2	**0.874**	ug/l	8.74	75.8	4500	74	P	
88	**Sr**	3	**11.200**	ug/l	112.00	0.9	4500	74	P	
95	**Mo**	3	**1.590**	ug/l	15.90	1.2	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	14.0	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.13	153.5	900	103	P	
118	**Sn**	3	**1.303**	ug/l	13.03	4.8	4500	103	P	
121	**Sb**	3	**0.387**	ug/l	3.87	2.7	4500	103	P	
135	**Ba**	3	**185.700**	ug/l	1,857.00	2.7	4500	103	P	
200	**Hg**	3	**3348.000**	ug/l	33,480.00	0.5	45	209	A	Fail
205	**Tl**	3	**6.299**	ug/l	62.99	1.3	4500	209	P	
208	**Pb**	3	**14.110**	ug/l	141.10	1.5	4500	209	P	
238	**U**	3	**0.172**	ug/l	1.72	2.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2982550	1.39	5119000	**58.3**	30	-	120	
45	Sc	1	160661	0.55	341400	**47.1**	30	-	120	
45	Sc	2	212444	2.03	273900	**77.6**	30	-	120	
74	Ge	1	130605	0.31	283600	**46.1**	30	-	120	
74	Ge	2	332379	0.40	422600	**78.7**	30	-	120	
74	Ge	3	1320119	0.44	1674000	**78.9**	30	-	120	
103	Rh	2	644718	0.87	814900	**79.1**	30	-	120	
103	Rh	3	1255091	1.83	1535000	**81.8**	30	-	120	
165	Ho	3	2894699	1.20	3236000	**89.5**	30	-	120	
175	Lu	3	3255822	0.83	3584000	**90.8**	30	-	120	
209	Bi	3	6688028	0.34	7619000	**87.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\137SMPL.D\137SMPL.D#
Date Acquired: May 28 2010 04:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.026**	ug/l	0.26	14.2	450	6	P	
23	**Na**	2	**56.170**	ug/l	561.70	0.5	450000	45	P	
24	**Mg**	2	**244100.000**	ug/l	2,441,000.00	2.2	450000	45	A	
27	**Al**	2	**3728.000**	ug/l	37,280.00	0.7	450000	45	P	
31	**P**	2	**284.900**	ug/l	2,849.00	3.5	450000	45	P	
39	**K**	2	**193.900**	ug/l	1,939.00	2.5	450000	45	P	
44	**Ca**	2	**1246.000**	ug/l	12,460.00	0.7	450000	45	P	
47	**Ti**	2	**36.970**	ug/l	369.70	1.3	4500	45	P	
51	**V**	2	**44.140**	ug/l	441.40	2.0	4500	45	P	
52	**Cr**	2	**1505.000**	ug/l	15,050.00	1.4	4500	45	A	
54	**Fe**	2	**127800.000**	ug/l	1,278,000.00	0.7	450000	74	A	
55	**Mn**	2	**1969.000**	ug/l	19,690.00	0.9	15000	45	A	
59	**Co**	2	**230.400**	ug/l	2,304.00	0.5	4500	45	P	
60	**Ni**	2	**4423.000**	ug/l	44,230.00	1.1	15000	45	A	
63	**Cu**	2	**14.510**	ug/l	145.10	1.5	15000	45	P	
66	**Zn**	2	**72.980**	ug/l	729.80	1.9	15000	45	P	
75	**As**	2	**1.980**	ug/l	19.80	6.8	4500	74	P	
78	**Se**	2	**0.014**	ug/l	0.14	3209.6	4500	74	P	
88	**Sr**	3	**7.712**	ug/l	77.12	2.0	4500	74	P	
95	**Mo**	3	**0.347**	ug/l	3.47	13.3	4500	74	P	
107	**Ag**	3	**0.029**	ug/l	0.29	38.4	450	103	P	
111	**Cd**	3	**0.055**	ug/l	0.55	62.9	900	103	P	
118	**Sn**	3	**0.210**	ug/l	2.10	3.6	4500	103	P	
121	**Sb**	3	**0.124**	ug/l	1.24	13.7	4500	103	P	
135	**Ba**	3	**45.040**	ug/l	450.40	2.0	4500	103	P	
200	**Hg**	3	**142.600**	ug/l	1,426.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.185**	ug/l	1.85	5.2	4500	209	P	
208	**Pb**	3	**13.640**	ug/l	136.40	0.9	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3033401	0.38	5119000	**59.3**	30	-	120	
45	Sc	1	161900	3.01	341400	**47.4**	30	-	120	
45	Sc	2	224571	1.54	273900	**82.0**	30	-	120	
74	Ge	1	121423	2.77	283600	**42.8**	30	-	120	
74	Ge	2	330868	0.78	422600	**78.3**	30	-	120	
74	Ge	3	1339207	1.90	1674000	**80.0**	30	-	120	
103	Rh	2	620570	1.81	814900	**76.2**	30	-	120	
103	Rh	3	1218450	1.40	1535000	**79.4**	30	-	120	
165	Ho	3	2838514	0.95	3236000	**87.7**	30	-	120	
175	Lu	3	3182626	0.56	3584000	**88.8**	30	-	120	
209	Bi	3	6206236	0.79	7619000	**81.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\138SMPL.D\138SMPL.D#
Date Acquired: May 28 2010 04:36 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.561**	ug/l	5.61	1.4	450	6	P	
23	**Na**	2	**203.500**	ug/l	2,035.00	1.9	450000	45	P	
24	**Mg**	2	**27240.000**	ug/l	272,400.00	0.6	450000	45	A	
27	**Al**	2	**18470.000**	ug/l	184,700.00	0.6	450000	45	A	
31	**P**	2	**608.200**	ug/l	6,082.00	3.3	450000	45	P	
39	**K**	2	**1922.000**	ug/l	19,220.00	1.2	450000	45	P	
44	**Ca**	2	**6406.000**	ug/l	64,060.00	1.0	450000	45	P	
47	**Ti**	2	**332.500**	ug/l	3,325.00	0.3	4500	45	P	
51	**V**	2	**46.010**	ug/l	460.10	1.7	4500	45	P	
52	**Cr**	2	**249.400**	ug/l	2,494.00	1.1	4500	45	P	
54	**Fe**	2	**38770.000**	ug/l	387,700.00	0.4	450000	74	A	
55	**Mn**	2	**689.100**	ug/l	6,891.00	1.1	15000	45	A	
59	**Co**	2	**38.440**	ug/l	384.40	0.7	4500	45	P	
60	**Ni**	2	**538.600**	ug/l	5,386.00	0.3	15000	45	P	
63	**Cu**	2	**24.680**	ug/l	246.80	2.2	15000	45	P	
66	**Zn**	2	**74.920**	ug/l	749.20	1.7	15000	45	P	
75	**As**	2	**8.622**	ug/l	86.22	1.8	4500	74	P	
78	**Se**	2	**0.449**	ug/l	4.49	95.1	4500	74	P	
88	**Sr**	3	**52.640**	ug/l	526.40	1.2	4500	74	P	
95	**Mo**	3	**0.834**	ug/l	8.34	11.3	4500	74	P	
107	**Ag**	3	**0.071**	ug/l	0.71	13.4	450	103	P	
111	**Cd**	3	**0.352**	ug/l	3.52	5.4	900	103	P	
118	**Sn**	3	**2.956**	ug/l	29.56	2.8	4500	103	P	
121	**Sb**	3	**0.588**	ug/l	5.88	1.4	4500	103	P	
135	**Ba**	3	**242.800**	ug/l	2,428.00	2.2	4500	103	P	
200	**Hg**	3	**485.000**	ug/l	4,850.00	0.8	45	209	P	Fail
205	**Tl**	3	**0.238**	ug/l	2.38	2.3	4500	209	P	
208	**Pb**	3	**148.000**	ug/l	1,480.00	1.2	4500	209	A	
238	**U**	3	**0.708**	ug/l	7.08	4.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3499672	1.60	5119000	**68.4**	30	-	120	
45	Sc	1	160951	0.76	341400	**47.1**	30	-	120	
45	Sc	2	218466	0.13	273900	**79.8**	30	-	120	
74	Ge	1	129709	1.40	283600	**45.7**	30	-	120	
74	Ge	2	344022	0.46	422600	**81.4**	30	-	120	
74	Ge	3	1406930	1.36	1674000	**84.0**	30	-	120	
103	Rh	2	655492	0.82	814900	**80.4**	30	-	120	
103	Rh	3	1276763	1.04	1535000	**83.2**	30	-	120	
165	Ho	3	2926571	0.52	3236000	**90.4**	30	-	120	
175	Lu	3	3260625	0.76	3584000	**91.0**	30	-	120	
209	Bi	3	6726614	0.46	7619000	**88.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\139SMPL.D\139SMPL.D#
Date Acquired: May 28 2010 04:43 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.5	450	6	P	
23	**Na**	2	**31.750**	ug/l	317.50	20.4	450000	45	P	
24	**Mg**	2	**880.100**	ug/l	8,801.00	1.9	450000	45	P	
27	**Al**	2	**165.300**	ug/l	1,653.00	14.7	450000	45	P	
31	**P**	2	**9.406**	ug/l	94.06	44.7	450000	45	P	
39	**K**	2	**195.300**	ug/l	1,953.00	20.2	450000	45	P	
44	**Ca**	2	**139.800**	ug/l	1,398.00	5.8	450000	45	P	
47	**Ti**	2	**13.000**	ug/l	130.00	25.2	4500	45	P	
51	**V**	2	**0.042**	ug/l	0.42	148.4	4500	45	P	
52	**Cr**	2	**2.283**	ug/l	22.83	6.6	4500	45	P	
54	**Fe**	2	**326.400**	ug/l	3,264.00	3.4	450000	74	P	
55	**Mn**	2	**9.113**	ug/l	91.13	3.0	15000	45	P	
59	**Co**	2	**1.014**	ug/l	10.14	0.2	4500	45	P	
60	**Ni**	2	**11.390**	ug/l	113.90	11.2	15000	45	P	
63	**Cu**	2	**1.962**	ug/l	19.62	2.3	15000	45	P	
66	**Zn**	2	**0.622**	ug/l	6.22	12.0	15000	45	P	
75	**As**	2	**0.137**	ug/l	1.37	19.7	4500	74	P	
78	**Se**	2	**-0.217**	ug/l	-2.17	122.5	4500	74	P	
88	**Sr**	3	**1.179**	ug/l	11.79	3.5	4500	74	P	
95	**Mo**	3	**0.068**	ug/l	0.68	57.4	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	-0.03	24.2	450	103	P	
111	**Cd**	3	**-0.007**	ug/l	-0.07	121.3	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.29	40.8	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.13	67.7	4500	103	P	
135	**Ba**	3	**3.362**	ug/l	33.62	5.7	4500	103	P	
200	**Hg**	3	**97.030**	ug/l	970.30	4.6	45	209	P	Fail
205	**Tl**	3	**0.081**	ug/l	0.81	12.7	4500	209	P	
208	**Pb**	3	**9.390**	ug/l	93.90	1.0	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.05	104.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3953365	0.94	5119000	**77.2**	30	-	120	
45	Sc	1	166251	1.48	341400	**48.7**	30	-	120	
45	Sc	2	215942	2.10	273900	**78.8**	30	-	120	
74	Ge	1	138752	2.19	283600	**48.9**	30	-	120	
74	Ge	2	353750	1.22	422600	**83.7**	30	-	120	
74	Ge	3	1403868	1.70	1674000	**83.9**	30	-	120	
103	Rh	2	690236	1.06	814900	**84.7**	30	-	120	
103	Rh	3	1313554	1.01	1535000	**85.6**	30	-	120	
165	Ho	3	2902084	1.41	3236000	**89.7**	30	-	120	
175	Lu	3	3284780	0.18	3584000	**91.7**	30	-	120	
209	Bi	3	6897725	0.97	7619000	**90.5**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\140SMPL.D\140SMPL.D#
Date Acquired: May 28 2010 04:50 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.890**	ug/l	50.89	1.4	450	6	P	
23	**Na**	2	**5007.000**	ug/l	5,007.00	0.6	450000	45	A	
24	**Mg**	2	**5096.000**	ug/l	5,096.00	0.9	450000	45	A	
27	**Al**	2	**492.800**	ug/l	492.80	1.0	450000	45	P	
31	**P**	2	**4865.000**	ug/l	4,865.00	0.3	450000	45	P	
39	**K**	2	**5159.000**	ug/l	5,159.00	1.9	450000	45	A	
44	**Ca**	2	**5208.000**	ug/l	5,208.00	1.8	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	2.4	4500	45	P	
51	**V**	2	**52.470**	ug/l	52.47	0.8	4500	45	P	
52	**Cr**	2	**52.590**	ug/l	52.59	1.2	4500	45	P	
54	**Fe**	2	**5172.000**	ug/l	5,172.00	1.6	450000	74	P	
55	**Mn**	2	**53.220**	ug/l	53.22	0.6	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**54.760**	ug/l	54.76	0.8	15000	45	P	
63	**Cu**	2	**53.830**	ug/l	53.83	1.6	15000	45	P	
66	**Zn**	2	**52.910**	ug/l	52.91	1.7	15000	45	P	
75	**As**	2	**51.860**	ug/l	51.86	1.6	4500	74	P	
78	**Se**	2	**49.680**	ug/l	49.68	3.6	4500	74	P	
88	**Sr**	3	**53.360**	ug/l	53.36	1.9	4500	74	P	
95	**Mo**	3	**53.420**	ug/l	53.42	2.5	4500	74	P	
107	**Ag**	3	**52.520**	ug/l	52.52	1.8	450	103	P	
111	**Cd**	3	**52.320**	ug/l	52.32	3.0	900	103	P	
118	**Sn**	3	**52.640**	ug/l	52.64	3.3	4500	103	P	
121	**Sb**	3	**53.140**	ug/l	53.14	3.8	4500	103	P	
135	**Ba**	3	**54.520**	ug/l	54.52	3.8	4500	103	P	
200	**Hg**	3	**26.470**	ug/l	26.47	1.8	45	209	P	
205	**Tl**	3	**51.890**	ug/l	51.89	2.1	4500	209	P	
208	**Pb**	3	**52.910**	ug/l	52.91	1.4	4500	209	P	
238	**U**	3	**52.120**	ug/l	52.12	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3881033	0.39	5119000	**75.8**	30	-	120	
45	Sc	1	167636	1.32	341400	**49.1**	30	-	120	
45	Sc	2	218500	0.63	273900	**79.8**	30	-	120	
74	Ge	1	144346	1.70	283600	**50.9**	30	-	120	
74	Ge	2	354020	1.00	422600	**83.8**	30	-	120	
74	Ge	3	1442473	0.69	1674000	**86.2**	30	-	120	
103	Rh	2	686176	0.59	814900	**84.2**	30	-	120	
103	Rh	3	1309092	2.16	1535000	**85.3**	30	-	120	
165	Ho	3	2947787	1.46	3236000	**91.1**	30	-	120	
175	Lu	3	3293928	1.26	3584000	**91.9**	30	-	120	
209	Bi	3	6841933	0.91	7619000	**89.8**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\141SMPL.D\141SMPL.D#
Date Acquired: May 28 2010 04:58 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	19.8	450	6	P	
23	**Na**	2	**3.761**	ug/l	3.76	18.7	450000	45	P	
24	**Mg**	2	**3.477**	ug/l	3.48	8.2	450000	45	P	
27	**Al**	2	**0.801**	ug/l	0.80	16.1	450000	45	P	
31	**P**	2	**-7.462**	ug/l	-7.46	70.5	450000	45	P	
39	**K**	2	**5.011**	ug/l	5.01	88.3	450000	45	P	
44	**Ca**	2	**2.638**	ug/l	2.64	64.8	450000	45	P	
47	**Ti**	2	**0.027**	ug/l	0.03	96.4	4500	45	P	
51	**V**	2	**-0.070**	ug/l	-0.07	71.9	4500	45	P	
52	**Cr**	2	**0.026**	ug/l	0.03	36.3	4500	45	P	
54	**Fe**	2	**2.356**	ug/l	2.36	10.8	450000	74	P	
55	**Mn**	2	**0.148**	ug/l	0.15	12.2	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	13.0	4500	45	P	
60	**Ni**	2	**0.103**	ug/l	0.10	12.4	15000	45	P	
63	**Cu**	2	**0.029**	ug/l	0.03	42.1	15000	45	P	
66	**Zn**	2	**0.068**	ug/l	0.07	80.3	15000	45	P	
75	**As**	2	**-0.051**	ug/l	-0.05	55.4	4500	74	P	
78	**Se**	2	**0.038**	ug/l	0.04	692.3	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	30.4	4500	74	P	
95	**Mo**	3	**0.009**	ug/l	0.01	227.6	4500	74	P	
107	**Ag**	3	**0.016**	ug/l	0.02	88.2	450	103	P	
111	**Cd**	3	**0.016**	ug/l	0.02	15.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	37.6	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	49.5	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	56.7	4500	103	P	
200	**Hg**	3	**22.730**	ug/l	22.73	15.5	45	209	P	
205	**Tl**	3	**0.425**	ug/l	0.42	12.1	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	22.1	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3534278	10.97	5119000	**69.0**	30	-	120	
45	Sc	1	175653	2.23	341400	**51.5**	30	-	120	
45	Sc	2	216115	1.18	273900	**78.9**	30	-	120	
74	Ge	1	150205	1.69	283600	**53.0**	30	-	120	
74	Ge	2	361146	0.74	422600	**85.5**	30	-	120	
74	Ge	3	1360483	12.25	1674000	**81.3**	30	-	120	
103	Rh	2	707518	1.61	814900	**86.8**	30	-	120	
103	Rh	3	1300234	12.92	1535000	**84.7**	30	-	120	
165	Ho	3	2848839	16.82	3236000	**88.0**	30	-	120	
175	Lu	3	3167322	15.73	3584000	**88.4**	30	-	120	
209	Bi	3	6833408	13.16	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\142SMPL.D\142SMPL.D#
Date Acquired: May 28 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	28.9	450	6	P	
23	**Na**	2	**37.900**	ug/l	379.00	9.9	450000	45	P	
24	**Mg**	2	**602.700**	ug/l	6,027.00	0.7	450000	45	P	
27	**Al**	2	**33.800**	ug/l	338.00	10.8	450000	45	P	
31	**P**	2	**49.590**	ug/l	495.90	12.2	450000	45	P	
39	**K**	2	**233.100**	ug/l	2,331.00	2.6	450000	45	P	
44	**Ca**	2	**618.400**	ug/l	6,184.00	2.5	450000	45	P	
47	**Ti**	2	**0.794**	ug/l	7.94	22.6	4500	45	P	
51	**V**	2	**-0.129**	ug/l	-1.29	23.4	4500	45	P	
52	**Cr**	2	**1.521**	ug/l	15.21	11.2	4500	45	P	
54	**Fe**	2	**145.400**	ug/l	1,454.00	13.0	450000	74	P	
55	**Mn**	2	**14.300**	ug/l	143.00	2.1	15000	45	P	
59	**Co**	2	**0.859**	ug/l	8.59	5.1	4500	45	P	
60	**Ni**	2	**9.652**	ug/l	96.52	4.4	15000	45	P	
63	**Cu**	2	**0.414**	ug/l	4.14	22.7	15000	45	P	
66	**Zn**	2	**0.730**	ug/l	7.30	10.1	15000	45	P	
75	**As**	2	**-0.049**	ug/l	-0.49	14.9	4500	74	P	
78	**Se**	2	**-0.576**	ug/l	-5.76	27.1	4500	74	P	
88	**Sr**	3	**4.189**	ug/l	41.89	1.9	4500	74	P	
95	**Mo**	3	**0.057**	ug/l	0.57	26.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	191.2	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	247.1	900	103	P	
118	**Sn**	3	**0.011**	ug/l	0.11	35.9	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.17	9.1	4500	103	P	
135	**Ba**	3	**4.995**	ug/l	49.95	1.0	4500	103	P	
200	**Hg**	3	**40.310**	ug/l	403.10	3.3	45	209	P	
205	**Tl**	3	**0.182**	ug/l	1.82	3.2	4500	209	P	
208	**Pb**	3	**6.927**	ug/l	69.27	6.5	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	50.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3875210	0.23	5119000	**75.7**	30	-	120	
45	Sc	1	178167	0.57	341400	**52.2**	30	-	120	
45	Sc	2	216335	1.64	273900	**79.0**	30	-	120	
74	Ge	1	153056	0.41	283600	**54.0**	30	-	120	
74	Ge	2	355049	0.49	422600	**84.0**	30	-	120	
74	Ge	3	1428831	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	695164	1.48	814900	**85.3**	30	-	120	
103	Rh	3	1345769	1.46	1535000	**87.7**	30	-	120	
165	Ho	3	2926203	0.61	3236000	**90.4**	30	-	120	
175	Lu	3	3235414	0.39	3584000	**90.3**	30	-	120	
209	Bi	3	6997524	0.52	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\143SMPL.D\143SMPL.D#
Date Acquired: May 28 2010 05:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.0	450	6	P	
23	**Na**	2	**19.940**	ug/l	199.40	12.7	450000	45	P	
24	**Mg**	2	**362.400**	ug/l	3,624.00	5.0	450000	45	P	
27	**Al**	2	**124.800**	ug/l	1,248.00	8.9	450000	45	P	
31	**P**	2	**57.810**	ug/l	578.10	23.1	450000	45	P	
39	**K**	2	**351.500**	ug/l	3,515.00	4.0	450000	45	P	
44	**Ca**	2	**286.800**	ug/l	2,868.00	3.4	450000	45	P	
47	**Ti**	2	**3.916**	ug/l	39.16	9.8	4500	45	P	
51	**V**	2	**0.196**	ug/l	1.96	23.6	4500	45	P	
52	**Cr**	2	**1.049**	ug/l	10.49	14.7	4500	45	P	
54	**Fe**	2	**156.600**	ug/l	1,566.00	22.7	450000	74	P	
55	**Mn**	2	**68.970**	ug/l	689.70	1.8	15000	45	P	
59	**Co**	2	**0.634**	ug/l	6.34	3.7	4500	45	P	
60	**Ni**	2	**5.777**	ug/l	57.77	4.1	15000	45	P	
63	**Cu**	2	**4.460**	ug/l	44.60	2.7	15000	45	P	
66	**Zn**	2	**5.961**	ug/l	59.61	8.5	15000	45	P	
75	**As**	2	**0.058**	ug/l	0.58	34.1	4500	74	P	
78	**Se**	2	**-0.050**	ug/l	-0.50	1331.4	4500	74	P	
88	**Sr**	3	**2.408**	ug/l	24.08	0.9	4500	74	P	
95	**Mo**	3	**0.138**	ug/l	1.38	9.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	90.7	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	40.3	900	103	P	
118	**Sn**	3	**0.003**	ug/l	0.03	102.3	4500	103	P	
121	**Sb**	3	**0.201**	ug/l	2.01	3.2	4500	103	P	
135	**Ba**	3	**26.170**	ug/l	261.70	1.2	4500	103	P	
200	**Hg**	3	**37.200**	ug/l	372.00	0.7	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	2.8	4500	209	P	
208	**Pb**	3	**2.569**	ug/l	25.69	2.9	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	84.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3976026	0.41	5119000	**77.7**	30	-	120	
45	Sc	1	177321	1.54	341400	**51.9**	30	-	120	
45	Sc	2	219601	1.19	273900	**80.2**	30	-	120	
74	Ge	1	154339	0.30	283600	**54.4**	30	-	120	
74	Ge	2	361727	0.47	422600	**85.6**	30	-	120	
74	Ge	3	1435482	1.09	1674000	**85.8**	30	-	120	
103	Rh	2	702470	1.18	814900	**86.2**	30	-	120	
103	Rh	3	1339855	0.83	1535000	**87.3**	30	-	120	
165	Ho	3	2933177	1.12	3236000	**90.6**	30	-	120	
175	Lu	3	3256314	1.57	3584000	**90.9**	30	-	120	
209	Bi	3	7012506	0.61	7619000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\144SMPL.D\144SMPL.D#
Date Acquired: May 28 2010 05:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.09	44.6	450	6	P	
23	**Na**	2	**40.380**	ug/l	403.80	58.5	450000	45	P	
24	**Mg**	2	**299.200**	ug/l	2,992.00	3.4	450000	45	P	
27	**Al**	2	**392.100**	ug/l	3,921.00	6.7	450000	45	P	
31	**P**	2	**2.976**	ug/l	29.76	164.2	450000	45	P	
39	**K**	2	**241.300**	ug/l	2,413.00	10.9	450000	45	P	
44	**Ca**	2	**113.400**	ug/l	1,134.00	8.6	450000	45	P	
47	**Ti**	2	**14.850**	ug/l	148.50	4.8	4500	45	P	
51	**V**	2	**0.821**	ug/l	8.21	19.4	4500	45	P	
52	**Cr**	2	**1.010**	ug/l	10.10	5.2	4500	45	P	
54	**Fe**	2	**352.300**	ug/l	3,523.00	7.3	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	209.30	3.6	15000	45	P	
59	**Co**	2	**0.564**	ug/l	5.64	4.9	4500	45	P	
60	**Ni**	2	**4.299**	ug/l	42.99	16.2	15000	45	P	
63	**Cu**	2	**2.684**	ug/l	26.84	3.8	15000	45	P	
66	**Zn**	2	**3.765**	ug/l	37.65	10.1	15000	45	P	
75	**As**	2	**0.008**	ug/l	0.08	464.1	4500	74	P	
78	**Se**	2	**-0.491**	ug/l	-4.91	54.2	4500	74	P	
88	**Sr**	3	**0.927**	ug/l	9.27	2.2	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.53	38.8	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	1214.5	450	103	P	
111	**Cd**	3	**-0.008**	ug/l	-0.08	79.7	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	46.8	4500	103	P	
121	**Sb**	3	**0.162**	ug/l	1.62	5.9	4500	103	P	
135	**Ba**	3	**13.450**	ug/l	134.50	0.5	4500	103	P	
200	**Hg**	3	**33.210**	ug/l	332.10	1.7	45	209	P	
205	**Tl**	3	**0.085**	ug/l	0.85	6.0	4500	209	P	
208	**Pb**	3	**1.695**	ug/l	16.95	1.5	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.10	43.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4045132	1.60	5119000	**79.0**	30	-	120	
45	Sc	1	175726	0.62	341400	**51.5**	30	-	120	
45	Sc	2	217755	0.43	273900	**79.5**	30	-	120	
74	Ge	1	150753	1.60	283600	**53.2**	30	-	120	
74	Ge	2	360950	1.04	422600	**85.4**	30	-	120	
74	Ge	3	1428943	1.34	1674000	**85.4**	30	-	120	
103	Rh	2	701368	0.65	814900	**86.1**	30	-	120	
103	Rh	3	1344103	0.51	1535000	**87.6**	30	-	120	
165	Ho	3	2901961	0.43	3236000	**89.7**	30	-	120	
175	Lu	3	3252601	1.69	3584000	**90.8**	30	-	120	
209	Bi	3	6905220	0.97	7619000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\145SMPL.D\145SMPL.D#
Date Acquired: May 28 2010 05:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.091**	ug/l	10.91	1.6	450	6	P	
23	**Na**	2	**52.770**	ug/l	527.70	5.9	450000	45	P	
24	**Mg**	2	**37010.000**	ug/l	370,100.00	1.3	450000	45	A	
27	**Al**	2	**22420.000**	ug/l	224,200.00	0.6	450000	45	A	
31	**P**	2	**478.600**	ug/l	4,786.00	1.5	450000	45	P	
39	**K**	2	**2478.000**	ug/l	24,780.00	0.9	450000	45	P	
44	**Ca**	2	**2287.000**	ug/l	22,870.00	1.3	450000	45	P	
47	**Ti**	2	**96.820**	ug/l	968.20	6.2	4500	45	P	
51	**V**	2	**93.490**	ug/l	934.90	1.1	4500	45	P	
52	**Cr**	2	**654.900**	ug/l	6,549.00	0.2	4500	45	A	
54	**Fe**	2	**100000.000**	ug/l	1,000,000.00	1.4	450000	74	A	
55	**Mn**	2	**1982.000**	ug/l	19,820.00	0.2	15000	45	A	
59	**Co**	2	**166.300**	ug/l	1,663.00	0.8	4500	45	P	
60	**Ni**	2	**2255.000**	ug/l	22,550.00	1.2	15000	45	A	
63	**Cu**	2	**60.570**	ug/l	605.70	1.3	15000	45	P	
66	**Zn**	2	**118.800**	ug/l	1,188.00	2.0	15000	45	P	
75	**As**	2	**17.740**	ug/l	177.40	2.3	4500	74	P	
78	**Se**	2	**1.283**	ug/l	12.83	99.7	4500	74	P	
88	**Sr**	3	**27.230**	ug/l	272.30	0.5	4500	74	P	
95	**Mo**	3	**1.052**	ug/l	10.52	1.9	4500	74	P	
107	**Ag**	3	**0.123**	ug/l	1.23	3.5	450	103	P	
111	**Cd**	3	**0.309**	ug/l	3.09	15.4	900	103	P	
118	**Sn**	3	**0.989**	ug/l	9.89	5.6	4500	103	P	
121	**Sb**	3	**0.693**	ug/l	6.93	2.6	4500	103	P	
135	**Ba**	3	**432.100**	ug/l	4,321.00	1.3	4500	103	P	
200	**Hg**	3	**740.300**	ug/l	7,403.00	1.9	45	209	A	Fail
205	**Tl**	3	**0.221**	ug/l	2.21	5.7	4500	209	P	
208	**Pb**	3	**59.000**	ug/l	590.00	1.1	4500	209	P	
238	**U**	3	**0.412**	ug/l	4.12	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3359509	0.93	5119000	**65.6**	30	-	120	
45	Sc	1	175768	1.14	341400	**51.5**	30	-	120	
45	Sc	2	233193	0.42	273900	**85.1**	30	-	120	
74	Ge	1	133144	0.99	283600	**46.9**	30	-	120	
74	Ge	2	345791	1.39	422600	**81.8**	30	-	120	
74	Ge	3	1420507	0.64	1674000	**84.9**	30	-	120	
103	Rh	2	658467	0.94	814900	**80.8**	30	-	120	
103	Rh	3	1285861	1.32	1535000	**83.8**	30	-	120	
165	Ho	3	2956923	1.18	3236000	**91.4**	30	-	120	
175	Lu	3	3316005	1.87	3584000	**92.5**	30	-	120	
209	Bi	3	6648849	0.63	7619000	**87.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\146SMPL.D\146SMPL.D#
Date Acquired: May 28 2010 05:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.684**	ug/l	6.84	5.5	450	6	P	
23	**Na**	2	**173.400**	ug/l	1,734.00	1.6	450000	45	P	
24	**Mg**	2	**29170.000**	ug/l	291,700.00	2.3	450000	45	A	
27	**Al**	2	**20940.000**	ug/l	209,400.00	1.4	450000	45	A	
31	**P**	2	**420.100**	ug/l	4,201.00	5.6	450000	45	P	
39	**K**	2	**1982.000**	ug/l	19,820.00	1.3	450000	45	P	
44	**Ca**	2	**1415.000**	ug/l	14,150.00	1.1	450000	45	P	
47	**Ti**	2	**163.900**	ug/l	1,639.00	0.9	4500	45	P	
51	**V**	2	**75.510**	ug/l	755.10	0.9	4500	45	P	
52	**Cr**	2	**829.300**	ug/l	8,293.00	0.9	4500	45	A	
54	**Fe**	2	**114900.000**	ug/l	1,149,000.00	1.7	450000	74	A	
55	**Mn**	2	**1801.000**	ug/l	18,010.00	1.5	15000	45	A	
59	**Co**	2	**227.300**	ug/l	2,273.00	1.2	4500	45	P	
60	**Ni**	2	**3506.000**	ug/l	35,060.00	1.7	15000	45	A	
63	**Cu**	2	**28.410**	ug/l	284.10	2.0	15000	45	P	
66	**Zn**	2	**82.400**	ug/l	824.00	1.1	15000	45	P	
75	**As**	2	**9.582**	ug/l	95.82	2.5	4500	74	P	
78	**Se**	2	**1.038**	ug/l	10.38	109.4	4500	74	P	
88	**Sr**	3	**25.310**	ug/l	253.10	2.2	4500	74	P	
95	**Mo**	3	**0.393**	ug/l	3.93	4.9	4500	74	P	
107	**Ag**	3	**0.063**	ug/l	0.63	5.1	450	103	P	
111	**Cd**	3	**0.172**	ug/l	1.72	15.5	900	103	P	
118	**Sn**	3	**0.725**	ug/l	7.25	6.3	4500	103	P	
121	**Sb**	3	**0.462**	ug/l	4.62	6.9	4500	103	P	
135	**Ba**	3	**218.800**	ug/l	2,188.00	1.3	4500	103	P	
200	**Hg**	3	**331.200**	ug/l	3,312.00	1.7	45	209	P	Fail
205	**Tl**	3	**0.366**	ug/l	3.66	2.3	4500	209	P	
208	**Pb**	3	**8.830**	ug/l	88.30	1.4	4500	209	P	
238	**U**	3	**0.316**	ug/l	3.16	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3311150	2.13	5119000	**64.7**	30	-	120	
45	Sc	1	161409	1.07	341400	**47.3**	30	-	120	
45	Sc	2	226961	1.31	273900	**82.9**	30	-	120	
74	Ge	1	123144	0.33	283600	**43.4**	30	-	120	
74	Ge	2	336605	0.78	422600	**79.7**	30	-	120	
74	Ge	3	1374625	1.45	1674000	**82.1**	30	-	120	
103	Rh	2	642330	1.82	814900	**78.8**	30	-	120	
103	Rh	3	1258387	1.71	1535000	**82.0**	30	-	120	
165	Ho	3	2881165	1.32	3236000	**89.0**	30	-	120	
175	Lu	3	3224721	0.76	3584000	**90.0**	30	-	120	
209	Bi	3	6563939	0.88	7619000	**86.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\147SMPL.D\147SMPL.D#
Date Acquired: May 28 2010 05:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.248**	ug/l	12.48	3.9	450	6	P	
23	**Na**	2	**106.600**	ug/l	1,066.00	3.1	450000	45	P	
24	**Mg**	2	**25090.000**	ug/l	250,900.00	1.6	450000	45	A	
27	**Al**	2	**31840.000**	ug/l	318,400.00	0.8	450000	45	A	
31	**P**	2	**912.600**	ug/l	9,126.00	2.0	450000	45	P	
39	**K**	2	**3435.000**	ug/l	34,350.00	1.5	450000	45	A	
44	**Ca**	2	**4413.000**	ug/l	44,130.00	1.5	450000	45	P	
47	**Ti**	2	**101.500**	ug/l	1,015.00	6.7	4500	45	P	
51	**V**	2	**105.900**	ug/l	1,059.00	1.4	4500	45	P	
52	**Cr**	2	**236.000**	ug/l	2,360.00	0.6	4500	45	P	
54	**Fe**	2	**81200.000**	ug/l	812,000.00	0.8	450000	74	A	
55	**Mn**	2	**1202.000**	ug/l	12,020.00	0.7	15000	45	A	
59	**Co**	2	**53.920**	ug/l	539.20	0.5	4500	45	P	
60	**Ni**	2	**602.800**	ug/l	6,028.00	1.5	15000	45	P	
63	**Cu**	2	**83.950**	ug/l	839.50	0.4	15000	45	P	
66	**Zn**	2	**197.700**	ug/l	1,977.00	1.0	15000	45	P	
75	**As**	2	**26.560**	ug/l	265.60	0.8	4500	74	P	
78	**Se**	2	**1.115**	ug/l	11.15	104.7	4500	74	P	
88	**Sr**	3	**43.650**	ug/l	436.50	0.8	4500	74	P	
95	**Mo**	3	**1.497**	ug/l	14.97	7.4	4500	74	P	
107	**Ag**	3	**0.169**	ug/l	1.69	6.5	450	103	P	
111	**Cd**	3	**0.402**	ug/l	4.02	4.0	900	103	P	
118	**Sn**	3	**1.417**	ug/l	14.17	5.0	4500	103	P	
121	**Sb**	3	**0.835**	ug/l	8.35	1.8	4500	103	P	
135	**Ba**	3	**368.100**	ug/l	3,681.00	2.1	4500	103	P	
200	**Hg**	3	**26.520**	ug/l	265.20	2.0	45	209	P	
205	**Tl**	3	**0.242**	ug/l	2.42	4.4	4500	209	P	
208	**Pb**	3	**38.590**	ug/l	385.90	1.4	4500	209	P	
238	**U**	3	**0.345**	ug/l	3.45	4.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3443393	0.93	5119000	**67.3**	30	-	120	
45	Sc	1	159465	0.63	341400	**46.7**	30	-	120	
45	Sc	2	229363	0.47	273900	**83.7**	30	-	120	
74	Ge	1	123675	1.29	283600	**43.6**	30	-	120	
74	Ge	2	340474	0.17	422600	**80.6**	30	-	120	
74	Ge	3	1447647	1.33	1674000	**86.5**	30	-	120	
103	Rh	2	654948	0.36	814900	**80.4**	30	-	120	
103	Rh	3	1319994	2.48	1535000	**86.0**	30	-	120	
165	Ho	3	2992013	0.70	3236000	**92.5**	30	-	120	
175	Lu	3	3315686	0.29	3584000	**92.5**	30	-	120	
209	Bi	3	6707693	1.46	7619000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\148SMPL.D\148SMPL.D#
Date Acquired: May 28 2010 05:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.600**	ug/l	51.60	0.5	450	6	P	
23	**Na**	2	**5077.000**	ug/l	5,077.00	0.7	450000	45	A	
24	**Mg**	2	**5121.000**	ug/l	5,121.00	1.7	450000	45	A	
27	**Al**	2	**505.200**	ug/l	505.20	1.5	450000	45	P	
31	**P**	2	**4848.000**	ug/l	4,848.00	0.8	450000	45	P	
39	**K**	2	**5199.000**	ug/l	5,199.00	1.6	450000	45	A	
44	**Ca**	2	**5154.000**	ug/l	5,154.00	2.4	450000	45	P	
47	**Ti**	2	**52.250**	ug/l	52.25	1.5	4500	45	P	
51	**V**	2	**53.050**	ug/l	53.05	1.9	4500	45	P	
52	**Cr**	2	**53.440**	ug/l	53.44	2.4	4500	45	P	
54	**Fe**	2	**5156.000**	ug/l	5,156.00	0.9	450000	74	P	
55	**Mn**	2	**54.350**	ug/l	54.35	1.5	15000	45	P	
59	**Co**	2	**53.990**	ug/l	53.99	1.1	4500	45	P	
60	**Ni**	2	**54.160**	ug/l	54.16	1.0	15000	45	P	
63	**Cu**	2	**54.140**	ug/l	54.14	1.1	15000	45	P	
66	**Zn**	2	**54.620**	ug/l	54.62	2.5	15000	45	P	
75	**As**	2	**51.290**	ug/l	51.29	1.1	4500	74	P	
78	**Se**	2	**57.380**	ug/l	57.38	3.3	4500	74	P	
88	**Sr**	3	**53.940**	ug/l	53.94	0.7	4500	74	P	
95	**Mo**	3	**53.410**	ug/l	53.41	1.9	4500	74	P	
107	**Ag**	3	**52.390**	ug/l	52.39	1.2	450	103	P	
111	**Cd**	3	**52.020**	ug/l	52.02	0.9	900	103	P	
118	**Sn**	3	**52.630**	ug/l	52.63	0.8	4500	103	P	
121	**Sb**	3	**52.930**	ug/l	52.93	1.7	4500	103	P	
135	**Ba**	3	**54.140**	ug/l	54.14	2.2	4500	103	P	
200	**Hg**	3	**16.850**	ug/l	16.85	3.1	45	209	P	
205	**Tl**	3	**51.610**	ug/l	51.61	1.3	4500	209	P	
208	**Pb**	3	**52.820**	ug/l	52.82	0.5	4500	209	P	
238	**U**	3	**52.270**	ug/l	52.27	0.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719096	0.87	5119000	**72.7**	30	-	120	
45	Sc	1	160483	2.50	341400	**47.0**	30	-	120	
45	Sc	2	210976	1.57	273900	**77.0**	30	-	120	
74	Ge	1	136692	1.49	283600	**48.2**	30	-	120	
74	Ge	2	346554	1.09	422600	**82.0**	30	-	120	
74	Ge	3	1412082	0.38	1674000	**84.4**	30	-	120	
103	Rh	2	668951	1.20	814900	**82.1**	30	-	120	
103	Rh	3	1306337	1.06	1535000	**85.1**	30	-	120	
165	Ho	3	2903618	0.64	3236000	**89.7**	30	-	120	
175	Lu	3	3238059	0.55	3584000	**90.3**	30	-	120	
209	Bi	3	6810454	0.59	7619000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\149SMPL.D\149SMPL.D#
Date Acquired: May 28 2010 05:55 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	33.8	450	6	P	
23	**Na**	2	**3.691**	ug/l	3.69	37.1	450000	45	P	
24	**Mg**	2	**4.288**	ug/l	4.29	3.8	450000	45	P	
27	**Al**	2	**2.019**	ug/l	2.02	8.1	450000	45	P	
31	**P**	2	**-5.146**	ug/l	-5.15	54.5	450000	45	P	
39	**K**	2	**1.772**	ug/l	1.77	267.9	450000	45	P	
44	**Ca**	2	**2.875**	ug/l	2.88	22.6	450000	45	P	
47	**Ti**	2	**0.051**	ug/l	0.05	41.1	4500	45	P	
51	**V**	2	**-0.109**	ug/l	-0.11	33.6	4500	45	P	
52	**Cr**	2	**0.032**	ug/l	0.03	47.0	4500	45	P	
54	**Fe**	2	**5.127**	ug/l	5.13	24.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	8.3	15000	45	P	
59	**Co**	2	**0.026**	ug/l	0.03	28.3	4500	45	P	
60	**Ni**	2	**0.108**	ug/l	0.11	11.5	15000	45	P	
63	**Cu**	2	**0.016**	ug/l	0.02	83.2	15000	45	P	
66	**Zn**	2	**0.119**	ug/l	0.12	81.3	15000	45	P	
75	**As**	2	**-0.036**	ug/l	-0.04	64.6	4500	74	P	
78	**Se**	2	**-0.219**	ug/l	-0.22	123.1	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	2.7	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	551.1	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.01	37.9	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	102.5	900	103	P	
118	**Sn**	3	**0.043**	ug/l	0.04	42.6	4500	103	P	
121	**Sb**	3	**0.032**	ug/l	0.03	20.2	4500	103	P	
135	**Ba**	3	**0.043**	ug/l	0.04	59.6	4500	103	P	
200	**Hg**	3	**13.700**	ug/l	13.70	0.9	45	209	P	
205	**Tl**	3	**0.396**	ug/l	0.40	10.1	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	6.7	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	23.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3572141	0.95	5119000	**69.8**	30	-	120	
45	Sc	1	157006	2.50	341400	**46.0**	30	-	120	
45	Sc	2	214638	0.66	273900	**78.4**	30	-	120	
74	Ge	1	136408	1.71	283600	**48.1**	30	-	120	
74	Ge	2	356956	0.76	422600	**84.5**	30	-	120	
74	Ge	3	1401227	1.64	1674000	**83.7**	30	-	120	
103	Rh	2	708473	1.00	814900	**86.9**	30	-	120	
103	Rh	3	1332196	1.86	1535000	**86.8**	30	-	120	
165	Ho	3	2925891	0.98	3236000	**90.4**	30	-	120	
175	Lu	3	3272953	1.14	3584000	**91.3**	30	-	120	
209	Bi	3	7052375	0.57	7619000	**92.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\150SMPL.D\150SMPL.D#
Date Acquired: May 28 2010 06:02 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	40.8	450	6	P	
23	**Na**	2	**4.130**	ug/l	41.30	28.3	450000	45	P	
24	**Mg**	2	**1.443**	ug/l	14.43	7.4	450000	45	P	
27	**Al**	2	**0.690**	ug/l	6.90	30.7	450000	45	P	
31	**P**	2	**-8.309**	ug/l	-83.09	11.7	450000	45	P	
39	**K**	2	**0.623**	ug/l	6.23	790.0	450000	45	P	
44	**Ca**	2	**2.009**	ug/l	20.09	77.3	450000	45	P	
47	**Ti**	2	**0.024**	ug/l	0.24	100.8	4500	45	P	
51	**V**	2	**-0.101**	ug/l	-1.01	61.2	4500	45	P	
52	**Cr**	2	**0.010**	ug/l	0.10	424.2	4500	45	P	
54	**Fe**	2	**1.235**	ug/l	12.35	13.0	450000	74	P	
55	**Mn**	2	**0.128**	ug/l	1.28	8.8	15000	45	P	
59	**Co**	2	**0.012**	ug/l	0.12	19.0	4500	45	P	
60	**Ni**	2	**0.095**	ug/l	0.95	25.1	15000	45	P	
63	**Cu**	2	**0.017**	ug/l	0.17	65.3	15000	45	P	
66	**Zn**	2	**0.109**	ug/l	1.09	10.2	15000	45	P	
75	**As**	2	**-0.080**	ug/l	-0.80	16.0	4500	74	P	
78	**Se**	2	**-0.129**	ug/l	-1.29	240.2	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.04	74.2	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	148.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	186.6	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.01	1989.4	900	103	P	
118	**Sn**	3	**0.008**	ug/l	0.08	91.1	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.05	49.5	4500	103	P	
135	**Ba**	3	**0.019**	ug/l	0.19	128.7	4500	103	P	
200	**Hg**	3	**12.750**	ug/l	127.50	0.8	45	209	P	
205	**Tl**	3	**0.158**	ug/l	1.58	3.3	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.07	42.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	210.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3579220	1.07	5119000	**69.9**	30	-	120	
45	Sc	1	156519	1.06	341400	**45.8**	30	-	120	
45	Sc	2	212917	0.47	273900	**77.7**	30	-	120	
74	Ge	1	133590	1.28	283600	**47.1**	30	-	120	
74	Ge	2	356321	0.61	422600	**84.3**	30	-	120	
74	Ge	3	1426168	0.30	1674000	**85.2**	30	-	120	
103	Rh	2	703414	1.47	814900	**86.3**	30	-	120	
103	Rh	3	1336107	0.41	1535000	**87.0**	30	-	120	
165	Ho	3	2933479	0.49	3236000	**90.7**	30	-	120	
175	Lu	3	3267878	1.37	3584000	**91.2**	30	-	120	
209	Bi	3	7070035	0.72	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\151SMPL.D\151SMPL.D#
Date Acquired: May 28 2010 06:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.139**	ug/l	6.97	1.8	450	6	P	
23	**Na**	2	**34.440**	ug/l	1,722.00	9.7	450000	45	P	
24	**Mg**	2	**8171.000**	ug/l	408,550.00	1.1	450000	45	A	
27	**Al**	2	**4949.000**	ug/l	247,450.00	1.2	450000	45	A	
31	**P**	2	**101.300**	ug/l	5,065.00	11.9	450000	45	P	
39	**K**	2	**381.800**	ug/l	19,090.00	2.1	450000	45	P	
44	**Ca**	2	**245.900**	ug/l	12,295.00	1.6	450000	45	P	
47	**Ti**	2	**37.330**	ug/l	1,866.50	8.3	4500	45	P	
51	**V**	2	**15.610**	ug/l	780.50	2.3	4500	45	P	
52	**Cr**	2	**194.600**	ug/l	9,730.00	1.2	4500	45	P	
54	**Fe**	2	**29660.000**	ug/l	1,483,000.00	1.0	450000	74	A	
55	**Mn**	2	**434.500**	ug/l	21,725.00	0.6	15000	45	P	
59	**Co**	2	**56.670**	ug/l	2,833.50	0.8	4500	45	P	
60	**Ni**	2	**1017.000**	ug/l	50,850.00	0.8	15000	45	P	
63	**Cu**	2	**5.726**	ug/l	286.30	4.0	15000	45	P	
66	**Zn**	2	**20.520**	ug/l	1,026.00	1.8	15000	45	P	
75	**As**	2	**2.273**	ug/l	113.65	4.0	4500	74	P	
78	**Se**	2	**-0.315**	ug/l	-15.73	47.6	4500	74	P	
88	**Sr**	3	**5.532**	ug/l	276.60	1.0	4500	74	P	
95	**Mo**	3	**0.122**	ug/l	6.09	29.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.38	16.6	450	103	P	
111	**Cd**	3	**0.046**	ug/l	2.29	27.2	900	103	P	
118	**Sn**	3	**0.155**	ug/l	7.73	8.4	4500	103	P	
121	**Sb**	3	**0.297**	ug/l	14.85	2.9	4500	103	P	
135	**Ba**	3	**47.370**	ug/l	2,368.50	2.0	4500	103	P	
200	**Hg**	3	**221.100**	ug/l	11,055.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.196**	ug/l	9.82	3.0	4500	209	P	
208	**Pb**	3	**1.926**	ug/l	96.30	1.2	4500	209	P	
238	**U**	3	**0.073**	ug/l	3.63	5.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3799616	0.73	5119000	**74.2**	30	-	120	
45	Sc	1	165698	0.52	341400	**48.5**	30	-	120	
45	Sc	2	227463	0.24	273900	**83.0**	30	-	120	
74	Ge	1	138763	0.53	283600	**48.9**	30	-	120	
74	Ge	2	360197	1.07	422600	**85.2**	30	-	120	
74	Ge	3	1451368	1.20	1674000	**86.7**	30	-	120	
103	Rh	2	690303	1.36	814900	**84.7**	30	-	120	
103	Rh	3	1341058	0.23	1535000	**87.4**	30	-	120	
165	Ho	3	2968616	0.78	3236000	**91.7**	30	-	120	
175	Lu	3	3311244	1.49	3584000	**92.4**	30	-	120	
209	Bi	3	6887601	0.38	7619000	**90.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\152SMPL.D\152SMPL.D#
Date Acquired: May 28 2010 06:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.697**	ug/l	6.97	1.6	450	6	P	
23	**Na**	2	**171.100**	ug/l	1,711.00	3.0	450000	45	P	
24	**Mg**	2	**35180.000**	ug/l	351,800.00	0.6	450000	45	A	
27	**Al**	2	**21040.000**	ug/l	210,400.00	0.7	450000	45	A	
31	**P**	2	**453.100**	ug/l	4,531.00	3.0	450000	45	P	
39	**K**	2	**1740.000**	ug/l	17,400.00	0.9	450000	45	P	
44	**Ca**	2	**1128.000**	ug/l	11,280.00	2.7	450000	45	P	
47	**Ti**	2	**162.700**	ug/l	1,627.00	3.5	4500	45	P	
51	**V**	2	**70.800**	ug/l	708.00	1.8	4500	45	P	
52	**Cr**	2	**832.100**	ug/l	8,321.00	1.8	4500	45	A	
54	**Fe**	2	**137500.000**	ug/l	1,375,000.00	1.3	450000	74	A	
55	**Mn**	2	**1818.000**	ug/l	18,180.00	1.1	15000	45	A	
59	**Co**	2	**246.500**	ug/l	2,465.00	1.7	4500	45	P	
60	**Ni**	2	**4228.000**	ug/l	42,280.00	1.2	15000	45	A	
63	**Cu**	2	**24.950**	ug/l	249.50	2.6	15000	45	P	
66	**Zn**	2	**88.750**	ug/l	887.50	2.4	15000	45	P	
75	**As**	2	**11.150**	ug/l	111.50	3.8	4500	74	P	
78	**Se**	2	**0.871**	ug/l	8.71	82.5	4500	74	P	
88	**Sr**	3	**26.940**	ug/l	269.40	1.4	4500	74	P	
95	**Mo**	3	**0.576**	ug/l	5.76	16.9	4500	74	P	
107	**Ag**	3	**0.061**	ug/l	0.61	5.4	450	103	P	
111	**Cd**	3	**0.202**	ug/l	2.02	10.3	900	103	P	
118	**Sn**	3	**0.739**	ug/l	7.39	4.5	4500	103	P	
121	**Sb**	3	**1.460**	ug/l	14.60	3.9	4500	103	P	
135	**Ba**	3	**233.700**	ug/l	2,337.00	3.5	4500	103	P	
200	**Hg**	3	**980.100**	ug/l	9,801.00	1.2	45	209	A	Fail
205	**Tl**	3	**0.520**	ug/l	5.20	0.8	4500	209	P	
208	**Pb**	3	**9.360**	ug/l	93.60	0.9	4500	209	P	
238	**U**	3	**0.381**	ug/l	3.81	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3347855	2.14	5119000	**65.4**	30	-	120	
45	Sc	1	179366	0.78	341400	**52.5**	30	-	120	
45	Sc	2	227519	0.39	273900	**83.1**	30	-	120	
74	Ge	1	135578	0.40	283600	**47.8**	30	-	120	
74	Ge	2	332695	0.76	422600	**78.7**	30	-	120	
74	Ge	3	1338524	1.76	1674000	**80.0**	30	-	120	
103	Rh	2	636319	1.46	814900	**78.1**	30	-	120	
103	Rh	3	1228390	2.97	1535000	**80.0**	30	-	120	
165	Ho	3	2837231	0.13	3236000	**87.7**	30	-	120	
175	Lu	3	3154227	0.51	3584000	**88.0**	30	-	120	
209	Bi	3	6397393	1.13	7619000	**84.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\153SMPL.D\153SMPL.D#
Date Acquired: May 28 2010 06:24 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.691**	ug/l	6.91	1.5	450	6	P	
23	**Na**	2	**173.300**	ug/l	1,733.00	2.9	450000	45	P	
24	**Mg**	2	**35410.000**	ug/l	354,100.00	0.4	450000	45	A	
27	**Al**	2	**20920.000**	ug/l	209,200.00	0.7	450000	45	A	
31	**P**	2	**461.100**	ug/l	4,611.00	5.0	450000	45	P	
39	**K**	2	**1731.000**	ug/l	17,310.00	0.6	450000	45	P	
44	**Ca**	2	**1134.000**	ug/l	11,340.00	2.3	450000	45	P	
47	**Ti**	2	**161.900**	ug/l	1,619.00	1.3	4500	45	P	
51	**V**	2	**70.310**	ug/l	703.10	1.1	4500	45	P	
52	**Cr**	2	**831.800**	ug/l	8,318.00	1.6	4500	45	A	
54	**Fe**	2	**137700.000**	ug/l	1,377,000.00	2.2	450000	74	A	
55	**Mn**	2	**1808.000**	ug/l	18,080.00	0.8	15000	45	A	
59	**Co**	2	**243.400**	ug/l	2,434.00	1.2	4500	45	P	
60	**Ni**	2	**4162.000**	ug/l	41,620.00	0.1	15000	45	A	
63	**Cu**	2	**24.540**	ug/l	245.40	1.3	15000	45	P	
66	**Zn**	2	**88.950**	ug/l	889.50	2.5	15000	45	P	
75	**As**	2	**11.050**	ug/l	110.50	2.1	4500	74	P	
78	**Se**	2	**1.945**	ug/l	19.45	16.8	4500	74	P	
88	**Sr**	3	**27.030**	ug/l	270.30	0.5	4500	74	P	
95	**Mo**	3	**0.590**	ug/l	5.90	3.5	4500	74	P	
107	**Ag**	3	**0.065**	ug/l	0.65	9.2	450	103	P	
111	**Cd**	3	**0.177**	ug/l	1.77	5.0	900	103	P	
118	**Sn**	3	**0.716**	ug/l	7.16	8.0	4500	103	P	
121	**Sb**	3	**1.473**	ug/l	14.73	1.4	4500	103	P	
135	**Ba**	3	**231.700**	ug/l	2,317.00	1.0	4500	103	P	
200	**Hg**	3	**975.700**	ug/l	9,757.00	1.5	45	209	A	Fail
205	**Tl**	3	**0.525**	ug/l	5.25	3.4	4500	209	P	
208	**Pb**	3	**9.327**	ug/l	93.27	0.8	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3343655	0.49	5119000	**65.3**	30	-	120	
45	Sc	1	174355	2.70	341400	**51.1**	30	-	120	
45	Sc	2	218934	0.28	273900	**79.9**	30	-	120	
74	Ge	1	130422	1.81	283600	**46.0**	30	-	120	
74	Ge	2	318952	1.91	422600	**75.5**	30	-	120	
74	Ge	3	1295007	0.56	1674000	**77.4**	30	-	120	
103	Rh	2	606982	1.41	814900	**74.5**	30	-	120	
103	Rh	3	1190878	0.86	1535000	**77.6**	30	-	120	
165	Ho	3	2774275	0.82	3236000	**85.7**	30	-	120	
175	Lu	3	3082608	0.33	3584000	**86.0**	30	-	120	
209	Bi	3	6268583	0.87	7619000	**82.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\154SMPL.D\154SMPL.D#
Date Acquired: May 28 2010 06:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.997**	ug/l	99.85	2.9	450	6	P	
23	**Na**	2	**438.500**	ug/l	21,925.00	1.2	450000	45	P	
24	**Mg**	2	**7457.000**	ug/l	372,850.00	1.4	450000	45	A	
27	**Al**	2	**4418.000**	ug/l	220,900.00	0.9	450000	45	P	
31	**P**	2	**457.200**	ug/l	22,860.00	1.5	450000	45	P	
39	**K**	2	**732.900**	ug/l	36,645.00	0.7	450000	45	P	
44	**Ca**	2	**601.800**	ug/l	30,090.00	3.8	450000	45	P	
47	**Ti**	2	**124.200**	ug/l	6,210.00	1.7	4500	45	P	
51	**V**	2	**32.190**	ug/l	1,609.50	3.5	4500	45	P	
52	**Cr**	2	**171.100**	ug/l	8,555.00	0.6	4500	45	P	
54	**Fe**	2	**25650.000**	ug/l	1,282,500.00	1.8	450000	74	A	
55	**Mn**	2	**385.700**	ug/l	19,285.00	0.6	15000	45	P	
59	**Co**	2	**67.370**	ug/l	3,368.50	0.5	4500	45	P	
60	**Ni**	2	**875.800**	ug/l	43,790.00	0.8	15000	45	P	
63	**Cu**	2	**15.020**	ug/l	751.00	2.8	15000	45	P	
66	**Zn**	2	**37.850**	ug/l	1,892.50	2.7	15000	45	P	
75	**As**	2	**76.620**	ug/l	3,831.00	1.8	4500	74	P	
78	**Se**	2	**79.110**	ug/l	3,955.50	2.9	4500	74	P	
88	**Sr**	3	**4.635**	ug/l	231.75	0.9	4500	74	P	
95	**Mo**	3	**99.320**	ug/l	4,966.00	0.3	4500	74	P	
107	**Ag**	3	**11.870**	ug/l	593.50	2.5	450	103	P	
111	**Cd**	3	**1.998**	ug/l	99.90	10.7	900	103	P	
118	**Sn**	3	**100.800**	ug/l	5,040.00	2.2	4500	103	P	
121	**Sb**	3	**52.250**	ug/l	2,612.50	3.1	4500	103	P	
135	**Ba**	3	**120.500**	ug/l	6,025.00	3.1	4500	103	P	
200	**Hg**	3	**189.900**	ug/l	9,495.00	0.6	45	209	P	Fail
205	**Tl**	3	**78.470**	ug/l	3,923.50	1.0	4500	209	A	
208	**Pb**	3	**21.580**	ug/l	1,079.00	0.4	4500	209	P	
238	**U**	3	**0.061**	ug/l	3.06	8.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3824031	0.66	5119000	**74.7**	30	-	120	
45	Sc	1	165166	1.54	341400	**48.4**	30	-	120	
45	Sc	2	205344	1.01	273900	**75.0**	30	-	120	
74	Ge	1	137148	2.47	283600	**48.4**	30	-	120	
74	Ge	2	326645	1.42	422600	**77.3**	30	-	120	
74	Ge	3	1341954	0.25	1674000	**80.2**	30	-	120	
103	Rh	2	630328	1.23	814900	**77.4**	30	-	120	
103	Rh	3	1237350	2.54	1535000	**80.6**	30	-	120	
165	Ho	3	2786016	0.49	3236000	**86.1**	30	-	120	
175	Lu	3	3109811	0.50	3584000	**86.8**	30	-	120	
209	Bi	3	6526193	0.64	7619000	**85.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\155SMPL.D\155SMPL.D#
Date Acquired: May 28 2010 06:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.095**	ug/l	104.75	4.7	450	6	P	
23	**Na**	2	**437.800**	ug/l	21,890.00	1.8	450000	45	P	
24	**Mg**	2	**7542.000**	ug/l	377,100.00	2.7	450000	45	A	
27	**Al**	2	**4484.000**	ug/l	224,200.00	1.5	450000	45	P	
31	**P**	2	**456.600**	ug/l	22,830.00	2.6	450000	45	P	
39	**K**	2	**744.500**	ug/l	37,225.00	2.5	450000	45	P	
44	**Ca**	2	**613.200**	ug/l	30,660.00	1.4	450000	45	P	
47	**Ti**	2	**127.100**	ug/l	6,355.00	1.3	4500	45	P	
51	**V**	2	**33.330**	ug/l	1,666.50	1.3	4500	45	P	
52	**Cr**	2	**176.000**	ug/l	8,800.00	2.7	4500	45	P	
54	**Fe**	2	**26250.000**	ug/l	1,312,500.00	1.5	450000	74	A	
55	**Mn**	2	**394.400**	ug/l	19,720.00	1.9	15000	45	P	
59	**Co**	2	**68.690**	ug/l	3,434.50	1.4	4500	45	P	
60	**Ni**	2	**897.700**	ug/l	44,885.00	0.8	15000	45	P	
63	**Cu**	2	**15.350**	ug/l	767.50	1.6	15000	45	P	
66	**Zn**	2	**38.590**	ug/l	1,929.50	3.2	15000	45	P	
75	**As**	2	**80.630**	ug/l	4,031.50	1.7	4500	74	P	
78	**Se**	2	**82.950**	ug/l	4,147.50	3.0	4500	74	P	
88	**Sr**	3	**4.796**	ug/l	239.80	2.2	4500	74	P	
95	**Mo**	3	**102.300**	ug/l	5,115.00	1.2	4500	74	P	
107	**Ag**	3	**12.230**	ug/l	611.50	0.5	450	103	P	
111	**Cd**	3	**2.102**	ug/l	105.10	2.9	900	103	P	
118	**Sn**	3	**104.400**	ug/l	5,220.00	2.0	4500	103	P	
121	**Sb**	3	**54.320**	ug/l	2,716.00	1.2	4500	103	P	
135	**Ba**	3	**125.400**	ug/l	6,270.00	1.7	4500	103	P	
200	**Hg**	3	**194.000**	ug/l	9,700.00	0.5	45	209	P	Fail
205	**Tl**	3	**81.630**	ug/l	4,081.50	0.3	4500	209	A	
208	**Pb**	3	**22.560**	ug/l	1,128.00	1.3	4500	209	P	
238	**U**	3	**0.064**	ug/l	3.19	7.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3929294	1.69	5119000	**76.8**	30	-	120	
45	Sc	1	163397	2.10	341400	**47.9**	30	-	120	
45	Sc	2	214768	1.75	273900	**78.4**	30	-	120	
74	Ge	1	136638	1.29	283600	**48.2**	30	-	120	
74	Ge	2	338658	1.32	422600	**80.1**	30	-	120	
74	Ge	3	1387355	1.15	1674000	**82.9**	30	-	120	
103	Rh	2	652729	1.20	814900	**80.1**	30	-	120	
103	Rh	3	1269415	1.00	1535000	**82.7**	30	-	120	
165	Ho	3	2866197	0.33	3236000	**88.6**	30	-	120	
175	Lu	3	3189364	1.75	3584000	**89.0**	30	-	120	
209	Bi	3	6625259	0.34	7619000	**87.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\156SMPL.D\156SMPL.D#
Date Acquired: May 28 2010 06:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	0.4	450	6	P	
23	**Na**	2	**441.800**	ug/l	22,090.00	1.2	450000	45	P	
24	**Mg**	2	**7558.000**	ug/l	377,900.00	0.5	450000	45	A	
27	**Al**	2	**4509.000**	ug/l	225,450.00	0.9	450000	45	P	
31	**P**	2	**432.100**	ug/l	21,605.00	3.4	450000	45	P	
39	**K**	2	**753.200**	ug/l	37,660.00	0.7	450000	45	P	
44	**Ca**	2	**630.100**	ug/l	31,505.00	2.6	450000	45	P	
47	**Ti**	2	**131.900**	ug/l	6,595.00	2.0	4500	45	P	
51	**V**	2	**33.770**	ug/l	1,688.50	0.6	4500	45	P	
52	**Cr**	2	**178.600**	ug/l	8,930.00	0.8	4500	45	P	
54	**Fe**	2	**25990.000**	ug/l	1,299,500.00	0.7	450000	74	A	
55	**Mn**	2	**398.500**	ug/l	19,925.00	0.8	15000	45	P	
59	**Co**	2	**69.590**	ug/l	3,479.50	1.2	4500	45	P	
60	**Ni**	2	**908.100**	ug/l	45,405.00	0.9	15000	45	P	
63	**Cu**	2	**15.610**	ug/l	780.50	1.8	15000	45	P	
66	**Zn**	2	**38.930**	ug/l	1,946.50	3.2	15000	45	P	
75	**As**	2	**79.600**	ug/l	3,980.00	1.0	4500	74	P	
78	**Se**	2	**81.750**	ug/l	4,087.50	9.9	4500	74	P	
88	**Sr**	3	**4.733**	ug/l	236.65	0.8	4500	74	P	
95	**Mo**	3	**102.200**	ug/l	5,110.00	1.0	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.3	450	103	P	
111	**Cd**	3	**1.948**	ug/l	97.40	10.1	900	103	P	
118	**Sn**	3	**102.100**	ug/l	5,105.00	2.2	4500	103	P	
121	**Sb**	3	**53.700**	ug/l	2,685.00	1.9	4500	103	P	
135	**Ba**	3	**122.900**	ug/l	6,145.00	1.6	4500	103	P	
200	**Hg**	3	**192.700**	ug/l	9,635.00	0.7	45	209	P	Fail
205	**Tl**	3	**80.540**	ug/l	4,027.00	0.3	4500	209	A	
208	**Pb**	3	**22.310**	ug/l	1,115.50	0.8	4500	209	P	
238	**U**	3	**0.065**	ug/l	3.25	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3928418	0.21	5119000	**76.7**	30	-	120	
45	Sc	1	163943	1.00	341400	**48.0**	30	-	120	
45	Sc	2	216092	0.47	273900	**78.9**	30	-	120	
74	Ge	1	136654	0.80	283600	**48.2**	30	-	120	
74	Ge	2	348505	1.35	422600	**82.5**	30	-	120	
74	Ge	3	1431232	0.96	1674000	**85.5**	30	-	120	
103	Rh	2	670343	0.76	814900	**82.3**	30	-	120	
103	Rh	3	1322083	1.72	1535000	**86.1**	30	-	120	
165	Ho	3	2889749	0.55	3236000	**89.3**	30	-	120	
175	Lu	3	3206147	0.13	3584000	**89.5**	30	-	120	
209	Bi	3	6723060	0.59	7619000	**88.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\157SMPL.D\157SMPL.D#
Date Acquired: May 28 2010 06:52 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.082**	ug/l	104.10	1.2	450	6	P	
23	**Na**	2	**427.100**	ug/l	21,355.00	0.4	450000	45	P	
24	**Mg**	2	**422.600**	ug/l	21,130.00	0.6	450000	45	P	
27	**Al**	2	**79.720**	ug/l	3,986.00	3.1	450000	45	P	
31	**P**	2	**365.700**	ug/l	18,285.00	4.5	450000	45	P	
39	**K**	2	**427.100**	ug/l	21,355.00	0.2	450000	45	P	
44	**Ca**	2	**419.200**	ug/l	20,960.00	7.7	450000	45	P	
47	**Ti**	2	**101.200**	ug/l	5,060.00	1.1	4500	45	P	
51	**V**	2	**20.650**	ug/l	1,032.50	1.5	4500	45	P	
52	**Cr**	2	**8.306**	ug/l	415.30	0.5	4500	45	P	
54	**Fe**	2	**451.800**	ug/l	22,590.00	0.6	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	1.3	15000	45	P	
59	**Co**	2	**21.700**	ug/l	1,085.00	0.3	4500	45	P	
60	**Ni**	2	**21.980**	ug/l	1,099.00	1.5	15000	45	P	
63	**Cu**	2	**11.020**	ug/l	551.00	0.4	15000	45	P	
66	**Zn**	2	**21.960**	ug/l	1,098.00	1.2	15000	45	P	
75	**As**	2	**80.160**	ug/l	4,008.00	0.5	4500	74	P	
78	**Se**	2	**82.930**	ug/l	4,146.50	6.4	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.39	47.2	4500	74	P	
95	**Mo**	3	**106.700**	ug/l	5,335.00	0.7	4500	74	P	
107	**Ag**	3	**12.580**	ug/l	629.00	0.4	450	103	P	
111	**Cd**	3	**2.012**	ug/l	100.60	7.0	900	103	P	
118	**Sn**	3	**105.700**	ug/l	5,285.00	1.1	4500	103	P	
121	**Sb**	3	**60.610**	ug/l	3,030.50	0.8	4500	103	P	
135	**Ba**	3	**84.190**	ug/l	4,209.50	1.6	4500	103	P	
200	**Hg**	3	**11.450**	ug/l	572.50	1.4	45	209	P	
205	**Tl**	3	**78.440**	ug/l	3,922.00	2.8	4500	209	A	
208	**Pb**	3	**20.750**	ug/l	1,037.50	1.7	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	21.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3494093	1.96	5119000	**68.3**	30	-	120	
45	Sc	1	151609	1.35	341400	**44.4**	30	-	120	
45	Sc	2	206803	0.82	273900	**75.5**	30	-	120	
74	Ge	1	128824	0.57	283600	**45.4**	30	-	120	
74	Ge	2	343198	1.23	422600	**81.2**	30	-	120	
74	Ge	3	1344372	1.35	1674000	**80.3**	30	-	120	
103	Rh	2	675378	1.07	814900	**82.9**	30	-	120	
103	Rh	3	1281033	1.16	1535000	**83.5**	30	-	120	
165	Ho	3	2877140	1.12	3236000	**88.9**	30	-	120	
175	Lu	3	3201330	1.34	3584000	**89.3**	30	-	120	
209	Bi	3	6890174	1.83	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\158SMPL.D\158SMPL.D#
Date Acquired: May 28 2010 06:59 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.068**	ug/l	103.40	4.7	450	6	P	
23	**Na**	2	**425.400**	ug/l	21,270.00	1.4	450000	45	P	
24	**Mg**	2	**417.900**	ug/l	20,895.00	1.3	450000	45	P	
27	**Al**	2	**77.440**	ug/l	3,872.00	1.9	450000	45	P	
31	**P**	2	**384.100**	ug/l	19,205.00	2.4	450000	45	P	
39	**K**	2	**426.000**	ug/l	21,300.00	1.1	450000	45	P	
44	**Ca**	2	**422.900**	ug/l	21,145.00	3.1	450000	45	P	
47	**Ti**	2	**99.530**	ug/l	4,976.50	0.2	4500	45	P	
51	**V**	2	**21.040**	ug/l	1,052.00	1.6	4500	45	P	
52	**Cr**	2	**8.389**	ug/l	419.45	0.8	4500	45	P	
54	**Fe**	2	**449.800**	ug/l	22,490.00	0.2	450000	74	P	
55	**Mn**	2	**21.390**	ug/l	1,069.50	1.3	15000	45	P	
59	**Co**	2	**21.500**	ug/l	1,075.00	1.1	4500	45	P	
60	**Ni**	2	**21.290**	ug/l	1,064.50	2.2	15000	45	P	
63	**Cu**	2	**11.240**	ug/l	562.00	2.1	15000	45	P	
66	**Zn**	2	**22.610**	ug/l	1,130.50	4.5	15000	45	P	
75	**As**	2	**80.510**	ug/l	4,025.50	1.0	4500	74	P	
78	**Se**	2	**87.140**	ug/l	4,357.00	3.6	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.43	12.5	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.6	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	2.7	450	103	P	
111	**Cd**	3	**2.065**	ug/l	103.25	4.8	900	103	P	
118	**Sn**	3	**105.600**	ug/l	5,280.00	2.0	4500	103	P	
121	**Sb**	3	**60.210**	ug/l	3,010.50	2.4	4500	103	P	
135	**Ba**	3	**84.850**	ug/l	4,242.50	1.7	4500	103	P	
200	**Hg**	3	**10.450**	ug/l	522.50	2.7	45	209	P	
205	**Tl**	3	**80.780**	ug/l	4,039.00	0.2	4500	209	A	
208	**Pb**	3	**21.240**	ug/l	1,062.00	0.8	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3537906	0.57	5119000	**69.1**	30	-	120	
45	Sc	1	151635	0.38	341400	**44.4**	30	-	120	
45	Sc	2	206662	1.38	273900	**75.5**	30	-	120	
74	Ge	1	128826	0.75	283600	**45.4**	30	-	120	
74	Ge	2	342363	1.17	422600	**81.0**	30	-	120	
74	Ge	3	1361453	1.18	1674000	**81.3**	30	-	120	
103	Rh	2	672777	1.36	814900	**82.6**	30	-	120	
103	Rh	3	1286733	1.31	1535000	**83.8**	30	-	120	
165	Ho	3	2858065	1.70	3236000	**88.3**	30	-	120	
175	Lu	3	3205337	1.15	3584000	**89.4**	30	-	120	
209	Bi	3	6836575	0.51	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\159SMPL.D\159SMPL.D#
Date Acquired: May 28 2010 07:07 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**92.760**	ug/l	1,855.20	1.4	450	6	P	
23	**Na**	2	**319.700**	ug/l	6,394.00	2.3	450000	45	P	
24	**Mg**	2	**2403.000**	ug/l	48,060.00	1.8	450000	45	A	
27	**Al**	2	**5611.000**	ug/l	112,220.00	3.3	450000	45	A	
31	**P**	2	**398.900**	ug/l	7,978.00	5.7	450000	45	P	
39	**K**	2	**2390.000**	ug/l	47,800.00	1.7	450000	45	P	
44	**Ca**	2	**5552.000**	ug/l	111,040.00	1.6	450000	45	P	
47	**Ti**	2	**269.800**	ug/l	5,396.00	0.6	4500	45	P	
51	**V**	2	**56.900**	ug/l	1,138.00	0.5	4500	45	P	
52	**Cr**	2	**73.230**	ug/l	1,464.60	1.8	4500	45	P	
54	**Fe**	2	**10170.000**	ug/l	203,400.00	1.3	450000	74	A	
55	**Mn**	2	**216.000**	ug/l	4,320.00	1.4	15000	45	P	
59	**Co**	2	**71.190**	ug/l	1,423.80	1.2	4500	45	P	
60	**Ni**	2	**106.400**	ug/l	2,128.00	2.2	15000	45	P	
63	**Cu**	2	**40.400**	ug/l	808.00	1.7	15000	45	P	
66	**Zn**	2	**216.700**	ug/l	4,334.00	2.6	15000	45	P	
75	**As**	2	**129.500**	ug/l	2,590.00	0.3	4500	74	P	
78	**Se**	2	**85.230**	ug/l	1,704.60	3.9	4500	74	P	
88	**Sr**	3	**72.820**	ug/l	1,456.40	1.3	4500	74	P	
95	**Mo**	3	**67.280**	ug/l	1,345.60	1.2	4500	74	P	
107	**Ag**	3	**20.920**	ug/l	418.40	1.5	450	103	P	
111	**Cd**	3	**39.400**	ug/l	788.00	0.6	900	103	P	
118	**Sn**	3	**100.200**	ug/l	2,004.00	0.8	4500	103	P	
121	**Sb**	3	**84.370**	ug/l	1,687.40	1.0	4500	103	P	
135	**Ba**	3	**337.300**	ug/l	6,746.00	0.7	4500	103	P	
200	**Hg**	3	**14.440**	ug/l	288.80	1.7	45	209	P	
205	**Tl**	3	**101.100**	ug/l	2,022.00	1.3	4500	209	A	
208	**Pb**	3	**126.400**	ug/l	2,528.00	1.1	4500	209	A	
238	**U**	3	**1.043**	ug/l	20.86	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3797768	1.15	5119000	**74.2**	30	-	120	
45	Sc	1	162857	1.25	341400	**47.7**	30	-	120	
45	Sc	2	214206	1.62	273900	**78.2**	30	-	120	
74	Ge	1	139348	1.61	283600	**49.1**	30	-	120	
74	Ge	2	347051	0.76	422600	**82.1**	30	-	120	
74	Ge	3	1428608	2.22	1674000	**85.3**	30	-	120	
103	Rh	2	669380	0.54	814900	**82.1**	30	-	120	
103	Rh	3	1323928	0.64	1535000	**86.2**	30	-	120	
165	Ho	3	2929695	0.66	3236000	**90.5**	30	-	120	
175	Lu	3	3282597	1.45	3584000	**91.6**	30	-	120	
209	Bi	3	6872919	1.22	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\160SMPL.D\160SMPL.D#
Date Acquired: May 28 2010 07:14 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.720**	ug/l	51.72	1.5	450	6	P	
23	**Na**	2	**4959.000**	ug/l	4,959.00	0.6	450000	45	A	
24	**Mg**	2	**5054.000**	ug/l	5,054.00	1.5	450000	45	A	
27	**Al**	2	**487.700**	ug/l	487.70	1.4	450000	45	P	
31	**P**	2	**4769.000**	ug/l	4,769.00	1.8	450000	45	P	
39	**K**	2	**5116.000**	ug/l	5,116.00	1.6	450000	45	A	
44	**Ca**	2	**5070.000**	ug/l	5,070.00	0.7	450000	45	P	
47	**Ti**	2	**52.080**	ug/l	52.08	1.9	4500	45	P	
51	**V**	2	**52.870**	ug/l	52.87	0.9	4500	45	P	
52	**Cr**	2	**52.860**	ug/l	52.86	0.8	4500	45	P	
54	**Fe**	2	**5128.000**	ug/l	5,128.00	1.1	450000	74	P	
55	**Mn**	2	**53.470**	ug/l	53.47	0.8	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.9	4500	45	P	
60	**Ni**	2	**53.950**	ug/l	53.95	3.2	15000	45	P	
63	**Cu**	2	**54.430**	ug/l	54.43	0.3	15000	45	P	
66	**Zn**	2	**55.040**	ug/l	55.04	3.1	15000	45	P	
75	**As**	2	**51.410**	ug/l	51.41	1.0	4500	74	P	
78	**Se**	2	**52.040**	ug/l	52.04	2.2	4500	74	P	
88	**Sr**	3	**54.050**	ug/l	54.05	0.7	4500	74	P	
95	**Mo**	3	**53.120**	ug/l	53.12	1.4	4500	74	P	
107	**Ag**	3	**51.570**	ug/l	51.57	1.3	450	103	P	
111	**Cd**	3	**51.790**	ug/l	51.79	0.3	900	103	P	
118	**Sn**	3	**52.210**	ug/l	52.21	0.6	4500	103	P	
121	**Sb**	3	**52.010**	ug/l	52.01	1.5	4500	103	P	
135	**Ba**	3	**52.930**	ug/l	52.93	2.6	4500	103	P	
200	**Hg**	3	**12.390**	ug/l	12.39	0.4	45	209	P	
205	**Tl**	3	**53.410**	ug/l	53.41	1.2	4500	209	P	
208	**Pb**	3	**53.200**	ug/l	53.20	0.6	4500	209	P	
238	**U**	3	**53.070**	ug/l	53.07	1.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3819483	1.38	5119000	**74.6**	30	-	120	
45	Sc	1	172546	1.14	341400	**50.5**	30	-	120	
45	Sc	2	220437	1.04	273900	**80.5**	30	-	120	
74	Ge	1	148137	1.21	283600	**52.2**	30	-	120	
74	Ge	2	359944	0.47	422600	**85.2**	30	-	120	
74	Ge	3	1466613	0.68	1674000	**87.6**	30	-	120	
103	Rh	2	693487	1.27	814900	**85.1**	30	-	120	
103	Rh	3	1366993	1.04	1535000	**89.1**	30	-	120	
165	Ho	3	3010715	1.92	3236000	**93.0**	30	-	120	
175	Lu	3	3325168	1.58	3584000	**92.8**	30	-	120	
209	Bi	3	6934116	1.24	7619000	**91.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\161SMPL.D\161SMPL.D#
Date Acquired: May 28 2010 07:21 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	28.9	450	6	P	
23	**Na**	2	**1.929**	ug/l	1.93	57.0	450000	45	P	
24	**Mg**	2	**2.708**	ug/l	2.71	11.1	450000	45	P	
27	**Al**	2	**0.494**	ug/l	0.49	24.3	450000	45	P	
31	**P**	2	**-9.774**	ug/l	-9.77	46.9	450000	45	P	
39	**K**	2	**1.838**	ug/l	1.84	88.8	450000	45	P	
44	**Ca**	2	**1.648**	ug/l	1.65	120.3	450000	45	P	
47	**Ti**	2	**0.040**	ug/l	0.04	26.2	4500	45	P	
51	**V**	2	**-0.122**	ug/l	-0.12	18.9	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	385.7	4500	45	P	
54	**Fe**	2	**1.184**	ug/l	1.18	29.5	450000	74	P	
55	**Mn**	2	**0.082**	ug/l	0.08	18.5	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	10.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	72.6	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	99.2	15000	45	P	
66	**Zn**	2	**0.134**	ug/l	0.13	57.5	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	141.3	4500	74	P	
78	**Se**	2	**-0.493**	ug/l	-0.49	53.2	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	65.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	124.3	4500	74	P	
107	**Ag**	3	**0.010**	ug/l	0.01	30.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	130.0	900	103	P	
118	**Sn**	3	**0.075**	ug/l	0.07	13.6	4500	103	P	
121	**Sb**	3	**0.076**	ug/l	0.08	16.5	4500	103	P	
135	**Ba**	3	**0.041**	ug/l	0.04	36.4	4500	103	P	
200	**Hg**	3	**9.217**	ug/l	9.22	2.1	45	209	P	
205	**Tl**	3	**0.700**	ug/l	0.70	2.8	4500	209	P	
208	**Pb**	3	**0.017**	ug/l	0.02	6.4	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	10.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3636710	1.40	5119000	**71.0**	30	-	120	
45	Sc	1	160346	0.59	341400	**47.0**	30	-	120	
45	Sc	2	217451	0.86	273900	**79.4**	30	-	120	
74	Ge	1	139539	1.12	283600	**49.2**	30	-	120	
74	Ge	2	361917	0.67	422600	**85.6**	30	-	120	
74	Ge	3	1418573	1.76	1674000	**84.7**	30	-	120	
103	Rh	2	715312	0.94	814900	**87.8**	30	-	120	
103	Rh	3	1337412	1.56	1535000	**87.1**	30	-	120	
165	Ho	3	2952242	0.74	3236000	**91.2**	30	-	120	
175	Lu	3	3286719	1.93	3584000	**91.7**	30	-	120	
209	Bi	3	7051537	1.74	7619000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\162SMPL.D\162SMPL.D#
Date Acquired: May 28 2010 07:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.722**	ug/l	7.22	7.2	450	6	P	
23	**Na**	2	**201.700**	ug/l	2,017.00	2.6	450000	45	P	
24	**Mg**	2	**17380.000**	ug/l	173,800.00	1.1	450000	45	A	
27	**Al**	2	**20270.000**	ug/l	202,700.00	1.5	450000	45	A	
31	**P**	2	**592.700**	ug/l	5,927.00	3.7	450000	45	P	
39	**K**	2	**2190.000**	ug/l	21,900.00	0.4	450000	45	P	
44	**Ca**	2	**1280.000**	ug/l	12,800.00	2.8	450000	45	P	
47	**Ti**	2	**203.100**	ug/l	2,031.00	1.4	4500	45	P	
51	**V**	2	**70.190**	ug/l	701.90	1.4	4500	45	P	
52	**Cr**	2	**1023.000**	ug/l	10,230.00	2.4	4500	45	A	
54	**Fe**	2	**144200.000**	ug/l	1,442,000.00	1.0	450000	74	A	
55	**Mn**	2	**2226.000**	ug/l	22,260.00	1.0	15000	45	A	
59	**Co**	2	**302.400**	ug/l	3,024.00	0.6	4500	45	P	
60	**Ni**	2	**3789.000**	ug/l	37,890.00	1.3	15000	45	A	
63	**Cu**	2	**26.890**	ug/l	268.90	2.1	15000	45	P	
66	**Zn**	2	**89.720**	ug/l	897.20	0.7	15000	45	P	
75	**As**	2	**9.024**	ug/l	90.24	2.4	4500	74	P	
78	**Se**	2	**0.542**	ug/l	5.42	63.6	4500	74	P	
88	**Sr**	3	**26.650**	ug/l	266.50	4.4	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	11.3	4500	74	P	
107	**Ag**	3	**0.067**	ug/l	0.67	9.3	450	103	P	
111	**Cd**	3	**0.198**	ug/l	1.98	27.7	900	103	P	
118	**Sn**	3	**0.895**	ug/l	8.95	1.8	4500	103	P	
121	**Sb**	3	**1.498**	ug/l	14.98	5.2	4500	103	P	
135	**Ba**	3	**254.700**	ug/l	2,547.00	0.6	4500	103	P	
200	**Hg**	3	**52.400**	ug/l	524.00	1.0	45	209	P	Fail
205	**Tl**	3	**0.739**	ug/l	7.39	3.4	4500	209	P	
208	**Pb**	3	**14.340**	ug/l	143.40	0.7	4500	209	P	
238	**U**	3	**0.391**	ug/l	3.91	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3256325	1.82	5119000	**63.6**	30	-	120	
45	Sc	1	181110	0.59	341400	**53.0**	30	-	120	
45	Sc	2	218679	1.48	273900	**79.8**	30	-	120	
74	Ge	1	136961	1.13	283600	**48.3**	30	-	120	
74	Ge	2	319236	0.76	422600	**75.5**	30	-	120	
74	Ge	3	1299633	3.80	1674000	**77.6**	30	-	120	
103	Rh	2	615477	1.21	814900	**75.5**	30	-	120	
103	Rh	3	1218553	0.50	1535000	**79.4**	30	-	120	
165	Ho	3	2794449	0.63	3236000	**86.4**	30	-	120	
175	Lu	3	3136749	1.78	3584000	**87.5**	30	-	120	
209	Bi	3	6369790	0.69	7619000	**83.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\163SMPL.D\163SMPL.D#
Date Acquired: May 28 2010 07:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.047**	ug/l	10.47	1.3	450	6	P	
23	**Na**	2	**157.000**	ug/l	1,570.00	1.4	450000	45	P	
24	**Mg**	2	**86920.000**	ug/l	869,200.00	1.4	450000	45	A	
27	**Al**	2	**35450.000**	ug/l	354,500.00	1.1	450000	45	A	
31	**P**	2	**598.400**	ug/l	5,984.00	1.3	450000	45	P	
39	**K**	2	**2492.000**	ug/l	24,920.00	2.3	450000	45	M	
44	**Ca**	2	**20410.000**	ug/l	204,100.00	1.1	450000	45	P	
47	**Ti**	2	**360.500**	ug/l	3,605.00	2.0	4500	45	P	
51	**V**	2	**103.600**	ug/l	1,036.00	0.1	4500	45	P	
52	**Cr**	2	**463.000**	ug/l	4,630.00	0.7	4500	45	A	
54	**Fe**	2	**73660.000**	ug/l	736,600.00	0.5	450000	74	A	
55	**Mn**	2	**1249.000**	ug/l	12,490.00	0.4	15000	45	A	
59	**Co**	2	**60.950**	ug/l	609.50	1.5	4500	45	P	
60	**Ni**	2	**880.600**	ug/l	8,806.00	1.0	15000	45	P	
63	**Cu**	2	**55.640**	ug/l	556.40	1.9	15000	45	P	
66	**Zn**	2	**120.600**	ug/l	1,206.00	0.8	15000	45	P	
75	**As**	2	**10.660**	ug/l	106.60	1.9	4500	74	P	
78	**Se**	2	**0.636**	ug/l	6.36	44.6	4500	74	P	
88	**Sr**	3	**179.200**	ug/l	1,792.00	2.8	4500	74	A	
95	**Mo**	3	**0.979**	ug/l	9.79	2.8	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	13.6	450	103	P	
111	**Cd**	3	**0.312**	ug/l	3.12	16.9	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.545**	ug/l	15.45	4.8	4500	103	P	
135	**Ba**	3	**539.600**	ug/l	5,396.00	1.9	4500	103	P	
200	**Hg**	3	**22.410**	ug/l	224.10	1.4	45	209	P	
205	**Tl**	3	**0.523**	ug/l	5.23	1.5	4500	209	P	
208	**Pb**	3	**18.550**	ug/l	185.50	0.3	4500	209	P	
238	**U**	3	**0.517**	ug/l	5.17	1.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3618497	1.11	5119000	**70.7**	30	-	120	
45	Sc	1	194673	2.07	341400	**57.0**	30	-	120	
45	Sc	2	234566	0.65	273900	**85.6**	30	-	120	
74	Ge	1	149543	1.14	283600	**52.7**	30	-	120	
74	Ge	2	343755	0.87	422600	**81.3**	30	-	120	
74	Ge	3	1432527	1.87	1674000	**85.6**	30	-	120	
103	Rh	2	644673	1.52	814900	**79.1**	30	-	120	
103	Rh	3	1291990	1.47	1535000	**84.2**	30	-	120	
165	Ho	3	2947584	1.22	3236000	**91.1**	30	-	120	
175	Lu	3	3232431	0.58	3584000	**90.2**	30	-	120	
209	Bi	3	6450826	0.63	7619000	**84.7**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\164SMPL.D\164SMPL.D#
Date Acquired: May 28 2010 07:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	4.5	450	6	P	
23	**Na**	2	**139.500**	ug/l	1,395.00	1.4	450000	45	P	
24	**Mg**	2	**112600.000**	ug/l	1,126,000.00	1.7	450000	45	A	
27	**Al**	2	**36690.000**	ug/l	366,900.00	1.0	450000	45	A	
31	**P**	2	**586.700**	ug/l	5,867.00	5.1	450000	45	P	
39	**K**	2	**2212.000**	ug/l	22,120.00	1.8	450000	45	P	
44	**Ca**	2	**27980.000**	ug/l	279,800.00	1.4	450000	45	P	
47	**Ti**	2	**383.000**	ug/l	3,830.00	0.9	4500	45	P	
51	**V**	2	**115.400**	ug/l	1,154.00	1.6	4500	45	P	
52	**Cr**	2	**668.300**	ug/l	6,683.00	2.3	4500	45	A	
54	**Fe**	2	**81580.000**	ug/l	815,800.00	0.9	450000	74	A	
55	**Mn**	2	**1346.000**	ug/l	13,460.00	2.1	15000	45	A	
59	**Co**	2	**75.060**	ug/l	750.60	1.8	4500	45	P	
60	**Ni**	2	**1186.000**	ug/l	11,860.00	2.1	15000	45	P	
63	**Cu**	2	**55.430**	ug/l	554.30	1.6	15000	45	P	
66	**Zn**	2	**106.100**	ug/l	1,061.00	2.5	15000	45	P	
75	**As**	2	**10.840**	ug/l	108.40	2.7	4500	74	P	
78	**Se**	2	**0.942**	ug/l	9.42	44.5	4500	74	P	
88	**Sr**	3	**235.200**	ug/l	2,352.00	1.0	4500	74	A	
95	**Mo**	3	**0.910**	ug/l	9.10	7.7	4500	74	P	
107	**Ag**	3	**0.109**	ug/l	1.09	19.6	450	103	P	
111	**Cd**	3	**0.222**	ug/l	2.22	26.9	900	103	P	
118	**Sn**	3	**1.571**	ug/l	15.71	3.6	4500	103	P	
121	**Sb**	3	**1.707**	ug/l	17.07	3.8	4500	103	P	
135	**Ba**	3	**465.700**	ug/l	4,657.00	1.1	4500	103	P	
200	**Hg**	3	**23.740**	ug/l	237.40	1.0	45	209	P	
205	**Tl**	3	**0.480**	ug/l	4.80	3.6	4500	209	P	
208	**Pb**	3	**19.320**	ug/l	193.20	1.1	4500	209	P	
238	**U**	3	**0.485**	ug/l	4.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3708417	0.48	5119000	**72.4**	30	-	120	
45	Sc	1	176146	0.56	341400	**51.6**	30	-	120	
45	Sc	2	244182	1.40	273900	**89.2**	30	-	120	
74	Ge	1	132254	1.20	283600	**46.6**	30	-	120	
74	Ge	2	357151	0.55	422600	**84.5**	30	-	120	
74	Ge	3	1495393	0.35	1674000	**89.3**	30	-	120	
103	Rh	2	657293	0.79	814900	**80.7**	30	-	120	
103	Rh	3	1334968	1.51	1535000	**87.0**	30	-	120	
165	Ho	3	2997270	1.61	3236000	**92.6**	30	-	120	
175	Lu	3	3303988	1.14	3584000	**92.2**	30	-	120	
209	Bi	3	6514145	0.17	7619000	**85.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\165SMPL.D\165SMPL.D#
Date Acquired: May 28 2010 07:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	19.49	2.4	450	6	P	
23	**Na**	2	**520.300**	ug/l	5,203.00	2.8	450000	45	P	
24	**Mg**	2	**32890.000**	ug/l	328,900.00	2.7	450000	45	A	
27	**Al**	2	**32200.000**	ug/l	322,000.00	2.5	450000	45	A	
31	**P**	2	**1456.000**	ug/l	14,560.00	4.4	450000	45	P	
39	**K**	2	**3865.000**	ug/l	38,650.00	2.9	450000	45	A	
44	**Ca**	2	**25080.000**	ug/l	250,800.00	2.2	450000	45	P	
47	**Ti**	2	**1180.000**	ug/l	11,800.00	1.4	4500	45	P	
51	**V**	2	**111.800**	ug/l	1,118.00	1.8	4500	45	P	
52	**Cr**	2	**277.600**	ug/l	2,776.00	1.2	4500	45	P	
54	**Fe**	2	**73760.000**	ug/l	737,600.00	1.6	450000	74	A	
55	**Mn**	2	**1681.000**	ug/l	16,810.00	1.9	15000	45	A	
59	**Co**	2	**45.530**	ug/l	455.30	0.9	4500	45	P	
60	**Ni**	2	**393.200**	ug/l	3,932.00	0.6	15000	45	P	
63	**Cu**	2	**207.200**	ug/l	2,072.00	1.2	15000	45	P	
66	**Zn**	2	**13810.000**	ug/l	138,100.00	2.1	15000	45	A	
75	**As**	2	**12.950**	ug/l	129.50	2.9	4500	74	P	
78	**Se**	2	**2.855**	ug/l	28.55	7.5	4500	74	P	
88	**Sr**	3	**114.300**	ug/l	1,143.00	1.5	4500	74	A	
95	**Mo**	3	**2.151**	ug/l	21.51	4.8	4500	74	P	
107	**Ag**	3	**0.472**	ug/l	4.72	1.4	450	103	P	
111	**Cd**	3	**29.840**	ug/l	298.40	0.9	900	103	P	
118	**Sn**	3	**42.370**	ug/l	423.70	1.3	4500	103	P	
121	**Sb**	3	**6.121**	ug/l	61.21	2.1	4500	103	P	
135	**Ba**	3	**1795.000**	ug/l	17,950.00	1.1	4500	103	A	
200	**Hg**	3	**13.420**	ug/l	134.20	1.5	45	209	P	
205	**Tl**	3	**0.343**	ug/l	3.43	1.0	4500	209	P	
208	**Pb**	3	**950.200**	ug/l	9,502.00	0.5	4500	209	A	
238	**U**	3	**1.166**	ug/l	11.66	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3979491	0.86	5119000	**77.7**	30	-	120	
45	Sc	1	167420	1.77	341400	**49.0**	30	-	120	
45	Sc	2	250413	1.41	273900	**91.4**	30	-	120	
74	Ge	1	128822	0.76	283600	**45.4**	30	-	120	
74	Ge	2	370660	1.24	422600	**87.7**	30	-	120	
74	Ge	3	1523051	1.52	1674000	**91.0**	30	-	120	
103	Rh	2	693662	1.39	814900	**85.1**	30	-	120	
103	Rh	3	1375516	0.61	1535000	**89.6**	30	-	120	
165	Ho	3	3045900	2.61	3236000	**94.1**	30	-	120	
175	Lu	3	3382301	0.59	3584000	**94.4**	30	-	120	
209	Bi	3	6751512	0.18	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\166SMPL.D\166SMPL.D#
Date Acquired: May 28 2010 07:56 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.983**	ug/l	9.83	5.3	450	6	P	
23	**Na**	2	**124.200**	ug/l	1,242.00	3.2	450000	45	P	
24	**Mg**	2	**81760.000**	ug/l	817,600.00	1.3	450000	45	A	
27	**Al**	2	**32540.000**	ug/l	325,400.00	2.0	450000	45	A	
31	**P**	2	**652.800**	ug/l	6,528.00	1.1	450000	45	P	
39	**K**	2	**2154.000**	ug/l	21,540.00	2.3	450000	45	P	
44	**Ca**	2	**10700.000**	ug/l	107,000.00	1.4	450000	45	P	
47	**Ti**	2	**346.100**	ug/l	3,461.00	3.0	4500	45	P	
51	**V**	2	**102.400**	ug/l	1,024.00	1.1	4500	45	P	
52	**Cr**	2	**628.600**	ug/l	6,286.00	0.9	4500	45	A	
54	**Fe**	2	**77380.000**	ug/l	773,800.00	1.0	450000	74	A	
55	**Mn**	2	**1355.000**	ug/l	13,550.00	1.3	15000	45	A	
59	**Co**	2	**76.550**	ug/l	765.50	2.1	4500	45	P	
60	**Ni**	2	**1182.000**	ug/l	11,820.00	2.5	15000	45	M	
63	**Cu**	2	**56.100**	ug/l	561.00	1.9	15000	45	P	
66	**Zn**	2	**134.500**	ug/l	1,345.00	4.4	15000	45	P	
75	**As**	2	**11.640**	ug/l	116.40	2.2	4500	74	P	
78	**Se**	2	**0.451**	ug/l	4.51	62.4	4500	74	P	
88	**Sr**	3	**89.690**	ug/l	896.90	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	8.79	10.7	4500	74	P	
107	**Ag**	3	**0.126**	ug/l	1.26	10.0	450	103	P	
111	**Cd**	3	**0.304**	ug/l	3.04	16.4	900	103	P	
118	**Sn**	3	**1.369**	ug/l	13.69	0.7	4500	103	P	
121	**Sb**	3	**1.436**	ug/l	14.36	3.5	4500	103	P	
135	**Ba**	3	**382.200**	ug/l	3,822.00	1.1	4500	103	P	
200	**Hg**	3	**32.810**	ug/l	328.10	0.8	45	209	P	
205	**Tl**	3	**0.395**	ug/l	3.95	3.8	4500	209	P	
208	**Pb**	3	**20.500**	ug/l	205.00	1.5	4500	209	P	
238	**U**	3	**0.509**	ug/l	5.09	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3857486	0.81	5119000	**75.4**	30	-	120	
45	Sc	1	163197	2.87	341400	**47.8**	30	-	120	
45	Sc	2	252134	1.21	273900	**92.1**	30	-	120	
74	Ge	1	122892	3.93	283600	**43.3**	30	-	120	
74	Ge	2	369152	1.33	422600	**87.4**	30	-	120	
74	Ge	3	1507870	1.17	1674000	**90.1**	30	-	120	
103	Rh	2	681663	1.20	814900	**83.6**	30	-	120	
103	Rh	3	1363089	1.89	1535000	**88.8**	30	-	120	
165	Ho	3	3011810	0.72	3236000	**93.1**	30	-	120	
175	Lu	3	3338839	0.80	3584000	**93.2**	30	-	120	
209	Bi	3	6575265	0.49	7619000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\167SMPL.D\167SMPL.D#
Date Acquired: May 28 2010 08:04 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	2.3	450	6	P	
23	**Na**	2	**89.030**	ug/l	890.30	2.9	450000	45	P	
24	**Mg**	2	**30500.000**	ug/l	305,000.00	1.7	450000	45	A	
27	**Al**	2	**24520.000**	ug/l	245,200.00	1.5	450000	45	A	
31	**P**	2	**634.900**	ug/l	6,349.00	3.8	450000	45	P	
39	**K**	2	**1557.000**	ug/l	15,570.00	0.8	450000	45	P	
44	**Ca**	2	**10970.000**	ug/l	109,700.00	0.3	450000	45	P	
47	**Ti**	2	**741.200**	ug/l	7,412.00	0.8	4500	45	P	
51	**V**	2	**114.300**	ug/l	1,143.00	0.3	4500	45	P	
52	**Cr**	2	**195.900**	ug/l	1,959.00	1.0	4500	45	P	
54	**Fe**	2	**56990.000**	ug/l	569,900.00	1.0	450000	74	A	
55	**Mn**	2	**1431.000**	ug/l	14,310.00	0.6	15000	45	A	
59	**Co**	2	**33.130**	ug/l	331.30	1.3	4500	45	P	
60	**Ni**	2	**245.400**	ug/l	2,454.00	0.6	15000	45	P	
63	**Cu**	2	**80.860**	ug/l	808.60	0.9	15000	45	P	
66	**Zn**	2	**188.700**	ug/l	1,887.00	1.2	15000	45	P	
75	**As**	2	**14.900**	ug/l	149.00	0.8	4500	74	P	
78	**Se**	2	**0.458**	ug/l	4.58	227.2	4500	74	P	
88	**Sr**	3	**118.500**	ug/l	1,185.00	1.8	4500	74	A	
95	**Mo**	3	**1.898**	ug/l	18.98	3.6	4500	74	P	
107	**Ag**	3	**0.064**	ug/l	0.64	6.8	450	103	P	
111	**Cd**	3	**0.498**	ug/l	4.98	8.4	900	103	P	
118	**Sn**	3	**0.736**	ug/l	7.36	2.0	4500	103	P	
121	**Sb**	3	**0.738**	ug/l	7.38	5.3	4500	103	P	
135	**Ba**	3	**430.000**	ug/l	4,300.00	1.5	4500	103	P	
200	**Hg**	3	**23.410**	ug/l	234.10	2.0	45	209	P	
205	**Tl**	3	**0.325**	ug/l	3.25	4.7	4500	209	P	
208	**Pb**	3	**14.270**	ug/l	142.70	1.0	4500	209	P	
238	**U**	3	**0.267**	ug/l	2.67	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3987799	1.06	5119000	**77.9**	30	-	120	
45	Sc	1	170074	0.76	341400	**49.8**	30	-	120	
45	Sc	2	242280	0.59	273900	**88.5**	30	-	120	
74	Ge	1	132188	1.12	283600	**46.6**	30	-	120	
74	Ge	2	366612	1.38	422600	**86.8**	30	-	120	
74	Ge	3	1556577	0.97	1674000	**93.0**	30	-	120	
103	Rh	2	695584	0.25	814900	**85.4**	30	-	120	
103	Rh	3	1381815	1.04	1535000	**90.0**	30	-	120	
165	Ho	3	3111409	0.77	3236000	**96.1**	30	-	120	
175	Lu	3	3401900	0.69	3584000	**94.9**	30	-	120	
209	Bi	3	6820831	1.03	7619000	**89.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\168SMPL.D\168SMPL.D#
Date Acquired: May 28 2010 08:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.758**	ug/l	7.58	3.8	450	6	P	
23	**Na**	2	**63.200**	ug/l	632.00	15.1	450000	45	P	
24	**Mg**	2	**29050.000**	ug/l	290,500.00	1.2	450000	45	A	
27	**Al**	2	**18350.000**	ug/l	183,500.00	1.5	450000	45	A	
31	**P**	2	**972.900**	ug/l	9,729.00	0.9	450000	45	P	
39	**K**	2	**2316.000**	ug/l	23,160.00	2.6	450000	45	M	
44	**Ca**	2	**14360.000**	ug/l	143,600.00	1.1	450000	45	P	
47	**Ti**	2	**332.100**	ug/l	3,321.00	1.4	4500	45	P	
51	**V**	2	**69.230**	ug/l	692.30	0.7	4500	45	P	
52	**Cr**	2	**112.200**	ug/l	1,122.00	0.6	4500	45	P	
54	**Fe**	2	**45200.000**	ug/l	452,000.00	1.1	450000	74	A	
55	**Mn**	2	**1010.000**	ug/l	10,100.00	0.9	15000	45	A	
59	**Co**	2	**32.300**	ug/l	323.00	0.8	4500	45	P	
60	**Ni**	2	**277.500**	ug/l	2,775.00	0.6	15000	45	P	
63	**Cu**	2	**64.500**	ug/l	645.00	0.9	15000	45	P	
66	**Zn**	2	**133.500**	ug/l	1,335.00	1.4	15000	45	P	
75	**As**	2	**11.600**	ug/l	116.00	0.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	209.7	4500	74	P	
88	**Sr**	3	**129.500**	ug/l	1,295.00	0.8	4500	74	A	
95	**Mo**	3	**0.754**	ug/l	7.54	4.8	4500	74	P	
107	**Ag**	3	**0.118**	ug/l	1.18	9.3	450	103	P	
111	**Cd**	3	**0.431**	ug/l	4.31	10.7	900	103	P	
118	**Sn**	3	**0.640**	ug/l	6.40	4.6	4500	103	P	
121	**Sb**	3	**0.837**	ug/l	8.37	4.5	4500	103	P	
135	**Ba**	3	**420.500**	ug/l	4,205.00	2.1	4500	103	P	
200	**Hg**	3	**30.870**	ug/l	308.70	0.6	45	209	P	
205	**Tl**	3	**0.219**	ug/l	2.19	1.9	4500	209	P	
208	**Pb**	3	**54.060**	ug/l	540.60	0.4	4500	209	P	
238	**U**	3	**0.307**	ug/l	3.07	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4252858	0.97	5119000	**83.1**	30	-	120	
45	Sc	1	153614	1.55	341400	**45.0**	30	-	120	
45	Sc	2	243329	0.34	273900	**88.8**	30	-	120	
74	Ge	1	123527	1.14	283600	**43.6**	30	-	120	
74	Ge	2	377863	0.86	422600	**89.4**	30	-	120	
74	Ge	3	1563569	1.70	1674000	**93.4**	30	-	120	
103	Rh	2	708478	0.79	814900	**86.9**	30	-	120	
103	Rh	3	1419264	1.01	1535000	**92.5**	30	-	120	
165	Ho	3	3070665	0.96	3236000	**94.9**	30	-	120	
175	Lu	3	3408652	0.67	3584000	**95.1**	30	-	120	
209	Bi	3	6916818	0.30	7619000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\169SMPL.D\169SMPL.D#
Date Acquired: May 28 2010 08:18 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.362**	ug/l	13.62	1.5	450	6	P	
23	**Na**	2	**228.400**	ug/l	2,284.00	0.6	450000	45	P	
24	**Mg**	2	**95190.000**	ug/l	951,900.00	0.2	450000	45	A	
27	**Al**	2	**38650.000**	ug/l	386,500.00	0.9	450000	45	A	
31	**P**	2	**758.000**	ug/l	7,580.00	3.4	450000	45	P	
39	**K**	2	**2956.000**	ug/l	29,560.00	1.5	450000	45	A	
44	**Ca**	2	**25150.000**	ug/l	251,500.00	0.3	450000	45	P	
47	**Ti**	2	**455.300**	ug/l	4,553.00	0.9	4500	45	P	
51	**V**	2	**113.800**	ug/l	1,138.00	0.4	4500	45	P	
52	**Cr**	2	**545.800**	ug/l	5,458.00	1.8	4500	45	A	
54	**Fe**	2	**81110.000**	ug/l	811,100.00	1.6	450000	74	A	
55	**Mn**	2	**1428.000**	ug/l	14,280.00	0.1	15000	45	A	
59	**Co**	2	**70.200**	ug/l	702.00	0.8	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.9	15000	45	P	
63	**Cu**	2	**81.610**	ug/l	816.10	1.1	15000	45	P	
66	**Zn**	2	**1968.000**	ug/l	19,680.00	2.3	15000	45	A	
75	**As**	2	**12.380**	ug/l	123.80	2.7	4500	74	P	
78	**Se**	2	**1.333**	ug/l	13.33	60.8	4500	74	P	
88	**Sr**	3	**186.700**	ug/l	1,867.00	1.0	4500	74	A	
95	**Mo**	3	**1.171**	ug/l	11.71	3.2	4500	74	P	
107	**Ag**	3	**0.188**	ug/l	1.88	7.2	450	103	P	
111	**Cd**	3	**3.689**	ug/l	36.89	6.3	900	103	P	
118	**Sn**	3	**7.654**	ug/l	76.54	2.5	4500	103	P	
121	**Sb**	3	**2.022**	ug/l	20.22	3.3	4500	103	P	
135	**Ba**	3	**653.200**	ug/l	6,532.00	2.1	4500	103	P	
200	**Hg**	3	**25.440**	ug/l	254.40	0.9	45	209	P	
205	**Tl**	3	**0.362**	ug/l	3.62	3.1	4500	209	P	
208	**Pb**	3	**98.160**	ug/l	981.60	0.5	4500	209	A	
238	**U**	3	**0.736**	ug/l	7.36	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3993903	1.06	5119000	**78.0**	30	-	120	
45	Sc	1	155269	2.20	341400	**45.5**	30	-	120	
45	Sc	2	257976	0.62	273900	**94.2**	30	-	120	
74	Ge	1	116299	0.85	283600	**41.0**	30	-	120	
74	Ge	2	367668	1.47	422600	**87.0**	30	-	120	
74	Ge	3	1527305	1.13	1674000	**91.2**	30	-	120	
103	Rh	2	684723	1.44	814900	**84.0**	30	-	120	
103	Rh	3	1360782	1.54	1535000	**88.7**	30	-	120	
165	Ho	3	3047485	0.31	3236000	**94.2**	30	-	120	
175	Lu	3	3350152	0.69	3584000	**93.5**	30	-	120	
209	Bi	3	6618285	0.45	7619000	**86.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\170SMPL.D\170SMPL.D#
Date Acquired: May 28 2010 08:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.351**	ug/l	3.51	5.4	450	6	P	
23	**Na**	2	**46.890**	ug/l	468.90	1.3	450000	45	P	
24	**Mg**	2	**191200.000**	ug/l	1,912,000.00	1.4	450000	45	A	
27	**Al**	2	**13660.000**	ug/l	136,600.00	1.8	450000	45	A	
31	**P**	2	**210.900**	ug/l	2,109.00	4.4	450000	45	P	
39	**K**	2	**704.000**	ug/l	7,040.00	1.4	450000	45	P	
44	**Ca**	2	**28450.000**	ug/l	284,500.00	0.7	450000	45	P	
47	**Ti**	2	**145.100**	ug/l	1,451.00	1.5	4500	45	P	
51	**V**	2	**65.820**	ug/l	658.20	0.5	4500	45	P	
52	**Cr**	2	**1224.000**	ug/l	12,240.00	0.3	4500	45	A	
54	**Fe**	2	**79890.000**	ug/l	798,900.00	0.4	450000	74	A	
55	**Mn**	2	**1391.000**	ug/l	13,910.00	0.4	15000	45	A	
59	**Co**	2	**127.600**	ug/l	1,276.00	0.8	4500	45	P	
60	**Ni**	2	**2414.000**	ug/l	24,140.00	0.5	15000	45	A	
63	**Cu**	2	**29.530**	ug/l	295.30	0.5	15000	45	P	
66	**Zn**	2	**92.840**	ug/l	928.40	0.5	15000	45	P	
75	**As**	2	**4.398**	ug/l	43.98	5.1	4500	74	P	
78	**Se**	2	**-0.044**	ug/l	-0.44	912.4	4500	74	P	
88	**Sr**	3	**403.100**	ug/l	4,031.00	2.0	4500	74	A	
95	**Mo**	3	**0.382**	ug/l	3.82	5.1	4500	74	P	
107	**Ag**	3	**0.034**	ug/l	0.34	32.5	450	103	P	
111	**Cd**	3	**0.204**	ug/l	2.04	21.8	900	103	P	
118	**Sn**	3	**2.690**	ug/l	26.90	3.1	4500	103	P	
121	**Sb**	3	**0.962**	ug/l	9.62	1.2	4500	103	P	
135	**Ba**	3	**261.000**	ug/l	2,610.00	0.5	4500	103	P	
200	**Hg**	3	**63.080**	ug/l	630.80	0.5	45	209	P	Fail
205	**Tl**	3	**0.322**	ug/l	3.22	1.2	4500	209	P	
208	**Pb**	3	**17.590**	ug/l	175.90	1.0	4500	209	P	
238	**U**	3	**0.290**	ug/l	2.90	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3925182	1.37	5119000	**76.7**	30	-	120	
45	Sc	1	156985	0.35	341400	**46.0**	30	-	120	
45	Sc	2	243285	0.48	273900	**88.8**	30	-	120	
74	Ge	1	117364	0.67	283600	**41.4**	30	-	120	
74	Ge	2	357228	0.82	422600	**84.5**	30	-	120	
74	Ge	3	1491792	1.26	1674000	**89.1**	30	-	120	
103	Rh	2	663056	0.69	814900	**81.4**	30	-	120	
103	Rh	3	1329632	0.21	1535000	**86.6**	30	-	120	
165	Ho	3	2971859	1.21	3236000	**91.8**	30	-	120	
175	Lu	3	3247560	0.82	3584000	**90.6**	30	-	120	
209	Bi	3	6451778	0.49	7619000	**84.7**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\171SMPL.D\171SMPL.D#
Date Acquired: May 28 2010 08:32 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.032**	ug/l	10.32	0.8	450	6	P	
23	**Na**	2	**181.600**	ug/l	1,816.00	0.8	450000	45	P	
24	**Mg**	2	**111300.000**	ug/l	1,113,000.00	1.3	450000	45	A	
27	**Al**	2	**41200.000**	ug/l	412,000.00	1.6	450000	45	A	
31	**P**	2	**621.300**	ug/l	6,213.00	4.3	450000	45	P	
39	**K**	2	**2378.000**	ug/l	23,780.00	2.1	450000	45	A	
44	**Ca**	2	**34290.000**	ug/l	342,900.00	0.9	450000	45	P	
47	**Ti**	2	**198.600**	ug/l	1,986.00	0.6	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.7	4500	45	P	
52	**Cr**	2	**703.000**	ug/l	7,030.00	0.8	4500	45	A	
54	**Fe**	2	**86330.000**	ug/l	863,300.00	1.6	450000	74	A	
55	**Mn**	2	**1360.000**	ug/l	13,600.00	0.5	15000	45	A	
59	**Co**	2	**81.370**	ug/l	813.70	0.7	4500	45	P	
60	**Ni**	2	**1331.000**	ug/l	13,310.00	1.2	15000	45	A	
63	**Cu**	2	**59.450**	ug/l	594.50	1.9	15000	45	P	
66	**Zn**	2	**131.500**	ug/l	1,315.00	0.7	15000	45	P	
75	**As**	2	**12.260**	ug/l	122.60	3.0	4500	74	P	
78	**Se**	2	**0.277**	ug/l	2.77	283.2	4500	74	P	
88	**Sr**	3	**289.100**	ug/l	2,891.00	0.8	4500	74	A	
95	**Mo**	3	**1.121**	ug/l	11.21	6.0	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	9.4	450	103	P	
111	**Cd**	3	**0.259**	ug/l	2.59	9.0	900	103	P	
118	**Sn**	3	**1.727**	ug/l	17.27	6.9	4500	103	P	
121	**Sb**	3	**1.446**	ug/l	14.46	4.0	4500	103	P	
135	**Ba**	3	**652.100**	ug/l	6,521.00	2.6	4500	103	P	
200	**Hg**	3	**15.620**	ug/l	156.20	1.4	45	209	P	
205	**Tl**	3	**0.405**	ug/l	4.05	2.7	4500	209	P	
208	**Pb**	3	**16.360**	ug/l	163.60	0.7	4500	209	P	
238	**U**	3	**0.588**	ug/l	5.88	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3917679	1.90	5119000	**76.5**	30	-	120	
45	Sc	1	162252	1.43	341400	**47.5**	30	-	120	
45	Sc	2	263240	0.85	273900	**96.1**	30	-	120	
74	Ge	1	118325	0.85	283600	**41.7**	30	-	120	
74	Ge	2	371908	1.08	422600	**88.0**	30	-	120	
74	Ge	3	1541195	0.91	1674000	**92.1**	30	-	120	
103	Rh	2	687533	0.70	814900	**84.4**	30	-	120	
103	Rh	3	1380082	1.84	1535000	**89.9**	30	-	120	
165	Ho	3	3061996	0.29	3236000	**94.6**	30	-	120	
175	Lu	3	3376003	0.97	3584000	**94.2**	30	-	120	
209	Bi	3	6635069	0.28	7619000	**87.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\172SMPL.D\172SMPL.D#
Date Acquired: May 28 2010 08:39 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.930**	ug/l	51.93	1.2	450	6	P	
23	**Na**	2	**5004.000**	ug/l	5,004.00	3.2	450000	45	A	
24	**Mg**	2	**5162.000**	ug/l	5,162.00	1.4	450000	45	A	
27	**Al**	2	**504.900**	ug/l	504.90	1.8	450000	45	P	
31	**P**	2	**4947.000**	ug/l	4,947.00	2.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.7	450000	45	A	
44	**Ca**	2	**5223.000**	ug/l	5,223.00	2.0	450000	45	P	
47	**Ti**	2	**52.870**	ug/l	52.87	2.9	4500	45	P	
51	**V**	2	**53.390**	ug/l	53.39	1.1	4500	45	P	
52	**Cr**	2	**54.070**	ug/l	54.07	1.8	4500	45	P	
54	**Fe**	2	**5233.000**	ug/l	5,233.00	0.4	450000	74	P	
55	**Mn**	2	**53.990**	ug/l	53.99	0.9	15000	45	P	
59	**Co**	2	**54.840**	ug/l	54.84	1.0	4500	45	P	
60	**Ni**	2	**55.400**	ug/l	55.40	3.8	15000	45	P	
63	**Cu**	2	**56.070**	ug/l	56.07	0.4	15000	45	P	
66	**Zn**	2	**54.840**	ug/l	54.84	2.9	15000	45	P	
75	**As**	2	**51.710**	ug/l	51.71	0.6	4500	74	P	
78	**Se**	2	**51.780**	ug/l	51.78	4.5	4500	74	P	
88	**Sr**	3	**52.840**	ug/l	52.84	0.4	4500	74	P	
95	**Mo**	3	**53.070**	ug/l	53.07	2.6	4500	74	P	
107	**Ag**	3	**51.670**	ug/l	51.67	0.3	450	103	P	
111	**Cd**	3	**51.130**	ug/l	51.13	1.4	900	103	P	
118	**Sn**	3	**51.600**	ug/l	51.60	1.1	4500	103	P	
121	**Sb**	3	**51.490**	ug/l	51.49	0.8	4500	103	P	
135	**Ba**	3	**52.470**	ug/l	52.47	0.8	4500	103	P	
200	**Hg**	3	**9.563**	ug/l	9.56	0.9	45	209	P	
205	**Tl**	3	**52.440**	ug/l	52.44	1.4	4500	209	P	
208	**Pb**	3	**53.310**	ug/l	53.31	1.2	4500	209	P	
238	**U**	3	**52.470**	ug/l	52.47	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4136939	0.58	5119000	**80.8**	30	-	120	
45	Sc	1	153345	1.29	341400	**44.9**	30	-	120	
45	Sc	2	233780	1.25	273900	**85.4**	30	-	120	
74	Ge	1	129268	0.95	283600	**45.6**	30	-	120	
74	Ge	2	384148	0.75	422600	**90.9**	30	-	120	
74	Ge	3	1634266	0.80	1674000	**97.6**	30	-	120	
103	Rh	2	739694	0.99	814900	**90.8**	30	-	120	
103	Rh	3	1478270	1.85	1535000	**96.3**	30	-	120	
165	Ho	3	3157693	0.85	3236000	**97.6**	30	-	120	
175	Lu	3	3479251	0.85	3584000	**97.1**	30	-	120	
209	Bi	3	7212707	0.53	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\173SMPL.D\173SMPL.D#
Date Acquired: May 28 2010 08:46 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	24.6	450	6	P	
23	**Na**	2	**-12.140**	ug/l	-12.14	11.6	450000	45	P	
24	**Mg**	2	**7.729**	ug/l	7.73	8.5	450000	45	P	
27	**Al**	2	**1.762**	ug/l	1.76	13.9	450000	45	P	
31	**P**	2	**-8.212**	ug/l	-8.21	49.3	450000	45	P	
39	**K**	2	**-5.435**	ug/l	-5.44	75.7	450000	45	P	
44	**Ca**	2	**4.150**	ug/l	4.15	31.9	450000	45	P	
47	**Ti**	2	**0.054**	ug/l	0.05	62.6	4500	45	P	
51	**V**	2	**-0.134**	ug/l	-0.13	7.4	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	129.6	4500	45	P	
54	**Fe**	2	**4.876**	ug/l	4.88	3.6	450000	74	P	
55	**Mn**	2	**0.085**	ug/l	0.09	15.6	15000	45	P	
59	**Co**	2	**0.021**	ug/l	0.02	1.6	4500	45	P	
60	**Ni**	2	**0.058**	ug/l	0.06	99.7	15000	45	P	
63	**Cu**	2	**0.024**	ug/l	0.02	40.9	15000	45	P	
66	**Zn**	2	**0.180**	ug/l	0.18	10.6	15000	45	P	
75	**As**	2	**-0.086**	ug/l	-0.09	22.0	4500	74	P	
78	**Se**	2	**-0.430**	ug/l	-0.43	86.9	4500	74	P	
88	**Sr**	3	**0.020**	ug/l	0.02	19.4	4500	74	P	
95	**Mo**	3	**0.020**	ug/l	0.02	16.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	56.2	450	103	P	
111	**Cd**	3	**0.020**	ug/l	0.02	85.0	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.04	37.3	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	54.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	54.5	4500	103	P	
200	**Hg**	3	**6.459**	ug/l	6.46	2.3	45	209	P	
205	**Tl**	3	**0.383**	ug/l	0.38	6.9	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	5.0	4500	209	P	
238	**U**	3	**0.013**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4208331	1.83	5119000	**82.2**	30	-	120	
45	Sc	1	147054	1.88	341400	**43.1**	30	-	120	
45	Sc	2	240102	0.77	273900	**87.7**	30	-	120	
74	Ge	1	125423	0.60	283600	**44.2**	30	-	120	
74	Ge	2	394301	1.43	422600	**93.3**	30	-	120	
74	Ge	3	1603236	0.85	1674000	**95.8**	30	-	120	
103	Rh	2	769707	0.99	814900	**94.5**	30	-	120	
103	Rh	3	1490579	0.96	1535000	**97.1**	30	-	120	
165	Ho	3	3124457	0.99	3236000	**96.6**	30	-	120	
175	Lu	3	3466781	1.59	3584000	**96.7**	30	-	120	
209	Bi	3	7397250	1.23	7619000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\174SMPL.D\174SMPL.D#
Date Acquired: May 28 2010 08:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.846**	ug/l	0.85	0.7	450	6	P	
23	**Na**	2	**108.600**	ug/l	108.60	22.4	450000	45	P	
24	**Mg**	2	**35530.000**	ug/l	35,530.00	0.8	450000	45	A	
27	**Al**	2	**27090.000**	ug/l	27,090.00	1.2	450000	45	A	
31	**P**	2	**965.200**	ug/l	965.20	1.0	450000	45	P	
39	**K**	2	**2474.000**	ug/l	2,474.00	1.1	450000	45	A	
44	**Ca**	2	**7561.000**	ug/l	7,561.00	1.3	450000	45	P	
47	**Ti**	2	**538.600**	ug/l	538.60	0.3	4500	45	P	
51	**V**	2	**80.080**	ug/l	80.08	0.9	4500	45	P	
52	**Cr**	2	**315.800**	ug/l	315.80	0.5	4500	45	P	
54	**Fe**	2	**59660.000**	ug/l	59,660.00	0.5	450000	74	A	
55	**Mn**	2	**1165.000**	ug/l	1,165.00	1.5	15000	45	A	
59	**Co**	2	**53.420**	ug/l	53.42	0.3	4500	45	P	
60	**Ni**	2	**586.500**	ug/l	586.50	0.6	15000	45	P	
63	**Cu**	2	**53.560**	ug/l	53.56	0.6	15000	45	P	
66	**Zn**	2	**151.200**	ug/l	151.20	1.6	15000	45	P	
75	**As**	2	**10.580**	ug/l	10.58	0.2	4500	74	P	
78	**Se**	2	**0.228**	ug/l	0.23	104.6	4500	74	P	
88	**Sr**	3	**71.590**	ug/l	71.59	0.7	4500	74	P	
95	**Mo**	3	**0.995**	ug/l	1.00	8.5	4500	74	P	
107	**Ag**	3	**0.107**	ug/l	0.11	26.7	450	103	P	
111	**Cd**	3	**0.308**	ug/l	0.31	9.9	900	103	P	
118	**Sn**	3	**1.136**	ug/l	1.14	6.1	4500	103	P	
121	**Sb**	3	**0.974**	ug/l	0.97	4.9	4500	103	P	
135	**Ba**	3	**388.700**	ug/l	388.70	1.3	4500	103	P	
200	**Hg**	3	**68.750**	ug/l	68.75	0.9	45	209	P	Fail
205	**Tl**	3	**0.370**	ug/l	0.37	1.1	4500	209	P	
208	**Pb**	3	**21.500**	ug/l	21.50	1.0	4500	209	P	
238	**U**	3	**0.352**	ug/l	0.35	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4155766	0.87	5119000	**81.2**	30	-	120	
45	Sc	1	143635	0.45	341400	**42.1**	30	-	120	
45	Sc	2	256377	1.12	273900	**93.6**	30	-	120	
74	Ge	1	111986	0.68	283600	**39.5**	30	-	120	
74	Ge	2	388258	1.05	422600	**91.9**	30	-	120	
74	Ge	3	1606547	0.74	1674000	**96.0**	30	-	120	
103	Rh	2	722605	1.19	814900	**88.7**	30	-	120	
103	Rh	3	1429041	1.61	1535000	**93.1**	30	-	120	
165	Ho	3	3111144	0.92	3236000	**96.1**	30	-	120	
175	Lu	3	3448388	1.81	3584000	**96.2**	30	-	120	
209	Bi	3	6917126	0.26	7619000	**90.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\175SMPL.D\175SMPL.D#
Date Acquired: May 28 2010 09:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.900**	ug/l	0.90	6.1	450	6	P	
23	**Na**	2	**68.610**	ug/l	68.61	15.1	450000	45	P	
24	**Mg**	2	**106400.000**	ug/l	106,400.00	1.8	450000	45	A	
27	**Al**	2	**31440.000**	ug/l	31,440.00	1.4	450000	45	A	
31	**P**	2	**689.900**	ug/l	689.90	0.6	450000	45	P	
39	**K**	2	**1727.000**	ug/l	1,727.00	2.7	450000	45	P	
44	**Ca**	2	**6929.000**	ug/l	6,929.00	1.1	450000	45	P	
47	**Ti**	2	**505.800**	ug/l	505.80	2.5	4500	45	P	
51	**V**	2	**100.300**	ug/l	100.30	1.7	4500	45	P	
52	**Cr**	2	**741.000**	ug/l	741.00	1.7	4500	45	A	
54	**Fe**	2	**81490.000**	ug/l	81,490.00	1.3	450000	74	A	
55	**Mn**	2	**1484.000**	ug/l	1,484.00	1.8	15000	45	A	
59	**Co**	2	**107.200**	ug/l	107.20	1.7	4500	45	P	
60	**Ni**	2	**1517.000**	ug/l	1,517.00	1.0	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	68.37	1.4	15000	45	P	
66	**Zn**	2	**135.400**	ug/l	135.40	3.0	15000	45	P	
75	**As**	2	**13.080**	ug/l	13.08	2.3	4500	74	P	
78	**Se**	2	**0.276**	ug/l	0.28	94.5	4500	74	P	
88	**Sr**	3	**82.830**	ug/l	82.83	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	0.88	1.7	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	0.16	16.3	450	103	P	
111	**Cd**	3	**0.319**	ug/l	0.32	8.8	900	103	P	
118	**Sn**	3	**1.943**	ug/l	1.94	3.7	4500	103	P	
121	**Sb**	3	**1.261**	ug/l	1.26	2.1	4500	103	P	
135	**Ba**	3	**313.400**	ug/l	313.40	0.8	4500	103	P	
200	**Hg**	3	**149.700**	ug/l	149.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	0.33	2.6	4500	209	P	
208	**Pb**	3	**28.670**	ug/l	28.67	1.5	4500	209	P	
238	**U**	3	**0.548**	ug/l	0.55	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3855398	1.07	5119000	**75.3**	30	-	120	
45	Sc	1	145109	0.13	341400	**42.5**	30	-	120	
45	Sc	2	248589	1.62	273900	**90.8**	30	-	120	
74	Ge	1	111267	0.41	283600	**39.2**	30	-	120	
74	Ge	2	370753	1.42	422600	**87.7**	30	-	120	
74	Ge	3	1552590	0.30	1674000	**92.7**	30	-	120	
103	Rh	2	689289	1.23	814900	**84.6**	30	-	120	
103	Rh	3	1385354	0.81	1535000	**90.3**	30	-	120	
165	Ho	3	3101504	1.75	3236000	**95.8**	30	-	120	
175	Lu	3	3398121	0.92	3584000	**94.8**	30	-	120	
209	Bi	3	6674756	0.31	7619000	**87.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\176SMPL.D\176SMPL.D#
Date Acquired: May 28 2010 09:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.689**	ug/l	0.69	3.3	450	6	P	
23	**Na**	2	**28.770**	ug/l	28.77	8.9	450000	45	P	
24	**Mg**	2	**105500.000**	ug/l	105,500.00	0.9	450000	45	A	
27	**Al**	2	**22340.000**	ug/l	22,340.00	1.5	450000	45	A	
31	**P**	2	**668.100**	ug/l	668.10	1.4	450000	45	P	
39	**K**	2	**1445.000**	ug/l	1,445.00	1.0	450000	45	P	
44	**Ca**	2	**3927.000**	ug/l	3,927.00	1.6	450000	45	P	
47	**Ti**	2	**409.300**	ug/l	409.30	0.3	4500	45	P	
51	**V**	2	**72.850**	ug/l	72.85	0.4	4500	45	P	
52	**Cr**	2	**648.500**	ug/l	648.50	1.1	4500	45	A	
54	**Fe**	2	**69230.000**	ug/l	69,230.00	0.3	450000	74	A	
55	**Mn**	2	**1138.000**	ug/l	1,138.00	0.2	15000	45	A	
59	**Co**	2	**79.900**	ug/l	79.90	0.4	4500	45	P	
60	**Ni**	2	**1222.000**	ug/l	1,222.00	1.7	15000	45	A	
63	**Cu**	2	**45.230**	ug/l	45.23	0.7	15000	45	P	
66	**Zn**	2	**132.800**	ug/l	132.80	0.9	15000	45	P	
75	**As**	2	**8.724**	ug/l	8.72	2.1	4500	74	P	
78	**Se**	2	**0.203**	ug/l	0.20	200.1	4500	74	P	
88	**Sr**	3	**22.070**	ug/l	22.07	0.8	4500	74	P	
95	**Mo**	3	**0.618**	ug/l	0.62	4.7	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.07	22.3	450	103	P	
111	**Cd**	3	**0.220**	ug/l	0.22	15.5	900	103	P	
118	**Sn**	3	**1.511**	ug/l	1.51	4.5	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	0.79	5.6	4500	103	P	
135	**Ba**	3	**197.400**	ug/l	197.40	1.9	4500	103	P	
200	**Hg**	3	**221.700**	ug/l	221.70	1.7	45	209	P	Fail
205	**Tl**	3	**0.179**	ug/l	0.18	3.0	4500	209	P	
208	**Pb**	3	**21.260**	ug/l	21.26	1.5	4500	209	P	
238	**U**	3	**0.288**	ug/l	0.29	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3859710	3.45	5119000	**75.4**	30	-	120	
45	Sc	1	136630	2.31	341400	**40.0**	30	-	120	
45	Sc	2	242822	1.15	273900	**88.7**	30	-	120	
74	Ge	1	104527	2.89	283600	**36.9**	30	-	120	
74	Ge	2	366560	1.01	422600	**86.7**	30	-	120	
74	Ge	3	1559610	0.92	1674000	**93.2**	30	-	120	
103	Rh	2	694750	1.81	814900	**85.3**	30	-	120	
103	Rh	3	1398105	1.68	1535000	**91.1**	30	-	120	
165	Ho	3	3097289	0.68	3236000	**95.7**	30	-	120	
175	Lu	3	3376974	1.03	3584000	**94.2**	30	-	120	
209	Bi	3	6738178	2.14	7619000	**88.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\177SMPL.D\177SMPL.D#
Date Acquired: May 28 2010 09:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	23.7	450	6	P	
23	**Na**	2	**34.320**	ug/l	34.32	7.4	450000	45	P	
24	**Mg**	2	**394700.000**	ug/l	394,700.00	1.4	450000	45	A	
27	**Al**	2	**1459.000**	ug/l	1,459.00	0.4	450000	45	P	
31	**P**	2	**52.740**	ug/l	52.74	6.0	450000	45	P	
39	**K**	2	**58.660**	ug/l	58.66	8.1	450000	45	P	
44	**Ca**	2	**290.400**	ug/l	290.40	6.5	450000	45	P	
47	**Ti**	2	**16.540**	ug/l	16.54	2.6	4500	45	P	
51	**V**	2	**15.750**	ug/l	15.75	1.1	4500	45	P	
52	**Cr**	2	**784.600**	ug/l	784.60	1.7	4500	45	A	
54	**Fe**	2	**99470.000**	ug/l	99,470.00	0.9	450000	74	A	
55	**Mn**	2	**1562.000**	ug/l	1,562.00	0.9	15000	45	A	
59	**Co**	2	**201.300**	ug/l	201.30	0.2	4500	45	P	
60	**Ni**	2	**3866.000**	ug/l	3,866.00	0.5	15000	45	A	
63	**Cu**	2	**17.400**	ug/l	17.40	1.4	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	46.53	1.3	15000	45	P	
75	**As**	2	**0.405**	ug/l	0.41	8.9	4500	74	P	
78	**Se**	2	**-0.116**	ug/l	-0.12	491.8	4500	74	P	
88	**Sr**	3	**1.859**	ug/l	1.86	1.4	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.05	35.8	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	71.1	450	103	P	
111	**Cd**	3	**0.030**	ug/l	0.03	61.4	900	103	P	
118	**Sn**	3	**0.140**	ug/l	0.14	12.6	4500	103	P	
121	**Sb**	3	**0.088**	ug/l	0.09	14.8	4500	103	P	
135	**Ba**	3	**8.876**	ug/l	8.88	5.3	4500	103	P	
200	**Hg**	3	**14.400**	ug/l	14.40	1.5	45	209	P	
205	**Tl**	3	**0.088**	ug/l	0.09	10.7	4500	209	P	
208	**Pb**	3	**4.998**	ug/l	5.00	0.8	4500	209	P	
238	**U**	3	**0.014**	ug/l	0.01	3.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3822408	0.63	5119000	**74.7**	30	-	120	
45	Sc	1	136148	0.89	341400	**39.9**	30	-	120	
45	Sc	2	233393	0.72	273900	**85.2**	30	-	120	
74	Ge	1	105309	2.21	283600	**37.1**	30	-	120	
74	Ge	2	349143	0.72	422600	**82.6**	30	-	120	
74	Ge	3	1463659	0.70	1674000	**87.4**	30	-	120	
103	Rh	2	641858	0.52	814900	**78.8**	30	-	120	
103	Rh	3	1302936	1.49	1535000	**84.9**	30	-	120	
165	Ho	3	2899267	0.84	3236000	**89.6**	30	-	120	
175	Lu	3	3228204	0.24	3584000	**90.1**	30	-	120	
209	Bi	3	6244323	0.94	7619000	**82.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\178SMPL.D\178SMPL.D#
Date Acquired: May 28 2010 09:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.718**	ug/l	0.72	3.9	450	6	P	
23	**Na**	2	**32.040**	ug/l	32.04	6.3	450000	45	P	
24	**Mg**	2	**95950.000**	ug/l	95,950.00	1.5	450000	45	A	
27	**Al**	2	**9729.000**	ug/l	9,729.00	0.6	450000	45	A	
31	**P**	2	**376.500**	ug/l	376.50	6.9	450000	45	P	
39	**K**	2	**564.100**	ug/l	564.10	2.0	450000	45	P	
44	**Ca**	2	**1422.000**	ug/l	1,422.00	2.0	450000	45	P	
47	**Ti**	2	**125.300**	ug/l	125.30	1.0	4500	45	P	
51	**V**	2	**57.010**	ug/l	57.01	2.1	4500	45	P	
52	**Cr**	2	**972.600**	ug/l	972.60	1.6	4500	45	A	
54	**Fe**	2	**136800.000**	ug/l	136,800.00	0.3	450000	74	A	
55	**Mn**	2	**2102.000**	ug/l	2,102.00	1.0	15000	45	A	
59	**Co**	2	**264.600**	ug/l	264.60	1.2	4500	45	P	
60	**Ni**	2	**5143.000**	ug/l	5,143.00	1.4	15000	45	A	
63	**Cu**	2	**30.520**	ug/l	30.52	0.7	15000	45	P	
66	**Zn**	2	**92.810**	ug/l	92.81	0.4	15000	45	P	
75	**As**	2	**3.484**	ug/l	3.48	2.4	4500	74	P	
78	**Se**	2	**0.864**	ug/l	0.86	62.6	4500	74	P	
88	**Sr**	3	**10.270**	ug/l	10.27	2.0	4500	74	P	
95	**Mo**	3	**0.342**	ug/l	0.34	11.9	4500	74	P	
107	**Ag**	3	**0.043**	ug/l	0.04	17.7	450	103	P	
111	**Cd**	3	**0.432**	ug/l	0.43	8.0	900	103	P	
118	**Sn**	3	**0.608**	ug/l	0.61	9.0	4500	103	P	
121	**Sb**	3	**0.843**	ug/l	0.84	2.0	4500	103	P	
135	**Ba**	3	**179.100**	ug/l	179.10	1.6	4500	103	P	
200	**Hg**	3	**88.660**	ug/l	88.66	0.8	45	209	P	Fail
205	**Tl**	3	**0.533**	ug/l	0.53	1.5	4500	209	P	
208	**Pb**	3	**26.920**	ug/l	26.92	1.2	4500	209	P	
238	**U**	3	**0.216**	ug/l	0.22	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3622328	1.08	5119000	**70.8**	30	-	120	
45	Sc	1	126641	0.78	341400	**37.1**	30	-	120	
45	Sc	2	239995	1.12	273900	**87.6**	30	-	120	
74	Ge	1	93157	1.21	283600	**32.8**	30	-	120	
74	Ge	2	354186	0.70	422600	**83.8**	30	-	120	
74	Ge	3	1483047	1.06	1674000	**88.6**	30	-	120	
103	Rh	2	673434	1.34	814900	**82.6**	30	-	120	
103	Rh	3	1327100	2.24	1535000	**86.5**	30	-	120	
165	Ho	3	2982264	0.65	3236000	**92.2**	30	-	120	
175	Lu	3	3312827	1.15	3584000	**92.4**	30	-	120	
209	Bi	3	6574908	0.47	7619000	**86.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\179SMPL.D\179SMPL.D#
Date Acquired: May 28 2010 09:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.759**	ug/l	0.76	5.9	450	6	P	
23	**Na**	2	**55.850**	ug/l	55.85	4.5	450000	45	P	
24	**Mg**	2	**83450.000**	ug/l	83,450.00	0.6	450000	45	A	
27	**Al**	2	**37540.000**	ug/l	37,540.00	0.5	450000	45	A	
31	**P**	2	**1042.000**	ug/l	1,042.00	5.1	450000	45	P	
39	**K**	2	**1715.000**	ug/l	1,715.00	0.9	450000	45	P	
44	**Ca**	2	**6665.000**	ug/l	6,665.00	0.5	450000	45	P	
47	**Ti**	2	**1019.000**	ug/l	1,019.00	0.5	4500	45	P	
51	**V**	2	**101.300**	ug/l	101.30	0.6	4500	45	P	
52	**Cr**	2	**595.900**	ug/l	595.90	0.9	4500	45	A	
54	**Fe**	2	**84600.000**	ug/l	84,600.00	0.8	450000	74	A	
55	**Mn**	2	**1893.000**	ug/l	1,893.00	0.2	15000	45	A	
59	**Co**	2	**74.010**	ug/l	74.01	0.4	4500	45	P	
60	**Ni**	2	**899.800**	ug/l	899.80	0.4	15000	45	P	
63	**Cu**	2	**87.260**	ug/l	87.26	0.4	15000	45	P	
66	**Zn**	2	**152.800**	ug/l	152.80	1.3	15000	45	P	
75	**As**	2	**15.480**	ug/l	15.48	1.7	4500	74	P	
78	**Se**	2	**0.674**	ug/l	0.67	121.3	4500	74	P	
88	**Sr**	3	**33.660**	ug/l	33.66	0.2	4500	74	P	
95	**Mo**	3	**1.378**	ug/l	1.38	7.1	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	0.14	3.0	450	103	P	
111	**Cd**	3	**0.358**	ug/l	0.36	3.9	900	103	P	
118	**Sn**	3	**0.552**	ug/l	0.55	7.0	4500	103	P	
121	**Sb**	3	**1.008**	ug/l	1.01	3.0	4500	103	P	
135	**Ba**	3	**361.900**	ug/l	361.90	0.7	4500	103	P	
200	**Hg**	3	**20.090**	ug/l	20.09	0.5	45	209	P	
205	**Tl**	3	**0.173**	ug/l	0.17	3.7	4500	209	P	
208	**Pb**	3	**26.690**	ug/l	26.69	0.2	4500	209	P	
238	**U**	3	**0.385**	ug/l	0.39	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3866873	0.71	5119000	**75.5**	30	-	120	
45	Sc	1	132702	2.34	341400	**38.9**	30	-	120	
45	Sc	2	235722	0.16	273900	**86.1**	30	-	120	
74	Ge	1	104563	1.60	283600	**36.9**	30	-	120	
74	Ge	2	356761	0.63	422600	**84.4**	30	-	120	
74	Ge	3	1531676	1.41	1674000	**91.5**	30	-	120	
103	Rh	2	676401	0.94	814900	**83.0**	30	-	120	
103	Rh	3	1391240	0.60	1535000	**90.6**	30	-	120	
165	Ho	3	3050217	0.51	3236000	**94.3**	30	-	120	
175	Lu	3	3385704	0.92	3584000	**94.5**	30	-	120	
209	Bi	3	6711011	0.38	7619000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\180SMPL.D\180SMPL.D#
Date Acquired: May 28 2010 09:36 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.800**	ug/l	50.80	0.2	450	6	P	
23	**Na**	2	**4995.000**	ug/l	4,995.00	1.3	450000	45	A	
24	**Mg**	2	**4982.000**	ug/l	4,982.00	1.3	450000	45	A	
27	**Al**	2	**493.600**	ug/l	493.60	0.6	450000	45	P	
31	**P**	2	**4743.000**	ug/l	4,743.00	0.6	450000	45	P	
39	**K**	2	**5170.000**	ug/l	5,170.00	0.7	450000	45	A	
44	**Ca**	2	**5172.000**	ug/l	5,172.00	0.9	450000	45	P	
47	**Ti**	2	**52.610**	ug/l	52.61	1.9	4500	45	P	
51	**V**	2	**52.740**	ug/l	52.74	1.6	4500	45	P	
52	**Cr**	2	**53.100**	ug/l	53.10	1.2	4500	45	P	
54	**Fe**	2	**5180.000**	ug/l	5,180.00	1.0	450000	74	P	
55	**Mn**	2	**53.710**	ug/l	53.71	0.9	15000	45	P	
59	**Co**	2	**54.520**	ug/l	54.52	0.7	4500	45	P	
60	**Ni**	2	**55.880**	ug/l	55.88	1.9	15000	45	P	
63	**Cu**	2	**55.810**	ug/l	55.81	1.3	15000	45	P	
66	**Zn**	2	**56.220**	ug/l	56.22	1.6	15000	45	P	
75	**As**	2	**51.540**	ug/l	51.54	0.6	4500	74	P	
78	**Se**	2	**49.320**	ug/l	49.32	2.5	4500	74	P	
88	**Sr**	3	**53.760**	ug/l	53.76	1.6	4500	74	P	
95	**Mo**	3	**53.220**	ug/l	53.22	0.6	4500	74	P	
107	**Ag**	3	**52.040**	ug/l	52.04	1.6	450	103	P	
111	**Cd**	3	**51.990**	ug/l	51.99	1.6	900	103	P	
118	**Sn**	3	**52.760**	ug/l	52.76	0.5	4500	103	P	
121	**Sb**	3	**52.440**	ug/l	52.44	0.4	4500	103	P	
135	**Ba**	3	**54.040**	ug/l	54.04	1.0	4500	103	P	
200	**Hg**	3	**7.637**	ug/l	7.64	1.5	45	209	P	
205	**Tl**	3	**51.840**	ug/l	51.84	1.2	4500	209	P	
208	**Pb**	3	**52.950**	ug/l	52.95	1.1	4500	209	P	
238	**U**	3	**52.690**	ug/l	52.69	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3896397	0.92	5119000	**76.1**	30	-	120	
45	Sc	1	137949	2.11	341400	**40.4**	30	-	120	
45	Sc	2	215826	1.11	273900	**78.8**	30	-	120	
74	Ge	1	115656	0.91	283600	**40.8**	30	-	120	
74	Ge	2	355226	1.35	422600	**84.1**	30	-	120	
74	Ge	3	1511883	1.63	1674000	**90.3**	30	-	120	
103	Rh	2	691815	1.75	814900	**84.9**	30	-	120	
103	Rh	3	1381451	0.68	1535000	**90.0**	30	-	120	
165	Ho	3	3013627	1.31	3236000	**93.1**	30	-	120	
175	Lu	3	3332025	1.10	3584000	**93.0**	30	-	120	
209	Bi	3	7084010	0.53	7619000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\181SMPL.D\181SMPL.D#
Date Acquired: May 28 2010 09:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	27.5	450	6	P	
23	**Na**	2	**-6.599**	ug/l	-6.60	0.6	450000	45	P	
24	**Mg**	2	**6.903**	ug/l	6.90	10.2	450000	45	P	
27	**Al**	2	**1.539**	ug/l	1.54	16.0	450000	45	P	
31	**P**	2	**-4.851**	ug/l	-4.85	89.5	450000	45	P	
39	**K**	2	**8.177**	ug/l	8.18	55.2	450000	45	P	
44	**Ca**	2	**1.091**	ug/l	1.09	112.4	450000	45	P	
47	**Ti**	2	**0.084**	ug/l	0.08	48.9	4500	45	P	
51	**V**	2	**-0.133**	ug/l	-0.13	11.3	4500	45	P	
52	**Cr**	2	**0.072**	ug/l	0.07	63.0	4500	45	P	
54	**Fe**	2	**4.556**	ug/l	4.56	5.4	450000	74	P	
55	**Mn**	2	**0.254**	ug/l	0.25	6.4	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	9.3	4500	45	P	
60	**Ni**	2	**0.094**	ug/l	0.09	42.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	120.6	15000	45	P	
66	**Zn**	2	**0.231**	ug/l	0.23	27.3	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.05	49.7	4500	74	P	
78	**Se**	2	**-0.059**	ug/l	-0.06	1016.0	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.01	66.7	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.02	10.8	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	74.9	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.00	141.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	40.0	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	32.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	96.3	4500	103	P	
200	**Hg**	3	**4.284**	ug/l	4.28	2.1	45	209	P	
205	**Tl**	3	**0.389**	ug/l	0.39	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	14.3	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	19.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3757771	0.11	5119000	**73.4**	30	-	120	
45	Sc	1	145020	2.24	341400	**42.5**	30	-	120	
45	Sc	2	218129	0.90	273900	**79.6**	30	-	120	
74	Ge	1	125244	2.19	283600	**44.2**	30	-	120	
74	Ge	2	367777	0.85	422600	**87.0**	30	-	120	
74	Ge	3	1476464	1.07	1674000	**88.2**	30	-	120	
103	Rh	2	722418	1.09	814900	**88.7**	30	-	120	
103	Rh	3	1394308	1.17	1535000	**90.8**	30	-	120	
165	Ho	3	2966178	1.07	3236000	**91.7**	30	-	120	
175	Lu	3	3333346	1.16	3584000	**93.0**	30	-	120	
209	Bi	3	7194909	0.31	7619000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\182SMPL.D\182SMPL.D#
Date Acquired: May 28 2010 09:50 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	33.0	450	6	P	
23	**Na**	2	**238100.000**	ug/l	238,100.00	1.7	450000	45	A	
24	**Mg**	2	**93380.000**	ug/l	93,380.00	0.3	450000	45	A	
27	**Al**	2	**89830.000**	ug/l	89,830.00	1.2	450000	45	A	
31	**P**	2	**98640.000**	ug/l	98,640.00	0.4	450000	45	A	
39	**K**	2	**99380.000**	ug/l	99,380.00	1.6	450000	45	A	
44	**Ca**	2	**293000.000**	ug/l	293,000.00	0.2	450000	45	A	
47	**Ti**	2	**2083.000**	ug/l	2,083.00	0.6	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	81.0	4500	45	P	
52	**Cr**	2	**1.151**	ug/l	1.15	8.7	4500	45	P	
54	**Fe**	2	**233400.000**	ug/l	233,400.00	1.3	450000	74	A	
55	**Mn**	2	**5.719**	ug/l	5.72	2.5	15000	45	P	
59	**Co**	2	**3.857**	ug/l	3.86	2.4	4500	45	P	
60	**Ni**	2	**2.897**	ug/l	2.90	10.5	15000	45	P	
63	**Cu**	2	**3.873**	ug/l	3.87	2.1	15000	45	P	
66	**Zn**	2	**3.583**	ug/l	3.58	8.9	15000	45	P	
75	**As**	2	**0.414**	ug/l	0.41	7.7	4500	74	P	
78	**Se**	2	**-0.295**	ug/l	-0.29	142.3	4500	74	P	
88	**Sr**	3	**18.410**	ug/l	18.41	2.4	4500	74	P	
95	**Mo**	3	**2179.000**	ug/l	2,179.00	0.4	4500	74	A	
107	**Ag**	3	**0.202**	ug/l	0.20	4.1	450	103	P	
111	**Cd**	3	**0.189**	ug/l	0.19	48.9	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	16.8	4500	103	P	
121	**Sb**	3	**0.726**	ug/l	0.73	4.9	4500	103	P	
135	**Ba**	3	**0.483**	ug/l	0.48	7.4	4500	103	P	
200	**Hg**	3	**3.891**	ug/l	3.89	1.7	45	209	P	
205	**Tl**	3	**0.171**	ug/l	0.17	7.9	4500	209	P	
208	**Pb**	3	**0.287**	ug/l	0.29	3.8	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	27.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3292854	1.69	5119000	**64.3**	30	-	120	
45	Sc	1	132911	0.76	341400	**38.9**	30	-	120	
45	Sc	2	216683	0.40	273900	**79.1**	30	-	120	
74	Ge	1	109168	1.89	283600	**38.5**	30	-	120	
74	Ge	2	343804	1.88	422600	**81.4**	30	-	120	
74	Ge	3	1433327	1.09	1674000	**85.6**	30	-	120	
103	Rh	2	595116	1.76	814900	**73.0**	30	-	120	
103	Rh	3	1258215	0.55	1535000	**82.0**	30	-	120	
165	Ho	3	2847099	0.92	3236000	**88.0**	30	-	120	
175	Lu	3	3139980	0.47	3584000	**87.6**	30	-	120	
209	Bi	3	5951602	0.55	7619000	**78.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\183SMPL.D\183SMPL.D#
Date Acquired: May 28 2010 09:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.6	450	6	P	
23	**Na**	2	**242800.000**	ug/l	242,800.00	0.7	450000	45	A	
24	**Mg**	2	**95850.000**	ug/l	95,850.00	0.6	450000	45	A	
27	**Al**	2	**91890.000**	ug/l	91,890.00	0.6	450000	45	A	
31	**P**	2	**101100.000**	ug/l	101,100.00	0.5	450000	45	A	
39	**K**	2	**101000.000**	ug/l	101,000.00	1.0	450000	45	A	
44	**Ca**	2	**297900.000**	ug/l	297,900.00	0.5	450000	45	A	
47	**Ti**	2	**2081.000**	ug/l	2,081.00	0.9	4500	45	P	
51	**V**	2	**217.700**	ug/l	217.70	1.0	4500	45	P	
52	**Cr**	2	**210.300**	ug/l	210.30	1.0	4500	45	P	
54	**Fe**	2	**234500.000**	ug/l	234,500.00	1.0	450000	74	A	
55	**Mn**	2	**212.400**	ug/l	212.40	1.6	15000	45	P	
59	**Co**	2	**214.000**	ug/l	214.00	1.1	4500	45	P	
60	**Ni**	2	**210.400**	ug/l	210.40	1.2	15000	45	P	
63	**Cu**	2	**205.700**	ug/l	205.70	2.1	15000	45	P	
66	**Zn**	2	**105.100**	ug/l	105.10	0.8	15000	45	P	
75	**As**	2	**112.200**	ug/l	112.20	0.4	4500	74	P	
78	**Se**	2	**111.400**	ug/l	111.40	4.3	4500	74	P	
88	**Sr**	3	**17.890**	ug/l	17.89	0.7	4500	74	P	
95	**Mo**	3	**2128.000**	ug/l	2,128.00	1.1	4500	74	A	
107	**Ag**	3	**52.600**	ug/l	52.60	1.2	450	103	P	
111	**Cd**	3	**108.000**	ug/l	108.00	1.1	900	103	P	
118	**Sn**	3	**0.131**	ug/l	0.13	20.0	4500	103	P	
121	**Sb**	3	**0.763**	ug/l	0.76	2.0	4500	103	P	
135	**Ba**	3	**0.457**	ug/l	0.46	9.2	4500	103	P	
200	**Hg**	3	**3.829**	ug/l	3.83	2.1	45	209	P	
205	**Tl**	3	**0.106**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.297**	ug/l	0.30	1.5	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	50.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3283780	1.11	5119000	**64.1**	30	-	120	
45	Sc	1	130570	1.11	341400	**38.2**	30	-	120	
45	Sc	2	208064	0.25	273900	**76.0**	30	-	120	
74	Ge	1	104915	0.85	283600	**37.0**	30	-	120	
74	Ge	2	332880	0.50	422600	**78.8**	30	-	120	
74	Ge	3	1437990	0.38	1674000	**85.9**	30	-	120	
103	Rh	2	583699	0.21	814900	**71.6**	30	-	120	
103	Rh	3	1234601	0.90	1535000	**80.4**	30	-	120	
165	Ho	3	2829865	0.52	3236000	**87.4**	30	-	120	
175	Lu	3	3119890	0.90	3584000	**87.1**	30	-	120	
209	Bi	3	5925353	0.29	7619000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Step	Mass	Element	r	b(blank)		DL	BEC	Unit	
3	6	Li	0.0000	---	---	---	ug/l		
3	7	Li	0.0000	---	---	---	ug/l		
3	9	Be	1.0000	2.192E-04		2.251E-03		4.174E-03	ug/l
1	45	Sc	0.0000	---	---	---	ug/l		
2	45	Sc	0.0000	---	---	---	ug/l		
2	60	Ni	0.9999	2.488E-02		4.228E-02		1.137E-01	ug/l
2	63	Cu	0.9999	1.986E-02		8.145E-02		3.517E-02	ug/l
2	66	Zn	0.9998	2.602E-02		1.966E-01		2.079E-01	ug/l
1	74	Ge	0.0000	---	---	---	ug/l		
2	74	Ge	0.0000	---	---	---	ug/l		
3	74	Ge	0.0000	---	---	---	ug/l		
2	78	Se	1.0000	3.809E-03		1.038	7.566E-01		ug/l
2	103	Rh	0.0000	---	---	---	ug/l		
3	103	Rh	0.0000	---	---	---	ug/l		
3	165	Ho	0.0000	---	---	---	ug/l		
3	175	Lu	0.0000	---	---	---	ug/l		
3	209	Bi	0.0000	---	---	---	ug/l		

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#
Date Acquired: May 28 2010 11:15 am Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	6852024.0	A	103400.00	1.51
7	Li	3	1044539.0	A	25000.00	2.39
9	Be	3	30.0	P	5.00	16.67
23	Na	2		P		
24	Mg	2		P		
25	Mg	2		P		
26	Mg	2		P		
27	Al	2		P		
31	P	2		P		
39	K	2		P		
40	Ca	1		P		
44	Ca	2		P		
45	Sc	1	249047.2	P	4390.00	1.76
45	Sc	2	274924.8	P	4162.00	1.51
45	Sc	3		A		
47	Ti	2		P		
50	V	2		P		
51	V	2		P		
52	Cr	2		P		
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2		P		
55	Mn	2		P		
56	Fe	1		P		
59	Co	2		P		
60	Ni	2	136.7	P	15.28	11.18
61	Ni	2		P		
63	Cu	2	110.0	P	86.61	78.73
65	Cu	2		P		
66	Zn	2	143.3	P	46.19	32.22
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	197537.8	P	4495.00	2.28
74	Ge	2	437523.8	P	972.60	0.22
74	Ge	3	1769404.0	A	15140.00	0.86
75	As	2		P		
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3		P		
95	Mo	3		P		
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	847182.7	P	8496.00	1.00
103	Rh	3	1573930.0	A	13470.00	0.86
106	(Cd)	3		P		
107	Ag	3		P		
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3		P		
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3		P		
120	Sn	3		P		
121	Sb	3		P		
123	Sb	3		P		
135	Ba	3		P		
137	Ba	3		P		
165	Ho	3	3039897.0	A	38250.00	1.26
175	Lu	3	3394676.0	A	36310.00	1.07
200	Hg	3		P		
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3		P		
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3		P		
209	Bi	3	7066710.0	A	59710.00	0.84
238	U	3		P		

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\007CALS.D\007CALS.D#
Date Acquired: May 28 2010 11:21 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	643.4	P	98.28	15.28
60	Ni	45	2	290.0	P	91.66	31.61
63	Cu	45	2	536.7	P	81.45	15.18
66	Zn	45	2	396.7	P	76.38	19.25
78	Se	74	2	33.3	P	11.55	34.65

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6875725	1.48	6852000	100.3	30 - 120	
45	Sc	1	246272	0.38	249000	98.9	30 - 120	
45	Sc	2	275982	0.90	274900	100.4	30 - 120	
74	Ge	1	196402	1.07	197500	99.4	30 - 120	
74	Ge	2	437485	0.97	437500	100.0	30 - 120	
74	Ge	3	1775634	2.18	1769000	100.4	30 - 120	
103	Rh	2	846870	0.44	847200	100.0	30 - 120	
103	Rh	3	1589874	1.39	1574000	101.0	30 - 120	
165	Ho	3	3088819	0.98	3040000	101.6	30 - 120	
175	Lu	3	3366781	0.36	3395000	99.2	30 - 120	
209	Bi	3	7090975	1.03	7067000	100.3	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\008CALS.D\008CALS.D#
Date Acquired: May 28 2010 11:27 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	7160.4	P	225.10	3.14
60	Ni	45	2	1366.8	P	160.40	11.74
63	Cu	45	2	3447.3	P	155.40	4.51
66	Zn	45	2	926.7	P	176.20	19.01
78	Se	74	2	76.7	P	25.17	32.83

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6895765	0.66	6852000	100.6	30 - 120	
45	Sc	1	245138	1.39	249000	98.4	30 - 120	
45	Sc	2	275890	0.87	274900	100.4	30 - 120	
74	Ge	1	196554	1.21	197500	99.5	30 - 120	
74	Ge	2	434959	0.96	437500	99.4	30 - 120	
74	Ge	3	1775681	0.79	1769000	100.4	30 - 120	
103	Rh	2	844781	1.31	847200	99.7	30 - 120	
103	Rh	3	1584013	0.30	1574000	100.6	30 - 120	
165	Ho	3	3107365	0.50	3040000	102.2	30 - 120	
175	Lu	3	3375344	1.48	3395000	99.4	30 - 120	
209	Bi	3	7060410	0.98	7067000	99.9	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\009CALS.D\009CALS.D#
Date Acquired: May 28 2010 11:33 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	71369.7	P	1202.00	1.68
60	Ni	45	2	12690.3	P	258.40	2.04
63	Cu	45	2	32338.9	P	448.70	1.39
66	Zn	45	2	7049.0	P	272.30	3.86
78	Se	74	2	476.7	P	55.08	11.55

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6794858	2.53	6852000	99.2	30 - 120	
45	Sc	1	250509	2.19	249000	100.6	30 - 120	
45	Sc	2	274178	1.52	274900	99.7	30 - 120	
74	Ge	1	198683	2.01	197500	100.6	30 - 120	
74	Ge	2	433201	1.45	437500	99.0	30 - 120	
74	Ge	3	1766602	0.77	1769000	99.9	30 - 120	
103	Rh	2	829361	1.64	847200	97.9	30 - 120	
103	Rh	3	1582137	1.38	1574000	100.5	30 - 120	
165	Ho	3	3087559	0.77	3040000	101.6	30 - 120	
175	Lu	3	3331358	0.64	3395000	98.1	30 - 120	
209	Bi	3	6963714	0.30	7067000	98.5	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\010CALS.D\010CALS.D#
Date Acquired: May 28 2010 11:39 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	346348.1	P	16500.00	4.76
60	Ni	45	2	61075.0	P	1138.00	1.86
63	Cu	45	2	156975.3	P	1226.00	0.78
66	Zn	45	2	35297.0	P	554.70	1.57
78	Se	74	2	2217.0	P	212.00	9.56

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6673638	0.63	6852000	97.4	30 - 120	
45	Sc	1	245279	2.03	249000	98.5	30 - 120	
45	Sc	2	271267	1.17	274900	98.7	30 - 120	
74	Ge	1	193857	1.78	197500	98.2	30 - 120	
74	Ge	2	427888	0.73	437500	97.8	30 - 120	
74	Ge	3	1798443	0.49	1769000	101.7	30 - 120	
103	Rh	2	809438	0.83	847200	95.5	30 - 120	
103	Rh	3	1554723	0.87	1574000	98.8	30 - 120	
165	Ho	3	3065318	0.37	3040000	100.8	30 - 120	
175	Lu	3	3344053	1.27	3395000	98.5	30 - 120	
209	Bi	3	6863626	0.95	7067000	97.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\011CALS.D\011CALS.D#
Date Acquired: May 28 2010 11:46 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	723496.6	P	2488.00	0.34
60	Ni	45	2	118655.4	P	1609.00	1.36
63	Cu	45	2	306024.0	P	2054.00	0.67
66	Zn	45	2	67783.0	P	253.80	0.37
78	Se	74	2	4330.9	P	55.71	1.29

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6866433	0.65	6852000	100.2	30 - 120	
45	Sc	1	231537	0.44	249000	93.0	30 - 120	
45	Sc	2	272793	1.54	274900	99.2	30 - 120	
74	Ge	1	180315	2.06	197500	91.3	30 - 120	
74	Ge	2	428523	0.34	437500	97.9	30 - 120	
74	Ge	3	1816075	1.65	1769000	102.7	30 - 120	
103	Rh	2	794771	0.34	847200	93.8	30 - 120	
103	Rh	3	1554143	1.48	1574000	98.7	30 - 120	
165	Ho	3	3062756	1.70	3040000	100.7	30 - 120	
175	Lu	3	3342256	1.16	3395000	98.4	30 - 120	
209	Bi	3	6753547	1.57	7067000	95.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\013SMPL.D\013SMPL.D#
Date Acquired: May 28 2010 11:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**39.460**	ug/l	39.46	4.9	450	6	P	
60	**Ni**	2	**40.340**	ug/l	40.34	2.2	15000	45	P	
63	**Cu**	2	**40.690**	ug/l	40.69	1.7	15000	45	P	
66	**Zn**	2	**40.130**	ug/l	40.13	1.4	15000	45	P	
78	**Se**	2	**39.960**	ug/l	39.96	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6754635	1.61	6852000	**98.6**	30	-	120	
45	Sc	1	222657	0.80	249000	**89.4**	30	-	120	
45	Sc	2	275191	1.60	274900	**100.1**	30	-	120	
74	Ge	1	174957	0.53	197500	**88.6**	30	-	120	
74	Ge	2	432739	0.70	437500	**98.9**	30	-	120	
74	Ge	3	1786468	1.56	1769000	**101.0**	30	-	120	
103	Rh	2	818110	1.37	847200	**96.6**	30	-	120	
103	Rh	3	1564471	0.68	1574000	**99.4**	30	-	120	
165	Ho	3	3095713	0.50	3040000	**101.8**	30	-	120	
175	Lu	3	3388224	0.28	3395000	**99.8**	30	-	120	
209	Bi	3	6918586	0.19	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\014SMPL.D\014SMPL.D#
Date Acquired: May 28 2010 12:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.7	450	6	P	
60	**Ni**	2	**-0.025**	ug/l	-0.02	51.5	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	21.6	15000	45	P	
66	**Zn**	2	**0.253**	ug/l	0.25	11.9	15000	45	P	
78	**Se**	2	**-0.154**	ug/l	-0.15	224.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6710438	2.28	6852000	**97.9**	30	-	120	
45	Sc	1	229823	0.99	249000	**92.3**	30	-	120	
45	Sc	2	274759	0.27	274900	**99.9**	30	-	120	
74	Ge	1	179364	0.92	197500	**90.8**	30	-	120	
74	Ge	2	439683	0.59	437500	**100.5**	30	-	120	
74	Ge	3	1760039	0.30	1769000	**99.5**	30	-	120	
103	Rh	2	846512	1.67	847200	**99.9**	30	-	120	
103	Rh	3	1575281	1.34	1574000	**100.1**	30	-	120	
165	Ho	3	3067347	0.30	3040000	**100.9**	30	-	120	
175	Lu	3	3357275	1.26	3395000	**98.9**	30	-	120	
209	Bi	3	7108015	0.47	7067000	**100.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\016SMPL.D\016SMPL.D#
Date Acquired: May 28 2010 12:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.000**	ug/l	2.00	4.9	450	6	P	
60	**Ni**	2	**2.020**	ug/l	2.02	5.3	15000	45	P	
63	**Cu**	2	**2.160**	ug/l	2.16	4.2	15000	45	P	
66	**Zn**	2	**2.134**	ug/l	2.13	10.5	15000	45	P	
78	**Se**	2	**1.896**	ug/l	1.90	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6725151	1.09	6852000	**98.1**	30	-	120	
45	Sc	1	227520	2.10	249000	**91.4**	30	-	120	
45	Sc	2	277942	1.19	274900	**101.1**	30	-	120	
74	Ge	1	177264	1.73	197500	**89.8**	30	-	120	
74	Ge	2	437155	1.40	437500	**99.9**	30	-	120	
74	Ge	3	1756703	1.41	1769000	**99.3**	30	-	120	
103	Rh	2	842834	0.40	847200	**99.5**	30	-	120	
103	Rh	3	1577394	0.54	1574000	**100.2**	30	-	120	
165	Ho	3	3095463	0.43	3040000	**101.8**	30	-	120	
175	Lu	3	3361092	0.79	3395000	**99.0**	30	-	120	
209	Bi	3	7093296	0.33	7067000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\017SMPL.D\017SMPL.D#
Date Acquired: May 28 2010 12:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.01	29.9	450	6	P	
60	**Ni**	2	**2.629**	ug/l	2.63	8.1	15000	45	P	
63	**Cu**	2	**3.738**	ug/l	3.74	4.1	15000	45	P	
66	**Zn**	2	**3.385**	ug/l	3.39	10.1	15000	45	P	
78	**Se**	2	**0.176**	ug/l	0.18	87.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6017988	0.42	6852000	**87.8**	30	-	120	
45	Sc	1	199488	1.36	249000	**80.1**	30	-	120	
45	Sc	2	259394	0.95	274900	**94.4**	30	-	120	
74	Ge	1	144301	1.50	197500	**73.1**	30	-	120	
74	Ge	2	390851	1.74	437500	**89.3**	30	-	120	
74	Ge	3	1628055	0.27	1769000	**92.0**	30	-	120	
103	Rh	2	667290	1.66	847200	**78.8**	30	-	120	
103	Rh	3	1284552	2.77	1574000	**81.6**	30	-	120	
165	Ho	3	2767640	0.58	3040000	**91.0**	30	-	120	
175	Lu	3	3013887	0.24	3395000	**88.8**	30	-	120	
209	Bi	3	5594120	0.11	7067000	**79.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\018SMPL.D\018SMPL.D#
Date Acquired: May 28 2010 12:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.2	450	6	P	
60	**Ni**	2	**194.300**	ug/l	194.30	1.0	15000	45	P	
63	**Cu**	2	**189.700**	ug/l	189.70	0.7	15000	45	P	
66	**Zn**	2	**95.330**	ug/l	95.33	1.8	15000	45	P	
78	**Se**	2	**104.700**	ug/l	104.70	7.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5964549	1.00	6852000	**87.0**	30	-	120	
45	Sc	1	185411	1.03	249000	**74.5**	30	-	120	
45	Sc	2	248678	1.22	274900	**90.5**	30	-	120	
74	Ge	1	132634	1.38	197500	**67.2**	30	-	120	
74	Ge	2	374204	1.68	437500	**85.5**	30	-	120	
74	Ge	3	1588016	0.33	1769000	**89.8**	30	-	120	
103	Rh	2	650980	1.22	847200	**76.8**	30	-	120	
103	Rh	3	1278726	1.85	1574000	**81.2**	30	-	120	
165	Ho	3	2721201	0.61	3040000	**89.5**	30	-	120	
175	Lu	3	2958721	1.10	3395000	**87.1**	30	-	120	
209	Bi	3	5512896	0.35	7067000	**78.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\022SMPL.D\022SMPL.D#
Date Acquired: May 28 2010 12:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.310**	ug/l	50.31	1.0	450	6	P	
60	**Ni**	2	**51.730**	ug/l	51.73	1.7	15000	45	P	
63	**Cu**	2	**51.420**	ug/l	51.42	1.8	15000	45	P	
66	**Zn**	2	**50.780**	ug/l	50.78	1.3	15000	45	P	
78	**Se**	2	**50.470**	ug/l	50.47	3.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6729200	0.74	6852000	**98.2**	30	-	120	
45	Sc	1	234173	1.22	249000	**94.0**	30	-	120	
45	Sc	2	268346	0.45	274900	**97.6**	30	-	120	
74	Ge	1	182672	1.16	197500	**92.5**	30	-	120	
74	Ge	2	422032	1.19	437500	**96.5**	30	-	120	
74	Ge	3	1767132	0.23	1769000	**99.9**	30	-	120	
103	Rh	2	799987	0.73	847200	**94.4**	30	-	120	
103	Rh	3	1517479	0.29	1574000	**96.4**	30	-	120	
165	Ho	3	3056413	1.52	3040000	**100.5**	30	-	120	
175	Lu	3	3343152	0.31	3395000	**98.5**	30	-	120	
209	Bi	3	6688653	0.09	7067000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\023SMPL.D\023SMPL.D#
Date Acquired: May 28 2010 12:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	32.8	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.02	107.9	15000	45	P	
63	**Cu**	2	**0.036**	ug/l	0.04	34.3	15000	45	P	
66	**Zn**	2	**0.298**	ug/l	0.30	38.0	15000	45	P	
78	**Se**	2	**0.969**	ug/l	0.97	51.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6857350	3.63	6852000	**100.1**	30	-	120	
45	Sc	1	229013	1.97	249000	**92.0**	30	-	120	
45	Sc	2	268553	1.03	274900	**97.7**	30	-	120	
74	Ge	1	179280	1.41	197500	**90.8**	30	-	120	
74	Ge	2	422625	1.58	437500	**96.6**	30	-	120	
74	Ge	3	1732039	1.85	1769000	**97.9**	30	-	120	
103	Rh	2	822887	0.77	847200	**97.1**	30	-	120	
103	Rh	3	1562786	1.19	1574000	**99.3**	30	-	120	
165	Ho	3	3020054	1.29	3040000	**99.3**	30	-	120	
175	Lu	3	3307714	0.98	3395000	**97.4**	30	-	120	
209	Bi	3	6943521	1.43	7067000	**98.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\024SMPL.D\024SMPL.D#
Date Acquired: May 28 2010 01:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.11	76.9	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.20	183.0	15000	45	P	
63	**Cu**	2	**0.014**	ug/l	0.14	98.8	15000	45	P	
66	**Zn**	2	**0.081**	ug/l	0.81	126.6	15000	45	P	
78	**Se**	2	**-0.290**	ug/l	-2.90	78.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6657581	0.89	6852000	**97.2**	30	-	120	
45	Sc	1	231349	1.20	249000	**92.9**	30	-	120	
45	Sc	2	267565	1.03	274900	**97.3**	30	-	120	
74	Ge	1	180960	0.31	197500	**91.6**	30	-	120	
74	Ge	2	424470	2.09	437500	**97.0**	30	-	120	
74	Ge	3	1746968	0.52	1769000	**98.8**	30	-	120	
103	Rh	2	816622	1.21	847200	**96.4**	30	-	120	
103	Rh	3	1529071	1.02	1574000	**97.1**	30	-	120	
165	Ho	3	3016410	1.11	3040000	**99.2**	30	-	120	
175	Lu	3	3260006	2.01	3395000	**96.0**	30	-	120	
209	Bi	3	6838174	0.43	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\025SMPL.D\025SMPL.D#
Date Acquired: May 28 2010 01:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.354**	ug/l	17.70	3.9	450	6	P	
60	**Ni**	2	**122.200**	ug/l	6,110.00	2.0	15000	45	P	
63	**Cu**	2	**21.080**	ug/l	1,054.00	1.9	15000	45	P	
66	**Zn**	2	**35.090**	ug/l	1,754.50	2.7	15000	45	P	
78	**Se**	2	**0.139**	ug/l	6.97	438.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6966793	2.09	6852000	**101.7**	30	-	120	
45	Sc	1	230015	0.97	249000	**92.4**	30	-	120	
45	Sc	2	268071	1.05	274900	**97.5**	30	-	120	
74	Ge	1	175021	0.90	197500	**88.6**	30	-	120	
74	Ge	2	405838	0.72	437500	**92.8**	30	-	120	
74	Ge	3	1727909	1.28	1769000	**97.7**	30	-	120	
103	Rh	2	764375	1.00	847200	**90.2**	30	-	120	
103	Rh	3	1490686	0.61	1574000	**94.7**	30	-	120	
165	Ho	3	2946037	0.04	3040000	**96.9**	30	-	120	
175	Lu	3	3176265	0.77	3395000	**93.6**	30	-	120	
209	Bi	3	6528461	0.75	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\026SMPL.D\026SMPL.D#
Date Acquired: May 28 2010 01:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.717**	ug/l	17.17	0.6	450	6	P	
60	**Ni**	2	**522.300**	ug/l	5,223.00	1.3	15000	45	P	
63	**Cu**	2	**91.480**	ug/l	914.80	1.9	15000	45	P	
66	**Zn**	2	**147.200**	ug/l	1,472.00	1.0	15000	45	P	
78	**Se**	2	**1.569**	ug/l	15.69	22.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6599182	1.53	6852000	**96.3**	30	-	120	
45	Sc	1	217427	1.13	249000	**87.3**	30	-	120	
45	Sc	2	289629	0.82	274900	**105.4**	30	-	120	
74	Ge	1	147199	2.13	197500	**74.5**	30	-	120	
74	Ge	2	398291	1.91	437500	**91.0**	30	-	120	
74	Ge	3	1715468	1.15	1769000	**97.0**	30	-	120	
103	Rh	2	739367	1.90	847200	**87.3**	30	-	120	
103	Rh	3	1424431	0.84	1574000	**90.5**	30	-	120	
165	Ho	3	2960878	0.85	3040000	**97.4**	30	-	120	
175	Lu	3	3179272	0.55	3395000	**93.6**	30	-	120	
209	Bi	3	6159990	0.99	7067000	**87.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\027SMPL.D\027SMPL.D#
Date Acquired: May 28 2010 01:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.683**	ug/l	16.83	4.6	450	6	P	
60	**Ni**	2	**524.800**	ug/l	5,248.00	1.2	15000	45	P	
63	**Cu**	2	**91.200**	ug/l	912.00	1.4	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	2.3	15000	45	P	
78	**Se**	2	**1.454**	ug/l	14.54	29.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6776124	2.18	6852000	**98.9**	30	-	120	
45	Sc	1	193544	1.10	249000	**77.7**	30	-	120	
45	Sc	2	291665	0.73	274900	**106.1**	30	-	120	
74	Ge	1	129525	1.31	197500	**65.6**	30	-	120	
74	Ge	2	404374	1.58	437500	**92.4**	30	-	120	
74	Ge	3	1704393	0.35	1769000	**96.3**	30	-	120	
103	Rh	2	741591	1.55	847200	**87.5**	30	-	120	
103	Rh	3	1440385	1.43	1574000	**91.5**	30	-	120	
165	Ho	3	2957843	1.03	3040000	**97.3**	30	-	120	
175	Lu	3	3186019	1.63	3395000	**93.8**	30	-	120	
209	Bi	3	6191694	0.59	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\028SMPL.D\028SMPL.D#
Date Acquired: May 28 2010 01:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.183**	ug/l	109.15	0.8	450	6	P	
60	**Ni**	2	**121.600**	ug/l	6,080.00	0.5	15000	45	P	
63	**Cu**	2	**27.750**	ug/l	1,387.50	0.9	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	2,326.50	1.0	15000	45	P	
78	**Se**	2	**80.960**	ug/l	4,048.00	3.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7379795	0.18	6852000	**107.7**	30	-	120	
45	Sc	1	166999	0.84	249000	**67.1**	30	-	120	
45	Sc	2	278985	0.64	274900	**101.5**	30	-	120	
74	Ge	1	125242	0.43	197500	**63.4**	30	-	120	
74	Ge	2	421049	0.76	437500	**96.2**	30	-	120	
74	Ge	3	1825379	1.10	1769000	**103.2**	30	-	120	
103	Rh	2	788028	2.17	847200	**93.0**	30	-	120	
103	Rh	3	1563755	0.56	1574000	**99.3**	30	-	120	
165	Ho	3	3024895	0.87	3040000	**99.5**	30	-	120	
175	Lu	3	3282350	0.72	3395000	**96.7**	30	-	120	
209	Bi	3	6612966	0.32	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\029SMPL.D\029SMPL.D#
Date Acquired: May 28 2010 01:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.271**	ug/l	113.55	0.4	450	6	P	
60	**Ni**	2	**126.700**	ug/l	6,335.00	1.3	15000	45	P	
63	**Cu**	2	**28.700**	ug/l	1,435.00	1.1	15000	45	P	
66	**Zn**	2	**47.980**	ug/l	2,399.00	1.3	15000	45	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7252187	0.45	6852000	**105.8**	30	-	120	
45	Sc	1	166530	1.53	249000	**66.9**	30	-	120	
45	Sc	2	273942	1.18	274900	**99.7**	30	-	120	
74	Ge	1	124102	0.94	197500	**62.8**	30	-	120	
74	Ge	2	418001	1.80	437500	**95.5**	30	-	120	
74	Ge	3	1808947	0.36	1769000	**102.3**	30	-	120	
103	Rh	2	774739	1.53	847200	**91.4**	30	-	120	
103	Rh	3	1529539	0.52	1574000	**97.2**	30	-	120	
165	Ho	3	2990470	0.78	3040000	**98.4**	30	-	120	
175	Lu	3	3237682	0.38	3395000	**95.4**	30	-	120	
209	Bi	3	6569840	0.90	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\030SMPL.D\030SMPL.D#
Date Acquired: May 28 2010 01:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.249**	ug/l	112.45	2.4	450	6	P	
60	**Ni**	2	**126.000**	ug/l	6,300.00	1.2	15000	45	P	
63	**Cu**	2	**28.210**	ug/l	1,410.50	1.8	15000	45	P	
66	**Zn**	2	**48.910**	ug/l	2,445.50	1.8	15000	45	P	
78	**Se**	2	**81.080**	ug/l	4,054.00	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7386729	1.34	6852000	**107.8**	30	-	120	
45	Sc	1	158853	2.42	249000	**63.8**	30	-	120	
45	Sc	2	273995	0.20	274900	**99.7**	30	-	120	
74	Ge	1	117227	1.67	197500	**59.4**	30	-	120	
74	Ge	2	418005	1.72	437500	**95.5**	30	-	120	
74	Ge	3	1794306	0.98	1769000	**101.4**	30	-	120	
103	Rh	2	783523	1.15	847200	**92.5**	30	-	120	
103	Rh	3	1536877	1.19	1574000	**97.6**	30	-	120	
165	Ho	3	3007922	0.36	3040000	**98.9**	30	-	120	
175	Lu	3	3247255	0.43	3395000	**95.6**	30	-	120	
209	Bi	3	6522480	0.39	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\031SMPL.D\031SMPL.D#
Date Acquired: May 28 2010 01:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.878**	ug/l	93.90	8.8	450	6	P	
60	**Ni**	2	**20.210**	ug/l	1,010.50	5.1	15000	45	P	
63	**Cu**	2	**10.120**	ug/l	506.00	3.8	15000	45	P	
66	**Zn**	2	**19.820**	ug/l	991.00	3.1	15000	45	P	
78	**Se**	2	**82.630**	ug/l	4,131.50	8.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7052535	1.51	6852000	**102.9**	30	-	120	
45	Sc	1	142963	1.00	249000	**57.4**	30	-	120	
45	Sc	2	270414	1.87	274900	**98.4**	30	-	120	
74	Ge	1	108186	0.65	197500	**54.8**	30	-	120	
74	Ge	2	418357	1.15	437500	**95.6**	30	-	120	
74	Ge	3	1754124	0.81	1769000	**99.2**	30	-	120	
103	Rh	2	807834	1.09	847200	**95.4**	30	-	120	
103	Rh	3	1544293	1.25	1574000	**98.1**	30	-	120	
165	Ho	3	3012853	0.19	3040000	**99.1**	30	-	120	
175	Lu	3	3245673	0.94	3395000	**95.6**	30	-	120	
209	Bi	3	6773725	1.09	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\032SMPL.D\032SMPL.D#
Date Acquired: May 28 2010 01:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.830**	ug/l	91.50	4.5	450	6	P	
60	**Ni**	2	**19.760**	ug/l	988.00	3.7	15000	45	P	
63	**Cu**	2	**10.340**	ug/l	517.00	1.4	15000	45	P	
66	**Zn**	2	**19.830**	ug/l	991.50	3.1	15000	45	P	
78	**Se**	2	**80.180**	ug/l	4,009.00	4.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7079347	1.06	6852000	**103.3**	30	-	120	
45	Sc	1	133396	1.32	249000	**53.6**	30	-	120	
45	Sc	2	273415	0.81	274900	**99.5**	30	-	120	
74	Ge	1	97905	1.64	197500	**49.6**	30	-	120	
74	Ge	2	425652	1.19	437500	**97.3**	30	-	120	
74	Ge	3	1795484	1.32	1769000	**101.5**	30	-	120	
103	Rh	2	816832	0.45	847200	**96.4**	30	-	120	
103	Rh	3	1583804	0.36	1574000	**100.6**	30	-	120	
165	Ho	3	3025122	0.44	3040000	**99.5**	30	-	120	
175	Lu	3	3346912	0.60	3395000	**98.6**	30	-	120	
209	Bi	3	6871730	0.02	7067000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\033SMPL.D\033SMPL.D#
Date Acquired: May 28 2010 02:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**86.600**	ug/l	1,732.00	5.0	450	6	P	
60	**Ni**	2	**99.350**	ug/l	1,987.00	1.4	15000	45	P	
63	**Cu**	2	**38.060**	ug/l	761.20	0.5	15000	45	P	
66	**Zn**	2	**195.100**	ug/l	3,902.00	0.6	15000	45	P	
78	**Se**	2	**86.900**	ug/l	1,738.00	2.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7281791	2.55	6852000	**106.3**	30	-	120	
45	Sc	1	124793	0.50	249000	**50.1**	30	-	120	
45	Sc	2	275406	0.86	274900	**100.2**	30	-	120	
74	Ge	1	92488	2.06	197500	**46.8**	30	-	120	
74	Ge	2	421321	1.32	437500	**96.3**	30	-	120	
74	Ge	3	1797557	1.77	1769000	**101.6**	30	-	120	
103	Rh	2	803499	1.22	847200	**94.8**	30	-	120	
103	Rh	3	1562024	1.60	1574000	**99.2**	30	-	120	
165	Ho	3	3080494	0.36	3040000	**101.3**	30	-	120	
175	Lu	3	3345973	1.21	3395000	**98.6**	30	-	120	
209	Bi	3	6756613	1.17	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\034SMPL.D\034SMPL.D#
Date Acquired: May 28 2010 02:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.630**	ug/l	49.63	0.5	450	6	P	
60	**Ni**	2	**50.070**	ug/l	50.07	0.2	15000	45	P	
63	**Cu**	2	**50.450**	ug/l	50.45	0.8	15000	45	P	
66	**Zn**	2	**49.060**	ug/l	49.06	3.6	15000	45	P	
78	**Se**	2	**54.330**	ug/l	54.33	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7304887	0.77	6852000	**106.6**	30	-	120	
45	Sc	1	116646	1.03	249000	**46.8**	30	-	120	
45	Sc	2	276922	0.18	274900	**100.7**	30	-	120	
74	Ge	1	86751	1.84	197500	**43.9**	30	-	120	
74	Ge	2	428960	1.22	437500	**98.0**	30	-	120	
74	Ge	3	1862062	0.84	1769000	**105.3**	30	-	120	
103	Rh	2	805275	0.85	847200	**95.1**	30	-	120	
103	Rh	3	1596588	1.05	1574000	**101.4**	30	-	120	
165	Ho	3	3070905	1.27	3040000	**101.0**	30	-	120	
175	Lu	3	3328380	0.60	3395000	**98.0**	30	-	120	
209	Bi	3	6829311	0.91	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\035SMPL.D\035SMPL.D#
Date Acquired: May 28 2010 02:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	30.2	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	106.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	3.9	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	23.8	15000	45	P	
78	**Se**	2	**-0.235**	ug/l	-0.24	304.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7330039	0.45	6852000	**107.0**	30	-	120	
45	Sc	1	114792	1.01	249000	**46.1**	30	-	120	
45	Sc	2	280532	1.35	274900	**102.0**	30	-	120	
74	Ge	1	86556	0.74	197500	**43.8**	30	-	120	
74	Ge	2	443582	0.29	437500	**101.4**	30	-	120	
74	Ge	3	1829810	0.65	1769000	**103.4**	30	-	120	
103	Rh	2	849273	1.33	847200	**100.2**	30	-	120	
103	Rh	3	1638973	1.12	1574000	**104.1**	30	-	120	
165	Ho	3	3137499	1.42	3040000	**103.2**	30	-	120	
175	Lu	3	3349899	1.23	3395000	**98.7**	30	-	120	
209	Bi	3	7051860	1.11	7067000	**99.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\036SMPL.D\036SMPL.D#
Date Acquired: May 28 2010 02:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.3	450	6	P	
60	**Ni**	2	**703.000**	ug/l	7,030.00	1.2	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.2	15000	45	P	
66	**Zn**	2	**110.500**	ug/l	1,105.00	0.3	15000	45	P	
78	**Se**	2	**0.674**	ug/l	6.74	108.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6795932	1.51	6852000	**99.2**	30	-	120	
45	Sc	1	107180	1.23	249000	**43.0**	30	-	120	
45	Sc	2	292471	0.77	274900	**106.4**	30	-	120	
74	Ge	1	72292	0.23	197500	**36.6**	30	-	120	
74	Ge	2	417726	1.48	437500	**95.5**	30	-	120	
74	Ge	3	1762750	1.03	1769000	**99.6**	30	-	120	
103	Rh	2	781111	1.96	847200	**92.2**	30	-	120	
103	Rh	3	1486366	0.82	1574000	**94.4**	30	-	120	
165	Ho	3	3026684	1.05	3040000	**99.6**	30	-	120	
175	Lu	3	3311098	1.80	3395000	**97.5**	30	-	120	
209	Bi	3	6378820	1.02	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\037SMPL.D\037SMPL.D#
Date Acquired: May 28 2010 02:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.263**	ug/l	12.63	2.6	450	6	P	
60	**Ni**	2	**998.800**	ug/l	9,988.00	1.3	15000	45	A	
63	**Cu**	2	**73.010**	ug/l	730.10	2.0	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	0.1	15000	45	P	
78	**Se**	2	**1.744**	ug/l	17.44	30.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6704373	0.40	6852000	**97.8**	30	-	120	
45	Sc	1	109637	1.04	249000	**44.0**	30	-	120	
45	Sc	2	293864	0.48	274900	**106.9**	30	-	120	
74	Ge	1	70469	2.03	197500	**35.7**	30	-	120	
74	Ge	2	410981	1.01	437500	**93.9**	30	-	120	
74	Ge	3	1778560	1.02	1769000	**100.5**	30	-	120	
103	Rh	2	759321	1.57	847200	**89.6**	30	-	120	
103	Rh	3	1495136	0.53	1574000	**95.0**	30	-	120	
165	Ho	3	3060137	0.36	3040000	**100.7**	30	-	120	
175	Lu	3	3327531	1.01	3395000	**98.0**	30	-	120	
209	Bi	3	6339293	0.28	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\038SMPL.D\038SMPL.D#
Date Acquired: May 28 2010 02:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	0.2	450	6	P	
60	**Ni**	2	**1111.000**	ug/l	11,110.00	1.2	15000	45	A	
63	**Cu**	2	**150.300**	ug/l	1,503.00	0.9	15000	45	P	
66	**Zn**	2	**157.500**	ug/l	1,575.00	1.5	15000	45	P	
78	**Se**	2	**1.272**	ug/l	12.72	30.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6645485	1.67	6852000	**97.0**	30	-	120	
45	Sc	1	104185	2.38	249000	**41.8**	30	-	120	
45	Sc	2	305327	0.25	274900	**111.1**	30	-	120	
74	Ge	1	63190	0.97	197500	**32.0**	30	-	120	
74	Ge	2	408468	1.04	437500	**93.4**	30	-	120	
74	Ge	3	1729912	1.33	1769000	**97.8**	30	-	120	
103	Rh	2	757563	0.99	847200	**89.4**	30	-	120	
103	Rh	3	1486144	1.32	1574000	**94.4**	30	-	120	
165	Ho	3	3011144	1.44	3040000	**99.1**	30	-	120	
175	Lu	3	3286305	1.37	3395000	**96.8**	30	-	120	
209	Bi	3	6307795	1.29	7067000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\039SMPL.D\039SMPL.D#
Date Acquired: May 28 2010 02:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.317**	ug/l	13.17	2.1	450	6	P	
60	**Ni**	2	**923.200**	ug/l	9,232.00	1.2	15000	45	P	
63	**Cu**	2	**84.010**	ug/l	840.10	0.3	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	1.0	15000	45	P	
78	**Se**	2	**0.691**	ug/l	6.91	35.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6797935	0.07	6852000	**99.2**	30	-	120	
45	Sc	1	101325	1.29	249000	**40.7**	30	-	120	
45	Sc	2	296145	1.06	274900	**107.7**	30	-	120	
74	Ge	1	65309	1.55	197500	**33.1**	30	-	120	
74	Ge	2	411930	1.77	437500	**94.2**	30	-	120	
74	Ge	3	1800076	0.31	1769000	**101.8**	30	-	120	
103	Rh	2	761207	0.86	847200	**89.8**	30	-	120	
103	Rh	3	1533205	0.51	1574000	**97.4**	30	-	120	
165	Ho	3	3077517	0.59	3040000	**101.2**	30	-	120	
175	Lu	3	3307495	0.21	3395000	**97.4**	30	-	120	
209	Bi	3	6422904	0.29	7067000	**90.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\040SMPL.D\040SMPL.D#
Date Acquired: May 28 2010 02:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.221**	ug/l	12.21	2.6	450	6	P	
60	**Ni**	2	**540.300**	ug/l	5,403.00	1.3	15000	45	P	
63	**Cu**	2	**65.430**	ug/l	654.30	1.8	15000	45	P	
66	**Zn**	2	**197.600**	ug/l	1,976.00	0.1	15000	45	P	
78	**Se**	2	**1.200**	ug/l	12.00	58.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7001349	1.32	6852000	**102.2**	30	-	120	
45	Sc	1	89009	0.19	249000	**35.7**	30	-	120	
45	Sc	2	291283	1.58	274900	**106.0**	30	-	120	
74	Ge	1	58508	2.30	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	422177	1.35	437500	**96.5**	30	-	120	
74	Ge	3	1819658	1.30	1769000	**102.9**	30	-	120	
103	Rh	2	788737	0.73	847200	**93.1**	30	-	120	
103	Rh	3	1556249	1.37	1574000	**98.9**	30	-	120	
165	Ho	3	3146069	1.24	3040000	**103.5**	30	-	120	
175	Lu	3	3357370	0.21	3395000	**98.9**	30	-	120	
209	Bi	3	6572919	1.58	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\041SMPL.D\041SMPL.D#
Date Acquired: May 28 2010 02:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.280**	ug/l	12.80	1.7	450	6	P	
60	**Ni**	2	**800.100**	ug/l	8,001.00	1.1	15000	45	P	
63	**Cu**	2	**83.820**	ug/l	838.20	0.4	15000	45	P	
66	**Zn**	2	**149.000**	ug/l	1,490.00	2.6	15000	45	P	
78	**Se**	2	**1.794**	ug/l	17.94	39.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6796712	1.59	6852000	**99.2**	30	-	120	
45	Sc	1	95300	0.82	249000	**38.3**	30	-	120	
45	Sc	2	281567	1.14	274900	**102.4**	30	-	120	
74	Ge	1	63629	0.84	197500	**32.2**	30	-	120	
74	Ge	2	414828	1.13	437500	**94.8**	30	-	120	
74	Ge	3	1770697	0.57	1769000	**100.1**	30	-	120	
103	Rh	2	763800	1.43	847200	**90.2**	30	-	120	
103	Rh	3	1513272	0.87	1574000	**96.1**	30	-	120	
165	Ho	3	3065239	0.47	3040000	**100.8**	30	-	120	
175	Lu	3	3298775	0.65	3395000	**97.2**	30	-	120	
209	Bi	3	6396200	0.19	7067000	**90.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\042SMPL.D\042SMPL.D#
Date Acquired: May 28 2010 02:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.548**	ug/l	15.48	2.0	450	6	P	
60	**Ni**	2	**970.000**	ug/l	9,700.00	1.2	15000	45	A	
63	**Cu**	2	**104.400**	ug/l	1,044.00	1.0	15000	45	P	
66	**Zn**	2	**168.100**	ug/l	1,681.00	0.8	15000	45	P	
78	**Se**	2	**1.722**	ug/l	17.22	70.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6859719	0.32	6852000	**100.1**	30	-	120	
45	Sc	1	97715	0.79	249000	**39.2**	30	-	120	
45	Sc	2	297435	0.34	274900	**108.2**	30	-	120	
74	Ge	1	62775	1.17	197500	**31.8**	30	-	120	
74	Ge	2	414063	0.75	437500	**94.6**	30	-	120	
74	Ge	3	1810170	0.62	1769000	**102.3**	30	-	120	
103	Rh	2	770505	0.69	847200	**90.9**	30	-	120	
103	Rh	3	1541831	1.08	1574000	**98.0**	30	-	120	
165	Ho	3	3080282	0.69	3040000	**101.3**	30	-	120	
175	Lu	3	3316749	1.47	3395000	**97.7**	30	-	120	
209	Bi	3	6415690	0.37	7067000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\043SMPL.D\043SMPL.D#
Date Acquired: May 28 2010 03:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.014**	ug/l	10.14	2.6	450	6	P	
60	**Ni**	2	**1546.000**	ug/l	15,460.00	0.9	15000	45	A	
63	**Cu**	2	**68.780**	ug/l	687.80	1.6	15000	45	P	
66	**Zn**	2	**125.900**	ug/l	1,259.00	1.0	15000	45	P	
78	**Se**	2	**0.616**	ug/l	6.16	99.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6744613	1.01	6852000	**98.4**	30	-	120	
45	Sc	1	91573	2.27	249000	**36.8**	30	-	120	
45	Sc	2	284316	0.23	274900	**103.4**	30	-	120	
74	Ge	1	59459	2.09	197500	**30.1**	30	-	120	
74	Ge	2	410122	1.50	437500	**93.7**	30	-	120	
74	Ge	3	1772339	1.01	1769000	**100.2**	30	-	120	
103	Rh	2	769504	2.25	847200	**90.8**	30	-	120	
103	Rh	3	1503983	0.42	1574000	**95.6**	30	-	120	
165	Ho	3	2991174	0.73	3040000	**98.4**	30	-	120	
175	Lu	3	3272057	0.39	3395000	**96.4**	30	-	120	
209	Bi	3	6407657	1.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\044SMPL.D\044SMPL.D#
Date Acquired: May 28 2010 03:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.942**	ug/l	9.42	2.3	450	6	P	
60	**Ni**	2	**1896.000**	ug/l	18,960.00	1.0	15000	45	A	
63	**Cu**	2	**60.210**	ug/l	602.10	1.8	15000	45	P	
66	**Zn**	2	**121.900**	ug/l	1,219.00	2.4	15000	45	P	
78	**Se**	2	**1.565**	ug/l	15.65	49.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6633994	1.70	6852000	**96.8**	30	-	120	
45	Sc	1	90498	2.52	249000	**36.3**	30	-	120	
45	Sc	2	285724	1.03	274900	**103.9**	30	-	120	
74	Ge	1	58726	2.84	197500	**29.7**	30	-	120	**IS Fail**
74	Ge	2	413380	0.85	437500	**94.5**	30	-	120	
74	Ge	3	1819507	1.09	1769000	**102.9**	30	-	120	
103	Rh	2	775361	1.12	847200	**91.5**	30	-	120	
103	Rh	3	1534186	0.60	1574000	**97.5**	30	-	120	
165	Ho	3	3061887	1.57	3040000	**100.7**	30	-	120	
175	Lu	3	3313251	0.95	3395000	**97.6**	30	-	120	
209	Bi	3	6404408	1.00	7067000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\045SMPL.D\045SMPL.D#
Date Acquired: May 28 2010 03:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.858**	ug/l	8.58	2.5	450	6	P	
60	**Ni**	2	**499.800**	ug/l	4,998.00	1.7	15000	45	P	
63	**Cu**	2	**84.050**	ug/l	840.50	0.9	15000	45	P	
66	**Zn**	2	**138.200**	ug/l	1,382.00	1.0	15000	45	P	
78	**Se**	2	**2.926**	ug/l	29.26	31.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6653355	1.27	6852000	**97.1**	30	-	120	
45	Sc	1	99632	1.86	249000	**40.0**	30	-	120	
45	Sc	2	276422	0.96	274900	**100.6**	30	-	120	
74	Ge	1	67623	1.02	197500	**34.2**	30	-	120	
74	Ge	2	405052	0.73	437500	**92.6**	30	-	120	
74	Ge	3	1765316	1.47	1769000	**99.8**	30	-	120	
103	Rh	2	773968	0.53	847200	**91.4**	30	-	120	
103	Rh	3	1510695	0.74	1574000	**96.0**	30	-	120	
165	Ho	3	3067810	1.89	3040000	**100.9**	30	-	120	
175	Lu	3	3329480	0.28	3395000	**98.1**	30	-	120	
209	Bi	3	6562722	0.22	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\046SMPL.D\046SMPL.D#
Date Acquired: May 28 2010 03:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.420**	ug/l	49.42	1.6	450	6	P	
60	**Ni**	2	**52.100**	ug/l	52.10	1.6	15000	45	P	
63	**Cu**	2	**52.360**	ug/l	52.36	0.6	15000	45	P	
66	**Zn**	2	**51.190**	ug/l	51.19	1.2	15000	45	P	
78	**Se**	2	**52.830**	ug/l	52.83	3.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6890963	1.34	6852000	**100.6**	30	-	120	
45	Sc	1	96677	0.40	249000	**38.8**	30	-	120	
45	Sc	2	264538	1.27	274900	**96.2**	30	-	120	
74	Ge	1	71112	1.25	197500	**36.0**	30	-	120	
74	Ge	2	424559	0.14	437500	**97.0**	30	-	120	
74	Ge	3	1838938	0.23	1769000	**104.0**	30	-	120	
103	Rh	2	811114	1.45	847200	**95.7**	30	-	120	
103	Rh	3	1587607	1.98	1574000	**100.9**	30	-	120	
165	Ho	3	3096926	0.59	3040000	**101.9**	30	-	120	
175	Lu	3	3384479	0.57	3395000	**99.7**	30	-	120	
209	Bi	3	6960762	0.73	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\047SMPL.D\047SMPL.D#
Date Acquired: May 28 2010 03:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	20.6	450	6	P	
60	**Ni**	2	**0.160**	ug/l	0.16	15.9	15000	45	P	
63	**Cu**	2	**0.056**	ug/l	0.06	10.4	15000	45	P	
66	**Zn**	2	**0.175**	ug/l	0.18	52.4	15000	45	P	
78	**Se**	2	**0.017**	ug/l	0.02	3475.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6719508	1.84	6852000	**98.1**	30	-	120	
45	Sc	1	102374	0.47	249000	**41.1**	30	-	120	
45	Sc	2	264514	0.89	274900	**96.2**	30	-	120	
74	Ge	1	77350	0.75	197500	**39.2**	30	-	120	
74	Ge	2	427234	1.67	437500	**97.7**	30	-	120	
74	Ge	3	1812443	1.04	1769000	**102.5**	30	-	120	
103	Rh	2	842609	0.98	847200	**99.5**	30	-	120	
103	Rh	3	1593457	1.48	1574000	**101.2**	30	-	120	
165	Ho	3	3090749	1.02	3040000	**101.7**	30	-	120	
175	Lu	3	3401524	1.36	3395000	**100.2**	30	-	120	
209	Bi	3	7119023	2.00	7067000	**100.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\048SMPL.D\048SMPL.D#
Date Acquired: May 28 2010 03:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.302**	ug/l	13.02	1.7	450	6	P	
60	**Ni**	2	**994.200**	ug/l	9,942.00	0.4	15000	45	P	
63	**Cu**	2	**102.900**	ug/l	1,029.00	0.8	15000	45	P	
66	**Zn**	2	**158.400**	ug/l	1,584.00	1.9	15000	45	P	
78	**Se**	2	**1.258**	ug/l	12.58	38.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6566023	0.46	6852000	**95.8**	30	-	120	
45	Sc	1	107909	0.22	249000	**43.3**	30	-	120	
45	Sc	2	289420	0.94	274900	**105.3**	30	-	120	
74	Ge	1	71381	2.03	197500	**36.1**	30	-	120	
74	Ge	2	410298	1.59	437500	**93.8**	30	-	120	
74	Ge	3	1790011	0.91	1769000	**101.2**	30	-	120	
103	Rh	2	774305	1.93	847200	**91.4**	30	-	120	
103	Rh	3	1541022	1.58	1574000	**97.9**	30	-	120	
165	Ho	3	3120903	0.39	3040000	**102.7**	30	-	120	
175	Lu	3	3353434	0.98	3395000	**98.8**	30	-	120	
209	Bi	3	6620063	0.77	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\049SMPL.D\049SMPL.D#
Date Acquired: May 28 2010 03:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.166**	ug/l	11.66	0.6	450	6	P	
60	**Ni**	2	**947.300**	ug/l	9,473.00	1.1	15000	45	P	
63	**Cu**	2	**95.310**	ug/l	953.10	1.7	15000	45	P	
66	**Zn**	2	**165.400**	ug/l	1,654.00	2.0	15000	45	P	
78	**Se**	2	**1.315**	ug/l	13.15	76.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6746423	1.03	6852000	**98.5**	30	-	120	
45	Sc	1	107620	1.27	249000	**43.2**	30	-	120	
45	Sc	2	285000	1.07	274900	**103.7**	30	-	120	
74	Ge	1	71632	0.64	197500	**36.3**	30	-	120	
74	Ge	2	399691	1.00	437500	**91.4**	30	-	120	
74	Ge	3	1779101	0.75	1769000	**100.6**	30	-	120	
103	Rh	2	757031	1.50	847200	**89.4**	30	-	120	
103	Rh	3	1507669	1.55	1574000	**95.8**	30	-	120	
165	Ho	3	3061585	1.15	3040000	**100.7**	30	-	120	
175	Lu	3	3314280	1.26	3395000	**97.6**	30	-	120	
209	Bi	3	6610341	0.08	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\050SMPL.D\050SMPL.D#
Date Acquired: May 28 2010 03:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.668**	ug/l	16.68	1.4	450	6	P	
60	**Ni**	2	**1263.000**	ug/l	12,630.00	1.8	15000	45	A	
63	**Cu**	2	**102.200**	ug/l	1,022.00	1.8	15000	45	P	
66	**Zn**	2	**182.800**	ug/l	1,828.00	2.4	15000	45	P	
78	**Se**	2	**1.568**	ug/l	15.68	33.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606357	1.97	6852000	**96.4**	30	-	120	
45	Sc	1	104151	2.27	249000	**41.8**	30	-	120	
45	Sc	2	285945	2.09	274900	**104.0**	30	-	120	
74	Ge	1	69192	1.65	197500	**35.0**	30	-	120	
74	Ge	2	413609	1.30	437500	**94.5**	30	-	120	
74	Ge	3	1773835	1.14	1769000	**100.3**	30	-	120	
103	Rh	2	788892	1.19	847200	**93.1**	30	-	120	
103	Rh	3	1533931	0.51	1574000	**97.5**	30	-	120	
165	Ho	3	3111669	1.15	3040000	**102.4**	30	-	120	
175	Lu	3	3359214	1.91	3395000	**98.9**	30	-	120	
209	Bi	3	6734450	1.18	7067000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\051SMPL.D\051SMPL.D#
Date Acquired: May 28 2010 03:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.860**	ug/l	8.60	1.4	450	6	P	
60	**Ni**	2	**3489.000**	ug/l	34,890.00	1.0	15000	45	A	
63	**Cu**	2	**37.790**	ug/l	377.90	0.9	15000	45	P	
66	**Zn**	2	**110.100**	ug/l	1,101.00	3.0	15000	45	P	
78	**Se**	2	**0.992**	ug/l	9.92	84.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6173455	0.66	6852000	**90.1**	30	-	120	
45	Sc	1	94581	0.42	249000	**38.0**	30	-	120	
45	Sc	2	271435	1.37	274900	**98.7**	30	-	120	
74	Ge	1	63194	0.77	197500	**32.0**	30	-	120	
74	Ge	2	395838	1.41	437500	**90.5**	30	-	120	
74	Ge	3	1704445	0.44	1769000	**96.4**	30	-	120	
103	Rh	2	747966	1.29	847200	**88.3**	30	-	120	
103	Rh	3	1473488	1.51	1574000	**93.6**	30	-	120	
165	Ho	3	3030412	0.66	3040000	**99.7**	30	-	120	
175	Lu	3	3277980	0.85	3395000	**96.6**	30	-	120	
209	Bi	3	6373887	0.22	7067000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\052SMPL.D\052SMPL.D#
Date Acquired: May 28 2010 03:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.793**	ug/l	7.93	3.2	450	6	P	
60	**Ni**	2	**2881.000**	ug/l	28,810.00	1.7	15000	45	A	
63	**Cu**	2	**46.910**	ug/l	469.10	2.5	15000	45	P	
66	**Zn**	2	**115.400**	ug/l	1,154.00	1.5	15000	45	P	
78	**Se**	2	**0.519**	ug/l	5.19	51.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5941458	2.16	6852000	**86.7**	30	-	120	
45	Sc	1	98735	1.17	249000	**39.7**	30	-	120	
45	Sc	2	270168	1.17	274900	**98.3**	30	-	120	
74	Ge	1	64397	2.45	197500	**32.6**	30	-	120	
74	Ge	2	389764	0.83	437500	**89.1**	30	-	120	
74	Ge	3	1676727	1.53	1769000	**94.8**	30	-	120	
103	Rh	2	741788	1.71	847200	**87.6**	30	-	120	
103	Rh	3	1436790	0.85	1574000	**91.3**	30	-	120	
165	Ho	3	2986200	0.61	3040000	**98.2**	30	-	120	
175	Lu	3	3247564	0.67	3395000	**95.7**	30	-	120	
209	Bi	3	6331851	1.11	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\053SMPL.D\053SMPL.D#
Date Acquired: May 28 2010 04:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.009**	ug/l	10.09	4.9	450	6	P	
60	**Ni**	2	**488.000**	ug/l	4,880.00	0.7	15000	45	P	
63	**Cu**	2	**144.600**	ug/l	1,446.00	0.9	15000	45	P	
66	**Zn**	2	**183.400**	ug/l	1,834.00	1.8	15000	45	P	
78	**Se**	2	**0.947**	ug/l	9.47	173.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6412321	2.25	6852000	**93.6**	30	-	120	
45	Sc	1	98627	1.46	249000	**39.6**	30	-	120	
45	Sc	2	266678	0.30	274900	**97.0**	30	-	120	
74	Ge	1	66736	1.66	197500	**33.8**	30	-	120	
74	Ge	2	389144	0.22	437500	**88.9**	30	-	120	
74	Ge	3	1705475	0.89	1769000	**96.4**	30	-	120	
103	Rh	2	736951	0.45	847200	**87.0**	30	-	120	
103	Rh	3	1470992	1.71	1574000	**93.5**	30	-	120	
165	Ho	3	3063676	0.83	3040000	**100.8**	30	-	120	
175	Lu	3	3309844	0.21	3395000	**97.5**	30	-	120	
209	Bi	3	6500180	0.73	7067000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\054SMPL.D\054SMPL.D#
Date Acquired: May 28 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.6	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	2.1	15000	45	P	
63	**Cu**	2	**52.290**	ug/l	52.29	2.3	15000	45	P	
66	**Zn**	2	**51.220**	ug/l	51.22	2.7	15000	45	P	
78	**Se**	2	**48.410**	ug/l	48.41	5.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6752163	0.46	6852000	**98.5**	30	-	120	
45	Sc	1	90498	1.65	249000	**36.3**	30	-	120	
45	Sc	2	256232	0.81	274900	**93.2**	30	-	120	
74	Ge	1	68032	2.89	197500	**34.4**	30	-	120	
74	Ge	2	417423	0.95	437500	**95.4**	30	-	120	
74	Ge	3	1799160	0.79	1769000	**101.7**	30	-	120	
103	Rh	2	800645	1.09	847200	**94.5**	30	-	120	
103	Rh	3	1591221	1.41	1574000	**101.1**	30	-	120	
165	Ho	3	3152072	0.36	3040000	**103.7**	30	-	120	
175	Lu	3	3397988	1.10	3395000	**100.1**	30	-	120	
209	Bi	3	6975768	0.37	7067000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\055SMPL.D\055SMPL.D#
Date Acquired: May 28 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	18.1	450	6	P	
60	**Ni**	2	**0.153**	ug/l	0.15	34.5	15000	45	P	
63	**Cu**	2	**0.043**	ug/l	0.04	35.2	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	23.1	15000	45	P	
78	**Se**	2	**-0.057**	ug/l	-0.06	19.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606218	1.11	6852000	**96.4**	30	-	120	
45	Sc	1	97624	0.38	249000	**39.2**	30	-	120	
45	Sc	2	259689	0.59	274900	**94.5**	30	-	120	
74	Ge	1	72940	0.98	197500	**36.9**	30	-	120	
74	Ge	2	426261	1.57	437500	**97.4**	30	-	120	
74	Ge	3	1783009	0.51	1769000	**100.8**	30	-	120	
103	Rh	2	837284	1.43	847200	**98.8**	30	-	120	
103	Rh	3	1576259	0.99	1574000	**100.1**	30	-	120	
165	Ho	3	3091315	1.39	3040000	**101.7**	30	-	120	
175	Lu	3	3384112	0.39	3395000	**99.7**	30	-	120	
209	Bi	3	7168954	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\056SMPL.D\056SMPL.D#
Date Acquired: May 28 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	37.3	450	6	P	
60	**Ni**	2	**0.083**	ug/l	0.83	73.4	15000	45	P	
63	**Cu**	2	**0.021**	ug/l	0.21	119.7	15000	45	P	
66	**Zn**	2	**-0.002**	ug/l	-0.02	1967.8	15000	45	P	
78	**Se**	2	**0.103**	ug/l	1.03	525.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6646206	1.31	6852000	**97.0**	30	-	120	
45	Sc	1	102744	1.61	249000	**41.3**	30	-	120	
45	Sc	2	259138	1.23	274900	**94.3**	30	-	120	
74	Ge	1	78245	1.50	197500	**39.6**	30	-	120	
74	Ge	2	423736	0.72	437500	**96.9**	30	-	120	
74	Ge	3	1762497	2.39	1769000	**99.6**	30	-	120	
103	Rh	2	835310	1.87	847200	**98.6**	30	-	120	
103	Rh	3	1596012	1.19	1574000	**101.4**	30	-	120	
165	Ho	3	3088502	0.96	3040000	**101.6**	30	-	120	
175	Lu	3	3359153	0.79	3395000	**98.9**	30	-	120	
209	Bi	3	7169218	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\057SMPL.D\057SMPL.D#
Date Acquired: May 28 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.044**	ug/l	2.20	14.1	450	6	P	
60	**Ni**	2	**712.100**	ug/l	35,605.00	1.4	15000	45	P	
63	**Cu**	2	**2.216**	ug/l	110.80	2.3	15000	45	P	
66	**Zn**	2	**7.021**	ug/l	351.05	5.6	15000	45	P	
78	**Se**	2	**0.522**	ug/l	26.08	29.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6539684	2.08	6852000	**95.4**	30	-	120	
45	Sc	1	103457	1.24	249000	**41.5**	30	-	120	
45	Sc	2	256025	2.45	274900	**93.1**	30	-	120	
74	Ge	1	77410	0.18	197500	**39.2**	30	-	120	
74	Ge	2	414827	1.58	437500	**94.8**	30	-	120	
74	Ge	3	1733318	0.76	1769000	**98.0**	30	-	120	
103	Rh	2	794445	1.48	847200	**93.8**	30	-	120	
103	Rh	3	1531505	1.45	1574000	**97.3**	30	-	120	
165	Ho	3	3033182	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3342218	1.83	3395000	**98.4**	30	-	120	
209	Bi	3	6876540	0.71	7067000	**97.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\058SMPL.D\058SMPL.D#
Date Acquired: May 28 2010 04:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.199**	ug/l	1.99	1.4	450	6	P	
60	**Ni**	2	**3123.000**	ug/l	31,230.00	0.9	15000	45	A	
63	**Cu**	2	**9.944**	ug/l	99.44	0.8	15000	45	P	
66	**Zn**	2	**32.900**	ug/l	329.00	4.1	15000	45	P	
78	**Se**	2	**0.507**	ug/l	5.07	99.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144900	0.95	6852000	**89.7**	30	-	120	
45	Sc	1	102663	3.42	249000	**41.2**	30	-	120	
45	Sc	2	255093	0.70	274900	**92.8**	30	-	120	
74	Ge	1	71920	0.22	197500	**36.4**	30	-	120	
74	Ge	2	393131	0.51	437500	**89.9**	30	-	120	
74	Ge	3	1689903	1.00	1769000	**95.5**	30	-	120	
103	Rh	2	748832	1.34	847200	**88.4**	30	-	120	
103	Rh	3	1443973	1.05	1574000	**91.7**	30	-	120	
165	Ho	3	3012791	0.69	3040000	**99.1**	30	-	120	
175	Lu	3	3323215	1.62	3395000	**97.9**	30	-	120	
209	Bi	3	6677450	0.26	7067000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\059SMPL.D\059SMPL.D#
Date Acquired: May 28 2010 04:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.193**	ug/l	1.93	4.4	450	6	P	
60	**Ni**	2	**3157.000**	ug/l	31,570.00	1.0	15000	45	A	
63	**Cu**	2	**9.927**	ug/l	99.27	1.2	15000	45	P	
66	**Zn**	2	**33.600**	ug/l	336.00	0.5	15000	45	P	
78	**Se**	2	**0.016**	ug/l	0.16	2857.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6077527	2.69	6852000	**88.7**	30	-	120	
45	Sc	1	103917	1.06	249000	**41.7**	30	-	120	
45	Sc	2	249696	1.88	274900	**90.8**	30	-	120	
74	Ge	1	73979	0.21	197500	**37.5**	30	-	120	
74	Ge	2	386835	1.72	437500	**88.4**	30	-	120	
74	Ge	3	1657916	0.54	1769000	**93.7**	30	-	120	
103	Rh	2	739969	1.30	847200	**87.3**	30	-	120	
103	Rh	3	1430846	0.92	1574000	**90.9**	30	-	120	
165	Ho	3	2952016	0.65	3040000	**97.1**	30	-	120	
175	Lu	3	3224445	0.78	3395000	**95.0**	30	-	120	
209	Bi	3	6576956	1.28	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\060SMPL.D\060SMPL.D#
Date Acquired: May 28 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.957**	ug/l	97.85	2.4	450	6	P	
60	**Ni**	2	**637.300**	ug/l	31,865.00	1.1	15000	45	P	
63	**Cu**	2	**12.170**	ug/l	608.50	1.4	15000	45	P	
66	**Zn**	2	**26.130**	ug/l	1,306.50	2.5	15000	45	P	
78	**Se**	2	**77.390**	ug/l	3,869.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6396548	1.65	6852000	**93.4**	30	-	120	
45	Sc	1	103443	1.21	249000	**41.5**	30	-	120	
45	Sc	2	247042	0.22	274900	**89.9**	30	-	120	
74	Ge	1	77558	0.30	197500	**39.3**	30	-	120	
74	Ge	2	396623	0.76	437500	**90.7**	30	-	120	
74	Ge	3	1710983	0.16	1769000	**96.7**	30	-	120	
103	Rh	2	769772	1.18	847200	**90.9**	30	-	120	
103	Rh	3	1489213	2.09	1574000	**94.6**	30	-	120	
165	Ho	3	3019133	0.48	3040000	**99.3**	30	-	120	
175	Lu	3	3266530	0.30	3395000	**96.2**	30	-	120	
209	Bi	3	6847565	0.32	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\061SMPL.D\061SMPL.D#
Date Acquired: May 28 2010 04:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.885**	ug/l	94.25	2.4	450	6	P	
60	**Ni**	2	**635.100**	ug/l	31,755.00	0.7	15000	45	P	
63	**Cu**	2	**12.280**	ug/l	614.00	2.0	15000	45	P	
66	**Zn**	2	**25.550**	ug/l	1,277.50	2.2	15000	45	P	
78	**Se**	2	**81.930**	ug/l	4,096.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6484482	1.59	6852000	**94.6**	30	-	120	
45	Sc	1	107630	2.33	249000	**43.2**	30	-	120	
45	Sc	2	248856	1.76	274900	**90.5**	30	-	120	
74	Ge	1	81197	1.91	197500	**41.1**	30	-	120	
74	Ge	2	401455	1.71	437500	**91.8**	30	-	120	
74	Ge	3	1716262	1.37	1769000	**97.0**	30	-	120	
103	Rh	2	773729	1.29	847200	**91.3**	30	-	120	
103	Rh	3	1507544	1.47	1574000	**95.8**	30	-	120	
165	Ho	3	3027746	0.73	3040000	**99.6**	30	-	120	
175	Lu	3	3246159	1.14	3395000	**95.6**	30	-	120	
209	Bi	3	6896272	1.22	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\062SMPL.D\062SMPL.D#
Date Acquired: May 28 2010 04:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.837**	ug/l	91.85	1.2	450	6	P	
60	**Ni**	2	**625.600**	ug/l	31,280.00	0.3	15000	45	P	
63	**Cu**	2	**12.030**	ug/l	601.50	0.1	15000	45	P	
66	**Zn**	2	**25.780**	ug/l	1,289.00	3.2	15000	45	P	
78	**Se**	2	**77.820**	ug/l	3,891.00	2.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6586323	1.08	6852000	**96.1**	30	-	120	
45	Sc	1	106108	1.72	249000	**42.6**	30	-	120	
45	Sc	2	245933	1.16	274900	**89.5**	30	-	120	
74	Ge	1	81834	1.32	197500	**41.4**	30	-	120	
74	Ge	2	394042	0.88	437500	**90.1**	30	-	120	
74	Ge	3	1688021	0.62	1769000	**95.4**	30	-	120	
103	Rh	2	767533	1.28	847200	**90.6**	30	-	120	
103	Rh	3	1485942	0.57	1574000	**94.4**	30	-	120	
165	Ho	3	3012669	1.00	3040000	**99.1**	30	-	120	
175	Lu	3	3244867	1.01	3395000	**95.6**	30	-	120	
209	Bi	3	6799113	0.99	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\063SMPL.D\063SMPL.D#
Date Acquired: May 28 2010 05:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.883**	ug/l	94.15	4.9	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	3.0	15000	45	P	
63	**Cu**	2	**10.580**	ug/l	529.00	0.6	15000	45	P	
66	**Zn**	2	**20.670**	ug/l	1,033.50	2.4	15000	45	P	
78	**Se**	2	**79.640**	ug/l	3,982.00	2.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6296633	2.34	6852000	**91.9**	30	-	120	
45	Sc	1	98930	0.89	249000	**39.7**	30	-	120	
45	Sc	2	243511	1.20	274900	**88.6**	30	-	120	
74	Ge	1	75595	1.95	197500	**38.3**	30	-	120	
74	Ge	2	397125	1.12	437500	**90.8**	30	-	120	
74	Ge	3	1669186	1.04	1769000	**94.4**	30	-	120	
103	Rh	2	782134	1.42	847200	**92.3**	30	-	120	
103	Rh	3	1499834	0.90	1574000	**95.3**	30	-	120	
165	Ho	3	3008370	1.73	3040000	**99.0**	30	-	120	
175	Lu	3	3261355	1.11	3395000	**96.1**	30	-	120	
209	Bi	3	6862653	1.81	7067000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\064SMPL.D\064SMPL.D#
Date Acquired: May 28 2010 05:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.913**	ug/l	95.65	3.7	450	6	P	
60	**Ni**	2	**20.370**	ug/l	1,018.50	0.4	15000	45	P	
63	**Cu**	2	**10.460**	ug/l	523.00	0.8	15000	45	P	
66	**Zn**	2	**20.510**	ug/l	1,025.50	3.7	15000	45	P	
78	**Se**	2	**82.760**	ug/l	4,138.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6254347	0.40	6852000	**91.3**	30	-	120	
45	Sc	1	100080	0.62	249000	**40.2**	30	-	120	
45	Sc	2	247817	0.62	274900	**90.1**	30	-	120	
74	Ge	1	76246	1.37	197500	**38.6**	30	-	120	
74	Ge	2	403604	0.61	437500	**92.3**	30	-	120	
74	Ge	3	1695804	1.29	1769000	**95.9**	30	-	120	
103	Rh	2	789868	0.69	847200	**93.2**	30	-	120	
103	Rh	3	1504731	1.65	1574000	**95.6**	30	-	120	
165	Ho	3	3032918	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3322615	0.54	3395000	**97.9**	30	-	120	
209	Bi	3	6888975	0.72	7067000	**97.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\065SMPL.D\065SMPL.D#
Date Acquired: May 28 2010 05:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.730**	ug/l	1,714.60	1.8	450	6	P	
60	**Ni**	2	**98.120**	ug/l	1,962.40	1.2	15000	45	P	
63	**Cu**	2	**37.900**	ug/l	758.00	2.3	15000	45	P	
66	**Zn**	2	**198.400**	ug/l	3,968.00	2.3	15000	45	P	
78	**Se**	2	**85.110**	ug/l	1,702.20	6.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6491803	1.47	6852000	**94.7**	30	-	120	
45	Sc	1	101772	0.19	249000	**40.9**	30	-	120	
45	Sc	2	247464	0.94	274900	**90.0**	30	-	120	
74	Ge	1	77782	1.61	197500	**39.4**	30	-	120	
74	Ge	2	396143	0.98	437500	**90.5**	30	-	120	
74	Ge	3	1699757	1.06	1769000	**96.1**	30	-	120	
103	Rh	2	765388	0.66	847200	**90.3**	30	-	120	
103	Rh	3	1460718	0.87	1574000	**92.8**	30	-	120	
165	Ho	3	3013193	1.14	3040000	**99.1**	30	-	120	
175	Lu	3	3271972	2.00	3395000	**96.4**	30	-	120	
209	Bi	3	6746230	0.98	7067000	**95.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\066SMPL.D\066SMPL.D#
Date Acquired: May 28 2010 05:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.360**	ug/l	49.36	0.8	450	6	P	
60	**Ni**	2	**51.660**	ug/l	51.66	0.8	15000	45	P	
63	**Cu**	2	**52.550**	ug/l	52.55	0.2	15000	45	P	
66	**Zn**	2	**51.520**	ug/l	51.52	2.1	15000	45	P	
78	**Se**	2	**48.910**	ug/l	48.91	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6375232	0.85	6852000	**93.0**	30	-	120	
45	Sc	1	96058	0.35	249000	**38.6**	30	-	120	
45	Sc	2	244012	0.38	274900	**88.8**	30	-	120	
74	Ge	1	72362	0.77	197500	**36.6**	30	-	120	
74	Ge	2	396434	1.78	437500	**90.6**	30	-	120	
74	Ge	3	1700544	1.73	1769000	**96.1**	30	-	120	
103	Rh	2	766299	0.43	847200	**90.5**	30	-	120	
103	Rh	3	1479376	1.29	1574000	**94.0**	30	-	120	
165	Ho	3	3006803	2.04	3040000	**98.9**	30	-	120	
175	Lu	3	3274611	1.47	3395000	**96.5**	30	-	120	
209	Bi	3	6784015	1.04	7067000	**96.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\067SMPL.D\067SMPL.D#
Date Acquired: May 28 2010 05:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.027**	ug/l	0.03	29.9	450	6	P	
60	**Ni**	2	**0.102**	ug/l	0.10	51.6	15000	45	P	
63	**Cu**	2	**0.031**	ug/l	0.03	24.9	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	18.4	15000	45	P	
78	**Se**	2	**0.150**	ug/l	0.15	420.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6584063	2.96	6852000	**96.1**	30	-	120	
45	Sc	1	91774	0.44	249000	**36.9**	30	-	120	
45	Sc	2	250461	0.54	274900	**91.1**	30	-	120	
74	Ge	1	70087	2.03	197500	**35.5**	30	-	120	
74	Ge	2	404180	1.31	437500	**92.4**	30	-	120	
74	Ge	3	1688701	1.12	1769000	**95.5**	30	-	120	
103	Rh	2	798473	2.13	847200	**94.2**	30	-	120	
103	Rh	3	1508303	1.28	1574000	**95.8**	30	-	120	
165	Ho	3	3005392	0.18	3040000	**98.9**	30	-	120	
175	Lu	3	3296416	0.71	3395000	**97.1**	30	-	120	
209	Bi	3	7004226	0.51	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\068SMPL.D\068SMPL.D#
Date Acquired: May 28 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.7	450	6	P	
60	**Ni**	2	**4680.000**	ug/l	46,800.00	0.7	15000	45	A	
63	**Cu**	2	**27.730**	ug/l	277.30	0.7	15000	45	P	
66	**Zn**	2	**40.650**	ug/l	406.50	2.0	15000	45	P	
78	**Se**	2	**0.049**	ug/l	0.49	558.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5699321	2.40	6852000	**83.2**	30	-	120	
45	Sc	1	95417	0.87	249000	**38.3**	30	-	120	
45	Sc	2	263520	0.55	274900	**95.9**	30	-	120	
74	Ge	1	61174	1.23	197500	**31.0**	30	-	120	
74	Ge	2	370260	1.31	437500	**84.6**	30	-	120	
74	Ge	3	1552676	1.30	1769000	**87.8**	30	-	120	
103	Rh	2	685565	0.93	847200	**80.9**	30	-	120	
103	Rh	3	1329328	1.25	1574000	**84.5**	30	-	120	
165	Ho	3	2838977	1.25	3040000	**93.4**	30	-	120	
175	Lu	3	3096746	0.77	3395000	**91.2**	30	-	120	
209	Bi	3	5932724	1.21	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\069SMPL.D\069SMPL.D#
Date Acquired: May 28 2010 05:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	59.3	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	37,420.00	1.1	15000	45	A	
63	**Cu**	2	**9.070**	ug/l	90.70	2.0	15000	45	P	
66	**Zn**	2	**49.290**	ug/l	492.90	1.7	15000	45	P	
78	**Se**	2	**0.229**	ug/l	2.29	176.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5520700	0.74	6852000	**80.6**	30	-	120	
45	Sc	1	86635	0.68	249000	**34.8**	30	-	120	
45	Sc	2	255377	1.17	274900	**92.9**	30	-	120	
74	Ge	1	55648	2.02	197500	**28.2**	30	-	120	**IS Fail**
74	Ge	2	369055	1.06	437500	**84.4**	30	-	120	
74	Ge	3	1558203	0.57	1769000	**88.1**	30	-	120	
103	Rh	2	692258	1.22	847200	**81.7**	30	-	120	
103	Rh	3	1337882	1.22	1574000	**85.0**	30	-	120	
165	Ho	3	2854654	0.67	3040000	**93.9**	30	-	120	
175	Lu	3	3123659	0.47	3395000	**92.0**	30	-	120	
209	Bi	3	5992903	0.87	7067000	**84.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\070SMPL.D\070SMPL.D#
Date Acquired: May 28 2010 05:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.892**	ug/l	8.92	0.6	450	6	P	
60	**Ni**	2	**464.000**	ug/l	4,640.00	0.3	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	510.60	1.9	15000	45	P	
66	**Zn**	2	**93.020**	ug/l	930.20	0.2	15000	45	P	
78	**Se**	2	**0.622**	ug/l	6.22	206.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6334126	1.39	6852000	**92.4**	30	-	120	
45	Sc	1	79241	1.48	249000	**31.8**	30	-	120	
45	Sc	2	253538	1.46	274900	**92.2**	30	-	120	
74	Ge	1	52802	0.63	197500	**26.7**	30	-	120	**IS Fail**
74	Ge	2	386403	1.03	437500	**88.3**	30	-	120	
74	Ge	3	1676619	1.27	1769000	**94.8**	30	-	120	
103	Rh	2	734609	1.54	847200	**86.7**	30	-	120	
103	Rh	3	1437957	0.52	1574000	**91.4**	30	-	120	
165	Ho	3	2946070	0.62	3040000	**96.9**	30	-	120	
175	Lu	3	3263389	0.74	3395000	**96.1**	30	-	120	
209	Bi	3	6444422	0.54	7067000	**91.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\071SMPL.D\071SMPL.D#
Date Acquired: May 28 2010 05:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.061**	ug/l	0.61	2.8	450	6	P	
60	**Ni**	2	**3233.000**	ug/l	32,330.00	0.6	15000	45	A	
63	**Cu**	2	**7.916**	ug/l	79.16	1.3	15000	45	P	
66	**Zn**	2	**44.560**	ug/l	445.60	2.6	15000	45	P	
78	**Se**	2	**0.060**	ug/l	0.60	903.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5904920	1.03	6852000	**86.2**	30	-	120	
45	Sc	1	76497	0.29	249000	**30.7**	30	-	120	
45	Sc	2	248149	2.14	274900	**90.3**	30	-	120	
74	Ge	1	50604	0.47	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	365358	0.50	437500	**83.5**	30	-	120	
74	Ge	3	1593766	1.47	1769000	**90.1**	30	-	120	
103	Rh	2	688483	1.29	847200	**81.3**	30	-	120	
103	Rh	3	1370545	0.38	1574000	**87.1**	30	-	120	
165	Ho	3	2864663	0.96	3040000	**94.2**	30	-	120	
175	Lu	3	3134299	0.90	3395000	**92.3**	30	-	120	
209	Bi	3	6071105	0.90	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\072SMPL.D\072SMPL.D#
Date Acquired: May 28 2010 05:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	1.9	450	6	P	
60	**Ni**	2	**556.700**	ug/l	5,567.00	0.8	15000	45	P	
63	**Cu**	2	**308.300**	ug/l	3,083.00	0.5	15000	45	P	
66	**Zn**	2	**353.600**	ug/l	3,536.00	0.6	15000	45	P	
78	**Se**	2	**1.469**	ug/l	14.69	62.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6700671	0.71	6852000	**97.8**	30	-	120	
45	Sc	1	72128	1.11	249000	**29.0**	30	-	120	**IS Fail**
45	Sc	2	262666	0.28	274900	**95.5**	30	-	120	
74	Ge	1	48224	1.76	197500	**24.4**	30	-	120	**IS Fail**
74	Ge	2	387468	1.22	437500	**88.6**	30	-	120	
74	Ge	3	1745382	0.93	1769000	**98.7**	30	-	120	
103	Rh	2	736270	1.60	847200	**86.9**	30	-	120	
103	Rh	3	1498793	0.72	1574000	**95.2**	30	-	120	
165	Ho	3	3049019	0.33	3040000	**100.3**	30	-	120	
175	Lu	3	3295420	0.25	3395000	**97.1**	30	-	120	
209	Bi	3	6562716	1.06	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\073SMPL.D\073SMPL.D#
Date Acquired: May 28 2010 06:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.995**	ug/l	9.95	1.4	450	6	P	
60	**Ni**	2	**1292.000**	ug/l	12,920.00	1.5	15000	45	A	
63	**Cu**	2	**102.500**	ug/l	1,025.00	1.1	15000	45	P	
66	**Zn**	2	**180.100**	ug/l	1,801.00	1.2	15000	45	P	
78	**Se**	2	**1.105**	ug/l	11.05	33.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6629905	0.75	6852000	**96.8**	30	-	120	
45	Sc	1	70516	1.82	249000	**28.3**	30	-	120	**IS Fail**
45	Sc	2	264528	1.09	274900	**96.2**	30	-	120	
74	Ge	1	45323	1.77	197500	**22.9**	30	-	120	**IS Fail**
74	Ge	2	390945	0.98	437500	**89.4**	30	-	120	
74	Ge	3	1716809	1.08	1769000	**97.0**	30	-	120	
103	Rh	2	745781	1.68	847200	**88.0**	30	-	120	
103	Rh	3	1481213	1.18	1574000	**94.1**	30	-	120	
165	Ho	3	2971081	0.88	3040000	**97.7**	30	-	120	
175	Lu	3	3252769	0.99	3395000	**95.8**	30	-	120	
209	Bi	3	6546621	0.95	7067000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\074SMPL.D\074SMPL.D#
Date Acquired: May 28 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.031**	ug/l	10.31	2.2	450	6	P	
60	**Ni**	2	**123.200**	ug/l	1,232.00	0.8	15000	45	P	
63	**Cu**	2	**55.070**	ug/l	550.70	1.4	15000	45	P	
66	**Zn**	2	**121.800**	ug/l	1,218.00	0.8	15000	45	P	
78	**Se**	2	**1.106**	ug/l	11.06	115.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6517258	1.20	6852000	**95.1**	30	-	120	
45	Sc	1	68689	1.81	249000	**27.6**	30	-	120	**IS Fail**
45	Sc	2	258465	1.34	274900	**94.0**	30	-	120	
74	Ge	1	45574	0.42	197500	**23.1**	30	-	120	**IS Fail**
74	Ge	2	390031	0.65	437500	**89.2**	30	-	120	
74	Ge	3	1691504	0.78	1769000	**95.6**	30	-	120	
103	Rh	2	745003	0.62	847200	**87.9**	30	-	120	
103	Rh	3	1463268	0.34	1574000	**93.0**	30	-	120	
165	Ho	3	2967739	1.50	3040000	**97.6**	30	-	120	
175	Lu	3	3251644	1.56	3395000	**95.8**	30	-	120	
209	Bi	3	6509133	0.85	7067000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\075SMPL.D\075SMPL.D#
Date Acquired: May 28 2010 06:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.600**	ug/l	6.00	7.4	450	6	P	
60	**Ni**	2	**2637.000**	ug/l	26,370.00	1.1	15000	45	A	
63	**Cu**	2	**50.330**	ug/l	503.30	1.3	15000	45	P	
66	**Zn**	2	**110.800**	ug/l	1,108.00	0.6	15000	45	P	
78	**Se**	2	**0.214**	ug/l	2.14	74.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5935311	0.42	6852000	**86.6**	30	-	120	
45	Sc	1	72778	0.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	259598	0.22	274900	**94.4**	30	-	120	
74	Ge	1	46280	2.53	197500	**23.4**	30	-	120	**IS Fail**
74	Ge	2	375706	1.16	437500	**85.9**	30	-	120	
74	Ge	3	1613272	1.66	1769000	**91.2**	30	-	120	
103	Rh	2	704648	1.29	847200	**83.2**	30	-	120	
103	Rh	3	1400288	0.40	1574000	**89.0**	30	-	120	
165	Ho	3	2861369	1.26	3040000	**94.1**	30	-	120	
175	Lu	3	3142963	1.13	3395000	**92.6**	30	-	120	
209	Bi	3	6030387	1.15	7067000	**85.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\076SMPL.D\076SMPL.D#
Date Acquired: May 28 2010 06:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.870**	ug/l	8.70	5.6	450	6	P	
60	**Ni**	2	**4858.000**	ug/l	48,580.00	1.6	15000	45	A	
63	**Cu**	2	**35.060**	ug/l	350.60	1.2	15000	45	P	
66	**Zn**	2	**108.100**	ug/l	1,081.00	0.7	15000	45	P	
78	**Se**	2	**0.972**	ug/l	9.72	40.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5951190	0.92	6852000	**86.9**	30	-	120	
45	Sc	1	65449	1.20	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	278083	1.21	274900	**101.2**	30	-	120	
74	Ge	1	39329	4.16	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	383252	0.33	437500	**87.6**	30	-	120	
74	Ge	3	1682476	0.73	1769000	**95.1**	30	-	120	
103	Rh	2	718017	0.98	847200	**84.8**	30	-	120	
103	Rh	3	1437001	0.63	1574000	**91.3**	30	-	120	
165	Ho	3	2932154	1.04	3040000	**96.5**	30	-	120	
175	Lu	3	3208415	0.42	3395000	**94.5**	30	-	120	
209	Bi	3	6097560	1.39	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\077SMPL.D\077SMPL.D#
Date Acquired: May 28 2010 06:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.015**	ug/l	10.15	5.1	450	6	P	
60	**Ni**	2	**2506.000**	ug/l	25,060.00	1.1	15000	45	A	
63	**Cu**	2	**70.130**	ug/l	701.30	1.4	15000	45	P	
66	**Zn**	2	**154.300**	ug/l	1,543.00	0.8	15000	45	P	
78	**Se**	2	**1.207**	ug/l	12.07	65.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6248976	1.13	6852000	**91.2**	30	-	120	
45	Sc	1	54063	2.58	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	271620	1.40	274900	**98.8**	30	-	120	
74	Ge	1	32687	6.07	197500	**16.6**	30	-	120	**IS Fail**
74	Ge	2	388007	1.01	437500	**88.7**	30	-	120	
74	Ge	3	1693095	0.39	1769000	**95.7**	30	-	120	
103	Rh	2	729235	2.00	847200	**86.1**	30	-	120	
103	Rh	3	1477116	0.81	1574000	**93.8**	30	-	120	
165	Ho	3	2983836	1.19	3040000	**98.2**	30	-	120	
175	Lu	3	3210221	0.64	3395000	**94.6**	30	-	120	
209	Bi	3	6220862	1.41	7067000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\078SMPL.D\078SMPL.D#
Date Acquired: May 28 2010 06:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.220**	ug/l	49.22	2.4	450	6	P	
60	**Ni**	2	**53.720**	ug/l	53.72	0.6	15000	45	P	
63	**Cu**	2	**52.910**	ug/l	52.91	0.5	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	1.4	15000	45	P	
78	**Se**	2	**47.920**	ug/l	47.92	6.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6260111	1.92	6852000	**91.4**	30	-	120	
45	Sc	1	56403	2.72	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	238529	0.75	274900	**86.8**	30	-	120	
74	Ge	1	39433	0.85	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390542	0.97	437500	**89.3**	30	-	120	
74	Ge	3	1725633	0.97	1769000	**97.5**	30	-	120	
103	Rh	2	760116	0.39	847200	**89.7**	30	-	120	
103	Rh	3	1503851	0.24	1574000	**95.5**	30	-	120	
165	Ho	3	3007237	0.20	3040000	**98.9**	30	-	120	
175	Lu	3	3292818	0.84	3395000	**97.0**	30	-	120	
209	Bi	3	6758967	0.69	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\079SMPL.D\079SMPL.D#
Date Acquired: May 28 2010 06:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	23.3	450	6	P	
60	**Ni**	2	**0.486**	ug/l	0.49	6.8	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.05	56.3	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	9.8	15000	45	P	
78	**Se**	2	**-0.093**	ug/l	-0.09	152.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6057252	2.10	6852000	**88.4**	30	-	120	
45	Sc	1	60977	2.97	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	241545	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44510	1.83	197500	**22.5**	30	-	120	**IS Fail**
74	Ge	2	399340	1.57	437500	**91.3**	30	-	120	
74	Ge	3	1682463	1.12	1769000	**95.1**	30	-	120	
103	Rh	2	791098	0.77	847200	**93.4**	30	-	120	
103	Rh	3	1494773	2.30	1574000	**95.0**	30	-	120	
165	Ho	3	2983307	0.69	3040000	**98.1**	30	-	120	
175	Lu	3	3290021	2.08	3395000	**96.9**	30	-	120	
209	Bi	3	6940340	0.81	7067000	**98.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\080SMPL.D\080SMPL.D#
Date Acquired: May 28 2010 06:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.268**	ug/l	12.68	1.9	450	6	P	
60	**Ni**	2	**2360.000**	ug/l	23,600.00	1.8	15000	45	A	
63	**Cu**	2	**70.210**	ug/l	702.10	0.4	15000	45	P	
66	**Zn**	2	**140.200**	ug/l	1,402.00	0.5	15000	45	P	
78	**Se**	2	**0.946**	ug/l	9.46	56.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6201590	0.56	6852000	**90.5**	30	-	120	
45	Sc	1	67691	0.62	249000	**27.2**	30	-	120	**IS Fail**
45	Sc	2	272189	1.23	274900	**99.0**	30	-	120	
74	Ge	1	42339	1.23	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	388991	0.94	437500	**88.9**	30	-	120	
74	Ge	3	1739492	0.44	1769000	**98.3**	30	-	120	
103	Rh	2	732315	0.38	847200	**86.4**	30	-	120	
103	Rh	3	1462500	0.92	1574000	**92.9**	30	-	120	
165	Ho	3	3022663	0.25	3040000	**99.4**	30	-	120	
175	Lu	3	3269136	0.75	3395000	**96.3**	30	-	120	
209	Bi	3	6360283	0.83	7067000	**90.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\081SMPL.D\081SMPL.D#
Date Acquired: May 28 2010 06:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.355**	ug/l	13.55	2.0	450	6	P	
60	**Ni**	2	**584.500**	ug/l	5,845.00	0.5	15000	45	P	
63	**Cu**	2	**60.100**	ug/l	601.00	0.2	15000	45	P	
66	**Zn**	2	**125.600**	ug/l	1,256.00	2.5	15000	45	P	
78	**Se**	2	**0.353**	ug/l	3.53	112.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6238944	1.39	6852000	**91.1**	30	-	120	
45	Sc	1	57049	1.57	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	262920	1.48	274900	**95.6**	30	-	120	
74	Ge	1	36126	2.54	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	388334	1.92	437500	**88.8**	30	-	120	
74	Ge	3	1660920	0.65	1769000	**93.9**	30	-	120	
103	Rh	2	745981	1.39	847200	**88.1**	30	-	120	
103	Rh	3	1438159	0.67	1574000	**91.4**	30	-	120	
165	Ho	3	2962077	0.19	3040000	**97.4**	30	-	120	
175	Lu	3	3216173	0.50	3395000	**94.7**	30	-	120	
209	Bi	3	6462683	1.38	7067000	**91.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\082SMPL.D\082SMPL.D#
Date Acquired: May 28 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.037**	ug/l	10.37	1.2	450	6	P	
60	**Ni**	2	**541.100**	ug/l	5,411.00	1.3	15000	45	P	
63	**Cu**	2	**76.190**	ug/l	761.90	1.3	15000	45	P	
66	**Zn**	2	**125.800**	ug/l	1,258.00	2.1	15000	45	P	
78	**Se**	2	**1.597**	ug/l	15.97	15.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6259212	0.81	6852000	**91.3**	30	-	120	
45	Sc	1	56228	1.38	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	254262	1.66	274900	**92.5**	30	-	120	
74	Ge	1	36414	3.55	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	379784	2.19	437500	**86.8**	30	-	120	
74	Ge	3	1662880	1.45	1769000	**94.0**	30	-	120	
103	Rh	2	724906	1.11	847200	**85.6**	30	-	120	
103	Rh	3	1427894	1.12	1574000	**90.7**	30	-	120	
165	Ho	3	2946787	0.86	3040000	**96.9**	30	-	120	
175	Lu	3	3239531	0.66	3395000	**95.4**	30	-	120	
209	Bi	3	6406460	0.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\083SMPL.D\083SMPL.D#
Date Acquired: May 28 2010 07:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.043**	ug/l	10.43	1.6	450	6	P	
60	**Ni**	2	**1928.000**	ug/l	19,280.00	0.8	15000	45	A	
63	**Cu**	2	**74.150**	ug/l	741.50	2.2	15000	45	P	
66	**Zn**	2	**134.100**	ug/l	1,341.00	2.3	15000	45	P	
78	**Se**	2	**0.457**	ug/l	4.57	88.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6093611	1.03	6852000	**88.9**	30	-	120	
45	Sc	1	55235	0.44	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	260475	0.94	274900	**94.8**	30	-	120	
74	Ge	1	34486	2.53	197500	**17.5**	30	-	120	**IS Fail**
74	Ge	2	382660	0.68	437500	**87.5**	30	-	120	
74	Ge	3	1704007	1.11	1769000	**96.3**	30	-	120	
103	Rh	2	726875	1.42	847200	**85.8**	30	-	120	
103	Rh	3	1443580	1.06	1574000	**91.7**	30	-	120	
165	Ho	3	2991074	0.30	3040000	**98.4**	30	-	120	
175	Lu	3	3265039	1.04	3395000	**96.2**	30	-	120	
209	Bi	3	6319258	0.25	7067000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\084SMPL.D\084SMPL.D#
Date Acquired: May 28 2010 07:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.409**	ug/l	4.09	1.3	450	6	P	
60	**Ni**	2	**2823.000**	ug/l	28,230.00	2.3	15000	45	A	
63	**Cu**	2	**66.540**	ug/l	665.40	2.0	15000	45	P	
66	**Zn**	2	**80.470**	ug/l	804.70	1.5	15000	45	P	
78	**Se**	2	**0.206**	ug/l	2.06	68.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5902478	1.60	6852000	**86.1**	30	-	120	
45	Sc	1	51281	0.83	249000	**20.6**	30	-	120	**IS Fail**
45	Sc	2	263991	1.27	274900	**96.0**	30	-	120	
74	Ge	1	30852	1.01	197500	**15.6**	30	-	120	**IS Fail**
74	Ge	2	378015	1.53	437500	**86.4**	30	-	120	
74	Ge	3	1657885	0.84	1769000	**93.7**	30	-	120	
103	Rh	2	714263	2.00	847200	**84.3**	30	-	120	
103	Rh	3	1440409	0.44	1574000	**91.5**	30	-	120	
165	Ho	3	2970264	0.67	3040000	**97.7**	30	-	120	
175	Lu	3	3245016	1.39	3395000	**95.6**	30	-	120	
209	Bi	3	6244226	0.30	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\085SMPL.D\085SMPL.D#
Date Acquired: May 28 2010 07:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.867**	ug/l	8.67	5.2	450	6	P	
60	**Ni**	2	**2433.000**	ug/l	24,330.00	0.4	15000	45	A	
63	**Cu**	2	**62.240**	ug/l	622.40	1.0	15000	45	P	
66	**Zn**	2	**134.700**	ug/l	1,347.00	1.5	15000	45	P	
78	**Se**	2	**1.355**	ug/l	13.55	78.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5929311	0.82	6852000	**86.5**	30	-	120	
45	Sc	1	49768	0.80	249000	**20.0**	30	-	120	**IS Fail**
45	Sc	2	259621	0.37	274900	**94.4**	30	-	120	
74	Ge	1	30538	0.77	197500	**15.5**	30	-	120	**IS Fail**
74	Ge	2	376998	0.63	437500	**86.2**	30	-	120	
74	Ge	3	1648660	0.90	1769000	**93.2**	30	-	120	
103	Rh	2	726739	0.39	847200	**85.8**	30	-	120	
103	Rh	3	1413659	0.94	1574000	**89.8**	30	-	120	
165	Ho	3	2908795	1.72	3040000	**95.7**	30	-	120	
175	Lu	3	3191475	0.47	3395000	**94.0**	30	-	120	
209	Bi	3	6334268	0.56	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\086SMPL.D\086SMPL.D#
Date Acquired: May 28 2010 07:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.200**	ug/l	48.20	0.6	450	6	P	
60	**Ni**	2	**53.690**	ug/l	53.69	2.7	15000	45	P	
63	**Cu**	2	**53.370**	ug/l	53.37	1.6	15000	45	P	
66	**Zn**	2	**52.790**	ug/l	52.79	0.8	15000	45	P	
78	**Se**	2	**50.670**	ug/l	50.67	7.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144418	0.18	6852000	**89.7**	30	-	120	
45	Sc	1	50304	2.79	249000	**20.2**	30	-	120	**IS Fail**
45	Sc	2	231495	0.74	274900	**84.2**	30	-	120	
74	Ge	1	35388	2.00	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	383574	1.23	437500	**87.7**	30	-	120	
74	Ge	3	1668919	0.76	1769000	**94.3**	30	-	120	
103	Rh	2	752756	0.60	847200	**88.9**	30	-	120	
103	Rh	3	1462007	1.45	1574000	**92.9**	30	-	120	
165	Ho	3	3023466	1.40	3040000	**99.5**	30	-	120	
175	Lu	3	3322933	0.87	3395000	**97.9**	30	-	120	
209	Bi	3	6794372	0.69	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\087SMPL.D\087SMPL.D#
Date Acquired: May 28 2010 07:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	12.8	450	6	P	
60	**Ni**	2	**0.412**	ug/l	0.41	17.9	15000	45	P	
63	**Cu**	2	**0.050**	ug/l	0.05	36.6	15000	45	P	
66	**Zn**	2	**0.202**	ug/l	0.20	27.2	15000	45	P	
78	**Se**	2	**-0.247**	ug/l	-0.25	180.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5895512	3.19	6852000	**86.0**	30	-	120	
45	Sc	1	55107	1.14	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	237307	1.25	274900	**86.3**	30	-	120	
74	Ge	1	39543	0.63	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390955	1.04	437500	**89.4**	30	-	120	
74	Ge	3	1652299	0.57	1769000	**93.4**	30	-	120	
103	Rh	2	779757	0.68	847200	**92.0**	30	-	120	
103	Rh	3	1479446	1.52	1574000	**94.0**	30	-	120	
165	Ho	3	2988885	0.85	3040000	**98.3**	30	-	120	
175	Lu	3	3276155	1.97	3395000	**96.5**	30	-	120	
209	Bi	3	6901166	1.15	7067000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\088SMPL.D\088SMPL.D#
Date Acquired: May 28 2010 07:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	4.2	450	6	P	
60	**Ni**	2	**0.114**	ug/l	0.11	13.3	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.01	77.9	15000	45	P	
66	**Zn**	2	**0.028**	ug/l	0.03	123.2	15000	45	P	
78	**Se**	2	**0.002**	ug/l	0.00	14817.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5835541	1.82	6852000	**85.2**	30	-	120	
45	Sc	1	57394	2.85	249000	**23.0**	30	-	120	**IS Fail**
45	Sc	2	237275	0.31	274900	**86.3**	30	-	120	
74	Ge	1	41466	2.14	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	393602	1.27	437500	**90.0**	30	-	120	
74	Ge	3	1651321	1.57	1769000	**93.3**	30	-	120	
103	Rh	2	787887	1.10	847200	**93.0**	30	-	120	
103	Rh	3	1491401	0.38	1574000	**94.8**	30	-	120	
165	Ho	3	3014122	1.18	3040000	**99.1**	30	-	120	
175	Lu	3	3287048	0.40	3395000	**96.8**	30	-	120	
209	Bi	3	6987587	0.38	7067000	**98.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\089SMPL.D\089SMPL.D#
Date Acquired: May 28 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	869.7	450	6	P	
60	**Ni**	2	**0.218**	ug/l	1.09	32.5	15000	45	P	
63	**Cu**	2	**0.066**	ug/l	0.33	5.1	15000	45	P	
66	**Zn**	2	**0.271**	ug/l	1.35	19.3	15000	45	P	
78	**Se**	2	**-0.084**	ug/l	-0.42	350.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5842976	1.02	6852000	**85.3**	30	-	120	
45	Sc	1	61429	1.68	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	236583	0.54	274900	**86.1**	30	-	120	
74	Ge	1	44273	0.44	197500	**22.4**	30	-	120	**IS Fail**
74	Ge	2	394839	1.17	437500	**90.2**	30	-	120	
74	Ge	3	1670008	2.24	1769000	**94.4**	30	-	120	
103	Rh	2	779431	1.99	847200	**92.0**	30	-	120	
103	Rh	3	1500061	1.81	1574000	**95.3**	30	-	120	
165	Ho	3	3053922	0.56	3040000	**100.5**	30	-	120	
175	Lu	3	3329271	0.92	3395000	**98.1**	30	-	120	
209	Bi	3	6930660	1.24	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\090SMPL.D\090SMPL.D#
Date Acquired: May 28 2010 07:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	413.2	450	6	P	
60	**Ni**	2	**1.206**	ug/l	1.21	10.7	15000	45	P	
63	**Cu**	2	**0.448**	ug/l	0.45	3.9	15000	45	P	
66	**Zn**	2	**9.300**	ug/l	9.30	12.3	15000	45	P	
78	**Se**	2	**0.057**	ug/l	0.06	991.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5657028	0.68	6852000	**82.6**	30	-	120	
45	Sc	1	57615	1.95	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230279	1.05	274900	**83.8**	30	-	120	
74	Ge	1	42908	2.47	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	406948	1.22	437500	**93.0**	30	-	120	
74	Ge	3	1736066	0.48	1769000	**98.1**	30	-	120	
103	Rh	2	724596	1.60	847200	**85.5**	30	-	120	
103	Rh	3	1388638	0.83	1574000	**88.2**	30	-	120	
165	Ho	3	2934400	0.75	3040000	**96.5**	30	-	120	
175	Lu	3	3195435	1.17	3395000	**94.1**	30	-	120	
209	Bi	3	6523066	1.02	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\091SMPL.D\091SMPL.D#
Date Acquired: May 28 2010 07:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	122.4	450	6	P	
60	**Ni**	2	**1.216**	ug/l	1.22	16.8	15000	45	P	
63	**Cu**	2	**0.415**	ug/l	0.41	6.8	15000	45	P	
66	**Zn**	2	**2.012**	ug/l	2.01	3.1	15000	45	P	
78	**Se**	2	**-0.269**	ug/l	-0.27	239.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457596	1.76	6852000	**79.6**	30	-	120	
45	Sc	1	55177	1.77	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	231056	0.65	274900	**84.1**	30	-	120	
74	Ge	1	41129	1.63	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	407134	0.68	437500	**93.1**	30	-	120	
74	Ge	3	1728010	0.57	1769000	**97.7**	30	-	120	
103	Rh	2	731990	0.43	847200	**86.4**	30	-	120	
103	Rh	3	1386805	0.91	1574000	**88.1**	30	-	120	
165	Ho	3	2969429	0.26	3040000	**97.7**	30	-	120	
175	Lu	3	3226570	0.58	3395000	**95.0**	30	-	120	
209	Bi	3	6576926	0.37	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\092SMPL.D\092SMPL.D#
Date Acquired: May 28 2010 07:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.946**	ug/l	97.30	2.9	450	6	P	
60	**Ni**	2	**20.760**	ug/l	1,038.00	5.5	15000	45	P	
63	**Cu**	2	**10.590**	ug/l	529.50	1.3	15000	45	P	
66	**Zn**	2	**20.850**	ug/l	1,042.50	1.1	15000	45	P	
78	**Se**	2	**79.370**	ug/l	3,968.50	9.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6118107	1.46	6852000	**89.3**	30	-	120	
45	Sc	1	56647	1.65	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	246524	1.02	274900	**89.7**	30	-	120	
74	Ge	1	41440	1.38	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	403269	1.83	437500	**92.2**	30	-	120	
74	Ge	3	1718269	0.63	1769000	**97.1**	30	-	120	
103	Rh	2	798756	1.53	847200	**94.3**	30	-	120	
103	Rh	3	1560934	1.22	1574000	**99.2**	30	-	120	
165	Ho	3	3096874	0.58	3040000	**101.9**	30	-	120	
175	Lu	3	3391869	1.18	3395000	**99.9**	30	-	120	
209	Bi	3	7120210	0.53	7067000	**100.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\093SMPL.D\093SMPL.D#
Date Acquired: May 28 2010 08:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.998**	ug/l	99.90	1.6	450	6	P	
60	**Ni**	2	**21.750**	ug/l	1,087.50	2.5	15000	45	P	
63	**Cu**	2	**11.110**	ug/l	555.50	2.9	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	6.1	15000	45	P	
78	**Se**	2	**81.020**	ug/l	4,051.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6179661	1.19	6852000	**90.2**	30	-	120	
45	Sc	1	57039	1.44	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	241823	0.60	274900	**88.0**	30	-	120	
74	Ge	1	41955	1.01	197500	**21.2**	30	-	120	**IS Fail**
74	Ge	2	401593	0.82	437500	**91.8**	30	-	120	
74	Ge	3	1720391	0.85	1769000	**97.3**	30	-	120	
103	Rh	2	795418	1.79	847200	**93.9**	30	-	120	
103	Rh	3	1553296	0.44	1574000	**98.7**	30	-	120	
165	Ho	3	3101839	0.88	3040000	**102.0**	30	-	120	
175	Lu	3	3376803	0.89	3395000	**99.5**	30	-	120	
209	Bi	3	7082393	0.74	7067000	**100.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\094SMPL.D\094SMPL.D#
Date Acquired: May 28 2010 08:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.001**	ug/l	100.05	2.8	450	6	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	2.7	15000	45	P	
66	**Zn**	2	**22.620**	ug/l	1,131.00	0.5	15000	45	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6256188	2.20	6852000	**91.3**	30	-	120	
45	Sc	1	58398	0.47	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	243727	0.37	274900	**88.7**	30	-	120	
74	Ge	1	43406	0.12	197500	**22.0**	30	-	120	**IS Fail**
74	Ge	2	397767	1.52	437500	**90.9**	30	-	120	
74	Ge	3	1734505	0.84	1769000	**98.1**	30	-	120	
103	Rh	2	797091	1.12	847200	**94.1**	30	-	120	
103	Rh	3	1557440	0.35	1574000	**98.9**	30	-	120	
165	Ho	3	3062524	1.07	3040000	**100.7**	30	-	120	
175	Lu	3	3412736	1.21	3395000	**100.5**	30	-	120	
209	Bi	3	7105603	1.48	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\095SMPL.D\095SMPL.D#
Date Acquired: May 28 2010 08:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	2.7	450	6	P	
60	**Ni**	2	**20.630**	ug/l	1,031.50	4.7	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.1	15000	45	P	
66	**Zn**	2	**20.970**	ug/l	1,048.50	5.9	15000	45	P	
78	**Se**	2	**79.590**	ug/l	3,979.50	3.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5914554	1.31	6852000	**86.3**	30	-	120	
45	Sc	1	59540	1.48	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	240192	0.79	274900	**87.4**	30	-	120	
74	Ge	1	43175	0.23	197500	**21.9**	30	-	120	**IS Fail**
74	Ge	2	398552	0.40	437500	**91.1**	30	-	120	
74	Ge	3	1696777	1.05	1769000	**95.9**	30	-	120	
103	Rh	2	787039	1.50	847200	**92.9**	30	-	120	
103	Rh	3	1542718	1.84	1574000	**98.0**	30	-	120	
165	Ho	3	3072486	1.30	3040000	**101.1**	30	-	120	
175	Lu	3	3337843	0.89	3395000	**98.3**	30	-	120	
209	Bi	3	7062882	1.39	7067000	**99.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\096SMPL.D\096SMPL.D#
Date Acquired: May 28 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	5.5	450	6	P	
60	**Ni**	2	**21.040**	ug/l	1,052.00	1.6	15000	45	P	
63	**Cu**	2	**10.890**	ug/l	544.50	3.3	15000	45	P	
66	**Zn**	2	**20.560**	ug/l	1,028.00	1.5	15000	45	P	
78	**Se**	2	**80.980**	ug/l	4,049.00	15.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5810710	1.91	6852000	**84.8**	30	-	120	
45	Sc	1	62424	3.87	249000	**25.1**	30	-	120	**IS Fail**
45	Sc	2	241553	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44851	1.33	197500	**22.7**	30	-	120	**IS Fail**
74	Ge	2	398628	0.18	437500	**91.1**	30	-	120	
74	Ge	3	1705406	0.99	1769000	**96.4**	30	-	120	
103	Rh	2	798424	1.23	847200	**94.2**	30	-	120	
103	Rh	3	1540798	0.24	1574000	**97.9**	30	-	120	
165	Ho	3	3042535	0.70	3040000	**100.1**	30	-	120	
175	Lu	3	3332364	0.25	3395000	**98.2**	30	-	120	
209	Bi	3	7044826	0.36	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\097SMPL.D\097SMPL.D#
Date Acquired: May 28 2010 08:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.150**	ug/l	49.15	0.8	450	6	P	
60	**Ni**	2	**52.070**	ug/l	52.07	2.3	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	0.8	15000	45	P	
66	**Zn**	2	**51.390**	ug/l	51.39	3.0	15000	45	P	
78	**Se**	2	**47.720**	ug/l	47.72	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6021791	1.39	6852000	**87.9**	30	-	120	
45	Sc	1	65623	1.37	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239976	1.16	274900	**87.3**	30	-	120	
74	Ge	1	49345	1.19	197500	**25.0**	30	-	120	**IS Fail**
74	Ge	2	398956	0.78	437500	**91.2**	30	-	120	
74	Ge	3	1701269	1.54	1769000	**96.2**	30	-	120	
103	Rh	2	773072	0.83	847200	**91.3**	30	-	120	
103	Rh	3	1510861	0.77	1574000	**96.0**	30	-	120	
165	Ho	3	3070122	0.64	3040000	**101.0**	30	-	120	
175	Lu	3	3294409	0.82	3395000	**97.0**	30	-	120	
209	Bi	3	6899279	0.45	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\098SMPL.D\098SMPL.D#
Date Acquired: May 28 2010 08:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	4.5	450	6	P	
60	**Ni**	2	**0.044**	ug/l	0.04	57.4	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	14.6	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	37.3	15000	45	P	
78	**Se**	2	**-0.183**	ug/l	-0.18	74.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5827561	0.13	6852000	**85.0**	30	-	120	
45	Sc	1	64461	2.20	249000	**25.9**	30	-	120	**IS Fail**
45	Sc	2	241648	1.33	274900	**87.9**	30	-	120	
74	Ge	1	47337	0.35	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	403365	1.11	437500	**92.2**	30	-	120	
74	Ge	3	1681381	0.24	1769000	**95.0**	30	-	120	
103	Rh	2	800628	1.78	847200	**94.5**	30	-	120	
103	Rh	3	1527971	1.29	1574000	**97.1**	30	-	120	
165	Ho	3	3017232	0.88	3040000	**99.3**	30	-	120	
175	Lu	3	3324387	1.72	3395000	**97.9**	30	-	120	
209	Bi	3	7101778	0.52	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\099SMPL.D\099SMPL.D#
Date Acquired: May 28 2010 08:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	85.9	450	6	P	
60	**Ni**	2	**3.833**	ug/l	3.83	2.9	15000	45	P	
63	**Cu**	2	**0.525**	ug/l	0.53	6.8	15000	45	P	
66	**Zn**	2	**2.167**	ug/l	2.17	7.3	15000	45	P	
78	**Se**	2	**0.077**	ug/l	0.08	806.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5152110	0.19	6852000	**75.2**	30	-	120	
45	Sc	1	56490	2.17	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	225012	0.65	274900	**81.9**	30	-	120	
74	Ge	1	42119	2.29	197500	**21.3**	30	-	120	**IS Fail**
74	Ge	2	395014	1.52	437500	**90.3**	30	-	120	
74	Ge	3	1665210	0.80	1769000	**94.1**	30	-	120	
103	Rh	2	705472	1.11	847200	**83.3**	30	-	120	
103	Rh	3	1330874	1.15	1574000	**84.6**	30	-	120	
165	Ho	3	2878352	0.74	3040000	**94.7**	30	-	120	
175	Lu	3	3219350	0.40	3395000	**94.8**	30	-	120	
209	Bi	3	6367684	0.59	7067000	**90.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 08:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	100.0	450	6	P	
60	**Ni**	2	**2.229**	ug/l	2.23	2.5	15000	45	P	
63	**Cu**	2	**1.139**	ug/l	1.14	6.7	15000	45	P	
66	**Zn**	2	**1.928**	ug/l	1.93	17.6	15000	45	P	
78	**Se**	2	**-0.103**	ug/l	-0.10	550.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5004333	2.02	6852000	**73.0**	30	-	120	
45	Sc	1	55843	4.34	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	229152	1.15	274900	**83.4**	30	-	120	
74	Ge	1	42276	0.57	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	404356	0.66	437500	**92.4**	30	-	120	
74	Ge	3	1697402	0.10	1769000	**96.0**	30	-	120	
103	Rh	2	713273	1.43	847200	**84.2**	30	-	120	
103	Rh	3	1341467	0.78	1574000	**85.2**	30	-	120	
165	Ho	3	2980127	1.23	3040000	**98.0**	30	-	120	
175	Lu	3	3263256	0.78	3395000	**96.1**	30	-	120	
209	Bi	3	6485201	0.45	7067000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 08:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	194.3	450	6	P	
60	**Ni**	2	**3.396**	ug/l	3.40	3.7	15000	45	P	
63	**Cu**	2	**2.057**	ug/l	2.06	1.9	15000	45	P	
66	**Zn**	2	**1.724**	ug/l	1.72	14.3	15000	45	P	
78	**Se**	2	**-0.010**	ug/l	-0.01	5252.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5041678	2.29	6852000	**73.6**	30	-	120	
45	Sc	1	55535	1.50	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	225980	1.05	274900	**82.2**	30	-	120	
74	Ge	1	41467	2.45	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	399803	0.68	437500	**91.4**	30	-	120	
74	Ge	3	1672606	0.70	1769000	**94.6**	30	-	120	
103	Rh	2	718820	1.48	847200	**84.8**	30	-	120	
103	Rh	3	1361847	1.24	1574000	**86.5**	30	-	120	
165	Ho	3	2950973	0.51	3040000	**97.1**	30	-	120	
175	Lu	3	3263056	0.65	3395000	**96.1**	30	-	120	
209	Bi	3	6478897	0.63	7067000	**91.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 09:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	265.2	450	6	P	
60	**Ni**	2	**3.482**	ug/l	3.48	1.6	15000	45	P	
63	**Cu**	2	**1.550**	ug/l	1.55	10.3	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	15.0	15000	45	P	
78	**Se**	2	**-0.499**	ug/l	-0.50	52.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4816418	0.91	6852000	**70.3**	30	-	120	
45	Sc	1	54441	2.19	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	219701	1.78	274900	**79.9**	30	-	120	
74	Ge	1	40456	2.71	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	388968	1.94	437500	**88.9**	30	-	120	
74	Ge	3	1632186	0.96	1769000	**92.3**	30	-	120	
103	Rh	2	706328	1.24	847200	**83.4**	30	-	120	
103	Rh	3	1315850	1.62	1574000	**83.6**	30	-	120	
165	Ho	3	2920361	0.73	3040000	**96.1**	30	-	120	
175	Lu	3	3245035	0.89	3395000	**95.6**	30	-	120	
209	Bi	3	6527499	0.83	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	147.6	450	6	P	
60	**Ni**	2	**0.908**	ug/l	0.91	7.0	15000	45	P	
63	**Cu**	2	**0.332**	ug/l	0.33	13.2	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	17.7	15000	45	P	
78	**Se**	2	**0.171**	ug/l	0.17	426.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4845485	1.30	6852000	**70.7**	30	-	120	
45	Sc	1	54079	0.38	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	220713	1.42	274900	**80.3**	30	-	120	
74	Ge	1	40366	1.21	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	392093	0.33	437500	**89.6**	30	-	120	
74	Ge	3	1636421	0.36	1769000	**92.5**	30	-	120	
103	Rh	2	699937	0.61	847200	**82.6**	30	-	120	
103	Rh	3	1308757	1.25	1574000	**83.1**	30	-	120	
165	Ho	3	2940713	0.19	3040000	**96.7**	30	-	120	
175	Lu	3	3251944	0.59	3395000	**95.8**	30	-	120	
209	Bi	3	6412341	1.06	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 09:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	42.0	450	6	P	
60	**Ni**	2	**1.677**	ug/l	1.68	3.6	15000	45	P	
63	**Cu**	2	**0.571**	ug/l	0.57	5.8	15000	45	P	
66	**Zn**	2	**1.998**	ug/l	2.00	1.9	15000	45	P	
78	**Se**	2	**0.266**	ug/l	0.27	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4668144	1.26	6852000	**68.1**	30	-	120	
45	Sc	1	55596	0.10	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	218601	0.58	274900	**79.5**	30	-	120	
74	Ge	1	41550	0.76	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	388162	0.62	437500	**88.7**	30	-	120	
74	Ge	3	1618009	0.22	1769000	**91.5**	30	-	120	
103	Rh	2	692632	0.83	847200	**81.8**	30	-	120	
103	Rh	3	1287240	3.01	1574000	**81.8**	30	-	120	
165	Ho	3	2904288	0.28	3040000	**95.5**	30	-	120	
175	Lu	3	3217416	1.09	3395000	**94.8**	30	-	120	
209	Bi	3	6409716	0.35	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 09:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	15.1	450	6	P	
60	**Ni**	2	**1.084**	ug/l	5.42	6.0	15000	45	P	
63	**Cu**	2	**1.076**	ug/l	5.38	8.9	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	8.2	15000	45	P	
78	**Se**	2	**0.445**	ug/l	2.22	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5434473	0.86	6852000	**79.3**	30	-	120	
45	Sc	1	62803	1.83	249000	**25.2**	30	-	120	**IS Fail**
45	Sc	2	232699	0.79	274900	**84.6**	30	-	120	
74	Ge	1	45343	0.38	197500	**23.0**	30	-	120	**IS Fail**
74	Ge	2	385882	0.72	437500	**88.2**	30	-	120	
74	Ge	3	1646495	0.55	1769000	**93.1**	30	-	120	
103	Rh	2	731534	1.12	847200	**86.3**	30	-	120	
103	Rh	3	1411521	0.40	1574000	**89.7**	30	-	120	
165	Ho	3	3028081	0.74	3040000	**99.6**	30	-	120	
175	Lu	3	3322138	1.36	3395000	**97.9**	30	-	120	
209	Bi	3	6731086	0.55	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 09:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	47.2	450	6	P	
60	**Ni**	2	**0.757**	ug/l	3.78	16.0	15000	45	P	
63	**Cu**	2	**1.066**	ug/l	5.33	6.7	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	5.5	15000	45	P	
78	**Se**	2	**-0.503**	ug/l	-2.51	0.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5451323	1.03	6852000	**79.6**	30	-	120	
45	Sc	1	63586	1.59	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	234450	0.57	274900	**85.3**	30	-	120	
74	Ge	1	46454	2.35	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	391023	0.60	437500	**89.4**	30	-	120	
74	Ge	3	1650934	0.51	1769000	**93.3**	30	-	120	
103	Rh	2	745332	0.57	847200	**88.0**	30	-	120	
103	Rh	3	1418023	0.66	1574000	**90.1**	30	-	120	
165	Ho	3	3007006	0.53	3040000	**98.9**	30	-	120	
175	Lu	3	3326155	2.48	3395000	**98.0**	30	-	120	
209	Bi	3	6726980	0.47	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 09:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	105.9	450	6	P	
60	**Ni**	2	**0.499**	ug/l	2.50	15.4	15000	45	P	
63	**Cu**	2	**1.021**	ug/l	5.11	1.4	15000	45	P	
66	**Zn**	2	**0.897**	ug/l	4.49	13.5	15000	45	P	
78	**Se**	2	**-0.002**	ug/l	-0.01	16697.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5481596	2.00	6852000	**80.0**	30	-	120	
45	Sc	1	67188	1.35	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	238662	0.87	274900	**86.8**	30	-	120	
74	Ge	1	49733	2.32	197500	**25.2**	30	-	120	**IS Fail**
74	Ge	2	395976	1.92	437500	**90.5**	30	-	120	
74	Ge	3	1653137	0.45	1769000	**93.5**	30	-	120	
103	Rh	2	753902	1.29	847200	**89.0**	30	-	120	
103	Rh	3	1444816	1.28	1574000	**91.8**	30	-	120	
165	Ho	3	3075893	0.92	3040000	**101.2**	30	-	120	
175	Lu	3	3349379	0.51	3395000	**98.7**	30	-	120	
209	Bi	3	6728344	0.65	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 09:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	-0.01	101.2	450	6	P	
60	**Ni**	2	**0.985**	ug/l	4.93	1.1	15000	45	P	
63	**Cu**	2	**0.081**	ug/l	0.41	26.6	15000	45	P	
66	**Zn**	2	**0.848**	ug/l	4.24	21.1	15000	45	P	
78	**Se**	2	**0.004**	ug/l	0.02	6509.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5562392	1.91	6852000	**81.2**	30	-	120	
45	Sc	1	66301	1.59	249000	**26.6**	30	-	120	**IS Fail**
45	Sc	2	235691	0.97	274900	**85.7**	30	-	120	
74	Ge	1	49204	2.18	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	391990	0.74	437500	**89.6**	30	-	120	
74	Ge	3	1663183	0.60	1769000	**94.0**	30	-	120	
103	Rh	2	755505	1.16	847200	**89.2**	30	-	120	
103	Rh	3	1444637	0.35	1574000	**91.8**	30	-	120	
165	Ho	3	3053073	0.79	3040000	**100.4**	30	-	120	
175	Lu	3	3341236	0.85	3395000	**98.4**	30	-	120	
209	Bi	3	6820470	0.57	7067000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 09:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.560**	ug/l	49.56	4.7	450	6	P	
60	**Ni**	2	**51.340**	ug/l	51.34	1.7	15000	45	P	
63	**Cu**	2	**51.650**	ug/l	51.65	0.4	15000	45	P	
66	**Zn**	2	**51.730**	ug/l	51.73	3.6	15000	45	P	
78	**Se**	2	**51.600**	ug/l	51.60	5.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5824729	2.22	6852000	**85.0**	30	-	120	
45	Sc	1	65868	1.65	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243193	0.84	274900	**88.5**	30	-	120	
74	Ge	1	48308	3.07	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	398358	1.87	437500	**91.1**	30	-	120	
74	Ge	3	1709111	1.19	1769000	**96.6**	30	-	120	
103	Rh	2	776431	1.69	847200	**91.6**	30	-	120	
103	Rh	3	1487346	0.84	1574000	**94.5**	30	-	120	
165	Ho	3	3087663	1.70	3040000	**101.6**	30	-	120	
175	Lu	3	3363561	1.29	3395000	**99.1**	30	-	120	
209	Bi	3	6962340	0.79	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	2.3	450	6	P	
60	**Ni**	2	**0.002**	ug/l	0.00	266.7	15000	45	P	
63	**Cu**	2	**0.032**	ug/l	0.03	7.1	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	33.8	15000	45	P	
78	**Se**	2	**0.134**	ug/l	0.13	112.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5854430	0.53	6852000	**85.4**	30	-	120	
45	Sc	1	68076	2.04	249000	**27.3**	30	-	120	**IS Fail**
45	Sc	2	243318	0.21	274900	**88.5**	30	-	120	
74	Ge	1	48616	1.74	197500	**24.6**	30	-	120	**IS Fail**
74	Ge	2	409530	1.40	437500	**93.6**	30	-	120	
74	Ge	3	1678827	2.28	1769000	**94.9**	30	-	120	
103	Rh	2	801250	0.67	847200	**94.6**	30	-	120	
103	Rh	3	1529793	1.69	1574000	**97.2**	30	-	120	
165	Ho	3	3031955	1.34	3040000	**99.7**	30	-	120	
175	Lu	3	3308800	2.00	3395000	**97.5**	30	-	120	
209	Bi	3	7072805	1.83	7067000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 09:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.08	7.0	450	6	P	
60	**Ni**	2	**0.421**	ug/l	2.10	20.6	15000	45	P	
63	**Cu**	2	**0.680**	ug/l	3.40	5.3	15000	45	P	
66	**Zn**	2	**0.916**	ug/l	4.58	3.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	1.62	116.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5618715	1.26	6852000	**82.0**	30	-	120	
45	Sc	1	65747	1.85	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239501	0.59	274900	**87.1**	30	-	120	
74	Ge	1	47568	0.97	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	398051	1.07	437500	**91.0**	30	-	120	
74	Ge	3	1677751	0.47	1769000	**94.8**	30	-	120	
103	Rh	2	749571	1.87	847200	**88.5**	30	-	120	
103	Rh	3	1456739	0.42	1574000	**92.6**	30	-	120	
165	Ho	3	3059632	2.65	3040000	**100.6**	30	-	120	
175	Lu	3	3358443	0.98	3395000	**98.9**	30	-	120	
209	Bi	3	6773270	0.52	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 10:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	940.7	450	6	P	
60	**Ni**	2	**5.341**	ug/l	26.71	5.2	15000	45	P	
63	**Cu**	2	**1.873**	ug/l	9.37	4.3	15000	45	P	
66	**Zn**	2	**1.459**	ug/l	7.30	18.7	15000	45	P	
78	**Se**	2	**0.090**	ug/l	0.45	911.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5522131	0.94	6852000	**80.6**	30	-	120	
45	Sc	1	64655	2.39	249000	**26.0**	30	-	120	**IS Fail**
45	Sc	2	237353	1.22	274900	**86.3**	30	-	120	
74	Ge	1	47431	1.32	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	393788	1.72	437500	**90.0**	30	-	120	
74	Ge	3	1656428	0.42	1769000	**93.6**	30	-	120	
103	Rh	2	747460	1.76	847200	**88.2**	30	-	120	
103	Rh	3	1419091	1.89	1574000	**90.2**	30	-	120	
165	Ho	3	3033541	1.26	3040000	**99.8**	30	-	120	
175	Lu	3	3321261	0.97	3395000	**97.8**	30	-	120	
209	Bi	3	6642358	1.28	7067000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 10:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	181.9	450	6	P	
60	**Ni**	2	**0.771**	ug/l	3.85	12.1	15000	45	P	
63	**Cu**	2	**0.567**	ug/l	2.83	6.9	15000	45	P	
66	**Zn**	2	**3.090**	ug/l	15.45	17.4	15000	45	P	
78	**Se**	2	**0.151**	ug/l	0.75	501.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5625774	1.70	6852000	**82.1**	30	-	120	
45	Sc	1	65011	0.76	249000	**26.1**	30	-	120	**IS Fail**
45	Sc	2	238586	1.14	274900	**86.8**	30	-	120	
74	Ge	1	47588	1.17	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	403067	1.80	437500	**92.1**	30	-	120	
74	Ge	3	1696085	0.93	1769000	**95.9**	30	-	120	
103	Rh	2	771616	1.43	847200	**91.1**	30	-	120	
103	Rh	3	1478359	0.99	1574000	**93.9**	30	-	120	
165	Ho	3	3039199	1.48	3040000	**100.0**	30	-	120	
175	Lu	3	3335995	1.18	3395000	**98.3**	30	-	120	
209	Bi	3	6857535	0.84	7067000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 10:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	447.9	450	6	P	
60	**Ni**	2	**0.624**	ug/l	3.12	22.8	15000	45	P	
63	**Cu**	2	**0.256**	ug/l	1.28	12.5	15000	45	P	
66	**Zn**	2	**2.736**	ug/l	13.68	5.7	15000	45	P	
78	**Se**	2	**-0.260**	ug/l	-1.30	192.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5542502	2.76	6852000	**80.9**	30	-	120	
45	Sc	1	66089	3.33	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243453	1.22	274900	**88.6**	30	-	120	
74	Ge	1	48943	0.82	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	402999	1.22	437500	**92.1**	30	-	120	
74	Ge	3	1700050	0.65	1769000	**96.1**	30	-	120	
103	Rh	2	774620	1.18	847200	**91.4**	30	-	120	
103	Rh	3	1472994	0.73	1574000	**93.6**	30	-	120	
165	Ho	3	3089475	0.21	3040000	**101.6**	30	-	120	
175	Lu	3	3309501	0.44	3395000	**97.5**	30	-	120	
209	Bi	3	6788619	1.98	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 10:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.170**	ug/l	50.17	1.0	450	6	P	
60	**Ni**	2	**51.600**	ug/l	51.60	2.3	15000	45	P	
63	**Cu**	2	**52.260**	ug/l	52.26	0.8	15000	45	P	
66	**Zn**	2	**51.310**	ug/l	51.31	1.8	15000	45	P	
78	**Se**	2	**49.960**	ug/l	49.96	5.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5919240	0.79	6852000	**86.4**	30	-	120	
45	Sc	1	69956	3.04	249000	**28.1**	30	-	120	**IS Fail**
45	Sc	2	244164	0.90	274900	**88.8**	30	-	120	
74	Ge	1	51343	0.82	197500	**26.0**	30	-	120	**IS Fail**
74	Ge	2	404126	0.41	437500	**92.4**	30	-	120	
74	Ge	3	1719658	0.72	1769000	**97.2**	30	-	120	
103	Rh	2	778294	1.44	847200	**91.9**	30	-	120	
103	Rh	3	1517087	0.65	1574000	**96.4**	30	-	120	
165	Ho	3	3061454	1.03	3040000	**100.7**	30	-	120	
175	Lu	3	3344195	1.08	3395000	**98.5**	30	-	120	
209	Bi	3	6827206	0.48	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 10:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	45.2	450	6	P	
60	**Ni**	2	**0.018**	ug/l	0.02	259.1	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.05	4.0	15000	45	P	
66	**Zn**	2	**0.238**	ug/l	0.24	46.3	15000	45	P	
78	**Se**	2	**-0.355**	ug/l	-0.35	140.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6045642	1.67	6852000	**88.2**	30	-	120	
45	Sc	1	71095	1.64	249000	**28.6**	30	-	120	**IS Fail**
45	Sc	2	248217	0.40	274900	**90.3**	30	-	120	
74	Ge	1	51641	1.04	197500	**26.1**	30	-	120	**IS Fail**
74	Ge	2	409625	1.05	437500	**93.6**	30	-	120	
74	Ge	3	1722494	1.76	1769000	**97.4**	30	-	120	
103	Rh	2	808113	0.94	847200	**95.4**	30	-	120	
103	Rh	3	1531701	1.57	1574000	**97.3**	30	-	120	
165	Ho	3	3045201	1.06	3040000	**100.2**	30	-	120	
175	Lu	3	3339911	1.54	3395000	**98.4**	30	-	120	
209	Bi	3	7048367	0.85	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 10:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.9	450	6	P	
60	**Ni**	2	**0.066**	ug/l	0.66	83.4	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.33	94.8	15000	45	P	
66	**Zn**	2	**-0.056**	ug/l	-0.56	149.2	15000	45	P	
78	**Se**	2	**-0.515**	ug/l	-5.15	46.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845516	0.95	6852000	**85.3**	30	-	120	
45	Sc	1	70807	0.62	249000	**28.4**	30	-	120	**IS Fail**
45	Sc	2	246188	1.13	274900	**89.6**	30	-	120	
74	Ge	1	52431	1.23	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	405318	2.00	437500	**92.6**	30	-	120	
74	Ge	3	1695198	0.50	1769000	**95.8**	30	-	120	
103	Rh	2	807657	1.93	847200	**95.3**	30	-	120	
103	Rh	3	1521356	0.91	1574000	**96.7**	30	-	120	
165	Ho	3	3064001	0.16	3040000	**100.8**	30	-	120	
175	Lu	3	3313780	1.55	3395000	**97.6**	30	-	120	
209	Bi	3	7004011	1.86	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.105**	ug/l	5.25	12.2	450	6	P	
60	**Ni**	2	**336.400**	ug/l	16,820.00	1.2	15000	45	P	
63	**Cu**	2	**24.180**	ug/l	1,209.00	1.6	15000	45	P	
66	**Zn**	2	**358.900**	ug/l	17,945.00	1.2	15000	45	P	
78	**Se**	2	**-0.073**	ug/l	-3.66	724.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5802205	2.34	6852000	**84.7**	30	-	120	
45	Sc	1	68462	1.43	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	241081	0.42	274900	**87.7**	30	-	120	
74	Ge	1	48445	2.05	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	386027	1.10	437500	**88.2**	30	-	120	
74	Ge	3	1661868	0.19	1769000	**93.9**	30	-	120	
103	Rh	2	752356	1.91	847200	**88.8**	30	-	120	
103	Rh	3	1464264	2.07	1574000	**93.0**	30	-	120	
165	Ho	3	2989697	1.07	3040000	**98.3**	30	-	120	
175	Lu	3	3255579	0.30	3395000	**95.9**	30	-	120	
209	Bi	3	6780714	1.00	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 10:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.530**	ug/l	5.30	3.8	450	6	P	
60	**Ni**	2	**1469.000**	ug/l	14,690.00	1.2	15000	45	A	
63	**Cu**	2	**107.700**	ug/l	1,077.00	0.5	15000	45	P	
66	**Zn**	2	**1584.000**	ug/l	15,840.00	1.0	15000	45	P	
78	**Se**	2	**0.487**	ug/l	4.87	194.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4914590	0.66	6852000	**71.7**	30	-	120	
45	Sc	1	65845	1.69	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	240024	2.29	274900	**87.3**	30	-	120	
74	Ge	1	39329	3.21	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	350161	2.59	437500	**80.0**	30	-	120	
74	Ge	3	1485563	0.94	1769000	**84.0**	30	-	120	
103	Rh	2	680593	2.23	847200	**80.3**	30	-	120	
103	Rh	3	1299409	1.06	1574000	**82.6**	30	-	120	
165	Ho	3	2849633	0.52	3040000	**93.7**	30	-	120	
175	Lu	3	3141076	1.23	3395000	**92.5**	30	-	120	
209	Bi	3	6261793	1.24	7067000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 10:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.532**	ug/l	5.32	5.8	450	6	P	
60	**Ni**	2	**1518.000**	ug/l	15,180.00	0.7	15000	45	A	
63	**Cu**	2	**111.200**	ug/l	1,112.00	0.7	15000	45	P	
66	**Zn**	2	**1658.000**	ug/l	16,580.00	1.0	15000	45	P	
78	**Se**	2	**1.011**	ug/l	10.11	47.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4783902	0.17	6852000	**69.8**	30	-	120	
45	Sc	1	67346	3.15	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	229653	2.06	274900	**83.5**	30	-	120	
74	Ge	1	41376	1.42	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	336247	1.44	437500	**76.9**	30	-	120	
74	Ge	3	1424916	1.60	1769000	**80.5**	30	-	120	
103	Rh	2	653009	1.76	847200	**77.1**	30	-	120	
103	Rh	3	1271986	2.62	1574000	**80.8**	30	-	120	
165	Ho	3	2771152	1.28	3040000	**91.2**	30	-	120	
175	Lu	3	3077024	0.82	3395000	**90.6**	30	-	120	
209	Bi	3	6131468	0.94	7067000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 10:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.951**	ug/l	97.55	4.5	450	6	P	
60	**Ni**	2	**315.200**	ug/l	15,760.00	0.7	15000	45	P	
63	**Cu**	2	**31.520**	ug/l	1,576.00	1.1	15000	45	P	
66	**Zn**	2	**335.500**	ug/l	16,775.00	0.8	15000	45	P	
78	**Se**	2	**76.800**	ug/l	3,840.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457832	0.81	6852000	**79.7**	30	-	120	
45	Sc	1	61178	2.28	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	224615	0.32	274900	**81.7**	30	-	120	
74	Ge	1	42493	3.22	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	360276	0.66	437500	**82.3**	30	-	120	
74	Ge	3	1532228	1.61	1769000	**86.6**	30	-	120	
103	Rh	2	720171	1.20	847200	**85.0**	30	-	120	
103	Rh	3	1369214	0.96	1574000	**87.0**	30	-	120	
165	Ho	3	2893812	1.33	3040000	**95.2**	30	-	120	
175	Lu	3	3204103	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6616183	0.75	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 11:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.081**	ug/l	104.05	3.1	450	6	P	
60	**Ni**	2	**326.000**	ug/l	16,300.00	0.9	15000	45	P	
63	**Cu**	2	**32.520**	ug/l	1,626.00	0.2	15000	45	P	
66	**Zn**	2	**347.400**	ug/l	17,370.00	0.8	15000	45	P	
78	**Se**	2	**78.640**	ug/l	3,932.00	1.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5409905	2.71	6852000	**79.0**	30	-	120	
45	Sc	1	72624	2.60	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	225670	1.30	274900	**82.1**	30	-	120	
74	Ge	1	52086	1.82	197500	**26.4**	30	-	120	**IS Fail**
74	Ge	2	364894	0.97	437500	**83.4**	30	-	120	
74	Ge	3	1555720	0.67	1769000	**87.9**	30	-	120	
103	Rh	2	720024	1.32	847200	**85.0**	30	-	120	
103	Rh	3	1385377	0.99	1574000	**88.0**	30	-	120	
165	Ho	3	2914033	1.29	3040000	**95.9**	30	-	120	
175	Lu	3	3247384	0.68	3395000	**95.7**	30	-	120	
209	Bi	3	6610249	0.44	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 11:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.060**	ug/l	103.00	2.8	450	6	P	
60	**Ni**	2	**326.800**	ug/l	16,340.00	0.5	15000	45	P	
63	**Cu**	2	**32.610**	ug/l	1,630.50	0.9	15000	45	P	
66	**Zn**	2	**346.000**	ug/l	17,300.00	1.6	15000	45	P	
78	**Se**	2	**81.940**	ug/l	4,097.00	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5430857	0.71	6852000	**79.3**	30	-	120	
45	Sc	1	74606	3.91	249000	**30.0**	30	-	120	**IS Fail**
45	Sc	2	225815	1.03	274900	**82.1**	30	-	120	
74	Ge	1	53515	2.44	197500	**27.1**	30	-	120	**IS Fail**
74	Ge	2	364111	1.77	437500	**83.2**	30	-	120	
74	Ge	3	1558938	1.10	1769000	**88.1**	30	-	120	
103	Rh	2	726199	1.30	847200	**85.7**	30	-	120	
103	Rh	3	1383933	0.63	1574000	**87.9**	30	-	120	
165	Ho	3	2913560	1.05	3040000	**95.8**	30	-	120	
175	Lu	3	3213142	0.71	3395000	**94.6**	30	-	120	
209	Bi	3	6622826	0.78	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 11:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.914**	ug/l	95.70	3.4	450	6	P	
60	**Ni**	2	**20.480**	ug/l	1,024.00	1.2	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.3	15000	45	P	
66	**Zn**	2	**20.580**	ug/l	1,029.00	1.6	15000	45	P	
78	**Se**	2	**76.870**	ug/l	3,843.50	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5458724	0.85	6852000	**79.7**	30	-	120	
45	Sc	1	72617	2.26	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224385	0.55	274900	**81.6**	30	-	120	
74	Ge	1	52435	1.74	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	373413	1.07	437500	**85.4**	30	-	120	
74	Ge	3	1562105	2.31	1769000	**88.3**	30	-	120	
103	Rh	2	747577	1.56	847200	**88.2**	30	-	120	
103	Rh	3	1412368	1.71	1574000	**89.7**	30	-	120	
165	Ho	3	2938623	1.92	3040000	**96.7**	30	-	120	
175	Lu	3	3232898	0.83	3395000	**95.2**	30	-	120	
209	Bi	3	6773432	0.85	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.894**	ug/l	94.70	2.6	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	1.7	15000	45	P	
63	**Cu**	2	**10.430**	ug/l	521.50	1.3	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	2.1	15000	45	P	
78	**Se**	2	**82.130**	ug/l	4,106.50	3.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5484911	2.03	6852000	**80.0**	30	-	120	
45	Sc	1	72618	1.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224502	1.38	274900	**81.7**	30	-	120	
74	Ge	1	53067	2.63	197500	**26.9**	30	-	120	**IS Fail**
74	Ge	2	373697	1.83	437500	**85.4**	30	-	120	
74	Ge	3	1578530	1.01	1769000	**89.2**	30	-	120	
103	Rh	2	748060	0.89	847200	**88.3**	30	-	120	
103	Rh	3	1431317	1.63	1574000	**90.9**	30	-	120	
165	Ho	3	2933229	0.91	3040000	**96.5**	30	-	120	
175	Lu	3	3249771	1.06	3395000	**95.7**	30	-	120	
209	Bi	3	6849750	0.93	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 11:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**89.380**	ug/l	1,787.60	0.7	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	1.5	15000	45	P	
63	**Cu**	2	**39.350**	ug/l	787.00	2.0	15000	45	P	
66	**Zn**	2	**206.600**	ug/l	4,132.00	0.5	15000	45	P	
78	**Se**	2	**82.680**	ug/l	1,653.60	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574613	1.07	6852000	**81.4**	30	-	120	
45	Sc	1	78114	0.69	249000	**31.4**	30	-	120	
45	Sc	2	227190	1.55	274900	**82.6**	30	-	120	
74	Ge	1	58387	2.09	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	369830	0.93	437500	**84.5**	30	-	120	
74	Ge	3	1604421	0.80	1769000	**90.7**	30	-	120	
103	Rh	2	727482	0.86	847200	**85.9**	30	-	120	
103	Rh	3	1402644	1.17	1574000	**89.1**	30	-	120	
165	Ho	3	2915255	0.47	3040000	**95.9**	30	-	120	
175	Lu	3	3220932	0.37	3395000	**94.9**	30	-	120	
209	Bi	3	6666783	0.93	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 11:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.9	450	6	P	
60	**Ni**	2	**50.700**	ug/l	50.70	0.6	15000	45	P	
63	**Cu**	2	**51.820**	ug/l	51.82	1.2	15000	45	P	
66	**Zn**	2	**50.540**	ug/l	50.54	2.4	15000	45	P	
78	**Se**	2	**48.340**	ug/l	48.34	4.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5661591	0.95	6852000	**82.6**	30	-	120	
45	Sc	1	79177	1.64	249000	**31.8**	30	-	120	
45	Sc	2	229938	0.76	274900	**83.6**	30	-	120	
74	Ge	1	59723	0.88	197500	**30.2**	30	-	120	
74	Ge	2	377680	0.36	437500	**86.3**	30	-	120	
74	Ge	3	1638736	0.55	1769000	**92.6**	30	-	120	
103	Rh	2	737839	0.49	847200	**87.1**	30	-	120	
103	Rh	3	1434719	1.13	1574000	**91.2**	30	-	120	
165	Ho	3	2954596	0.97	3040000	**97.2**	30	-	120	
175	Lu	3	3229872	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6632738	0.96	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 11:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.032**	ug/l	0.03	10.8	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	57.2	15000	45	P	
63	**Cu**	2	**0.065**	ug/l	0.07	20.3	15000	45	P	
66	**Zn**	2	**0.165**	ug/l	0.16	44.3	15000	45	P	
78	**Se**	2	**-0.081**	ug/l	-0.08	351.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5568373	1.59	6852000	**81.3**	30	-	120	
45	Sc	1	96814	20.63	249000	**38.9**	30	-	120	
45	Sc	2	235647	2.79	274900	**85.7**	30	-	120	
74	Ge	1	69941	16.66	197500	**35.4**	30	-	120	
74	Ge	2	390438	1.41	437500	**89.2**	30	-	120	
74	Ge	3	1617847	0.61	1769000	**91.5**	30	-	120	
103	Rh	2	781424	2.17	847200	**92.2**	30	-	120	
103	Rh	3	1460952	1.74	1574000	**92.8**	30	-	120	
165	Ho	3	2950218	0.64	3040000	**97.0**	30	-	120	
175	Lu	3	3245992	0.74	3395000	**95.6**	30	-	120	
209	Bi	3	6885985	0.64	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 11:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.5	450	6	P	
60	**Ni**	2	**870.100**	ug/l	8,701.00	0.4	15000	45	P	
63	**Cu**	2	**78.730**	ug/l	787.30	1.1	15000	45	P	
66	**Zn**	2	**169.100**	ug/l	1,691.00	1.5	15000	45	P	
78	**Se**	2	**0.878**	ug/l	8.78	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5286376	0.89	6852000	**77.2**	30	-	120	
45	Sc	1	84155	1.09	249000	**33.8**	30	-	120	
45	Sc	2	242991	1.53	274900	**88.4**	30	-	120	
74	Ge	1	55983	2.41	197500	**28.3**	30	-	120	**IS Fail**
74	Ge	2	366225	1.33	437500	**83.7**	30	-	120	
74	Ge	3	1581971	0.73	1769000	**89.4**	30	-	120	
103	Rh	2	708552	0.97	847200	**83.6**	30	-	120	
103	Rh	3	1381642	0.82	1574000	**87.8**	30	-	120	
165	Ho	3	2945730	0.75	3040000	**96.9**	30	-	120	
175	Lu	3	3215444	0.62	3395000	**94.7**	30	-	120	
209	Bi	3	6355659	0.62	7067000	**89.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 11:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.050**	ug/l	10.50	1.7	450	6	P	
60	**Ni**	2	**402.800**	ug/l	4,028.00	0.9	15000	45	P	
63	**Cu**	2	**105.000**	ug/l	1,050.00	0.8	15000	45	P	
66	**Zn**	2	**215.300**	ug/l	2,153.00	0.7	15000	45	P	
78	**Se**	2	**0.790**	ug/l	7.90	81.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5543718	0.38	6852000	**80.9**	30	-	120	
45	Sc	1	74127	0.96	249000	**29.8**	30	-	120	**IS Fail**
45	Sc	2	240504	0.71	274900	**87.5**	30	-	120	
74	Ge	1	49154	1.35	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	365324	1.28	437500	**83.5**	30	-	120	
74	Ge	3	1540934	1.44	1769000	**87.1**	30	-	120	
103	Rh	2	705193	0.63	847200	**83.2**	30	-	120	
103	Rh	3	1344353	0.10	1574000	**85.4**	30	-	120	
165	Ho	3	2885416	1.24	3040000	**94.9**	30	-	120	
175	Lu	3	3176780	1.26	3395000	**93.6**	30	-	120	
209	Bi	3	6342232	0.54	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 11:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	3.3	450	6	P	
60	**Ni**	2	**2321.000**	ug/l	23,210.00	0.6	15000	45	A	
63	**Cu**	2	**69.750**	ug/l	697.50	0.5	15000	45	P	
66	**Zn**	2	**193.600**	ug/l	1,936.00	1.5	15000	45	P	
78	**Se**	2	**1.436**	ug/l	14.36	37.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5535176	0.40	6852000	**80.8**	30	-	120	
45	Sc	1	65446	2.17	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	245973	0.15	274900	**89.5**	30	-	120	
74	Ge	1	42242	3.59	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	362287	1.11	437500	**82.8**	30	-	120	
74	Ge	3	1629141	1.31	1769000	**92.1**	30	-	120	
103	Rh	2	689274	1.20	847200	**81.4**	30	-	120	
103	Rh	3	1394395	1.08	1574000	**88.6**	30	-	120	
165	Ho	3	2955083	1.06	3040000	**97.2**	30	-	120	
175	Lu	3	3228986	0.81	3395000	**95.1**	30	-	120	
209	Bi	3	6207614	0.31	7067000	**87.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\132SMPL.D\132SMPL.D#
Date Acquired: May 29 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.331**	ug/l	13.31	2.0	450	6	P	
60	**Ni**	2	**911.100**	ug/l	9,111.00	0.1	15000	45	P	
63	**Cu**	2	**139.600**	ug/l	1,396.00	0.5	15000	45	P	
66	**Zn**	2	**168.800**	ug/l	1,688.00	1.8	15000	45	P	
78	**Se**	2	**0.728**	ug/l	7.28	149.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5798750	1.10	6852000	**84.6**	30	-	120	
45	Sc	1	52700	1.25	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	255908	0.81	274900	**93.1**	30	-	120	
74	Ge	1	33024	3.10	197500	**16.7**	30	-	120	**IS Fail**
74	Ge	2	376607	1.38	437500	**86.1**	30	-	120	
74	Ge	3	1625465	0.74	1769000	**91.9**	30	-	120	
103	Rh	2	726022	2.60	847200	**85.7**	30	-	120	
103	Rh	3	1425626	1.49	1574000	**90.6**	30	-	120	
165	Ho	3	2974265	0.18	3040000	**97.8**	30	-	120	
175	Lu	3	3257094	0.57	3395000	**95.9**	30	-	120	
209	Bi	3	6386229	1.04	7067000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\133SMPL.D\133SMPL.D#
Date Acquired: May 29 2010 12:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	0.4	450	6	P	
60	**Ni**	2	**1096.000**	ug/l	10,960.00	0.9	15000	45	P	
63	**Cu**	2	**90.350**	ug/l	903.50	0.9	15000	45	P	
66	**Zn**	2	**223.000**	ug/l	2,230.00	1.2	15000	45	P	
78	**Se**	2	**1.124**	ug/l	11.24	71.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5841388	2.00	6852000	**85.3**	30	-	120	
45	Sc	1	55930	2.23	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	246075	0.77	274900	**89.5**	30	-	120	
74	Ge	1	35675	3.80	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	369134	1.12	437500	**84.4**	30	-	120	
74	Ge	3	1618002	1.00	1769000	**91.5**	30	-	120	
103	Rh	2	717071	2.08	847200	**84.6**	30	-	120	
103	Rh	3	1415965	0.41	1574000	**90.0**	30	-	120	
165	Ho	3	2976549	1.50	3040000	**97.9**	30	-	120	
175	Lu	3	3204183	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6381395	0.28	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\134SMPL.D\134SMPL.D#
Date Acquired: May 29 2010 12:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.776**	ug/l	7.76	2.5	450	6	P	
60	**Ni**	2	**1862.000**	ug/l	18,620.00	1.4	15000	45	A	
63	**Cu**	2	**52.940**	ug/l	529.40	2.2	15000	45	P	
66	**Zn**	2	**115.100**	ug/l	1,151.00	1.2	15000	45	P	
78	**Se**	2	**0.799**	ug/l	7.99	84.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5718303	0.92	6852000	**83.5**	30	-	120	
45	Sc	1	52486	4.50	249000	**21.1**	30	-	120	**IS Fail**
45	Sc	2	252579	0.72	274900	**91.9**	30	-	120	
74	Ge	1	32613	2.38	197500	**16.5**	30	-	120	**IS Fail**
74	Ge	2	381996	1.52	437500	**87.3**	30	-	120	
74	Ge	3	1675750	1.12	1769000	**94.7**	30	-	120	
103	Rh	2	727098	1.04	847200	**85.8**	30	-	120	
103	Rh	3	1440966	1.21	1574000	**91.5**	30	-	120	
165	Ho	3	3011432	0.54	3040000	**99.1**	30	-	120	
175	Lu	3	3276784	1.35	3395000	**96.5**	30	-	120	
209	Bi	3	6411563	0.05	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\135SMPL.D\135SMPL.D#
Date Acquired: May 29 2010 12:23 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.074**	ug/l	0.74	3.4	450	6	P	
60	**Ni**	2	**463.700**	ug/l	4,637.00	0.7	15000	45	P	
63	**Cu**	2	**72.670**	ug/l	726.70	0.6	15000	45	P	
66	**Zn**	2	**86.040**	ug/l	860.40	0.9	15000	45	P	
78	**Se**	2	**1.154**	ug/l	11.54	44.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5162519	1.84	6852000	**75.3**	30	-	120	
45	Sc	1	47453	1.72	249000	**19.1**	30	-	120	**IS Fail**
45	Sc	2	232840	1.76	274900	**84.7**	30	-	120	
74	Ge	1	30989	0.68	197500	**15.7**	30	-	120	**IS Fail**
74	Ge	2	365173	2.01	437500	**83.5**	30	-	120	
74	Ge	3	1566849	0.04	1769000	**88.6**	30	-	120	
103	Rh	2	715850	2.50	847200	**84.5**	30	-	120	
103	Rh	3	1370387	1.19	1574000	**87.1**	30	-	120	
165	Ho	3	2912201	1.08	3040000	**95.8**	30	-	120	
175	Lu	3	3179787	1.23	3395000	**93.7**	30	-	120	
209	Bi	3	6530681	0.93	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\136SMPL.D\136SMPL.D#
Date Acquired: May 29 2010 12:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.022**	ug/l	0.22	42.1	450	6	P	
60	**Ni**	2	**4250.000**	ug/l	42,500.00	1.3	15000	45	A	
63	**Cu**	2	**13.700**	ug/l	137.00	3.3	15000	45	P	
66	**Zn**	2	**69.610**	ug/l	696.10	2.3	15000	45	P	
78	**Se**	2	**-0.009**	ug/l	-0.09	7784.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5171171	1.43	6852000	**75.5**	30	-	120	
45	Sc	1	49193	0.85	249000	**19.8**	30	-	120	**IS Fail**
45	Sc	2	242276	0.41	274900	**88.1**	30	-	120	
74	Ge	1	29669	2.41	197500	**15.0**	30	-	120	**IS Fail**
74	Ge	2	356424	1.56	437500	**81.5**	30	-	120	
74	Ge	3	1587863	0.56	1769000	**89.8**	30	-	120	
103	Rh	2	686050	1.18	847200	**81.0**	30	-	120	
103	Rh	3	1354991	0.82	1574000	**86.1**	30	-	120	
165	Ho	3	2906530	0.94	3040000	**95.6**	30	-	120	
175	Lu	3	3163962	1.38	3395000	**93.2**	30	-	120	
209	Bi	3	6100489	1.64	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\137SMPL.D\137SMPL.D#
Date Acquired: May 29 2010 12:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.495**	ug/l	4.95	1.6	450	6	P	
60	**Ni**	2	**517.200**	ug/l	5,172.00	1.2	15000	45	P	
63	**Cu**	2	**24.420**	ug/l	244.20	2.8	15000	45	P	
66	**Zn**	2	**70.680**	ug/l	706.80	1.9	15000	45	P	
78	**Se**	2	**0.426**	ug/l	4.26	38.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5703958	0.59	6852000	**83.2**	30	-	120	
45	Sc	1	46292	1.76	249000	**18.6**	30	-	120	**IS Fail**
45	Sc	2	229651	0.57	274900	**83.5**	30	-	120	
74	Ge	1	31163	2.38	197500	**15.8**	30	-	120	**IS Fail**
74	Ge	2	364020	0.51	437500	**83.2**	30	-	120	
74	Ge	3	1592270	0.49	1769000	**90.0**	30	-	120	
103	Rh	2	720250	0.92	847200	**85.0**	30	-	120	
103	Rh	3	1409707	0.73	1574000	**89.6**	30	-	120	
165	Ho	3	2937080	1.19	3040000	**96.6**	30	-	120	
175	Lu	3	3222438	0.56	3395000	**94.9**	30	-	120	
209	Bi	3	6557511	1.08	7067000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\138SMPL.D\138SMPL.D#
Date Acquired: May 29 2010 12:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	55.0	450	6	P	
60	**Ni**	2	**11.490**	ug/l	114.90	3.8	15000	45	P	
63	**Cu**	2	**1.924**	ug/l	19.24	3.0	15000	45	P	
66	**Zn**	2	**0.646**	ug/l	6.46	15.1	15000	45	P	
78	**Se**	2	**0.026**	ug/l	0.26	1008.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6148933	2.26	6852000	**89.7**	30	-	120	
45	Sc	1	48714	0.67	249000	**19.6**	30	-	120	**IS Fail**
45	Sc	2	232502	0.99	274900	**84.6**	30	-	120	
74	Ge	1	33897	2.31	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	380741	0.19	437500	**87.0**	30	-	120	
74	Ge	3	1636378	0.28	1769000	**92.5**	30	-	120	
103	Rh	2	765081	0.22	847200	**90.3**	30	-	120	
103	Rh	3	1479931	1.43	1574000	**94.0**	30	-	120	
165	Ho	3	3002098	0.51	3040000	**98.8**	30	-	120	
175	Lu	3	3263742	1.40	3395000	**96.1**	30	-	120	
209	Bi	3	6919150	0.31	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\139SMPL.D\139SMPL.D#
Date Acquired: May 29 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.420**	ug/l	47.42	0.8	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
63	**Cu**	2	**52.240**	ug/l	52.24	0.1	15000	45	P	
66	**Zn**	2	**51.970**	ug/l	51.97	2.2	15000	45	P	
78	**Se**	2	**49.740**	ug/l	49.74	2.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6037592	1.36	6852000	**88.1**	30	-	120	
45	Sc	1	50605	1.78	249000	**20.3**	30	-	120	**IS Fail**
45	Sc	2	225119	0.51	274900	**81.9**	30	-	120	
74	Ge	1	36273	0.96	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	374468	1.13	437500	**85.6**	30	-	120	
74	Ge	3	1634131	0.56	1769000	**92.4**	30	-	120	
103	Rh	2	735300	0.86	847200	**86.8**	30	-	120	
103	Rh	3	1452802	0.62	1574000	**92.3**	30	-	120	
165	Ho	3	2984954	0.95	3040000	**98.2**	30	-	120	
175	Lu	3	3207500	1.23	3395000	**94.5**	30	-	120	
209	Bi	3	6672263	1.54	7067000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\140SMPL.D\140SMPL.D#
Date Acquired: May 29 2010 12:54 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.9	450	6	P	
60	**Ni**	2	**0.156**	ug/l	0.16	29.5	15000	45	P	
63	**Cu**	2	**0.025**	ug/l	0.02	69.7	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	32.3	15000	45	P	
78	**Se**	2	**-0.242**	ug/l	-0.24	106.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5860135	0.27	6852000	**85.5**	30	-	120	
45	Sc	1	52871	2.41	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	231702	1.76	274900	**84.3**	30	-	120	
74	Ge	1	38530	2.69	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	386453	1.26	437500	**88.3**	30	-	120	
74	Ge	3	1644212	0.60	1769000	**92.9**	30	-	120	
103	Rh	2	777981	1.74	847200	**91.8**	30	-	120	
103	Rh	3	1488371	0.48	1574000	**94.6**	30	-	120	
165	Ho	3	3031913	0.82	3040000	**99.7**	30	-	120	
175	Lu	3	3289507	1.51	3395000	**96.9**	30	-	120	
209	Bi	3	6912761	0.53	7067000	**97.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\141SMPL.D\141SMPL.D#
Date Acquired: May 29 2010 01:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	18.7	450	6	P	
60	**Ni**	2	**9.237**	ug/l	92.37	4.2	15000	45	P	
63	**Cu**	2	**0.471**	ug/l	4.71	4.9	15000	45	P	
66	**Zn**	2	**0.747**	ug/l	7.47	38.3	15000	45	P	
78	**Se**	2	**0.278**	ug/l	2.78	245.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6112764	0.18	6852000	**89.2**	30	-	120	
45	Sc	1	54729	1.03	249000	**22.0**	30	-	120	**IS Fail**
45	Sc	2	229166	0.95	274900	**83.4**	30	-	120	
74	Ge	1	40175	0.80	197500	**20.3**	30	-	120	**IS Fail**
74	Ge	2	382922	0.79	437500	**87.5**	30	-	120	
74	Ge	3	1644204	1.26	1769000	**92.9**	30	-	120	
103	Rh	2	769316	1.13	847200	**90.8**	30	-	120	
103	Rh	3	1456215	1.84	1574000	**92.5**	30	-	120	
165	Ho	3	2943418	1.07	3040000	**96.8**	30	-	120	
175	Lu	3	3188335	0.74	3395000	**93.9**	30	-	120	
209	Bi	3	6842163	0.86	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\142SMPL.D\142SMPL.D#
Date Acquired: May 29 2010 01:06 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.5	450	6	P	
60	**Ni**	2	**5.518**	ug/l	55.18	1.9	15000	45	P	
63	**Cu**	2	**4.430**	ug/l	44.30	7.2	15000	45	P	
66	**Zn**	2	**5.683**	ug/l	56.83	7.4	15000	45	P	
78	**Se**	2	**-0.238**	ug/l	-2.38	110.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6230415	2.03	6852000	**90.9**	30	-	120	
45	Sc	1	59460	0.90	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	227685	1.00	274900	**82.8**	30	-	120	
74	Ge	1	42420	1.43	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	384172	0.73	437500	**87.8**	30	-	120	
74	Ge	3	1643023	1.70	1769000	**92.9**	30	-	120	
103	Rh	2	762921	1.01	847200	**90.1**	30	-	120	
103	Rh	3	1475222	1.68	1574000	**93.7**	30	-	120	
165	Ho	3	2932677	0.76	3040000	**96.5**	30	-	120	
175	Lu	3	3212193	1.32	3395000	**94.6**	30	-	120	
209	Bi	3	6810128	0.81	7067000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\143SMPL.D\143SMPL.D#
Date Acquired: May 29 2010 01:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.08	40.8	450	6	P	
60	**Ni**	2	**4.209**	ug/l	42.09	5.1	15000	45	P	
63	**Cu**	2	**2.695**	ug/l	26.95	1.8	15000	45	P	
66	**Zn**	2	**3.687**	ug/l	36.87	11.0	15000	45	P	
78	**Se**	2	**-0.243**	ug/l	-2.43	184.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6082816	1.89	6852000	**88.8**	30	-	120	
45	Sc	1	63288	3.40	249000	**25.4**	30	-	120	**IS Fail**
45	Sc	2	230476	0.88	274900	**83.8**	30	-	120	
74	Ge	1	46929	2.00	197500	**23.8**	30	-	120	**IS Fail**
74	Ge	2	389581	1.45	437500	**89.0**	30	-	120	
74	Ge	3	1662362	0.81	1769000	**94.0**	30	-	120	
103	Rh	2	762995	2.28	847200	**90.1**	30	-	120	
103	Rh	3	1481930	1.57	1574000	**94.2**	30	-	120	
165	Ho	3	2957056	1.22	3040000	**97.3**	30	-	120	
175	Lu	3	3257385	1.13	3395000	**95.9**	30	-	120	
209	Bi	3	6882254	0.62	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\144SMPL.D\144SMPL.D#
Date Acquired: May 29 2010 01:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.022**	ug/l	10.22	2.9	450	6	P	
60	**Ni**	2	**2190.000**	ug/l	21,900.00	0.6	15000	45	A	
63	**Cu**	2	**59.310**	ug/l	593.10	0.6	15000	45	P	
66	**Zn**	2	**114.300**	ug/l	1,143.00	3.3	15000	45	P	
78	**Se**	2	**0.499**	ug/l	4.99	32.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5616082	1.78	6852000	**82.0**	30	-	120	
45	Sc	1	65704	1.74	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	243536	0.30	274900	**88.6**	30	-	120	
74	Ge	1	41764	1.19	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	369500	0.81	437500	**84.5**	30	-	120	
74	Ge	3	1602532	0.99	1769000	**90.6**	30	-	120	
103	Rh	2	709501	0.89	847200	**83.7**	30	-	120	
103	Rh	3	1385065	0.63	1574000	**88.0**	30	-	120	
165	Ho	3	2938600	0.77	3040000	**96.7**	30	-	120	
175	Lu	3	3205775	0.57	3395000	**94.4**	30	-	120	
209	Bi	3	6344866	1.64	7067000	**89.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\145SMPL.D\145SMPL.D#
Date Acquired: May 29 2010 01:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.626**	ug/l	6.26	2.6	450	6	P	
60	**Ni**	2	**3388.000**	ug/l	33,880.00	2.5	15000	45	A	
63	**Cu**	2	**27.310**	ug/l	273.10	1.4	15000	45	P	
66	**Zn**	2	**78.530**	ug/l	785.30	2.2	15000	45	P	
78	**Se**	2	**1.636**	ug/l	16.36	68.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5370643	1.43	6852000	**78.4**	30	-	120	
45	Sc	1	56798	0.60	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	241054	2.18	274900	**87.7**	30	-	120	
74	Ge	1	36213	2.69	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	360541	1.70	437500	**82.4**	30	-	120	
74	Ge	3	1562142	1.16	1769000	**88.3**	30	-	120	
103	Rh	2	701014	1.72	847200	**82.7**	30	-	120	
103	Rh	3	1343785	1.05	1574000	**85.4**	30	-	120	
165	Ho	3	2862034	1.58	3040000	**94.1**	30	-	120	
175	Lu	3	3121914	1.27	3395000	**92.0**	30	-	120	
209	Bi	3	6232798	0.46	7067000	**88.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\146SMPL.D\146SMPL.D#
Date Acquired: May 29 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.163**	ug/l	11.63	3.7	450	6	P	
60	**Ni**	2	**579.500**	ug/l	5,795.00	0.4	15000	45	P	
63	**Cu**	2	**81.230**	ug/l	812.30	0.5	15000	45	P	
66	**Zn**	2	**189.900**	ug/l	1,899.00	0.4	15000	45	P	
78	**Se**	2	**0.257**	ug/l	2.57	62.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5610977	1.75	6852000	**81.9**	30	-	120	
45	Sc	1	56332	1.99	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	238532	1.08	274900	**86.8**	30	-	120	
74	Ge	1	35769	1.47	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	359265	0.36	437500	**82.1**	30	-	120	
74	Ge	3	1572417	1.41	1769000	**88.9**	30	-	120	
103	Rh	2	700816	1.22	847200	**82.7**	30	-	120	
103	Rh	3	1363171	0.03	1574000	**86.6**	30	-	120	
165	Ho	3	2895256	0.98	3040000	**95.2**	30	-	120	
175	Lu	3	3158096	0.66	3395000	**93.0**	30	-	120	
209	Bi	3	6274243	0.20	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\147SMPL.D\147SMPL.D#
Date Acquired: May 29 2010 01:37 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.030**	ug/l	47.03	0.5	450	6	P	
60	**Ni**	2	**53.670**	ug/l	53.67	1.0	15000	45	P	
63	**Cu**	2	**52.710**	ug/l	52.71	1.0	15000	45	P	
66	**Zn**	2	**51.830**	ug/l	51.83	1.9	15000	45	P	
78	**Se**	2	**48.670**	ug/l	48.67	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5981587	1.11	6852000	**87.3**	30	-	120	
45	Sc	1	54538	1.11	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	224027	0.25	274900	**81.5**	30	-	120	
74	Ge	1	38788	3.16	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	376383	0.50	437500	**86.0**	30	-	120	
74	Ge	3	1648322	0.73	1769000	**93.2**	30	-	120	
103	Rh	2	735400	1.43	847200	**86.8**	30	-	120	
103	Rh	3	1457668	1.82	1574000	**92.6**	30	-	120	
165	Ho	3	2962289	0.42	3040000	**97.4**	30	-	120	
175	Lu	3	3228939	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6689615	0.95	7067000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\148SMPL.D\148SMPL.D#
Date Acquired: May 29 2010 01:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.021**	ug/l	0.02	32.2	450	6	P	
60	**Ni**	2	**0.332**	ug/l	0.33	22.5	15000	45	P	
63	**Cu**	2	**0.063**	ug/l	0.06	22.9	15000	45	P	
66	**Zn**	2	**0.213**	ug/l	0.21	43.3	15000	45	P	
78	**Se**	2	**0.093**	ug/l	0.09	408.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5771801	1.35	6852000	**84.2**	30	-	120	
45	Sc	1	57066	4.00	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	230901	0.79	274900	**84.0**	30	-	120	
74	Ge	1	41132	1.73	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	388972	1.86	437500	**88.9**	30	-	120	
74	Ge	3	1643416	0.59	1769000	**92.9**	30	-	120	
103	Rh	2	776172	1.73	847200	**91.6**	30	-	120	
103	Rh	3	1498355	0.60	1574000	**95.2**	30	-	120	
165	Ho	3	2969216	0.90	3040000	**97.7**	30	-	120	
175	Lu	3	3257886	1.05	3395000	**96.0**	30	-	120	
209	Bi	3	6935426	1.83	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\149SMPL.D\149SMPL.D#
Date Acquired: May 29 2010 01:49 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	80.9	450	6	P	
60	**Ni**	2	**0.127**	ug/l	1.27	23.7	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.15	102.6	15000	45	P	
66	**Zn**	2	**0.110**	ug/l	1.10	49.0	15000	45	P	
78	**Se**	2	**-0.251**	ug/l	-2.51	201.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5773800	0.35	6852000	**84.3**	30	-	120	
45	Sc	1	54076	3.71	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	234512	0.65	274900	**85.3**	30	-	120	
74	Ge	1	38758	2.77	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	391817	0.46	437500	**89.6**	30	-	120	
74	Ge	3	1663548	0.18	1769000	**94.0**	30	-	120	
103	Rh	2	779601	1.48	847200	**92.0**	30	-	120	
103	Rh	3	1495716	0.64	1574000	**95.0**	30	-	120	
165	Ho	3	3010243	0.85	3040000	**99.0**	30	-	120	
175	Lu	3	3305884	0.61	3395000	**97.4**	30	-	120	
209	Bi	3	6962439	1.28	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\150SMPL.D\150SMPL.D#
Date Acquired: May 29 2010 01:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.122**	ug/l	6.10	12.2	450	6	P	
60	**Ni**	2	**973.300**	ug/l	48,665.00	0.5	15000	45	P	
63	**Cu**	2	**5.566**	ug/l	278.30	2.5	15000	45	P	
66	**Zn**	2	**20.000**	ug/l	1,000.00	0.7	15000	45	P	
78	**Se**	2	**0.116**	ug/l	5.78	133.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6041876	2.86	6852000	**88.2**	30	-	120	
45	Sc	1	55723	0.36	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	235554	0.89	274900	**85.7**	30	-	120	
74	Ge	1	39092	2.40	197500	**19.8**	30	-	120	**IS Fail**
74	Ge	2	379763	0.46	437500	**86.8**	30	-	120	
74	Ge	3	1658114	1.10	1769000	**93.7**	30	-	120	
103	Rh	2	740988	0.47	847200	**87.5**	30	-	120	
103	Rh	3	1476437	0.65	1574000	**93.8**	30	-	120	
165	Ho	3	2990905	0.84	3040000	**98.4**	30	-	120	
175	Lu	3	3246035	0.61	3395000	**95.6**	30	-	120	
209	Bi	3	6664266	0.26	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\151SMPL.D\151SMPL.D#
Date Acquired: May 29 2010 02:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	6.60	6.6	450	6	P	
60	**Ni**	2	**4048.000**	ug/l	40,480.00	0.5	15000	45	A	
63	**Cu**	2	**23.990**	ug/l	239.90	1.3	15000	45	P	
66	**Zn**	2	**86.250**	ug/l	862.50	0.7	15000	45	P	
78	**Se**	2	**1.455**	ug/l	14.55	68.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5497458	1.44	6852000	**80.2**	30	-	120	
45	Sc	1	59380	2.88	249000	**23.8**	30	-	120	**IS Fail**
45	Sc	2	244041	0.32	274900	**88.8**	30	-	120	
74	Ge	1	36511	1.66	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	359416	0.36	437500	**82.2**	30	-	120	
74	Ge	3	1545016	0.74	1769000	**87.3**	30	-	120	
103	Rh	2	701086	1.18	847200	**82.8**	30	-	120	
103	Rh	3	1350480	1.77	1574000	**85.8**	30	-	120	
165	Ho	3	2863837	1.06	3040000	**94.2**	30	-	120	
175	Lu	3	3130954	0.98	3395000	**92.2**	30	-	120	
209	Bi	3	6279704	0.98	7067000	**88.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\152SMPL.D\152SMPL.D#
Date Acquired: May 29 2010 02:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.627**	ug/l	6.27	5.7	450	6	P	
60	**Ni**	2	**4073.000**	ug/l	40,730.00	2.1	15000	45	A	
63	**Cu**	2	**23.910**	ug/l	239.10	2.2	15000	45	P	
66	**Zn**	2	**85.860**	ug/l	858.60	2.6	15000	45	P	
78	**Se**	2	**1.317**	ug/l	13.17	13.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5414229	1.81	6852000	**79.0**	30	-	120	
45	Sc	1	60668	0.03	249000	**24.4**	30	-	120	**IS Fail**
45	Sc	2	236171	1.41	274900	**85.9**	30	-	120	
74	Ge	1	38935	2.12	197500	**19.7**	30	-	120	**IS Fail**
74	Ge	2	351361	1.61	437500	**80.3**	30	-	120	
74	Ge	3	1509970	0.95	1769000	**85.4**	30	-	120	
103	Rh	2	685805	1.24	847200	**80.9**	30	-	120	
103	Rh	3	1309231	1.09	1574000	**83.2**	30	-	120	
165	Ho	3	2821159	1.19	3040000	**92.8**	30	-	120	
175	Lu	3	3067308	1.12	3395000	**90.3**	30	-	120	
209	Bi	3	6193566	0.57	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\153SMPL.D\153SMPL.D#
Date Acquired: May 29 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.928**	ug/l	96.40	2.8	450	6	P	
60	**Ni**	2	**832.500**	ug/l	41,625.00	0.7	15000	45	P	
63	**Cu**	2	**14.560**	ug/l	728.00	2.0	15000	45	P	
66	**Zn**	2	**35.880**	ug/l	1,794.00	2.1	15000	45	P	
78	**Se**	2	**70.180**	ug/l	3,509.00	10.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5721154	2.37	6852000	**83.5**	30	-	120	
45	Sc	1	61325	1.48	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	222697	1.31	274900	**81.0**	30	-	120	
74	Ge	1	43670	1.80	197500	**22.1**	30	-	120	**IS Fail**
74	Ge	2	360539	0.97	437500	**82.4**	30	-	120	
74	Ge	3	1568068	0.29	1769000	**88.6**	30	-	120	
103	Rh	2	706986	0.69	847200	**83.4**	30	-	120	
103	Rh	3	1383333	0.65	1574000	**87.9**	30	-	120	
165	Ho	3	2862072	1.90	3040000	**94.1**	30	-	120	
175	Lu	3	3165301	0.70	3395000	**93.2**	30	-	120	
209	Bi	3	6566691	0.48	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\154SMPL.D\154SMPL.D#
Date Acquired: May 29 2010 02:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	2.8	450	6	P	
60	**Ni**	2	**864.100**	ug/l	43,205.00	1.1	15000	45	P	
63	**Cu**	2	**14.530**	ug/l	726.50	1.1	15000	45	P	
66	**Zn**	2	**36.150**	ug/l	1,807.50	3.0	15000	45	P	
78	**Se**	2	**77.470**	ug/l	3,873.50	1.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830117	1.37	6852000	**85.1**	30	-	120	
45	Sc	1	61510	2.63	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	221590	0.76	274900	**80.6**	30	-	120	
74	Ge	1	42948	2.28	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	360220	1.02	437500	**82.3**	30	-	120	
74	Ge	3	1566398	1.57	1769000	**88.5**	30	-	120	
103	Rh	2	715423	2.57	847200	**84.4**	30	-	120	
103	Rh	3	1395779	3.08	1574000	**88.7**	30	-	120	
165	Ho	3	2884289	1.71	3040000	**94.9**	30	-	120	
175	Lu	3	3158325	0.41	3395000	**93.0**	30	-	120	
209	Bi	3	6553722	0.47	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\155SMPL.D\155SMPL.D#
Date Acquired: May 29 2010 02:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.954**	ug/l	97.70	2.0	450	6	P	
60	**Ni**	2	**862.100**	ug/l	43,105.00	0.6	15000	45	P	
63	**Cu**	2	**14.890**	ug/l	744.50	1.0	15000	45	P	
66	**Zn**	2	**36.850**	ug/l	1,842.50	1.6	15000	45	P	
78	**Se**	2	**75.280**	ug/l	3,764.00	2.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5900160	1.74	6852000	**86.1**	30	-	120	
45	Sc	1	57836	2.01	249000	**23.2**	30	-	120	**IS Fail**
45	Sc	2	222068	0.27	274900	**80.8**	30	-	120	
74	Ge	1	41098	0.45	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	361005	0.84	437500	**82.5**	30	-	120	
74	Ge	3	1559667	0.87	1769000	**88.2**	30	-	120	
103	Rh	2	706960	1.47	847200	**83.4**	30	-	120	
103	Rh	3	1374556	0.71	1574000	**87.3**	30	-	120	
165	Ho	3	2886922	0.10	3040000	**95.0**	30	-	120	
175	Lu	3	3180463	0.51	3395000	**93.7**	30	-	120	
209	Bi	3	6520564	0.76	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\156SMPL.D\156SMPL.D#
Date Acquired: May 29 2010 02:32 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.833**	ug/l	91.65	4.0	450	6	P	
60	**Ni**	2	**21.080**	ug/l	1,054.00	0.7	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.2	15000	45	P	
66	**Zn**	2	**20.110**	ug/l	1,005.50	3.0	15000	45	P	
78	**Se**	2	**75.490**	ug/l	3,774.50	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5592045	1.87	6852000	**81.6**	30	-	120	
45	Sc	1	56667	0.95	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	219066	0.39	274900	**79.7**	30	-	120	
74	Ge	1	41346	3.85	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	366034	0.46	437500	**83.7**	30	-	120	
74	Ge	3	1573786	1.17	1769000	**89.0**	30	-	120	
103	Rh	2	739696	0.96	847200	**87.3**	30	-	120	
103	Rh	3	1410753	1.50	1574000	**89.6**	30	-	120	
165	Ho	3	2893901	1.45	3040000	**95.2**	30	-	120	
175	Lu	3	3202540	2.19	3395000	**94.3**	30	-	120	
209	Bi	3	6768283	1.51	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\157SMPL.D\157SMPL.D#
Date Acquired: May 29 2010 02:38 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	0.8	450	6	P	
60	**Ni**	2	**20.790**	ug/l	1,039.50	5.2	15000	45	P	
63	**Cu**	2	**10.660**	ug/l	533.00	2.2	15000	45	P	
66	**Zn**	2	**20.910**	ug/l	1,045.50	2.6	15000	45	P	
78	**Se**	2	**78.020**	ug/l	3,901.00	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5547666	1.23	6852000	**81.0**	30	-	120	
45	Sc	1	60541	1.63	249000	**24.3**	30	-	120	**IS Fail**
45	Sc	2	221031	0.33	274900	**80.4**	30	-	120	
74	Ge	1	42774	1.65	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	367890	0.59	437500	**84.1**	30	-	120	
74	Ge	3	1576933	0.71	1769000	**89.1**	30	-	120	
103	Rh	2	744946	0.95	847200	**87.9**	30	-	120	
103	Rh	3	1407045	1.49	1574000	**89.4**	30	-	120	
165	Ho	3	2922518	0.74	3040000	**96.1**	30	-	120	
175	Lu	3	3215929	0.96	3395000	**94.7**	30	-	120	
209	Bi	3	6753841	0.25	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\158SMPL.D\158SMPL.D#
Date Acquired: May 29 2010 02:44 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.560**	ug/l	1,711.20	0.5	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	2.0	15000	45	P	
63	**Cu**	2	**39.130**	ug/l	782.60	2.9	15000	45	P	
66	**Zn**	2	**206.300**	ug/l	4,126.00	1.1	15000	45	P	
78	**Se**	2	**79.380**	ug/l	1,587.60	4.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5794353	0.23	6852000	**84.6**	30	-	120	
45	Sc	1	63995	1.91	249000	**25.7**	30	-	120	**IS Fail**
45	Sc	2	222975	1.50	274900	**81.1**	30	-	120	
74	Ge	1	46404	1.28	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	364617	1.25	437500	**83.3**	30	-	120	
74	Ge	3	1592761	0.60	1769000	**90.0**	30	-	120	
103	Rh	2	721772	1.64	847200	**85.2**	30	-	120	
103	Rh	3	1404173	0.97	1574000	**89.2**	30	-	120	
165	Ho	3	2948604	0.58	3040000	**97.0**	30	-	120	
175	Lu	3	3223391	1.73	3395000	**94.9**	30	-	120	
209	Bi	3	6632632	0.63	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\159SMPL.D\159SMPL.D#
Date Acquired: May 29 2010 02:51 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.290**	ug/l	47.29	0.6	450	6	P	
60	**Ni**	2	**50.790**	ug/l	50.79	2.0	15000	45	P	
63	**Cu**	2	**52.100**	ug/l	52.10	1.7	15000	45	P	
66	**Zn**	2	**51.500**	ug/l	51.50	1.4	15000	45	P	
78	**Se**	2	**46.540**	ug/l	46.54	13.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5735400	0.55	6852000	**83.7**	30	-	120	
45	Sc	1	66625	0.37	249000	**26.8**	30	-	120	**IS Fail**
45	Sc	2	220965	0.77	274900	**80.4**	30	-	120	
74	Ge	1	48703	1.44	197500	**24.7**	30	-	120	**IS Fail**
74	Ge	2	368124	0.60	437500	**84.1**	30	-	120	
74	Ge	3	1583338	1.26	1769000	**89.5**	30	-	120	
103	Rh	2	722700	1.43	847200	**85.3**	30	-	120	
103	Rh	3	1405281	0.74	1574000	**89.3**	30	-	120	
165	Ho	3	2923730	0.63	3040000	**96.2**	30	-	120	
175	Lu	3	3178467	1.55	3395000	**93.6**	30	-	120	
209	Bi	3	6612058	0.68	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\160SMPL.D\160SMPL.D#
Date Acquired: May 29 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.029**	ug/l	0.03	14.2	450	6	P	
60	**Ni**	2	**0.283**	ug/l	0.28	14.6	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	20.8	15000	45	P	
66	**Zn**	2	**0.172**	ug/l	0.17	63.2	15000	45	P	
78	**Se**	2	**-0.054**	ug/l	-0.05	737.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5559037	1.75	6852000	**81.1**	30	-	120	
45	Sc	1	68441	0.50	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	224627	1.35	274900	**81.7**	30	-	120	
74	Ge	1	50580	0.83	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	377281	2.23	437500	**86.2**	30	-	120	
74	Ge	3	1585744	0.83	1769000	**89.6**	30	-	120	
103	Rh	2	754993	2.19	847200	**89.1**	30	-	120	
103	Rh	3	1434984	0.23	1574000	**91.2**	30	-	120	
165	Ho	3	2928209	0.62	3040000	**96.3**	30	-	120	
175	Lu	3	3200720	0.20	3395000	**94.3**	30	-	120	
209	Bi	3	6801162	0.64	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\161SMPL.D\161SMPL.D#
Date Acquired: May 29 2010 03:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.634**	ug/l	6.34	4.3	450	6	P	
60	**Ni**	2	**3692.000**	ug/l	36,920.00	0.9	15000	45	A	
63	**Cu**	2	**25.830**	ug/l	258.30	0.9	15000	45	P	
66	**Zn**	2	**87.330**	ug/l	873.30	2.4	15000	45	P	
78	**Se**	2	**0.271**	ug/l	2.71	117.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5301391	0.52	6852000	**77.4**	30	-	120	
45	Sc	1	75260	3.14	249000	**30.2**	30	-	120	
45	Sc	2	237624	0.94	274900	**86.4**	30	-	120	
74	Ge	1	48964	1.64	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	354123	1.04	437500	**80.9**	30	-	120	
74	Ge	3	1504068	0.84	1769000	**85.0**	30	-	120	
103	Rh	2	689727	1.42	847200	**81.4**	30	-	120	
103	Rh	3	1321998	1.51	1574000	**84.0**	30	-	120	
165	Ho	3	2840681	1.29	3040000	**93.4**	30	-	120	
175	Lu	3	3114673	0.64	3395000	**91.7**	30	-	120	
209	Bi	3	6279028	1.58	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\162SMPL.D\162SMPL.D#
Date Acquired: May 29 2010 03:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.920**	ug/l	9.20	2.9	450	6	P	
60	**Ni**	2	**837.200**	ug/l	8,372.00	0.7	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.8	15000	45	P	
66	**Zn**	2	**116.200**	ug/l	1,162.00	0.5	15000	45	P	
78	**Se**	2	**0.851**	ug/l	8.51	85.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5421386	1.47	6852000	**79.1**	30	-	120	
45	Sc	1	74911	0.91	249000	**30.1**	30	-	120	
45	Sc	2	235504	0.30	274900	**85.7**	30	-	120	
74	Ge	1	50637	2.45	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	351118	0.87	437500	**80.3**	30	-	120	
74	Ge	3	1524762	0.65	1769000	**86.2**	30	-	120	
103	Rh	2	670035	0.19	847200	**79.1**	30	-	120	
103	Rh	3	1300655	1.85	1574000	**82.6**	30	-	120	
165	Ho	3	2820460	0.67	3040000	**92.8**	30	-	120	
175	Lu	3	3085701	0.99	3395000	**90.9**	30	-	120	
209	Bi	3	6105108	0.98	7067000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\163SMPL.D\163SMPL.D#
Date Acquired: May 29 2010 03:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.880**	ug/l	8.80	1.4	450	6	P	
60	**Ni**	2	**1121.000**	ug/l	11,210.00	1.0	15000	45	P	
63	**Cu**	2	**53.070**	ug/l	530.70	1.9	15000	45	P	
66	**Zn**	2	**101.900**	ug/l	1,019.00	0.5	15000	45	P	
78	**Se**	2	**1.074**	ug/l	10.74	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574345	0.17	6852000	**81.4**	30	-	120	
45	Sc	1	68964	1.32	249000	**27.7**	30	-	120	**IS Fail**
45	Sc	2	235695	1.02	274900	**85.7**	30	-	120	
74	Ge	1	44611	3.72	197500	**22.6**	30	-	120	**IS Fail**
74	Ge	2	345291	1.78	437500	**78.9**	30	-	120	
74	Ge	3	1533405	1.23	1769000	**86.7**	30	-	120	
103	Rh	2	667098	1.74	847200	**78.7**	30	-	120	
103	Rh	3	1293013	2.24	1574000	**82.1**	30	-	120	
165	Ho	3	2808370	1.48	3040000	**92.4**	30	-	120	
175	Lu	3	3061527	0.24	3395000	**90.2**	30	-	120	
209	Bi	3	5987950	0.83	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\164SMPL.D\164SMPL.D#
Date Acquired: May 29 2010 03:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.786**	ug/l	17.86	4.1	450	6	P	
60	**Ni**	2	**374.300**	ug/l	3,743.00	1.9	15000	45	P	
63	**Cu**	2	**198.400**	ug/l	1,984.00	1.6	15000	45	P	
66	**Zn**	2	**13430.000**	ug/l	134,300.00	2.1	15000	45	A	
78	**Se**	2	**2.542**	ug/l	25.42	34.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5714849	1.56	6852000	**83.4**	30	-	120	
45	Sc	1	63486	3.43	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	230957	1.91	274900	**84.0**	30	-	120	
74	Ge	1	42476	2.34	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	351860	1.65	437500	**80.4**	30	-	120	
74	Ge	3	1521311	1.62	1769000	**86.0**	30	-	120	
103	Rh	2	676717	1.98	847200	**79.9**	30	-	120	
103	Rh	3	1322195	1.68	1574000	**84.0**	30	-	120	
165	Ho	3	2859052	0.39	3040000	**94.0**	30	-	120	
175	Lu	3	3135981	2.29	3395000	**92.4**	30	-	120	
209	Bi	3	6215128	0.72	7067000	**87.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\165SMPL.D\165SMPL.D#
Date Acquired: May 29 2010 03:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.862**	ug/l	8.62	6.2	450	6	P	
60	**Ni**	2	**1131.000**	ug/l	11,310.00	1.1	15000	45	P	
63	**Cu**	2	**53.590**	ug/l	535.90	1.5	15000	45	P	
66	**Zn**	2	**131.400**	ug/l	1,314.00	0.5	15000	45	P	
78	**Se**	2	**1.225**	ug/l	12.25	62.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5692833	2.00	6852000	**83.1**	30	-	120	
45	Sc	1	57980	2.26	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	234885	1.35	274900	**85.4**	30	-	120	
74	Ge	1	37223	2.36	197500	**18.8**	30	-	120	**IS Fail**
74	Ge	2	351528	0.79	437500	**80.3**	30	-	120	
74	Ge	3	1523951	1.07	1769000	**86.1**	30	-	120	
103	Rh	2	673116	0.97	847200	**79.5**	30	-	120	
103	Rh	3	1313161	2.26	1574000	**83.4**	30	-	120	
165	Ho	3	2815307	0.85	3040000	**92.6**	30	-	120	
175	Lu	3	3105766	0.92	3395000	**91.5**	30	-	120	
209	Bi	3	6071139	0.51	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\166SMPL.D\166SMPL.D#
Date Acquired: May 29 2010 03:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.808**	ug/l	8.08	1.5	450	6	P	
60	**Ni**	2	**234.000**	ug/l	2,340.00	0.7	15000	45	P	
63	**Cu**	2	**77.210**	ug/l	772.10	1.2	15000	45	P	
66	**Zn**	2	**179.300**	ug/l	1,793.00	2.1	15000	45	P	
78	**Se**	2	**0.904**	ug/l	9.04	29.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845915	1.90	6852000	**85.3**	30	-	120	
45	Sc	1	58449	2.58	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	232096	0.08	274900	**84.4**	30	-	120	
74	Ge	1	37521	2.44	197500	**19.0**	30	-	120	**IS Fail**
74	Ge	2	358524	1.39	437500	**81.9**	30	-	120	
74	Ge	3	1554364	0.70	1769000	**87.9**	30	-	120	
103	Rh	2	692392	1.25	847200	**81.7**	30	-	120	
103	Rh	3	1338202	0.71	1574000	**85.0**	30	-	120	
165	Ho	3	2852001	0.46	3040000	**93.8**	30	-	120	
175	Lu	3	3109636	1.99	3395000	**91.6**	30	-	120	
209	Bi	3	6224781	1.95	7067000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\167SMPL.D\167SMPL.D#
Date Acquired: May 29 2010 03:40 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.740**	ug/l	7.40	2.6	450	6	P	
60	**Ni**	2	**260.400**	ug/l	2,604.00	0.8	15000	45	P	
63	**Cu**	2	**62.250**	ug/l	622.50	0.9	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	1.8	15000	45	P	
78	**Se**	2	**0.826**	ug/l	8.26	51.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5788536	0.67	6852000	**84.5**	30	-	120	
45	Sc	1	56463	0.68	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	226850	0.81	274900	**82.5**	30	-	120	
74	Ge	1	38009	2.67	197500	**19.2**	30	-	120	**IS Fail**
74	Ge	2	355595	0.79	437500	**81.3**	30	-	120	
74	Ge	3	1550523	0.69	1769000	**87.6**	30	-	120	
103	Rh	2	697124	1.37	847200	**82.3**	30	-	120	
103	Rh	3	1365365	0.66	1574000	**86.7**	30	-	120	
165	Ho	3	2856324	0.75	3040000	**94.0**	30	-	120	
175	Lu	3	3125089	0.82	3395000	**92.0**	30	-	120	
209	Bi	3	6302369	0.46	7067000	**89.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\168SMPL.D\168SMPL.D#
Date Acquired: May 29 2010 03:46 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.191**	ug/l	11.91	3.5	450	6	P	
60	**Ni**	2	**965.900**	ug/l	9,659.00	0.8	15000	45	P	
63	**Cu**	2	**78.980**	ug/l	789.80	1.0	15000	45	P	
66	**Zn**	2	**1936.000**	ug/l	19,360.00	0.7	15000	45	P	
78	**Se**	2	**1.251**	ug/l	12.51	61.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5662868	1.63	6852000	**82.6**	30	-	120	
45	Sc	1	63539	2.40	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	236597	0.39	274900	**86.1**	30	-	120	
74	Ge	1	40366	1.26	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	346892	1.26	437500	**79.3**	30	-	120	
74	Ge	3	1525547	0.62	1769000	**86.2**	30	-	120	
103	Rh	2	660407	0.95	847200	**78.0**	30	-	120	
103	Rh	3	1304151	0.82	1574000	**82.9**	30	-	120	
165	Ho	3	2836996	0.08	3040000	**93.3**	30	-	120	
175	Lu	3	3073311	1.64	3395000	**90.5**	30	-	120	
209	Bi	3	6013539	1.34	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\169SMPL.D\169SMPL.D#
Date Acquired: May 29 2010 03:52 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.320**	ug/l	3.20	3.0	450	6	P	
60	**Ni**	2	**2279.000**	ug/l	22,790.00	1.8	15000	45	A	
63	**Cu**	2	**27.880**	ug/l	278.80	0.5	15000	45	P	
66	**Zn**	2	**89.260**	ug/l	892.60	1.6	15000	45	P	
78	**Se**	2	**0.605**	ug/l	6.05	141.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5467680	1.08	6852000	**79.8**	30	-	120	
45	Sc	1	60937	3.84	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	227651	0.89	274900	**82.8**	30	-	120	
74	Ge	1	38453	3.20	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341573	1.11	437500	**78.1**	30	-	120	
74	Ge	3	1486192	1.92	1769000	**84.0**	30	-	120	
103	Rh	2	654332	1.50	847200	**77.2**	30	-	120	
103	Rh	3	1273653	1.74	1574000	**80.9**	30	-	120	
165	Ho	3	2757527	0.31	3040000	**90.7**	30	-	120	
175	Lu	3	3046889	1.23	3395000	**89.7**	30	-	120	
209	Bi	3	5860138	0.91	7067000	**82.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\170SMPL.D\170SMPL.D#
Date Acquired: May 29 2010 03:58 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.974**	ug/l	9.74	0.7	450	6	P	
60	**Ni**	2	**1248.000**	ug/l	12,480.00	1.2	15000	45	A	
63	**Cu**	2	**55.530**	ug/l	555.30	0.7	15000	45	P	
66	**Zn**	2	**123.400**	ug/l	1,234.00	1.8	15000	45	P	
78	**Se**	2	**1.984**	ug/l	19.84	34.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5614688	0.66	6852000	**81.9**	30	-	120	
45	Sc	1	63004	2.98	249000	**25.3**	30	-	120	**IS Fail**
45	Sc	2	239906	1.15	274900	**87.3**	30	-	120	
74	Ge	1	38136	3.13	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	349706	1.71	437500	**79.9**	30	-	120	
74	Ge	3	1518120	1.68	1769000	**85.8**	30	-	120	
103	Rh	2	664253	1.38	847200	**78.4**	30	-	120	
103	Rh	3	1303976	0.24	1574000	**82.8**	30	-	120	
165	Ho	3	2792226	1.99	3040000	**91.8**	30	-	120	
175	Lu	3	3049644	0.30	3395000	**89.8**	30	-	120	
209	Bi	3	5977550	0.34	7067000	**84.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\171SMPL.D\171SMPL.D#
Date Acquired: May 29 2010 04:04 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.310**	ug/l	47.31	1.4	450	6	P	
60	**Ni**	2	**51.430**	ug/l	51.43	1.9	15000	45	P	
63	**Cu**	2	**51.330**	ug/l	51.33	1.7	15000	45	P	
66	**Zn**	2	**50.250**	ug/l	50.25	2.2	15000	45	P	
78	**Se**	2	**47.280**	ug/l	47.28	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5931678	2.05	6852000	**86.6**	30	-	120	
45	Sc	1	55405	1.71	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	224478	0.57	274900	**81.7**	30	-	120	
74	Ge	1	39249	2.41	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	374265	0.74	437500	**85.5**	30	-	120	
74	Ge	3	1641611	1.46	1769000	**92.8**	30	-	120	
103	Rh	2	733118	1.84	847200	**86.5**	30	-	120	
103	Rh	3	1436844	1.69	1574000	**91.3**	30	-	120	
165	Ho	3	2934116	0.33	3040000	**96.5**	30	-	120	
175	Lu	3	3230030	0.97	3395000	**95.1**	30	-	120	
209	Bi	3	6661236	1.05	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\172SMPL.D\172SMPL.D#
Date Acquired: May 29 2010 04:10 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.024**	ug/l	0.02	33.7	450	6	P	
60	**Ni**	2	**0.308**	ug/l	0.31	24.3	15000	45	P	
63	**Cu**	2	**0.037**	ug/l	0.04	27.4	15000	45	P	
66	**Zn**	2	**0.270**	ug/l	0.27	51.0	15000	45	P	
78	**Se**	2	**-0.323**	ug/l	-0.32	166.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6004013	1.04	6852000	**87.6**	30	-	120	
45	Sc	1	55101	1.65	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	225715	0.29	274900	**82.1**	30	-	120	
74	Ge	1	40670	0.60	197500	**20.6**	30	-	120	**IS Fail**
74	Ge	2	379262	0.91	437500	**86.7**	30	-	120	
74	Ge	3	1607753	0.23	1769000	**90.9**	30	-	120	
103	Rh	2	757181	1.14	847200	**89.4**	30	-	120	
103	Rh	3	1442245	0.78	1574000	**91.6**	30	-	120	
165	Ho	3	2926349	0.80	3040000	**96.3**	30	-	120	
175	Lu	3	3272200	1.51	3395000	**96.4**	30	-	120	
209	Bi	3	6779968	0.17	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\173SMPL.D\173SMPL.D#
Date Acquired: May 29 2010 04:16 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.761**	ug/l	0.76	1.3	450	6	P	
60	**Ni**	2	**553.800**	ug/l	553.80	0.6	15000	45	P	
63	**Cu**	2	**51.510**	ug/l	51.51	1.1	15000	45	P	
66	**Zn**	2	**149.400**	ug/l	149.40	0.8	15000	45	P	
78	**Se**	2	**-0.015**	ug/l	-0.01	1072.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830535	0.62	6852000	**85.1**	30	-	120	
45	Sc	1	57450	0.58	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230554	0.75	274900	**83.9**	30	-	120	
74	Ge	1	38149	2.12	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	356760	0.56	437500	**81.5**	30	-	120	
74	Ge	3	1548167	0.70	1769000	**87.5**	30	-	120	
103	Rh	2	689523	1.59	847200	**81.4**	30	-	120	
103	Rh	3	1330746	1.26	1574000	**84.5**	30	-	120	
165	Ho	3	2843691	0.64	3040000	**93.5**	30	-	120	
175	Lu	3	3102936	1.18	3395000	**91.4**	30	-	120	
209	Bi	3	6247672	1.28	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\174SMPL.D\174SMPL.D#
Date Acquired: May 29 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.830**	ug/l	0.83	2.9	450	6	P	
60	**Ni**	2	**1466.000**	ug/l	1,466.00	2.1	15000	45	A	
63	**Cu**	2	**64.770**	ug/l	64.77	0.8	15000	45	P	
66	**Zn**	2	**131.000**	ug/l	131.00	1.5	15000	45	P	
78	**Se**	2	**1.424**	ug/l	1.42	69.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5537393	0.81	6852000	**80.8**	30	-	120	
45	Sc	1	57986	2.18	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	230232	0.79	274900	**83.8**	30	-	120	
74	Ge	1	36701	2.73	197500	**18.6**	30	-	120	**IS Fail**
74	Ge	2	348599	0.66	437500	**79.7**	30	-	120	
74	Ge	3	1527311	1.90	1769000	**86.3**	30	-	120	
103	Rh	2	669476	0.92	847200	**79.0**	30	-	120	
103	Rh	3	1308829	0.76	1574000	**83.2**	30	-	120	
165	Ho	3	2781740	0.36	3040000	**91.5**	30	-	120	
175	Lu	3	3042606	0.23	3395000	**89.6**	30	-	120	
209	Bi	3	5982965	0.47	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\175SMPL.D\175SMPL.D#
Date Acquired: May 29 2010 04:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	0.64	6.6	450	6	P	
60	**Ni**	2	**1209.000**	ug/l	1,209.00	1.2	15000	45	P	
63	**Cu**	2	**43.010**	ug/l	43.01	0.3	15000	45	P	
66	**Zn**	2	**127.400**	ug/l	127.40	0.7	15000	45	P	
78	**Se**	2	**0.098**	ug/l	0.10	297.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5549474	0.36	6852000	**81.0**	30	-	120	
45	Sc	1	53339	1.64	249000	**21.4**	30	-	120	**IS Fail**
45	Sc	2	224140	0.09	274900	**81.5**	30	-	120	
74	Ge	1	35154	0.70	197500	**17.8**	30	-	120	**IS Fail**
74	Ge	2	349149	1.12	437500	**79.8**	30	-	120	
74	Ge	3	1510450	0.87	1769000	**85.4**	30	-	120	
103	Rh	2	667558	0.68	847200	**78.8**	30	-	120	
103	Rh	3	1295251	0.59	1574000	**82.3**	30	-	120	
165	Ho	3	2788394	0.88	3040000	**91.7**	30	-	120	
175	Lu	3	3048343	0.79	3395000	**89.8**	30	-	120	
209	Bi	3	6014121	0.36	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\176SMPL.D\176SMPL.D#
Date Acquired: May 29 2010 04:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.01	6.6	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	3,742.00	2.2	15000	45	A	
63	**Cu**	2	**17.050**	ug/l	17.05	1.1	15000	45	P	
66	**Zn**	2	**45.840**	ug/l	45.84	2.0	15000	45	P	
78	**Se**	2	**0.460**	ug/l	0.46	59.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5310523	0.48	6852000	**77.5**	30	-	120	
45	Sc	1	57005	2.28	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	212528	2.40	274900	**77.3**	30	-	120	
74	Ge	1	36544	0.71	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	325346	2.62	437500	**74.4**	30	-	120	
74	Ge	3	1411408	1.18	1769000	**79.8**	30	-	120	
103	Rh	2	622240	1.38	847200	**73.4**	30	-	120	
103	Rh	3	1228333	0.22	1574000	**78.0**	30	-	120	
165	Ho	3	2587965	0.61	3040000	**85.1**	30	-	120	
175	Lu	3	2867042	0.08	3395000	**84.4**	30	-	120	
209	Bi	3	5496388	0.73	7067000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\177SMPL.D\177SMPL.D#
Date Acquired: May 29 2010 04:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.638**	ug/l	0.64	5.4	450	6	P	
60	**Ni**	2	**4605.000**	ug/l	4,605.00	0.7	15000	45	A	
63	**Cu**	2	**27.130**	ug/l	27.13	0.7	15000	45	P	
66	**Zn**	2	**85.070**	ug/l	85.07	1.4	15000	45	P	
78	**Se**	2	**0.824**	ug/l	0.82	52.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5200093	1.79	6852000	**75.9**	30	-	120	
45	Sc	1	53949	2.31	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	224823	0.82	274900	**81.8**	30	-	120	
74	Ge	1	34044	2.28	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	334452	1.15	437500	**76.4**	30	-	120	
74	Ge	3	1464505	0.47	1769000	**82.8**	30	-	120	
103	Rh	2	652703	1.69	847200	**77.0**	30	-	120	
103	Rh	3	1259513	1.15	1574000	**80.0**	30	-	120	
165	Ho	3	2743686	0.41	3040000	**90.3**	30	-	120	
175	Lu	3	3018394	0.75	3395000	**88.9**	30	-	120	
209	Bi	3	5928233	1.10	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\178SMPL.D\178SMPL.D#
Date Acquired: May 29 2010 04:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	0.66	1.5	450	6	P	
60	**Ni**	2	**853.600**	ug/l	853.60	0.2	15000	45	P	
63	**Cu**	2	**83.330**	ug/l	83.33	0.9	15000	45	P	
66	**Zn**	2	**146.100**	ug/l	146.10	0.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	0.32	191.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5517274	0.98	6852000	**80.5**	30	-	120	
45	Sc	1	54150	1.48	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	218914	1.21	274900	**79.6**	30	-	120	
74	Ge	1	34980	2.09	197500	**17.7**	30	-	120	**IS Fail**
74	Ge	2	337789	0.93	437500	**77.2**	30	-	120	
74	Ge	3	1492653	0.15	1769000	**84.4**	30	-	120	
103	Rh	2	655095	1.51	847200	**77.3**	30	-	120	
103	Rh	3	1297147	1.17	1574000	**82.4**	30	-	120	
165	Ho	3	2758702	0.29	3040000	**90.7**	30	-	120	
175	Lu	3	2985711	1.42	3395000	**87.9**	30	-	120	
209	Bi	3	5943562	0.25	7067000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\179SMPL.D\179SMPL.D#
Date Acquired: May 29 2010 04:53 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**46.680**	ug/l	46.68	0.7	450	6	P	
60	**Ni**	2	**51.720**	ug/l	51.72	0.6	15000	45	P	
63	**Cu**	2	**51.300**	ug/l	51.30	1.3	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	2.8	15000	45	P	
78	**Se**	2	**43.930**	ug/l	43.93	7.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5731343	0.97	6852000	**83.6**	30	-	120	
45	Sc	1	55656	1.50	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	215666	0.73	274900	**78.5**	30	-	120	
74	Ge	1	40460	0.09	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	361671	1.09	437500	**82.7**	30	-	120	
74	Ge	3	1585338	1.57	1769000	**89.6**	30	-	120	
103	Rh	2	714575	0.96	847200	**84.3**	30	-	120	
103	Rh	3	1397423	1.59	1574000	**88.8**	30	-	120	
165	Ho	3	2916510	2.23	3040000	**95.9**	30	-	120	
175	Lu	3	3166945	0.40	3395000	**93.3**	30	-	120	
209	Bi	3	6551136	0.89	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\180SMPL.D\180SMPL.D#
Date Acquired: May 29 2010 04:59 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	22.4	450	6	P	
60	**Ni**	2	**0.478**	ug/l	0.48	7.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	30.9	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	40.7	15000	45	P	
78	**Se**	2	**0.130**	ug/l	0.13	315.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5672180	2.07	6852000	**82.8**	30	-	120	
45	Sc	1	56992	2.21	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	221392	1.64	274900	**80.5**	30	-	120	
74	Ge	1	41741	1.59	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	373639	0.91	437500	**85.4**	30	-	120	
74	Ge	3	1587659	0.33	1769000	**89.7**	30	-	120	
103	Rh	2	750384	1.59	847200	**88.6**	30	-	120	
103	Rh	3	1428105	0.51	1574000	**90.7**	30	-	120	
165	Ho	3	2895690	0.51	3040000	**95.3**	30	-	120	
175	Lu	3	3170071	1.85	3395000	**93.4**	30	-	120	
209	Bi	3	6662228	0.20	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\181SMPL.D\181SMPL.D#
Date Acquired: May 29 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.01	27.4	450	6	P	
60	**Ni**	2	**2.769**	ug/l	2.77	6.9	15000	45	P	
63	**Cu**	2	**3.938**	ug/l	3.94	2.4	15000	45	P	
66	**Zn**	2	**3.381**	ug/l	3.38	4.4	15000	45	P	
78	**Se**	2	**-0.273**	ug/l	-0.27	60.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5258028	0.57	6852000	**76.7**	30	-	120	
45	Sc	1	56077	1.77	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	213813	0.99	274900	**77.8**	30	-	120	
74	Ge	1	38450	0.92	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341813	1.47	437500	**78.1**	30	-	120	
74	Ge	3	1478788	0.43	1769000	**83.6**	30	-	120	
103	Rh	2	610216	2.09	847200	**72.0**	30	-	120	
103	Rh	3	1216515	0.78	1574000	**77.3**	30	-	120	
165	Ho	3	2620026	0.84	3040000	**86.2**	30	-	120	
175	Lu	3	2885240	0.41	3395000	**85.0**	30	-	120	
209	Bi	3	5386660	0.87	7067000	**76.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\182SMPL.D\182SMPL.D#
Date Acquired: May 29 2010 05:11 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	184.3	450	6	P	
60	**Ni**	2	**196.200**	ug/l	196.20	0.1	15000	45	P	
63	**Cu**	2	**194.700**	ug/l	194.70	0.5	15000	45	P	
66	**Zn**	2	**99.130**	ug/l	99.13	1.7	15000	45	P	
78	**Se**	2	**105.200**	ug/l	105.20	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5293733	2.30	6852000	**77.3**	30	-	120	
45	Sc	1	53018	1.33	249000	**21.3**	30	-	120	**IS Fail**
45	Sc	2	209544	1.52	274900	**76.2**	30	-	120	
74	Ge	1	35278	0.80	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	333353	0.98	437500	**76.2**	30	-	120	
74	Ge	3	1491487	1.44	1769000	**84.3**	30	-	120	
103	Rh	2	595603	1.21	847200	**70.3**	30	-	120	
103	Rh	3	1218525	0.04	1574000	**77.4**	30	-	120	
165	Ho	3	2626760	2.04	3040000	**86.4**	30	-	120	
175	Lu	3	2862901	0.43	3395000	**84.3**	30	-	120	
209	Bi	3	5395621	0.85	7067000	**76.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Step	Mass	Element	r	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	--- ---	---	ug/l	
3	7	Li	0.0000	--- ---	---	ug/l	
3	9	Be	1.0000	1.592E-04	4.985E-03	2.474E-03	ug/l
2	23	Na	1.0000	28.59 2.204	138.6	ug/l	
2	24	Mg	1.0000	5.466E-02	2.173E-01	4.681E-01	ug/l
2	27	Al	1.0000	4.100E-02	2.591E-01	6.883E-01	ug/l
2	31	P	1.0000	1.549E-01	13.65	37.94	ug/l
2	39	K	0.9999	20.29 14.60	215.9	ug/l	
1	40	Ca	0.9999	4.192E-01	2.118E-01	2.970	ug/l
1	45	Sc	0.0000	--- ---	---	ug/l	
2	45	Sc	0.0000	--- ---	---	ug/l	
2	47	Ti	1.0000	2.612E-04	5.648E-02	1.087E-02	ug/l
2	51	V	1.0000	3.098E-01	8.388E-02	5.583E-01	ug/l
2	52	Cr	1.0000	1.529E-01	1.359E-01	2.391E-01	ug/l
1	54	Fe	0.9997	6.664E-02	1.231	3.196	ug/l
2	55	Mn	1.0000	2.044E-02	3.406E-02	4.457E-02	ug/l
2	59	Co	1.0000	2.083E-03	8.332E-04	2.492E-03	ug/l
2	60	Ni	1.0000	1.105E-02	6.895E-02	5.200E-02	ug/l
2	63	Cu	1.0000	4.230E-02	4.027E-02	7.724E-02	ug/l
2	66	Zn	1.0000	2.734E-02	1.273E-01	2.232E-01	ug/l
1	74	Ge	0.0000	--- ---	---	ug/l	
2	74	Ge	0.0000	--- ---	---	ug/l	
3	74	Ge	0.0000	--- ---	---	ug/l	
2	75	As	1.0000	9.544E-03	2.194E-02	1.704E-01	ug/l
1	78	Se	1.0000	2.688E-04	7.342E-02	2.165E-02	ug/l
3	88	Sr	1.0000	5.164E-03	7.288E-03	1.191E-02	ug/l
3	95	Mo	1.0000	2.441E-04	1.414E-02	2.722E-03	ug/l
2	103	Rh	0.0000	--- ---	---	ug/l	
3	103	Rh	0.0000	--- ---	---	ug/l	
3	107	Ag	1.0000	1.040E-03	1.510E-02	3.538E-03	ug/l
3	111	Cd	1.0000	6.216E-04	2.724E-02	9.108E-03	ug/l
3	118	Sn	1.0000	3.649E-03	4.537E-03	2.049E-02	ug/l
3	121	Sb	1.0000	1.567E-03	8.617E-03	5.643E-03	ug/l
3	135	Ba	1.0000	1.307E-03	4.902E-02	2.608E-02	ug/l
3	165	Ho	0.0000	--- ---	---	ug/l	
3	175	Lu	0.0000	--- ---	---	ug/l	
3	200	Hg	0.9999	1.595E-02	7.283E-02	7.681E-01	ug/l
3	205	Tl	1.0000	2.329E-03	6.336E-03	1.285E-02	ug/l
3	208	Pb	1.0000	3.454E-03	3.552E-03	1.377E-02	ug/l
3	209	Bi	0.0000	--- ---	---	ug/l	
3	238	U	1.0000	1.686E-04	8.375E-04	5.539E-04	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#
Date Acquired: Jun 2 2010 11:31 am Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	4716139.0	A	47030.00	1.00
7	Li	3	732496.5	P	7107.00	0.97
9	Be	3	15.0	P	10.00	66.67
23	Na	2	146467.8	P	1215.00	0.83
24	Mg	2	280.0	P	43.59	15.57
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	210.0	P	25.98	12.37
31	P	2	793.4	P	97.14	12.24
39	K	2	103913.9	P	2495.00	2.40
40	Ca	1	5531.4	P	137.60	2.49
44	Ca	2		P		
45	Sc	1	659831.1	P	15120.00	2.29
45	Sc	2	256116.0	P	788.00	0.31
45	Sc	3		A		
47	Ti	2	1.3	P	2.31	173.17
50	V	2		P		
51	V	2	1586.8	P	83.27	5.25
52	Cr	2	783.4	P	150.10	19.16
53	Cr	2		P		
54	Fe	1	660.0	P	78.11	11.83
54	Fe	2		P		
55	Mn	2	104.7	P	26.56	25.38
56	Fe	1		P		
59	Co	2	10.7	P	1.16	10.83
60	Ni	2	56.7	P	25.17	44.42
61	Ni	2		P		
63	Cu	2	216.7	P	37.86	17.47
65	Cu	2		P		
66	Zn	2	140.0	P	26.46	18.90
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	495739.3	P	12710.00	2.56
74	Ge	2	370225.2	P	2658.00	0.72
74	Ge	3	1353551.0	A	18930.00	1.40
75	As	2	70.7	P	3.06	4.32
78	Se	1	2.7	P	3.06	114.56
78	Se	2		P		
88	Sr	2		P		
88	Sr	3	140.0	P	30.00	21.43
95	Mo	3	6.7	P	11.55	173.24
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	687660.7	P	7883.00	1.15
103	Rh	3	1279644.0	M	16340.00	1.28
106	(Cd)	3		P		
107	Ag	3	26.7	P	37.86	141.97
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	15.9	P	15.87	99.70
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	93.3	P	5.77	6.19
120	Sn	3		P		
121	Sb	3	40.0	P	20.00	50.00
123	Sb	3		P		
135	Ba	3	33.3	P	20.82	62.46
137	Ba	3		P		
165	Ho	3	2555640.0	A	11510.00	0.45
175	Lu	3	2886512.0	A	18530.00	0.64
200	Hg	3	1894.2	P	64.39	3.40
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	276.7	P	47.26	17.08
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	410.0	P	34.64	8.45
209	Bi	3	5936156.0	A	41910.00	0.71
238	U	3	20.0	P	10.00	50.00

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\006CALS.D\006CALS.D#
Date Acquired: Jun 2 2010 11:38 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean	SD	RSD(%)
9	Be	6	3	640.0 P	10.00	1.56
23	Na	45	2	157091.6 P	414.40	0.26
24	Mg	45	2	6682.0 P	278.50	4.17
27	Al	45	2	840.0 P	70.54	8.40
31	P	45	2	930.1 P	78.11	8.40
39	K	45	2	107984.2 P	1645.00	1.52
40	Ca	45	1	24811.9 P	476.30	1.92
47	Ti	45	2	12.3 P	2.08	16.88
51	V	45	2	1863.6 P	162.90	8.74
52	Cr	45	2	906.7 P	40.40	4.46
54	Fe	74	1	2807.1 P	80.23	2.86
55	Mn	45	2	344.7 P	15.14	4.39
59	Co	45	2	438.7 P	37.86	8.63
60	Ni	45	2	196.7 P	23.09	11.74
63	Cu	45	2	450.0 P	100.00	22.22
66	Zn	45	2	496.7 P	90.75	18.27
75	As	74	2	91.3 P	11.72	12.83
78	Se	74	1	14.7 P	8.08	55.11
88	Sr	74	3	1206.8 P	197.30	16.35
95	Mo	74	3	253.3 P	15.28	6.03
107	Ag	103	3	763.4 P	124.20	16.27
111	Cd	103	3	188.3 P	35.74	18.98
118	Sn	103	3	513.4 P	45.11	8.79
121	Sb	103	3	623.4 P	118.50	19.01
135	Ba	103	3	126.7 P	68.07	53.74
200	Hg	209	3	1915.5 P	39.01	2.04
205	Tl	209	3	2393.7 P	11.55	0.48
208	Pb	209	3	3637.1 P	280.40	7.71
238	U	209	3	3547.4 P	320.20	9.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4715189	1.06	4716000	100.0	30 - 120	
45	Sc	1	639876	0.74	659800	97.0	30 - 120	
45	Sc	2	256281	0.74	256100	100.1	30 - 120	
74	Ge	1	484114	0.96	495700	97.7	30 - 120	
74	Ge	2	370270	0.79	370200	100.0	30 - 120	
74	Ge	3	1343856	1.40	1354000	99.3	30 - 120	
103	Rh	2	694088	1.08	687700	100.9	30 - 120	
103	Rh	3	1269005	2.63	1280000	99.1	30 - 120	
165	Ho	3	2518101	0.49	2556000	98.5	30 - 120	
175	Lu	3	2824614	0.43	2887000	97.8	30 - 120	
209	Bi	3	5815723	1.01	5936000	98.0	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\007CALS.D\007CALS.D#
Date Acquired: Jun 2 2010 11:46 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	6241.6	P	350.20	5.61
23	Na	45	2	257070.9	P	1832.00	0.71
24	Mg	45	2	62626.6	P	1076.00	1.72
27	Al	45	2	3328.8	P	221.60	6.66
31	P	45	2	2853.8	P	196.60	6.89
39	K	45	2	154765.3	P	1300.00	0.84
40	Ca	45	1	195493.3	P	4101.00	2.10
47	Ti	45	2	120.0	P	13.23	11.03
51	V	45	2	4701.1	P	420.20	8.94
52	Cr	45	2	4017.5	P	65.08	1.62
54	Fe	74	1	21766.1	P	622.00	2.86
55	Mn	45	2	2471.6	P	49.42	2.00
59	Co	45	2	4302.8	P	114.20	2.65
60	Ni	45	2	1180.1	P	110.00	9.32
63	Cu	45	2	3063.8	P	176.20	5.75
66	Zn	45	2	846.7	P	46.20	5.46
75	As	74	2	467.3	P	33.73	7.22
78	Se	74	1	112.0	P	24.58	21.95
88	Sr	74	3	12616.9	P	431.40	3.42
95	Mo	74	3	2557.0	P	119.30	4.67
107	Ag	103	3	7736.1	P	350.40	4.53
111	Cd	103	3	1925.5	P	81.33	4.22
118	Sn	103	3	4717.8	P	418.80	8.88
121	Sb	103	3	7299.1	P	73.77	1.01
135	Ba	103	3	1390.1	P	157.20	11.31
200	Hg	209	3	1880.2	P	94.31	5.02
205	Tl	209	3	21858.0	P	156.60	0.72
208	Pb	209	3	31607.9	P	350.90	1.11
238	U	209	3	37780.4	P	928.60	2.46

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4736176	0.54	4716000	100.4	30 - 120	
45	Sc	1	630338	1.21	659800	95.5	30 - 120	
45	Sc	2	256828	0.48	256100	100.3	30 - 120	
74	Ge	1	480385	1.98	495700	96.9	30 - 120	
74	Ge	2	373422	0.14	370200	100.9	30 - 120	
74	Ge	3	1373533	1.29	1354000	101.4	30 - 120	
103	Rh	2	693652	0.92	687700	100.9	30 - 120	
103	Rh	3	1298537	1.11	1280000	101.4	30 - 120	
165	Ho	3	2561586	0.71	2556000	100.2	30 - 120	
175	Lu	3	2842373	0.43	2887000	98.5	30 - 120	
209	Bi	3	5974214	0.96	5936000	100.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\008CALS.D\008CALS.D#
Date Acquired: Jun 2 2010 11:53 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	63372.6	P	934.20	1.47
23	Na	45	2	1263182.0	A	10470.00	0.83
24	Mg	45	2	628455.8	P	5236.00	0.83
27	Al	45	2	31171.3	P	602.10	1.93
31	P	45	2	21251.7	P	480.60	2.26
39	K	45	2	612989.6	P	3362.00	0.55
40	Ca	45	1	1913455.0	A	45850.00	2.40
47	Ti	45	2	1223.7	P	56.51	4.62
51	V	45	2	29501.9	P	176.60	0.60
52	Cr	45	2	33792.6	P	1189.00	3.52
54	Fe	74	1	212857.5	P	2317.00	1.09
55	Mn	45	2	24051.5	P	82.32	0.34
59	Co	45	2	43929.9	P	535.30	1.22
60	Ni	45	2	11008.5	P	425.50	3.87
63	Cu	45	2	29645.9	P	415.10	1.40
66	Zn	45	2	6198.4	P	261.20	4.21
75	As	74	2	4230.7	P	121.20	2.86
78	Se	74	1	1237.4	P	61.34	4.96
88	Sr	74	3	125887.8	P	847.00	0.67
95	Mo	74	3	26038.1	P	134.90	0.52
107	Ag	103	3	76702.7	P	848.10	1.11
111	Cd	103	3	18041.2	P	447.80	2.48
118	Sn	103	3	46536.5	P	903.70	1.94
121	Sb	103	3	72925.8	P	1056.00	1.45
135	Ba	103	3	13124.3	P	274.60	2.09
200	Hg	209	3	3027.8	P	76.16	2.52
205	Tl	209	3	221967.9	P	2724.00	1.23
208	Pb	209	3	307814.1	P	3414.00	1.11
238	U	209	3	375230.2	P	385.90	0.10

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4827453	1.88	4716000	102.4	30 - 120	
45	Sc	1	644376	0.47	659800	97.7	30 - 120	
45	Sc	2	258881	1.34	256100	101.1	30 - 120	
74	Ge	1	489492	1.98	495700	98.7	30 - 120	
74	Ge	2	370314	1.35	370200	100.0	30 - 120	
74	Ge	3	1413889	0.87	1354000	104.4	30 - 120	
103	Rh	2	683951	0.79	687700	99.5	30 - 120	
103	Rh	3	1280186	1.68	1280000	100.0	30 - 120	
165	Ho	3	2576370	1.72	2556000	100.8	30 - 120	
175	Lu	3	2860628	0.76	2887000	99.1	30 - 120	
209	Bi	3	5942613	1.48	5936000	100.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\009CALS.D\009CALS.D#
Date Acquired: Jun 2 2010 12:00 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	310625.8	P	23370.00	7.52
23	Na	45	2	5541313.0	A	114900.00	2.07
24	Mg	45	2	3049549.0	A	35770.00	1.17
27	Al	45	2	154542.6	P	792.30	0.51
31	P	45	2	106131.6	P	696.70	0.66
39	K	45	2	2584949.0	A	8309.00	0.32
40	Ca	45	1	9297556.0	A	76350.00	0.82
47	Ti	45	2	6130.2	P	173.80	2.84
51	V	45	2	144537.5	P	431.60	0.30
52	Cr	45	2	168280.6	P	1602.00	0.95
54	Fe	74	1	1055623.0	P	6997.00	0.66
55	Mn	45	2	119024.1	P	1337.00	1.12
59	Co	45	2	217867.9	P	2317.00	1.06
60	Ni	45	2	55084.8	P	568.90	1.03
63	Cu	45	2	142160.5	P	2318.00	1.63
66	Zn	45	2	31503.7	P	833.70	2.65
75	As	74	2	20745.9	P	294.40	1.42
78	Se	74	1	6064.9	P	204.90	3.38
88	Sr	74	3	608897.0	P	39490.00	6.49
95	Mo	74	3	125096.0	P	8055.00	6.44
107	Ag	103	3	365226.7	P	18700.00	5.12
111	Cd	103	3	84129.5	P	5894.00	7.01
118	Sn	103	3	218490.4	P	16090.00	7.36
121	Sb	103	3	340330.3	P	26830.00	7.88
135	Ba	103	3	62064.5	P	5046.00	8.13
200	Hg	209	3	7925.4	P	282.40	3.56
205	Tl	209	3	1042904.0	P	82210.00	7.88
208	Pb	209	3	1453004.0	P	100700.00	6.93
238	U	209	3	1752716.0	A	141700.00	8.08

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4861930	0.47	4716000	103.1	30 - 120	
45	Sc	1	641369	0.45	659800	97.2	30 - 120	
45	Sc	2	257711	1.52	256100	100.6	30 - 120	
74	Ge	1	485083	1.31	495700	97.9	30 - 120	
74	Ge	2	366588	1.06	370200	99.0	30 - 120	
74	Ge	3	1396213	2.04	1354000	103.1	30 - 120	
103	Rh	2	664610	1.04	687700	96.6	30 - 120	
103	Rh	3	1236203	0.53	1280000	96.6	30 - 120	
165	Ho	3	2583931	0.86	2556000	101.1	30 - 120	
175	Lu	3	2855749	0.31	2887000	98.9	30 - 120	
209	Bi	3	5799614	0.77	5936000	97.7	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\010CALS.D\010CALS.D#
Date Acquired: Jun 2 2010 12:07 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	633555.3	P	29040.00	4.58
23	Na	45	2	10676500.0	A	203000.00	1.90
24	Mg	45	2	5960683.0	A	60460.00	1.01
27	Al	45	2	305107.8	P	3694.00	1.21
31	P	45	2	209923.4	P	587.00	0.28
39	K	45	2	4887909.0	A	24880.00	0.51
40	Ca	45	1	17823690.0	A	230900.00	1.30
47	Ti	45	2	12351.0	P	94.53	0.77
51	V	45	2	286002.2	P	3057.00	1.07
52	Cr	45	2	327221.7	P	5588.00	1.71
54	Fe	74	1	1964037.0	A	4490.00	0.23
55	Mn	45	2	234689.4	P	2261.00	0.96
59	Co	45	2	427177.4	P	4948.00	1.16
60	Ni	45	2	108875.6	P	1361.00	1.25
63	Cu	45	2	280365.1	P	4093.00	1.46
66	Zn	45	2	63032.1	P	1560.00	2.47
75	As	74	2	40815.5	P	441.00	1.08
78	Se	74	1	11805.0	P	191.20	1.62
88	Sr	74	3	1212072.0	M	36510.00	3.01
95	Mo	74	3	251174.7	P	8702.00	3.46
107	Ag	103	3	724337.6	P	23570.00	3.25
111	Cd	103	3	168550.3	P	8861.00	5.26
118	Sn	103	3	440563.6	P	25100.00	5.70
121	Sb	103	3	686606.9	P	32340.00	4.71
135	Ba	103	3	123673.3	P	3943.00	3.19
200	Hg	209	3	13515.2	P	364.50	2.70
205	Tl	209	3	2050631.0	A	122900.00	5.99
208	Pb	209	3	2832580.0	M	83870.00	2.96
238	U	209	3	3442763.0	A	173200.00	5.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4915833	1.43	4716000	104.2	30 - 120	
45	Sc	1	635655	1.56	659800	96.3	30 - 120	
45	Sc	2	256245	0.99	256100	100.1	30 - 120	
74	Ge	1	476195	2.21	495700	96.1	30 - 120	
74	Ge	2	364368	1.18	370200	98.4	30 - 120	
74	Ge	3	1401103	1.13	1354000	103.5	30 - 120	
103	Rh	2	655662	0.87	687700	95.3	30 - 120	
103	Rh	3	1233766	0.97	1280000	96.4	30 - 120	
165	Ho	3	2545357	0.25	2556000	99.6	30 - 120	
175	Lu	3	2823299	0.89	2887000	97.8	30 - 120	
209	Bi	3	5646353	0.55	5936000	95.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\014SMPL.D\014SMPL.D#
Date Acquired: Jun 2 2010 12:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**41.180**	ug/l	41.18	0.6	450	6	P	
23	**Na**	2	**4098.000**	ug/l	4,098.00	0.5	450000	45	A	
24	**Mg**	2	**4086.000**	ug/l	4,086.00	1.4	450000	45	A	
27	**Al**	2	**401.400**	ug/l	401.40	1.7	450000	45	P	
31	**P**	2	**3962.000**	ug/l	3,962.00	2.2	450000	45	P	
39	**K**	2	**4104.000**	ug/l	4,104.00	2.2	450000	45	A	
40	**Ca**	1	**4080.000**	ug/l	4,080.00	1.0	450000	45	A	
47	**Ti**	2	**40.560**	ug/l	40.56	1.9	4500	45	P	
51	**V**	2	**39.440**	ug/l	39.44	0.8	4500	45	P	
52	**Cr**	2	**40.450**	ug/l	40.45	1.3	4500	45	P	
54	**Fe**	1	**4195.000**	ug/l	4,195.00	0.6	450000	74	P	
55	**Mn**	2	**40.520**	ug/l	40.52	1.4	15000	45	P	
59	**Co**	2	**40.690**	ug/l	40.69	0.9	4500	45	P	
60	**Ni**	2	**40.450**	ug/l	40.45	0.5	15000	45	P	
63	**Cu**	2	**40.460**	ug/l	40.46	0.9	15000	45	P	
66	**Zn**	2	**40.710**	ug/l	40.71	2.1	15000	45	P	
75	**As**	2	**39.850**	ug/l	39.85	0.8	4500	74	P	
78	**Se**	1	**39.100**	ug/l	39.10	3.3	450	74	P	
88	**Sr**	3	**41.550**	ug/l	41.55	1.4	4500	74	P	
95	**Mo**	3	**41.560**	ug/l	41.56	0.8	4500	74	P	
107	**Ag**	3	**41.440**	ug/l	41.44	1.7	450	103	P	
111	**Cd**	3	**42.380**	ug/l	42.38	2.1	900	103	P	
118	**Sn**	3	**42.210**	ug/l	42.21	2.5	4500	103	P	
121	**Sb**	3	**41.940**	ug/l	41.94	2.3	4500	103	P	
135	**Ba**	3	**41.660**	ug/l	41.66	3.4	4500	103	P	
200	**Hg**	3	**2.000**	ug/l	2.00	1.4	45	209	P	
205	**Tl**	3	**42.080**	ug/l	42.08	2.2	4500	209	P	
208	**Pb**	3	**42.010**	ug/l	42.01	1.0	4500	209	P	
238	**U**	3	**42.020**	ug/l	42.02	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4925022	0.96	4716000	**104.4**	30	-	120	
45	Sc	1	649728	1.26	659800	**98.5**	30	-	120	
45	Sc	2	260280	1.40	256100	**101.6**	30	-	120	
74	Ge	1	489643	1.33	495700	**98.8**	30	-	120	
74	Ge	2	373383	0.48	370200	**100.9**	30	-	120	
74	Ge	3	1429794	1.50	1354000	**105.6**	30	-	120	
103	Rh	2	680779	1.22	687700	**99.0**	30	-	120	
103	Rh	3	1252649	1.83	1280000	**97.9**	30	-	120	
165	Ho	3	2629001	0.87	2556000	**102.9**	30	-	120	
175	Lu	3	2927129	2.35	2887000	**101.4**	30	-	120	
209	Bi	3	5876169	0.66	5936000	**99.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\015SMPL.D\015SMPL.D#
Date Acquired: Jun 2 2010 12:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	77.2	450	6	P	
23	**Na**	2	**-0.871**	ug/l	-0.87	97.3	450000	45	P	
24	**Mg**	2	**0.184**	ug/l	0.18	31.7	450000	45	P	
27	**Al**	2	**-0.086**	ug/l	-0.09	13.5	450000	45	P	
31	**P**	2	**-5.434**	ug/l	-5.43	15.4	450000	45	P	
39	**K**	2	**-10.970**	ug/l	-10.97	41.3	450000	45	P	
40	**Ca**	1	**0.261**	ug/l	0.26	232.8	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.02	90.9	4500	45	P	
51	**V**	2	**-0.003**	ug/l	0.00	1290.9	4500	45	P	
52	**Cr**	2	**-0.001**	ug/l	0.00	2281.4	4500	45	P	
54	**Fe**	1	**0.575**	ug/l	0.57	123.0	450000	74	P	
55	**Mn**	2	**-0.004**	ug/l	0.00	118.2	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.00	35.5	4500	45	P	
60	**Ni**	2	**0.017**	ug/l	0.02	172.7	15000	45	P	
63	**Cu**	2	**-0.009**	ug/l	-0.01	302.5	15000	45	P	
66	**Zn**	2	**-0.042**	ug/l	-0.04	207.3	15000	45	P	
75	**As**	2	**-0.025**	ug/l	-0.02	145.2	4500	74	P	
78	**Se**	1	**-0.001**	ug/l	0.00	2100.2	450	74	P	
88	**Sr**	3	**0.001**	ug/l	0.00	348.8	4500	74	P	
95	**Mo**	3	**0.013**	ug/l	0.01	29.3	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	67.4	450	103	P	
111	**Cd**	3	**-0.005**	ug/l	0.00	277.9	900	103	P	
118	**Sn**	3	**0.015**	ug/l	0.02	90.6	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	30.5	4500	103	P	
135	**Ba**	3	**0.000**	ug/l	0.00	4008.2	4500	103	P	
200	**Hg**	3	**0.014**	ug/l	0.01	74.9	45	209	P	
205	**Tl**	3	**0.186**	ug/l	0.19	3.5	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	2888.2	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	30.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4826746	1.63	4716000	**102.3**	30	-	120	
45	Sc	1	691038	0.64	659800	**104.7**	30	-	120	
45	Sc	2	262536	0.42	256100	**102.5**	30	-	120	
74	Ge	1	524429	1.44	495700	**105.8**	30	-	120	
74	Ge	2	383932	1.05	370200	**103.7**	30	-	120	
74	Ge	3	1403134	1.22	1354000	**103.6**	30	-	120	
103	Rh	2	713361	1.09	687700	**103.7**	30	-	120	
103	Rh	3	1291533	2.00	1280000	**100.9**	30	-	120	
165	Ho	3	2631833	0.69	2556000	**103.0**	30	-	120	
175	Lu	3	2974627	0.64	2887000	**103.0**	30	-	120	
209	Bi	3	6118876	2.22	5936000	**103.1**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\017SMPL.D\017SMPL.D#
Date Acquired: Jun 2 2010 12:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.017**	ug/l	2.02	7.6	450	6	P	
23	**Na**	2	**207.800**	ug/l	207.80	1.5	450000	45	P	
24	**Mg**	2	**211.600**	ug/l	211.60	0.9	450000	45	P	
27	**Al**	2	**19.250**	ug/l	19.25	1.3	450000	45	P	
31	**P**	2	**195.200**	ug/l	195.20	7.5	450000	45	P	
39	**K**	2	**198.800**	ug/l	198.80	1.7	450000	45	P	
40	**Ca**	1	**220.400**	ug/l	220.40	0.8	450000	45	P	
47	**Ti**	2	**2.144**	ug/l	2.14	2.8	4500	45	P	
51	**V**	2	**1.965**	ug/l	1.97	5.0	4500	45	P	
52	**Cr**	2	**2.058**	ug/l	2.06	4.7	4500	45	P	
54	**Fe**	1	**214.000**	ug/l	214.00	0.4	450000	74	P	
55	**Mn**	2	**2.056**	ug/l	2.06	1.8	15000	45	P	
59	**Co**	2	**2.073**	ug/l	2.07	0.4	4500	45	P	
60	**Ni**	2	**2.066**	ug/l	2.07	6.0	15000	45	P	
63	**Cu**	2	**2.072**	ug/l	2.07	8.4	15000	45	P	
66	**Zn**	2	**1.948**	ug/l	1.95	6.7	15000	45	P	
75	**As**	2	**1.990**	ug/l	1.99	12.8	4500	74	P	
78	**Se**	1	**1.843**	ug/l	1.84	5.8	450	74	P	
88	**Sr**	3	**2.035**	ug/l	2.04	9.1	4500	74	P	
95	**Mo**	3	**2.063**	ug/l	2.06	5.7	4500	74	P	
107	**Ag**	3	**2.010**	ug/l	2.01	4.8	450	103	P	
111	**Cd**	3	**1.975**	ug/l	1.98	11.5	900	103	P	
118	**Sn**	3	**1.945**	ug/l	1.95	10.3	4500	103	P	
121	**Sb**	3	**1.987**	ug/l	1.99	7.5	4500	103	P	
135	**Ba**	3	**1.935**	ug/l	1.94	11.1	4500	103	P	
200	**Hg**	3	**0.045**	ug/l	0.04	87.1	45	209	P	
205	**Tl**	3	**2.019**	ug/l	2.02	5.6	4500	209	P	
208	**Pb**	3	**2.030**	ug/l	2.03	4.9	4500	209	P	
238	**U**	3	**2.018**	ug/l	2.02	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4804345	1.20	4716000	**101.9**	30	-	120	
45	Sc	1	674397	1.59	659800	**102.2**	30	-	120	
45	Sc	2	265212	1.08	256100	**103.6**	30	-	120	
74	Ge	1	511156	1.18	495700	**103.1**	30	-	120	
74	Ge	2	382991	1.28	370200	**103.5**	30	-	120	
74	Ge	3	1393596	1.55	1354000	**102.9**	30	-	120	
103	Rh	2	712979	0.60	687700	**103.7**	30	-	120	
103	Rh	3	1303559	1.39	1280000	**101.8**	30	-	120	
165	Ho	3	2659325	0.34	2556000	**104.0**	30	-	120	
175	Lu	3	2917799	1.53	2887000	**101.1**	30	-	120	
209	Bi	3	6125623	0.54	5936000	**103.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\018SMPL.D\018SMPL.D#
Date Acquired: Jun 2 2010 01:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	292.7	450	6	P	
23	**Na**	2	**241100.000**	ug/l	241,100.00	1.0	450000	45	A	
24	**Mg**	2	**94630.000**	ug/l	94,630.00	1.5	450000	45	A	
27	**Al**	2	**91910.000**	ug/l	91,910.00	0.7	450000	45	A	
31	**P**	2	**99630.000**	ug/l	99,630.00	2.2	450000	45	A	
39	**K**	2	**94410.000**	ug/l	94,410.00	1.5	450000	45	A	
40	**Ca**	1	**300000.000**	ug/l	300,000.00	0.2	450000	45	A	
47	**Ti**	2	**1925.000**	ug/l	1,925.00	1.5	4500	45	P	
51	**V**	2	**0.069**	ug/l	0.07	21.8	4500	45	P	
52	**Cr**	2	**1.014**	ug/l	1.01	2.8	4500	45	P	
54	**Fe**	1	**234000.000**	ug/l	234,000.00	0.5	450000	74	A	
55	**Mn**	2	**5.527**	ug/l	5.53	4.6	15000	45	P	
59	**Co**	2	**3.494**	ug/l	3.49	2.6	4500	45	P	
60	**Ni**	2	**2.633**	ug/l	2.63	11.2	15000	45	P	
63	**Cu**	2	**3.599**	ug/l	3.60	5.3	15000	45	P	
66	**Zn**	2	**3.131**	ug/l	3.13	11.1	15000	45	P	
75	**As**	2	**0.402**	ug/l	0.40	4.9	4500	74	P	
78	**Se**	1	**0.051**	ug/l	0.05	33.4	450	74	P	
88	**Sr**	3	**16.410**	ug/l	16.41	4.2	4500	74	P	
95	**Mo**	3	**1957.000**	ug/l	1,957.00	4.3	4500	74	A	
107	**Ag**	3	**0.170**	ug/l	0.17	5.8	450	103	P	
111	**Cd**	3	**0.203**	ug/l	0.20	130.5	900	103	P	
118	**Sn**	3	**0.077**	ug/l	0.08	33.1	4500	103	P	
121	**Sb**	3	**0.624**	ug/l	0.62	5.1	4500	103	P	
135	**Ba**	3	**0.336**	ug/l	0.34	5.5	4500	103	P	
200	**Hg**	3	**0.018**	ug/l	0.02	204.8	45	209	P	
205	**Tl**	3	**0.058**	ug/l	0.06	7.8	4500	209	P	
208	**Pb**	3	**0.253**	ug/l	0.25	3.0	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	83.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4646895	0.77	4716000	**98.5**	30	-	120	
45	Sc	1	613749	0.91	659800	**93.0**	30	-	120	
45	Sc	2	235815	1.37	256100	**92.1**	30	-	120	
74	Ge	1	441255	1.64	495700	**89.0**	30	-	120	
74	Ge	2	321248	0.86	370200	**86.8**	30	-	120	
74	Ge	3	1279041	0.25	1354000	**94.5**	30	-	120	
103	Rh	2	536510	0.58	687700	**78.0**	30	-	120	
103	Rh	3	1063557	1.45	1280000	**83.1**	30	-	120	
165	Ho	3	2335495	1.12	2556000	**91.4**	30	-	120	
175	Lu	3	2605307	0.49	2887000	**90.2**	30	-	120	
209	Bi	3	4803935	1.18	5936000	**80.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\019SMPL.D\019SMPL.D#
Date Acquired: Jun 2 2010 01:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	162.9	450	6	P	
23	**Na**	2	**249800.000**	ug/l	249,800.00	0.3	450000	45	A	
24	**Mg**	2	**96940.000**	ug/l	96,940.00	0.2	450000	45	A	
27	**Al**	2	**94050.000**	ug/l	94,050.00	0.4	450000	45	A	
31	**P**	2	**101000.000**	ug/l	101,000.00	1.2	450000	45	A	
39	**K**	2	**96350.000**	ug/l	96,350.00	0.8	450000	45	A	
40	**Ca**	1	**302100.000**	ug/l	302,100.00	0.6	450000	45	A	
47	**Ti**	2	**1930.000**	ug/l	1,930.00	0.3	4500	45	P	
51	**V**	2	**201.700**	ug/l	201.70	0.6	4500	45	P	
52	**Cr**	2	**198.400**	ug/l	198.40	0.7	4500	45	P	
54	**Fe**	1	**234200.000**	ug/l	234,200.00	1.3	450000	74	A	
55	**Mn**	2	**196.900**	ug/l	196.90	0.7	15000	45	P	
59	**Co**	2	**197.900**	ug/l	197.90	0.4	4500	45	P	
60	**Ni**	2	**193.900**	ug/l	193.90	0.8	15000	45	P	
63	**Cu**	2	**187.000**	ug/l	187.00	1.1	15000	45	P	
66	**Zn**	2	**95.270**	ug/l	95.27	0.9	15000	45	P	
75	**As**	2	**106.300**	ug/l	106.30	1.5	4500	74	P	
78	**Se**	1	**101.400**	ug/l	101.40	2.2	450	74	P	
88	**Sr**	3	**16.870**	ug/l	16.87	3.3	4500	74	P	
95	**Mo**	3	**2016.000**	ug/l	2,016.00	4.9	4500	74	A	
107	**Ag**	3	**50.300**	ug/l	50.30	1.6	450	103	P	
111	**Cd**	3	**102.900**	ug/l	102.90	4.8	900	103	P	
118	**Sn**	3	**0.107**	ug/l	0.11	3.1	4500	103	P	
121	**Sb**	3	**0.678**	ug/l	0.68	9.2	4500	103	P	
135	**Ba**	3	**0.336**	ug/l	0.34	11.1	4500	103	P	
200	**Hg**	3	**-0.040**	ug/l	-0.04	18.7	45	209	P	
205	**Tl**	3	**0.036**	ug/l	0.04	8.1	4500	209	P	
208	**Pb**	3	**0.253**	ug/l	0.25	8.1	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	60.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4603869	0.88	4716000	**97.6**	30	-	120	
45	Sc	1	604992	1.22	659800	**91.7**	30	-	120	
45	Sc	2	226120	0.47	256100	**88.3**	30	-	120	
74	Ge	1	436447	0.70	495700	**88.0**	30	-	120	
74	Ge	2	308788	0.14	370200	**83.4**	30	-	120	
74	Ge	3	1237189	1.30	1354000	**91.4**	30	-	120	
103	Rh	2	519373	1.20	687700	**75.5**	30	-	120	
103	Rh	3	1047845	0.22	1280000	**81.9**	30	-	120	
165	Ho	3	2288707	0.81	2556000	**89.5**	30	-	120	
175	Lu	3	2562574	0.49	2887000	**88.8**	30	-	120	
209	Bi	3	4791886	0.41	5936000	**80.7**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\023SMPL.D\023SMPL.D#
Date Acquired: Jun 2 2010 01:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.770**	ug/l	50.77	5.9	450	6	P	
23	**Na**	2	**5003.000**	ug/l	5,003.00	2.0	450000	45	A	
24	**Mg**	2	**4983.000**	ug/l	4,983.00	1.6	450000	45	A	
27	**Al**	2	**493.200**	ug/l	493.20	1.2	450000	45	P	
31	**P**	2	**4894.000**	ug/l	4,894.00	1.6	450000	45	P	
39	**K**	2	**5100.000**	ug/l	5,100.00	1.5	450000	45	A	
40	**Ca**	1	**5213.000**	ug/l	5,213.00	1.9	450000	45	A	
47	**Ti**	2	**49.050**	ug/l	49.05	1.5	4500	45	P	
51	**V**	2	**49.190**	ug/l	49.19	2.0	4500	45	P	
52	**Cr**	2	**50.110**	ug/l	50.11	0.9	4500	45	P	
54	**Fe**	1	**5194.000**	ug/l	5,194.00	0.2	450000	74	P	
55	**Mn**	2	**50.360**	ug/l	50.36	0.4	15000	45	P	
59	**Co**	2	**50.570**	ug/l	50.57	0.5	4500	45	P	
60	**Ni**	2	**50.320**	ug/l	50.32	0.8	15000	45	P	
63	**Cu**	2	**50.110**	ug/l	50.11	1.2	15000	45	P	
66	**Zn**	2	**50.480**	ug/l	50.48	0.8	15000	45	P	
75	**As**	2	**50.070**	ug/l	50.07	1.5	4500	74	P	
78	**Se**	1	**48.570**	ug/l	48.57	2.4	450	74	P	
88	**Sr**	3	**50.850**	ug/l	50.85	4.1	4500	74	P	
95	**Mo**	3	**50.980**	ug/l	50.98	4.9	4500	74	P	
107	**Ag**	3	**50.080**	ug/l	50.08	2.8	450	103	P	
111	**Cd**	3	**50.080**	ug/l	50.08	6.6	900	103	P	
118	**Sn**	3	**50.290**	ug/l	50.29	6.8	4500	103	P	
121	**Sb**	3	**49.970**	ug/l	49.97	5.8	4500	103	P	
135	**Ba**	3	**49.670**	ug/l	49.67	6.1	4500	103	P	
200	**Hg**	3	**2.402**	ug/l	2.40	3.7	45	209	P	
205	**Tl**	3	**50.040**	ug/l	50.04	6.5	4500	209	P	
208	**Pb**	3	**49.970**	ug/l	49.97	4.7	4500	209	P	
238	**U**	3	**50.200**	ug/l	50.20	5.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4614941	1.03	4716000	**97.9**	30	-	120	
45	Sc	1	656729	1.26	659800	**99.5**	30	-	120	
45	Sc	2	253430	0.26	256100	**99.0**	30	-	120	
74	Ge	1	498799	0.99	495700	**100.6**	30	-	120	
74	Ge	2	363247	1.61	370200	**98.1**	30	-	120	
74	Ge	3	1377097	0.78	1354000	**101.7**	30	-	120	
103	Rh	2	669520	1.32	687700	**97.4**	30	-	120	
103	Rh	3	1242090	0.97	1280000	**97.0**	30	-	120	
165	Ho	3	2595822	0.63	2556000	**101.6**	30	-	120	
175	Lu	3	2896399	1.17	2887000	**100.3**	30	-	120	
209	Bi	3	5906021	1.12	5936000	**99.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\024SMPL.D\024SMPL.D#
Date Acquired: Jun 2 2010 01:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	92.1	450	6	P	
23	**Na**	2	**-0.123**	ug/l	-0.12	3735.4	450000	45	P	
24	**Mg**	2	**0.502**	ug/l	0.50	32.7	450000	45	P	
27	**Al**	2	**-0.043**	ug/l	-0.04	168.3	450000	45	P	
31	**P**	2	**-6.557**	ug/l	-6.56	63.4	450000	45	P	
39	**K**	2	**-8.778**	ug/l	-8.78	77.9	450000	45	P	
40	**Ca**	1	**0.199**	ug/l	0.20	250.8	450000	45	P	
47	**Ti**	2	**0.022**	ug/l	0.02	101.6	4500	45	P	
51	**V**	2	**-0.024**	ug/l	-0.02	197.4	4500	45	P	
52	**Cr**	2	**0.004**	ug/l	0.00	1360.6	4500	45	P	
54	**Fe**	1	**0.443**	ug/l	0.44	177.2	450000	74	P	
55	**Mn**	2	**-0.005**	ug/l	0.00	87.8	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.00	51.6	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	151.9	15000	45	P	
63	**Cu**	2	**-0.018**	ug/l	-0.02	101.9	15000	45	P	
66	**Zn**	2	**0.023**	ug/l	0.02	595.2	15000	45	P	
75	**As**	2	**-0.050**	ug/l	-0.05	68.9	4500	74	P	
78	**Se**	1	**-0.022**	ug/l	-0.02	0.0	450	74	P	
88	**Sr**	3	**0.000**	ug/l	0.00	2187.1	4500	74	P	
95	**Mo**	3	**0.011**	ug/l	0.01	78.9	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	140.5	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	0.00	147.8	900	103	P	
118	**Sn**	3	**0.025**	ug/l	0.02	59.2	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	76.8	4500	103	P	
135	**Ba**	3	**-0.010**	ug/l	-0.01	76.2	4500	103	P	
200	**Hg**	3	**-0.035**	ug/l	-0.03	84.9	45	209	P	
205	**Tl**	3	**0.168**	ug/l	0.17	8.9	4500	209	P	
208	**Pb**	3	**0.003**	ug/l	0.00	78.9	4500	209	P	
238	**U**	3	**0.004**	ug/l	0.00	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4688740	3.17	4716000	**99.4**	30	-	120	
45	Sc	1	662399	0.98	659800	**100.4**	30	-	120	
45	Sc	2	258062	2.01	256100	**100.8**	30	-	120	
74	Ge	1	507497	1.55	495700	**102.4**	30	-	120	
74	Ge	2	370440	1.06	370200	**100.1**	30	-	120	
74	Ge	3	1375395	1.15	1354000	**101.6**	30	-	120	
103	Rh	2	695528	1.42	687700	**101.1**	30	-	120	
103	Rh	3	1280863	2.03	1280000	**100.1**	30	-	120	
165	Ho	3	2601202	1.03	2556000	**101.8**	30	-	120	
175	Lu	3	2930965	0.63	2887000	**101.5**	30	-	120	
209	Bi	3	6046304	1.57	5936000	**101.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\025SMPL.D\025SMPL.D#
Date Acquired: Jun 2 2010 01:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64602/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.01	124.7	450	6	P	
23	**Na**	2	**-1.436**	ug/l	-14.36	69.6	450000	45	P	
24	**Mg**	2	**0.174**	ug/l	1.74	71.4	450000	45	P	
27	**Al**	2	**-0.157**	ug/l	-1.57	51.0	450000	45	P	
31	**P**	2	**-6.910**	ug/l	-69.10	62.2	450000	45	P	
39	**K**	2	**-9.038**	ug/l	-90.38	23.4	450000	45	P	
40	**Ca**	1	**-0.871**	ug/l	-8.71	35.6	450000	45	P	
47	**Ti**	2	**0.027**	ug/l	0.27	17.2	4500	45	P	
51	**V**	2	**-0.033**	ug/l	-0.33	22.3	4500	45	P	
52	**Cr**	2	**-0.001**	ug/l	-0.01	5687.3	4500	45	P	
54	**Fe**	1	**0.407**	ug/l	4.07	79.2	450000	74	P	
55	**Mn**	2	**-0.002**	ug/l	-0.02	200.0	15000	45	P	
59	**Co**	2	**0.001**	ug/l	0.01	200.0	4500	45	P	
60	**Ni**	2	**0.015**	ug/l	0.15	32.5	15000	45	P	
63	**Cu**	2	**-0.010**	ug/l	-0.10	125.0	15000	45	P	
66	**Zn**	2	**0.025**	ug/l	0.25	351.9	15000	45	P	
75	**As**	2	**-0.007**	ug/l	-0.07	536.3	4500	74	P	
78	**Se**	1	**0.005**	ug/l	0.05	478.5	450	74	P	
88	**Sr**	3	**-0.003**	ug/l	-0.03	26.6	4500	74	P	
95	**Mo**	3	**0.005**	ug/l	0.05	149.2	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	156.2	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	-0.03	531.8	900	103	P	
118	**Sn**	3	**-0.002**	ug/l	-0.02	317.7	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.05	66.0	4500	103	P	
135	**Ba**	3	**-0.008**	ug/l	-0.08	266.1	4500	103	P	
200	**Hg**	3	**-0.015**	ug/l	-0.15	136.2	45	209	P	
205	**Tl**	3	**0.067**	ug/l	0.67	3.9	4500	209	P	
208	**Pb**	3	**-0.003**	ug/l	-0.03	89.6	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	122.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4693647	1.02	4716000	**99.5**	30	-	120	
45	Sc	1	656800	1.26	659800	**99.5**	30	-	120	
45	Sc	2	257803	0.63	256100	**100.7**	30	-	120	
74	Ge	1	505334	1.44	495700	**101.9**	30	-	120	
74	Ge	2	371351	1.33	370200	**100.3**	30	-	120	
74	Ge	3	1374498	2.21	1354000	**101.5**	30	-	120	
103	Rh	2	702173	0.97	687700	**102.1**	30	-	120	
103	Rh	3	1284896	3.65	1280000	**100.4**	30	-	120	
165	Ho	3	2580523	0.29	2556000	**101.0**	30	-	120	
175	Lu	3	2907059	1.40	2887000	**100.7**	30	-	120	
209	Bi	3	6084910	1.42	5936000	**102.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\026SMPL.D\026SMPL.D#
Date Acquired: Jun 2 2010 02:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.081**	ug/l	4.03	22.0	450	6	P	
23	**Na**	2	**-1.218**	ug/l	-60.90	161.7	450000	45	P	
24	**Mg**	2	**7873.000**	ug/l	393,650.00	0.5	450000	45	A	
27	**Al**	2	**701.600**	ug/l	35,080.00	1.3	450000	45	P	
31	**P**	2	**46.890**	ug/l	2,344.50	7.2	450000	45	P	
39	**K**	2	**33.540**	ug/l	1,677.00	15.7	450000	45	P	
40	**Ca**	1	**128.100**	ug/l	6,405.00	1.0	450000	45	P	
47	**Ti**	2	**12.130**	ug/l	606.50	2.5	4500	45	P	
51	**V**	2	**8.001**	ug/l	400.05	2.4	4500	45	P	
52	**Cr**	2	**247.800**	ug/l	12,390.00	0.9	4500	45	P	
54	**Fe**	1	**30140.000**	ug/l	1,507,000.00	0.9	450000	74	A	
55	**Mn**	2	**237.600**	ug/l	11,880.00	0.3	15000	45	P	
59	**Co**	2	**37.240**	ug/l	1,862.00	0.2	4500	45	P	
60	**Ni**	2	**653.600**	ug/l	32,680.00	0.7	15000	45	P	
63	**Cu**	2	**6.240**	ug/l	312.00	1.5	15000	45	P	
66	**Zn**	2	**14.080**	ug/l	704.00	3.4	15000	45	P	
75	**As**	2	**0.417**	ug/l	20.85	20.9	4500	74	P	
78	**Se**	1	**0.038**	ug/l	1.92	25.5	450	74	P	
88	**Sr**	3	**0.773**	ug/l	38.64	6.2	4500	74	P	
95	**Mo**	3	**0.077**	ug/l	3.83	22.0	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.14	75.1	450	103	P	
111	**Cd**	3	**0.061**	ug/l	3.07	42.4	900	103	P	
118	**Sn**	3	**0.132**	ug/l	6.61	7.2	4500	103	P	
121	**Sb**	3	**0.439**	ug/l	21.95	5.0	4500	103	P	
135	**Ba**	3	**11.390**	ug/l	569.50	5.6	4500	103	P	
200	**Hg**	3	**4.664**	ug/l	233.20	4.9	45	209	P	
205	**Tl**	3	**0.116**	ug/l	5.78	11.6	4500	209	P	
208	**Pb**	3	**6.281**	ug/l	314.05	4.4	4500	209	P	
238	**U**	3	**0.066**	ug/l	3.29	16.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4502210	0.90	4716000	**95.5**	30	-	120	
45	Sc	1	656286	1.35	659800	**99.5**	30	-	120	
45	Sc	2	256572	0.43	256100	**100.2**	30	-	120	
74	Ge	1	492785	1.60	495700	**99.4**	30	-	120	
74	Ge	2	367060	1.79	370200	**99.2**	30	-	120	
74	Ge	3	1384765	1.20	1354000	**102.3**	30	-	120	
103	Rh	2	671729	0.93	687700	**97.7**	30	-	120	
103	Rh	3	1256540	1.68	1280000	**98.2**	30	-	120	
165	Ho	3	2611570	0.58	2556000	**102.2**	30	-	120	
175	Lu	3	2958555	0.75	2887000	**102.5**	30	-	120	
209	Bi	3	5967538	0.81	5936000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\027SMPL.D\027SMPL.D#
Date Acquired: Jun 2 2010 02:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.448**	ug/l	4.48	3.5	450	6	P	
23	**Na**	2	**28.900**	ug/l	289.00	7.1	450000	45	P	
24	**Mg**	2	**37080.000**	ug/l	370,800.00	1.0	450000	45	A	
27	**Al**	2	**3413.000**	ug/l	34,130.00	0.5	450000	45	P	
31	**P**	2	**237.300**	ug/l	2,373.00	1.6	450000	45	P	
39	**K**	2	**184.200**	ug/l	1,842.00	3.6	450000	45	P	
40	**Ca**	1	**622.300**	ug/l	6,223.00	1.0	450000	45	A	
47	**Ti**	2	**59.210**	ug/l	592.10	1.8	4500	45	P	
51	**V**	2	**39.130**	ug/l	391.30	2.7	4500	45	P	
52	**Cr**	2	**1152.000**	ug/l	11,520.00	0.7	4500	45	A	
54	**Fe**	1	**153400.000**	ug/l	1,534,000.00	1.4	450000	74	A	
55	**Mn**	2	**1144.000**	ug/l	11,440.00	1.0	15000	45	A	
59	**Co**	2	**180.200**	ug/l	1,802.00	0.6	4500	45	P	
60	**Ni**	2	**3077.000**	ug/l	30,770.00	0.8	15000	45	A	
63	**Cu**	2	**29.220**	ug/l	292.20	2.4	15000	45	P	
66	**Zn**	2	**68.880**	ug/l	688.80	0.7	15000	45	P	
75	**As**	2	**2.293**	ug/l	22.93	3.6	4500	74	P	
78	**Se**	1	**0.107**	ug/l	1.07	67.9	450	74	P	
88	**Sr**	3	**4.035**	ug/l	40.35	0.8	4500	74	P	
95	**Mo**	3	**0.343**	ug/l	3.43	2.6	4500	74	P	
107	**Ag**	3	**0.038**	ug/l	0.38	21.0	450	103	P	
111	**Cd**	3	**0.257**	ug/l	2.57	24.3	900	103	P	
118	**Sn**	3	**0.675**	ug/l	6.75	12.5	4500	103	P	
121	**Sb**	3	**2.240**	ug/l	22.40	3.8	4500	103	P	
135	**Ba**	3	**60.510**	ug/l	605.10	0.3	4500	103	P	
200	**Hg**	3	**24.420**	ug/l	244.20	1.3	45	209	P	
205	**Tl**	3	**0.459**	ug/l	4.59	2.2	4500	209	P	
208	**Pb**	3	**32.940**	ug/l	329.40	0.7	4500	209	P	
238	**U**	3	**0.359**	ug/l	3.59	4.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3907552	0.80	4716000	**82.9**	30	-	120	
45	Sc	1	658012	0.42	659800	**99.7**	30	-	120	
45	Sc	2	249223	0.42	256100	**97.3**	30	-	120	
74	Ge	1	463859	1.83	495700	**93.6**	30	-	120	
74	Ge	2	342740	1.34	370200	**92.6**	30	-	120	
74	Ge	3	1253376	2.12	1354000	**92.6**	30	-	120	
103	Rh	2	624882	0.79	687700	**90.9**	30	-	120	
103	Rh	3	1160631	1.16	1280000	**90.7**	30	-	120	
165	Ho	3	2544041	1.24	2556000	**99.5**	30	-	120	
175	Lu	3	2831828	0.47	2887000	**98.1**	30	-	120	
209	Bi	3	5651334	0.81	5936000	**95.2**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\028SMPL.D\028SMPL.D#
Date Acquired: Jun 2 2010 02:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-C DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.473**	ug/l	4.73	5.9	450	6	P	
23	**Na**	2	**30.840**	ug/l	308.40	6.4	450000	45	P	
24	**Mg**	2	**36400.000**	ug/l	364,000.00	1.9	450000	45	A	
27	**Al**	2	**3333.000**	ug/l	33,330.00	1.4	450000	45	P	
31	**P**	2	**233.100**	ug/l	2,331.00	3.9	450000	45	P	
39	**K**	2	**179.800**	ug/l	1,798.00	0.7	450000	45	P	
40	**Ca**	1	**601.300**	ug/l	6,013.00	1.6	450000	45	A	
47	**Ti**	2	**57.710**	ug/l	577.10	1.6	4500	45	P	
51	**V**	2	**37.990**	ug/l	379.90	0.8	4500	45	P	
52	**Cr**	2	**1121.000**	ug/l	11,210.00	0.4	4500	45	A	
54	**Fe**	1	**148000.000**	ug/l	1,480,000.00	2.2	450000	74	A	
55	**Mn**	2	**1093.000**	ug/l	10,930.00	2.3	15000	45	A	
59	**Co**	2	**175.200**	ug/l	1,752.00	0.7	4500	45	P	
60	**Ni**	2	**2993.000**	ug/l	29,930.00	1.9	15000	45	A	
63	**Cu**	2	**28.260**	ug/l	282.60	1.9	15000	45	P	
66	**Zn**	2	**67.290**	ug/l	672.90	1.2	15000	45	P	
75	**As**	2	**2.368**	ug/l	23.68	6.8	4500	74	P	
78	**Se**	1	**0.082**	ug/l	0.82	20.2	450	74	P	
88	**Sr**	3	**3.967**	ug/l	39.67	2.9	4500	74	P	
95	**Mo**	3	**0.289**	ug/l	2.89	17.1	4500	74	P	
107	**Ag**	3	**0.040**	ug/l	0.40	6.3	450	103	P	
111	**Cd**	3	**0.216**	ug/l	2.16	11.8	900	103	P	
118	**Sn**	3	**0.640**	ug/l	6.40	3.6	4500	103	P	
121	**Sb**	3	**2.216**	ug/l	22.16	3.9	4500	103	P	
135	**Ba**	3	**58.270**	ug/l	582.70	1.0	4500	103	P	
200	**Hg**	3	**23.960**	ug/l	239.60	0.8	45	209	P	
205	**Tl**	3	**0.451**	ug/l	4.51	3.1	4500	209	P	
208	**Pb**	3	**32.360**	ug/l	323.60	1.4	4500	209	P	
238	**U**	3	**0.341**	ug/l	3.41	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3905090	1.19	4716000	**82.8**	30	-	120	
45	Sc	1	657207	0.83	659800	**99.6**	30	-	120	
45	Sc	2	245047	0.22	256100	**95.7**	30	-	120	
74	Ge	1	466750	2.34	495700	**94.2**	30	-	120	
74	Ge	2	331446	0.30	370200	**89.5**	30	-	120	
74	Ge	3	1240198	1.48	1354000	**91.6**	30	-	120	
103	Rh	2	612201	0.58	687700	**89.0**	30	-	120	
103	Rh	3	1151346	0.88	1280000	**89.9**	30	-	120	
165	Ho	3	2489659	2.69	2556000	**97.4**	30	-	120	
175	Lu	3	2795228	0.72	2887000	**96.8**	30	-	120	
209	Bi	3	5578370	1.15	5936000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\029SMPL.D\029SMPL.D#
Date Acquired: Jun 2 2010 02:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-D MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.223**	ug/l	111.15	4.7	450	6	P	
23	**Na**	2	**450.200**	ug/l	22,510.00	0.8	450000	45	P	
24	**Mg**	2	**8062.000**	ug/l	403,100.00	0.8	450000	45	A	
27	**Al**	2	**782.100**	ug/l	39,105.00	0.7	450000	45	P	
31	**P**	2	**453.400**	ug/l	22,670.00	2.0	450000	45	P	
39	**K**	2	**487.800**	ug/l	24,390.00	0.3	450000	45	P	
40	**Ca**	1	**589.700**	ug/l	29,485.00	0.3	450000	45	M	
47	**Ti**	2	**114.900**	ug/l	5,745.00	1.0	4500	45	P	
51	**V**	2	**28.690**	ug/l	1,434.50	0.8	4500	45	P	
52	**Cr**	2	**247.900**	ug/l	12,395.00	0.7	4500	45	P	
54	**Fe**	1	**29530.000**	ug/l	1,476,500.00	1.6	450000	74	A	
55	**Mn**	2	**253.800**	ug/l	12,690.00	0.2	15000	45	P	
59	**Co**	2	**57.980**	ug/l	2,899.00	0.6	4500	45	P	
60	**Ni**	2	**660.400**	ug/l	33,020.00	0.5	15000	45	P	
63	**Cu**	2	**16.990**	ug/l	849.50	2.7	15000	45	P	
66	**Zn**	2	**37.250**	ug/l	1,862.50	1.3	15000	45	P	
75	**As**	2	**82.950**	ug/l	4,147.50	0.5	4500	74	P	
78	**Se**	1	**85.770**	ug/l	4,288.50	2.1	450	74	P	
88	**Sr**	3	**0.746**	ug/l	37.29	4.1	4500	74	P	
95	**Mo**	3	**107.500**	ug/l	5,375.00	4.8	4500	74	P	
107	**Ag**	3	**12.800**	ug/l	640.00	4.0	450	103	P	
111	**Cd**	3	**2.178**	ug/l	108.90	6.3	900	103	P	
118	**Sn**	3	**108.900**	ug/l	5,445.00	6.7	4500	103	P	
121	**Sb**	3	**60.520**	ug/l	3,026.00	4.5	4500	103	P	
135	**Ba**	3	**95.330**	ug/l	4,766.50	6.4	4500	103	P	
200	**Hg**	3	**5.426**	ug/l	271.30	3.0	45	209	P	
205	**Tl**	3	**85.160**	ug/l	4,258.00	1.3	4500	209	A	
208	**Pb**	3	**27.230**	ug/l	1,361.50	4.5	4500	209	P	
238	**U**	3	**0.062**	ug/l	3.09	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4633043	0.68	4716000	**98.2**	30	-	120	
45	Sc	1	648678	2.39	659800	**98.3**	30	-	120	
45	Sc	2	252184	1.17	256100	**98.5**	30	-	120	
74	Ge	1	493008	1.50	495700	**99.5**	30	-	120	
74	Ge	2	362890	0.69	370200	**98.0**	30	-	120	
74	Ge	3	1375381	1.36	1354000	**101.6**	30	-	120	
103	Rh	2	667174	1.11	687700	**97.0**	30	-	120	
103	Rh	3	1248547	0.68	1280000	**97.5**	30	-	120	
165	Ho	3	2599310	1.03	2556000	**101.7**	30	-	120	
175	Lu	3	2890467	1.17	2887000	**100.1**	30	-	120	
209	Bi	3	5909883	1.08	5936000	**99.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\030SMPL.D\030SMPL.D#
Date Acquired: Jun 2 2010 02:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-E MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.083**	ug/l	104.15	8.3	450	6	P	
23	**Na**	2	**423.200**	ug/l	21,160.00	0.9	450000	45	P	
24	**Mg**	2	**7643.000**	ug/l	382,150.00	1.0	450000	45	A	
27	**Al**	2	**742.600**	ug/l	37,130.00	0.4	450000	45	P	
31	**P**	2	**419.500**	ug/l	20,975.00	2.7	450000	45	P	
39	**K**	2	**459.300**	ug/l	22,965.00	1.6	450000	45	P	
40	**Ca**	1	**567.700**	ug/l	28,385.00	2.1	450000	45	M	
47	**Ti**	2	**109.300**	ug/l	5,465.00	0.7	4500	45	P	
51	**V**	2	**26.950**	ug/l	1,347.50	0.6	4500	45	P	
52	**Cr**	2	**232.200**	ug/l	11,610.00	0.6	4500	45	P	
54	**Fe**	1	**28440.000**	ug/l	1,422,000.00	1.0	450000	74	A	
55	**Mn**	2	**239.700**	ug/l	11,985.00	0.4	15000	45	P	
59	**Co**	2	**54.960**	ug/l	2,748.00	0.2	4500	45	P	
60	**Ni**	2	**627.700**	ug/l	31,385.00	0.6	15000	45	P	
63	**Cu**	2	**15.810**	ug/l	790.50	0.5	15000	45	P	
66	**Zn**	2	**34.050**	ug/l	1,702.50	3.1	15000	45	P	
75	**As**	2	**80.910**	ug/l	4,045.50	1.8	4500	74	P	
78	**Se**	1	**82.640**	ug/l	4,132.00	3.3	450	74	P	
88	**Sr**	3	**0.712**	ug/l	35.61	2.5	4500	74	P	
95	**Mo**	3	**101.600**	ug/l	5,080.00	6.1	4500	74	P	
107	**Ag**	3	**12.280**	ug/l	614.00	5.4	450	103	P	
111	**Cd**	3	**2.206**	ug/l	110.30	11.4	900	103	P	
118	**Sn**	3	**104.300**	ug/l	5,215.00	7.7	4500	103	P	
121	**Sb**	3	**58.210**	ug/l	2,910.50	5.4	4500	103	P	
135	**Ba**	3	**90.750**	ug/l	4,537.50	6.5	4500	103	P	
200	**Hg**	3	**5.154**	ug/l	257.70	3.9	45	209	P	
205	**Tl**	3	**82.000**	ug/l	4,100.00	1.6	4500	209	A	
208	**Pb**	3	**26.230**	ug/l	1,311.50	5.1	4500	209	P	
238	**U**	3	**0.062**	ug/l	3.08	10.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4856538	0.56	4716000	**103.0**	30	-	120	
45	Sc	1	663316	1.52	659800	**100.5**	30	-	120	
45	Sc	2	258978	1.18	256100	**101.1**	30	-	120	
74	Ge	1	497580	0.34	495700	**100.4**	30	-	120	
74	Ge	2	366677	1.98	370200	**99.0**	30	-	120	
74	Ge	3	1401787	0.99	1354000	**103.5**	30	-	120	
103	Rh	2	665916	0.71	687700	**96.8**	30	-	120	
103	Rh	3	1259928	1.34	1280000	**98.4**	30	-	120	
165	Ho	3	2602037	1.25	2556000	**101.8**	30	-	120	
175	Lu	3	2914645	0.93	2887000	**101.0**	30	-	120	
209	Bi	3	5903611	0.95	5936000	**99.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\031SMPL.D\031SMPL.D#
Date Acquired: Jun 2 2010 02:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.033**	ug/l	101.65	7.0	450	6	P	
23	**Na**	2	**399.100**	ug/l	19,955.00	1.4	450000	45	P	
24	**Mg**	2	**7200.000**	ug/l	360,000.00	1.5	450000	45	A	
27	**Al**	2	**702.600**	ug/l	35,130.00	0.6	450000	45	P	
31	**P**	2	**412.200**	ug/l	20,610.00	3.3	450000	45	P	
39	**K**	2	**436.400**	ug/l	21,820.00	0.7	450000	45	P	
40	**Ca**	1	**532.800**	ug/l	26,640.00	1.1	450000	45	P	
47	**Ti**	2	**103.700**	ug/l	5,185.00	1.3	4500	45	P	
51	**V**	2	**25.940**	ug/l	1,297.00	0.9	4500	45	P	
52	**Cr**	2	**220.200**	ug/l	11,010.00	0.3	4500	45	P	
54	**Fe**	1	**26940.000**	ug/l	1,347,000.00	1.8	450000	74	A	
55	**Mn**	2	**227.000**	ug/l	11,350.00	0.3	15000	45	P	
59	**Co**	2	**52.130**	ug/l	2,606.50	0.9	4500	45	P	
60	**Ni**	2	**596.300**	ug/l	29,815.00	1.4	15000	45	P	
63	**Cu**	2	**15.220**	ug/l	761.00	1.0	15000	45	P	
66	**Zn**	2	**32.080**	ug/l	1,604.00	1.3	15000	45	P	
75	**As**	2	**76.350**	ug/l	3,817.50	1.4	4500	74	P	
78	**Se**	1	**78.360**	ug/l	3,918.00	0.9	450	74	P	
88	**Sr**	3	**0.675**	ug/l	33.74	2.3	4500	74	P	
95	**Mo**	3	**98.240**	ug/l	4,912.00	4.5	4500	74	P	
107	**Ag**	3	**11.800**	ug/l	590.00	3.3	450	103	P	
111	**Cd**	3	**2.013**	ug/l	100.65	11.9	900	103	P	
118	**Sn**	3	**100.800**	ug/l	5,040.00	6.9	4500	103	P	
121	**Sb**	3	**55.840**	ug/l	2,792.00	4.1	4500	103	P	
135	**Ba**	3	**88.530**	ug/l	4,426.50	3.4	4500	103	P	
200	**Hg**	3	**4.878**	ug/l	243.90	2.7	45	209	P	
205	**Tl**	3	**77.710**	ug/l	3,885.50	2.3	4500	209	A	
208	**Pb**	3	**24.980**	ug/l	1,249.00	3.9	4500	209	P	
238	**U**	3	**0.058**	ug/l	2.90	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4836916	0.87	4716000	**102.6**	30	-	120	
45	Sc	1	666067	1.27	659800	**100.9**	30	-	120	
45	Sc	2	260058	0.83	256100	**101.5**	30	-	120	
74	Ge	1	496859	1.50	495700	**100.2**	30	-	120	
74	Ge	2	367827	1.01	370200	**99.4**	30	-	120	
74	Ge	3	1401032	0.47	1354000	**103.5**	30	-	120	
103	Rh	2	675840	0.57	687700	**98.3**	30	-	120	
103	Rh	3	1263560	1.33	1280000	**98.7**	30	-	120	
165	Ho	3	2599144	1.70	2556000	**101.7**	30	-	120	
175	Lu	3	2893917	0.32	2887000	**100.2**	30	-	120	
209	Bi	3	5955665	0.47	5936000	**100.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\032SMPL.D\032SMPL.D#
Date Acquired: Jun 2 2010 02:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64602/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.976**	ug/l	98.80	3.9	450	6	P	
23	**Na**	2	**412.200**	ug/l	20,610.00	1.8	450000	45	P	
24	**Mg**	2	**418.800**	ug/l	20,940.00	1.6	450000	45	P	
27	**Al**	2	**80.790**	ug/l	4,039.50	1.8	450000	45	P	
31	**P**	2	**390.400**	ug/l	19,520.00	2.8	450000	45	P	
39	**K**	2	**419.400**	ug/l	20,970.00	2.6	450000	45	P	
40	**Ca**	1	**428.100**	ug/l	21,405.00	2.2	450000	45	P	
47	**Ti**	2	**96.220**	ug/l	4,811.00	1.0	4500	45	P	
51	**V**	2	**19.670**	ug/l	983.50	2.2	4500	45	P	
52	**Cr**	2	**8.183**	ug/l	409.15	1.4	4500	45	P	
54	**Fe**	1	**457.900**	ug/l	22,895.00	1.9	450000	74	P	
55	**Mn**	2	**20.270**	ug/l	1,013.50	0.8	15000	45	P	
59	**Co**	2	**20.540**	ug/l	1,027.00	1.3	4500	45	P	
60	**Ni**	2	**20.630**	ug/l	1,031.50	4.3	15000	45	P	
63	**Cu**	2	**10.740**	ug/l	537.00	0.8	15000	45	P	
66	**Zn**	2	**19.820**	ug/l	991.00	1.4	15000	45	P	
75	**As**	2	**79.220**	ug/l	3,961.00	1.9	4500	74	P	
78	**Se**	1	**79.280**	ug/l	3,964.00	1.8	450	74	P	
88	**Sr**	3	**0.000**	ug/l	-0.02	273.4	4500	74	P	
95	**Mo**	3	**101.200**	ug/l	5,060.00	5.4	4500	74	P	
107	**Ag**	3	**12.210**	ug/l	610.50	2.6	450	103	P	
111	**Cd**	3	**1.964**	ug/l	98.20	4.0	900	103	P	
118	**Sn**	3	**101.300**	ug/l	5,065.00	4.6	4500	103	P	
121	**Sb**	3	**57.200**	ug/l	2,860.00	4.1	4500	103	P	
135	**Ba**	3	**77.300**	ug/l	3,865.00	4.3	4500	103	P	
200	**Hg**	3	**0.780**	ug/l	39.01	7.4	45	209	P	
205	**Tl**	3	**77.640**	ug/l	3,882.00	5.1	4500	209	A	
208	**Pb**	3	**20.060**	ug/l	1,003.00	3.9	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.03	0.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4686787	2.20	4716000	**99.4**	30	-	120	
45	Sc	1	651472	0.64	659800	**98.7**	30	-	120	
45	Sc	2	255363	1.55	256100	**99.7**	30	-	120	
74	Ge	1	492311	2.74	495700	**99.3**	30	-	120	
74	Ge	2	373616	2.06	370200	**100.9**	30	-	120	
74	Ge	3	1391158	1.25	1354000	**102.7**	30	-	120	
103	Rh	2	693938	1.43	687700	**100.9**	30	-	120	
103	Rh	3	1290813	0.22	1280000	**100.8**	30	-	120	
165	Ho	3	2613230	0.21	2556000	**102.2**	30	-	120	
175	Lu	3	2908631	0.94	2887000	**100.7**	30	-	120	
209	Bi	3	6108050	0.45	5936000	**102.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\033SMPL.D\033SMPL.D#
Date Acquired: Jun 2 2010 02:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64602/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.958**	ug/l	97.90	6.6	450	6	P	
23	**Na**	2	**402.000**	ug/l	20,100.00	0.5	450000	45	P	
24	**Mg**	2	**410.300**	ug/l	20,515.00	1.2	450000	45	P	
27	**Al**	2	**76.200**	ug/l	3,810.00	1.5	450000	45	P	
31	**P**	2	**372.400**	ug/l	18,620.00	2.8	450000	45	P	
39	**K**	2	**405.400**	ug/l	20,270.00	1.2	450000	45	P	
40	**Ca**	1	**430.100**	ug/l	21,505.00	2.1	450000	45	P	
47	**Ti**	2	**94.590**	ug/l	4,729.50	0.9	4500	45	P	
51	**V**	2	**19.530**	ug/l	976.50	1.4	4500	45	P	
52	**Cr**	2	**7.947**	ug/l	397.35	2.0	4500	45	P	
54	**Fe**	1	**456.800**	ug/l	22,840.00	1.3	450000	74	P	
55	**Mn**	2	**19.890**	ug/l	994.50	1.1	15000	45	P	
59	**Co**	2	**20.080**	ug/l	1,004.00	0.9	4500	45	P	
60	**Ni**	2	**20.050**	ug/l	1,002.50	3.0	15000	45	P	
63	**Cu**	2	**10.240**	ug/l	512.00	2.7	15000	45	P	
66	**Zn**	2	**19.730**	ug/l	986.50	3.0	15000	45	P	
75	**As**	2	**80.150**	ug/l	4,007.50	1.0	4500	74	P	
78	**Se**	1	**79.600**	ug/l	3,980.00	0.6	450	74	P	
88	**Sr**	3	**0.002**	ug/l	0.09	133.0	4500	74	P	
95	**Mo**	3	**100.600**	ug/l	5,030.00	4.3	4500	74	P	
107	**Ag**	3	**12.220**	ug/l	611.00	4.5	450	103	P	
111	**Cd**	3	**2.038**	ug/l	101.90	12.2	900	103	P	
118	**Sn**	3	**99.560**	ug/l	4,978.00	6.4	4500	103	P	
121	**Sb**	3	**56.940**	ug/l	2,847.00	5.3	4500	103	P	
135	**Ba**	3	**78.770**	ug/l	3,938.50	5.0	4500	103	P	
200	**Hg**	3	**0.722**	ug/l	36.08	8.2	45	209	P	
205	**Tl**	3	**77.990**	ug/l	3,899.50	7.3	4500	209	A	
208	**Pb**	3	**20.070**	ug/l	1,003.50	5.8	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	8530.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4757622	0.80	4716000	**100.9**	30	-	120	
45	Sc	1	650600	1.76	659800	**98.6**	30	-	120	
45	Sc	2	260530	0.43	256100	**101.7**	30	-	120	
74	Ge	1	492284	0.88	495700	**99.3**	30	-	120	
74	Ge	2	371645	0.33	370200	**100.4**	30	-	120	
74	Ge	3	1393520	1.21	1354000	**102.9**	30	-	120	
103	Rh	2	694594	1.05	687700	**101.0**	30	-	120	
103	Rh	3	1284125	0.88	1280000	**100.3**	30	-	120	
165	Ho	3	2605784	0.31	2556000	**101.9**	30	-	120	
175	Lu	3	2939424	1.23	2887000	**101.8**	30	-	120	
209	Bi	3	6050830	1.28	5936000	**101.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\034SMPL.D\034SMPL.D#
Date Acquired: Jun 2 2010 02:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64602/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**97.170**	ug/l	1,943.40	4.3	450	6	P	
23	**Na**	2	**331.900**	ug/l	6,638.00	0.3	450000	45	P	
24	**Mg**	2	**2622.000**	ug/l	52,440.00	1.1	450000	45	A	
27	**Al**	2	**6357.000**	ug/l	127,140.00	1.0	450000	45	A	
31	**P**	2	**431.800**	ug/l	8,636.00	4.8	450000	45	P	
39	**K**	2	**2469.000**	ug/l	49,380.00	2.1	450000	45	A	
40	**Ca**	1	**6062.000**	ug/l	121,240.00	0.9	450000	45	A	
47	**Ti**	2	**284.600**	ug/l	5,692.00	1.2	4500	45	P	
51	**V**	2	**58.240**	ug/l	1,164.80	0.9	4500	45	P	
52	**Cr**	2	**75.060**	ug/l	1,501.20	1.6	4500	45	P	
54	**Fe**	1	**11420.000**	ug/l	228,400.00	0.6	450000	74	A	
55	**Mn**	2	**220.400**	ug/l	4,408.00	0.6	15000	45	P	
59	**Co**	2	**73.420**	ug/l	1,468.40	1.0	4500	45	P	
60	**Ni**	2	**108.700**	ug/l	2,174.00	0.6	15000	45	P	
63	**Cu**	2	**41.790**	ug/l	835.80	1.2	15000	45	P	
66	**Zn**	2	**221.200**	ug/l	4,424.00	1.4	15000	45	P	
75	**As**	2	**140.600**	ug/l	2,812.00	0.7	4500	74	P	
78	**Se**	1	**91.690**	ug/l	1,833.80	0.8	450	74	P	
88	**Sr**	3	**74.830**	ug/l	1,496.60	3.9	4500	74	P	
95	**Mo**	3	**68.830**	ug/l	1,376.60	4.6	4500	74	P	
107	**Ag**	3	**22.510**	ug/l	450.20	2.6	450	103	P	
111	**Cd**	3	**41.920**	ug/l	838.40	4.4	900	103	P	
118	**Sn**	3	**104.800**	ug/l	2,096.00	6.4	4500	103	P	
121	**Sb**	3	**88.180**	ug/l	1,763.60	5.7	4500	103	P	
135	**Ba**	3	**342.300**	ug/l	6,846.00	4.3	4500	103	P	
200	**Hg**	3	**2.528**	ug/l	50.56	4.6	45	209	P	
205	**Tl**	3	**107.100**	ug/l	2,142.00	5.0	4500	209	A	
208	**Pb**	3	**130.400**	ug/l	2,608.00	2.4	4500	209	A	
238	**U**	3	**1.047**	ug/l	20.94	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4894940	2.21	4716000	**103.8**	30	-	120	
45	Sc	1	669748	1.16	659800	**101.5**	30	-	120	
45	Sc	2	265054	0.78	256100	**103.5**	30	-	120	
74	Ge	1	500604	2.00	495700	**101.0**	30	-	120	
74	Ge	2	372375	1.25	370200	**100.6**	30	-	120	
74	Ge	3	1439171	1.05	1354000	**106.3**	30	-	120	
103	Rh	2	680803	1.17	687700	**99.0**	30	-	120	
103	Rh	3	1285774	1.76	1280000	**100.5**	30	-	120	
165	Ho	3	2666753	1.72	2556000	**104.3**	30	-	120	
175	Lu	3	2966779	1.01	2887000	**102.8**	30	-	120	
209	Bi	3	6084505	0.26	5936000	**102.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\035SMPL.D\035SMPL.D#
Date Acquired: Jun 2 2010 03:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.190**	ug/l	49.19	5.6	450	6	P	
23	**Na**	2	**4980.000**	ug/l	4,980.00	0.9	450000	45	A	
24	**Mg**	2	**4987.000**	ug/l	4,987.00	1.6	450000	45	A	
27	**Al**	2	**498.800**	ug/l	498.80	0.7	450000	45	P	
31	**P**	2	**4978.000**	ug/l	4,978.00	1.1	450000	45	P	
39	**K**	2	**5029.000**	ug/l	5,029.00	0.9	450000	45	A	
40	**Ca**	1	**5127.000**	ug/l	5,127.00	0.4	450000	45	A	
47	**Ti**	2	**49.900**	ug/l	49.90	0.8	4500	45	P	
51	**V**	2	**49.310**	ug/l	49.31	2.0	4500	45	P	
52	**Cr**	2	**50.450**	ug/l	50.45	1.2	4500	45	P	
54	**Fe**	1	**5187.000**	ug/l	5,187.00	0.3	450000	74	P	
55	**Mn**	2	**50.330**	ug/l	50.33	1.8	15000	45	P	
59	**Co**	2	**50.510**	ug/l	50.51	1.8	4500	45	P	
60	**Ni**	2	**50.490**	ug/l	50.49	2.2	15000	45	P	
63	**Cu**	2	**51.030**	ug/l	51.03	1.6	15000	45	P	
66	**Zn**	2	**50.100**	ug/l	50.10	0.9	15000	45	P	
75	**As**	2	**50.250**	ug/l	50.25	1.2	4500	74	P	
78	**Se**	1	**49.350**	ug/l	49.35	2.3	450	74	P	
88	**Sr**	3	**51.330**	ug/l	51.33	3.6	4500	74	P	
95	**Mo**	3	**50.710**	ug/l	50.71	3.6	4500	74	P	
107	**Ag**	3	**51.150**	ug/l	51.15	2.3	450	103	P	
111	**Cd**	3	**50.910**	ug/l	50.91	4.5	900	103	P	
118	**Sn**	3	**50.590**	ug/l	50.59	4.6	4500	103	P	
121	**Sb**	3	**50.510**	ug/l	50.51	3.1	4500	103	P	
135	**Ba**	3	**50.530**	ug/l	50.53	3.7	4500	103	P	
200	**Hg**	3	**2.341**	ug/l	2.34	3.5	45	209	P	
205	**Tl**	3	**50.910**	ug/l	50.91	6.0	4500	209	P	
208	**Pb**	3	**50.620**	ug/l	50.62	3.4	4500	209	P	
238	**U**	3	**50.130**	ug/l	50.13	3.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5247473	2.07	4716000	**111.3**	30	-	120	
45	Sc	1	666487	0.36	659800	**101.0**	30	-	120	
45	Sc	2	267140	1.53	256100	**104.3**	30	-	120	
74	Ge	1	507196	0.74	495700	**102.3**	30	-	120	
74	Ge	2	383400	1.58	370200	**103.6**	30	-	120	
74	Ge	3	1461592	1.64	1354000	**107.9**	30	-	120	
103	Rh	2	694852	0.83	687700	**101.0**	30	-	120	
103	Rh	3	1296829	1.09	1280000	**101.3**	30	-	120	
165	Ho	3	2672690	1.75	2556000	**104.6**	30	-	120	
175	Lu	3	2949568	0.68	2887000	**102.2**	30	-	120	
209	Bi	3	6062680	1.22	5936000	**102.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\036SMPL.D\036SMPL.D#
Date Acquired: Jun 2 2010 03:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.01	38.6	450	6	P	
23	**Na**	2	**-16.650**	ug/l	-16.65	6.6	450000	45	P	
24	**Mg**	2	**0.787**	ug/l	0.79	22.2	450000	45	P	
27	**Al**	2	**0.128**	ug/l	0.13	49.8	450000	45	P	
31	**P**	2	**-8.146**	ug/l	-8.15	33.8	450000	45	P	
39	**K**	2	**-11.990**	ug/l	-11.99	12.6	450000	45	P	
40	**Ca**	1	**0.557**	ug/l	0.56	41.8	450000	45	P	
47	**Ti**	2	**0.012**	ug/l	0.01	189.2	4500	45	P	
51	**V**	2	**-0.041**	ug/l	-0.04	78.3	4500	45	P	
52	**Cr**	2	**0.021**	ug/l	0.02	53.9	4500	45	P	
54	**Fe**	1	**0.962**	ug/l	0.96	36.1	450000	74	P	
55	**Mn**	2	**0.011**	ug/l	0.01	24.3	15000	45	P	
59	**Co**	2	**0.008**	ug/l	0.01	55.2	4500	45	P	
60	**Ni**	2	**0.061**	ug/l	0.06	109.5	15000	45	P	
63	**Cu**	2	**-0.016**	ug/l	-0.02	111.6	15000	45	P	
66	**Zn**	2	**0.116**	ug/l	0.12	22.5	15000	45	P	
75	**As**	2	**-0.044**	ug/l	-0.04	54.7	4500	74	P	
78	**Se**	1	**0.004**	ug/l	0.00	757.8	450	74	P	
88	**Sr**	3	**0.006**	ug/l	0.01	48.9	4500	74	P	
95	**Mo**	3	**0.014**	ug/l	0.01	18.5	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	140.9	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	453.9	900	103	P	
118	**Sn**	3	**0.052**	ug/l	0.05	8.0	4500	103	P	
121	**Sb**	3	**0.045**	ug/l	0.05	21.9	4500	103	P	
135	**Ba**	3	**-0.004**	ug/l	0.00	195.7	4500	103	P	
200	**Hg**	3	**-0.144**	ug/l	-0.14	22.5	45	209	P	
205	**Tl**	3	**0.362**	ug/l	0.36	7.1	4500	209	P	
208	**Pb**	3	**0.003**	ug/l	0.00	160.1	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	54.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5087366	1.18	4716000	**107.9**	30	-	120	
45	Sc	1	674763	1.30	659800	**102.3**	30	-	120	
45	Sc	2	272760	1.19	256100	**106.5**	30	-	120	
74	Ge	1	520205	2.74	495700	**104.9**	30	-	120	
74	Ge	2	392689	0.89	370200	**106.1**	30	-	120	
74	Ge	3	1481004	2.19	1354000	**109.4**	30	-	120	
103	Rh	2	733134	1.49	687700	**106.6**	30	-	120	
103	Rh	3	1334145	1.58	1280000	**104.2**	30	-	120	
165	Ho	3	2691169	0.98	2556000	**105.3**	30	-	120	
175	Lu	3	2976666	0.71	2887000	**103.1**	30	-	120	
209	Bi	3	6288898	1.10	5936000	**105.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\037SMPL.D\037SMPL.D#
Date Acquired: Jun 2 2010 03:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-17-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.155**	ug/l	1.55	8.8	450	6	P	
23	**Na**	2	**27.350**	ug/l	273.50	9.8	450000	45	P	
24	**Mg**	2	**32620.000**	ug/l	326,200.00	2.5	450000	45	A	
27	**Al**	2	**3240.000**	ug/l	32,400.00	1.7	450000	45	P	
31	**P**	2	**742.800**	ug/l	7,428.00	3.8	450000	45	P	
39	**K**	2	**515.600**	ug/l	5,156.00	1.4	450000	45	P	
40	**Ca**	1	**7972.000**	ug/l	79,720.00	0.4	450000	45	A	
47	**Ti**	2	**59.650**	ug/l	596.50	1.4	4500	45	P	
51	**V**	2	**28.990**	ug/l	289.90	0.7	4500	45	P	
52	**Cr**	2	**434.200**	ug/l	4,342.00	1.7	4500	45	A	
54	**Fe**	1	**63700.000**	ug/l	637,000.00	1.4	450000	74	A	
55	**Mn**	2	**743.900**	ug/l	7,439.00	1.7	15000	45	A	
59	**Co**	2	**118.900**	ug/l	1,189.00	1.3	4500	45	P	
60	**Ni**	2	**2074.000**	ug/l	20,740.00	2.1	15000	45	A	
63	**Cu**	2	**17.240**	ug/l	172.40	1.6	15000	45	P	
66	**Zn**	2	**106.100**	ug/l	1,061.00	0.8	15000	45	P	
75	**As**	2	**1.600**	ug/l	16.00	6.1	4500	74	P	
78	**Se**	1	**0.215**	ug/l	2.15	17.9	450	74	P	
88	**Sr**	3	**77.330**	ug/l	773.30	1.7	4500	74	P	
95	**Mo**	3	**0.598**	ug/l	5.98	4.6	4500	74	P	
107	**Ag**	3	**0.042**	ug/l	0.42	14.7	450	103	P	
111	**Cd**	3	**1.240**	ug/l	12.40	2.9	900	103	P	
118	**Sn**	3	**1.116**	ug/l	11.16	5.1	4500	103	P	
121	**Sb**	3	**0.383**	ug/l	3.83	4.5	4500	103	P	
135	**Ba**	3	**116.200**	ug/l	1,162.00	0.7	4500	103	P	
200	**Hg**	3	**48.990**	ug/l	489.90	0.8	45	209	P	Fail
205	**Tl**	3	**0.402**	ug/l	4.02	3.8	4500	209	P	
208	**Pb**	3	**29.430**	ug/l	294.30	0.5	4500	209	P	
238	**U**	3	**0.137**	ug/l	1.37	0.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4613595	1.05	4716000	**97.8**	30	-	120	
45	Sc	1	670614	1.09	659800	**101.6**	30	-	120	
45	Sc	2	259414	0.97	256100	**101.3**	30	-	120	
74	Ge	1	488629	0.86	495700	**98.6**	30	-	120	
74	Ge	2	357044	1.34	370200	**96.4**	30	-	120	
74	Ge	3	1350387	2.10	1354000	**99.7**	30	-	120	
103	Rh	2	656800	0.67	687700	**95.5**	30	-	120	
103	Rh	3	1236864	1.27	1280000	**96.6**	30	-	120	
165	Ho	3	2595511	1.38	2556000	**101.5**	30	-	120	
175	Lu	3	2893850	1.48	2887000	**100.2**	30	-	120	
209	Bi	3	5890106	0.55	5936000	**99.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\038SMPL.D\038SMPL.D#
Date Acquired: Jun 2 2010 03:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-18-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.059**	ug/l	10.59	1.6	450	6	P	
23	**Na**	2	**73.320**	ug/l	733.20	4.7	450000	45	P	
24	**Mg**	2	**57920.000**	ug/l	579,200.00	1.8	450000	45	A	
27	**Al**	2	**44410.000**	ug/l	444,100.00	1.1	450000	45	A	
31	**P**	2	**1151.000**	ug/l	11,510.00	1.0	450000	45	P	
39	**K**	2	**2377.000**	ug/l	23,770.00	2.0	450000	45	A	
40	**Ca**	1	**9079.000**	ug/l	90,790.00	0.4	450000	45	A	
47	**Ti**	2	**1106.000**	ug/l	11,060.00	1.1	4500	45	P	
51	**V**	2	**124.100**	ug/l	1,241.00	1.5	4500	45	P	
52	**Cr**	2	**449.800**	ug/l	4,498.00	0.9	4500	45	A	
54	**Fe**	1	**103200.000**	ug/l	1,032,000.00	0.6	450000	74	A	
55	**Mn**	2	**1806.000**	ug/l	18,060.00	2.1	15000	45	A	
59	**Co**	2	**67.890**	ug/l	678.90	0.6	4500	45	P	
60	**Ni**	2	**748.100**	ug/l	7,481.00	0.9	15000	45	P	
63	**Cu**	2	**109.200**	ug/l	1,092.00	0.7	15000	45	P	
66	**Zn**	2	**169.200**	ug/l	1,692.00	0.9	15000	45	P	
75	**As**	2	**28.430**	ug/l	284.30	0.5	4500	74	P	
78	**Se**	1	**0.476**	ug/l	4.76	20.4	450	74	P	
88	**Sr**	3	**73.430**	ug/l	734.30	0.9	4500	74	P	
95	**Mo**	3	**2.876**	ug/l	28.76	4.8	4500	74	P	
107	**Ag**	3	**0.263**	ug/l	2.63	12.6	450	103	P	
111	**Cd**	3	**0.514**	ug/l	5.14	10.5	900	103	P	
118	**Sn**	3	**1.497**	ug/l	14.97	3.0	4500	103	P	
121	**Sb**	3	**2.206**	ug/l	22.06	0.2	4500	103	P	
135	**Ba**	3	**342.500**	ug/l	3,425.00	0.3	4500	103	P	
200	**Hg**	3	**44.410**	ug/l	444.10	0.5	45	209	P	
205	**Tl**	3	**0.337**	ug/l	3.37	3.6	4500	209	P	
208	**Pb**	3	**34.460**	ug/l	344.60	0.9	4500	209	P	
238	**U**	3	**1.076**	ug/l	10.76	0.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4612713	0.33	4716000	**97.8**	30	-	120	
45	Sc	1	684700	3.37	659800	**103.8**	30	-	120	
45	Sc	2	265544	1.35	256100	**103.7**	30	-	120	
74	Ge	1	470194	2.11	495700	**94.9**	30	-	120	
74	Ge	2	347242	0.99	370200	**93.8**	30	-	120	
74	Ge	3	1328694	0.46	1354000	**98.1**	30	-	120	
103	Rh	2	630925	1.08	687700	**91.7**	30	-	120	
103	Rh	3	1198694	0.43	1280000	**93.6**	30	-	120	
165	Ho	3	2550874	1.58	2556000	**99.8**	30	-	120	
175	Lu	3	2835302	1.04	2887000	**98.2**	30	-	120	
209	Bi	3	5543435	1.09	5936000	**93.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\039SMPL.D\039SMPL.D#
Date Acquired: Jun 2 2010 03:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-19-E Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.691**	ug/l	6.91	3.3	450	6	P	
23	**Na**	2	**12.900**	ug/l	129.00	5.3	450000	45	P	
24	**Mg**	2	**47410.000**	ug/l	474,100.00	0.9	450000	45	A	
27	**Al**	2	**5627.000**	ug/l	56,270.00	0.1	450000	45	A	
31	**P**	2	**200.000**	ug/l	2,000.00	2.8	450000	45	P	
39	**K**	2	**271.000**	ug/l	2,710.00	0.4	450000	45	P	
40	**Ca**	1	**1057.000**	ug/l	10,570.00	1.0	450000	45	A	
47	**Ti**	2	**103.500**	ug/l	1,035.00	2.1	4500	45	P	
51	**V**	2	**58.290**	ug/l	582.90	2.3	4500	45	P	
52	**Cr**	2	**1258.000**	ug/l	12,580.00	1.2	4500	45	A	
54	**Fe**	1	**136800.000**	ug/l	1,368,000.00	0.9	450000	74	A	
55	**Mn**	2	**1994.000**	ug/l	19,940.00	1.7	15000	45	A	
59	**Co**	2	**270.300**	ug/l	2,703.00	1.2	4500	45	M	
60	**Ni**	2	**4746.000**	ug/l	47,460.00	1.7	15000	45	A	
63	**Cu**	2	**24.660**	ug/l	246.60	0.8	15000	45	P	
66	**Zn**	2	**82.960**	ug/l	829.60	0.8	15000	45	P	
75	**As**	2	**2.150**	ug/l	21.50	8.3	4500	74	P	
78	**Se**	1	**0.124**	ug/l	1.24	8.2	450	74	P	
88	**Sr**	3	**7.445**	ug/l	74.45	0.9	4500	74	P	
95	**Mo**	3	**0.233**	ug/l	2.33	1.3	4500	74	P	
107	**Ag**	3	**0.045**	ug/l	0.45	17.0	450	103	P	
111	**Cd**	3	**0.423**	ug/l	4.23	21.2	900	103	P	
118	**Sn**	3	**0.818**	ug/l	8.18	9.6	4500	103	P	
121	**Sb**	3	**0.445**	ug/l	4.45	5.3	4500	103	P	
135	**Ba**	3	**172.300**	ug/l	1,723.00	0.5	4500	103	P	
200	**Hg**	3	**29.560**	ug/l	295.60	2.0	45	209	P	
205	**Tl**	3	**0.506**	ug/l	5.06	1.3	4500	209	P	
208	**Pb**	3	**53.650**	ug/l	536.50	1.1	4500	209	P	
238	**U**	3	**0.191**	ug/l	1.91	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4342372	1.67	4716000	**92.1**	30	-	120	
45	Sc	1	677028	2.83	659800	**102.6**	30	-	120	
45	Sc	2	270746	0.34	256100	**105.7**	30	-	120	
74	Ge	1	460160	1.14	495700	**92.8**	30	-	120	
74	Ge	2	350580	1.42	370200	**94.7**	30	-	120	
74	Ge	3	1362116	0.75	1354000	**100.6**	30	-	120	
103	Rh	2	636176	1.00	687700	**92.5**	30	-	120	
103	Rh	3	1230431	0.23	1280000	**96.1**	30	-	120	
165	Ho	3	2615760	1.58	2556000	**102.3**	30	-	120	
175	Lu	3	2914926	0.93	2887000	**101.0**	30	-	120	
209	Bi	3	5742423	0.88	5936000	**96.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\040SMPL.D\040SMPL.D#
Date Acquired: Jun 2 2010 03:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-20-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.359**	ug/l	3.59	1.8	450	6	P	
23	**Na**	2	**66.310**	ug/l	663.10	1.0	450000	45	P	
24	**Mg**	2	**36800.000**	ug/l	368,000.00	0.4	450000	45	A	
27	**Al**	2	**23450.000**	ug/l	234,500.00	0.8	450000	45	A	
31	**P**	2	**793.400**	ug/l	7,934.00	3.9	450000	45	P	
39	**K**	2	**1302.000**	ug/l	13,020.00	1.0	450000	45	P	
40	**Ca**	1	**7974.000**	ug/l	79,740.00	1.6	450000	45	A	
47	**Ti**	2	**1895.000**	ug/l	18,950.00	0.5	4500	45	P	
51	**V**	2	**76.800**	ug/l	768.00	0.9	4500	45	P	
52	**Cr**	2	**402.400**	ug/l	4,024.00	0.4	4500	45	A	
54	**Fe**	1	**70780.000**	ug/l	707,800.00	1.3	450000	74	A	
55	**Mn**	2	**1493.000**	ug/l	14,930.00	1.0	15000	45	A	
59	**Co**	2	**37.740**	ug/l	377.40	1.1	4500	45	P	
60	**Ni**	2	**478.700**	ug/l	4,787.00	0.6	15000	45	P	
63	**Cu**	2	**42.430**	ug/l	424.30	2.1	15000	45	P	
66	**Zn**	2	**77.950**	ug/l	779.50	1.9	15000	45	P	
75	**As**	2	**9.507**	ug/l	95.07	1.8	4500	74	P	
78	**Se**	1	**0.203**	ug/l	2.03	30.7	450	74	P	
88	**Sr**	3	**28.930**	ug/l	289.30	0.8	4500	74	P	
95	**Mo**	3	**1.147**	ug/l	11.47	4.3	4500	74	P	
107	**Ag**	3	**0.168**	ug/l	1.68	4.0	450	103	P	
111	**Cd**	3	**0.167**	ug/l	1.67	8.2	900	103	P	
118	**Sn**	3	**0.895**	ug/l	8.95	8.0	4500	103	P	
121	**Sb**	3	**0.662**	ug/l	6.62	2.7	4500	103	P	
135	**Ba**	3	**229.800**	ug/l	2,298.00	1.3	4500	103	P	
200	**Hg**	3	**136.700**	ug/l	1,367.00	0.9	45	209	P	Fail
205	**Tl**	3	**18.100**	ug/l	181.00	1.5	4500	209	P	
208	**Pb**	3	**16.020**	ug/l	160.20	1.3	4500	209	P	
238	**U**	3	**0.300**	ug/l	3.00	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4703894	0.97	4716000	**99.7**	30	-	120	
45	Sc	1	651514	1.83	659800	**98.7**	30	-	120	
45	Sc	2	263928	0.64	256100	**103.1**	30	-	120	
74	Ge	1	465343	0.22	495700	**93.9**	30	-	120	
74	Ge	2	353694	1.06	370200	**95.5**	30	-	120	
74	Ge	3	1386091	0.54	1354000	**102.4**	30	-	120	
103	Rh	2	643340	0.56	687700	**93.5**	30	-	120	
103	Rh	3	1235815	1.84	1280000	**96.5**	30	-	120	
165	Ho	3	2648491	0.94	2556000	**103.6**	30	-	120	
175	Lu	3	2958893	1.82	2887000	**102.5**	30	-	120	
209	Bi	3	5724949	0.71	5936000	**96.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\041SMPL.D\041SMPL.D#
Date Acquired: Jun 2 2010 03:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-21-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.737**	ug/l	7.37	2.8	450	6	P	
23	**Na**	2	**99.740**	ug/l	997.40	1.5	450000	45	P	
24	**Mg**	2	**82050.000**	ug/l	820,500.00	0.9	450000	45	A	
27	**Al**	2	**33090.000**	ug/l	330,900.00	1.3	450000	45	A	
31	**P**	2	**820.100**	ug/l	8,201.00	2.5	450000	45	P	
39	**K**	2	**1431.000**	ug/l	14,310.00	0.9	450000	45	P	
40	**Ca**	1	**9364.000**	ug/l	93,640.00	1.1	450000	45	A	
47	**Ti**	2	**2048.000**	ug/l	20,480.00	1.0	4500	45	P	
51	**V**	2	**101.400**	ug/l	1,014.00	1.0	4500	45	P	
52	**Cr**	2	**605.000**	ug/l	6,050.00	0.5	4500	45	A	
54	**Fe**	1	**93630.000**	ug/l	936,300.00	0.8	450000	74	A	
55	**Mn**	2	**1270.000**	ug/l	12,700.00	0.8	15000	45	A	
59	**Co**	2	**97.920**	ug/l	979.20	1.0	4500	45	P	
60	**Ni**	2	**1161.000**	ug/l	11,610.00	1.5	15000	45	A	
63	**Cu**	2	**52.430**	ug/l	524.30	1.5	15000	45	P	
66	**Zn**	2	**340.100**	ug/l	3,401.00	1.3	15000	45	P	
75	**As**	2	**12.120**	ug/l	121.20	1.7	4500	74	P	
78	**Se**	1	**0.240**	ug/l	2.40	29.5	450	74	P	
88	**Sr**	3	**33.770**	ug/l	337.70	1.9	4500	74	P	
95	**Mo**	3	**1.363**	ug/l	13.63	1.8	4500	74	P	
107	**Ag**	3	**0.180**	ug/l	1.80	15.7	450	103	P	
111	**Cd**	3	**0.467**	ug/l	4.67	13.2	900	103	P	
118	**Sn**	3	**2.702**	ug/l	27.02	3.2	4500	103	P	
121	**Sb**	3	**0.765**	ug/l	7.65	4.9	4500	103	P	
135	**Ba**	3	**267.300**	ug/l	2,673.00	0.9	4500	103	P	
200	**Hg**	3	**266.400**	ug/l	2,664.00	0.5	45	209	P	Fail
205	**Tl**	3	**3.129**	ug/l	31.29	1.7	4500	209	P	
208	**Pb**	3	**32.010**	ug/l	320.10	1.2	4500	209	P	
238	**U**	3	**0.491**	ug/l	4.91	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4587008	1.64	4716000	**97.3**	30	-	120	
45	Sc	1	657775	2.18	659800	**99.7**	30	-	120	
45	Sc	2	267194	1.18	256100	**104.3**	30	-	120	
74	Ge	1	451054	1.62	495700	**91.0**	30	-	120	
74	Ge	2	342776	0.62	370200	**92.6**	30	-	120	
74	Ge	3	1321294	0.96	1354000	**97.6**	30	-	120	
103	Rh	2	625781	0.93	687700	**91.0**	30	-	120	
103	Rh	3	1176491	0.37	1280000	**91.9**	30	-	120	
165	Ho	3	2540086	0.66	2556000	**99.4**	30	-	120	
175	Lu	3	2826124	0.47	2887000	**97.9**	30	-	120	
209	Bi	3	5468121	1.03	5936000	**92.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\042SMPL.D\042SMPL.D#
Date Acquired: Jun 2 2010 03:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-22-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.468**	ug/l	4.68	2.5	450	6	P	
23	**Na**	2	**114.600**	ug/l	1,146.00	1.4	450000	45	P	
24	**Mg**	2	**57720.000**	ug/l	577,200.00	0.4	450000	45	A	
27	**Al**	2	**33700.000**	ug/l	337,000.00	1.1	450000	45	A	
31	**P**	2	**754.300**	ug/l	7,543.00	2.6	450000	45	P	
39	**K**	2	**1626.000**	ug/l	16,260.00	0.3	450000	45	P	
40	**Ca**	1	**7411.000**	ug/l	74,110.00	0.6	450000	45	A	
47	**Ti**	2	**5226.000**	ug/l	52,260.00	0.4	4500	45	P	Fail
51	**V**	2	**140.000**	ug/l	1,400.00	0.8	4500	45	P	
52	**Cr**	2	**527.300**	ug/l	5,273.00	0.5	4500	45	A	
54	**Fe**	1	**129200.000**	ug/l	1,292,000.00	1.8	450000	74	A	
55	**Mn**	2	**932.900**	ug/l	9,329.00	1.6	15000	45	A	
59	**Co**	2	**34.320**	ug/l	343.20	0.9	4500	45	P	
60	**Ni**	2	**611.200**	ug/l	6,112.00	0.6	15000	45	P	
63	**Cu**	2	**68.350**	ug/l	683.50	1.0	15000	45	P	
66	**Zn**	2	**114.300**	ug/l	1,143.00	1.7	15000	45	P	
75	**As**	2	**16.100**	ug/l	161.00	1.4	4500	74	P	
78	**Se**	1	**0.419**	ug/l	4.19	14.5	450	74	P	
88	**Sr**	3	**24.720**	ug/l	247.20	5.0	4500	74	P	
95	**Mo**	3	**2.256**	ug/l	22.56	9.5	4500	74	P	
107	**Ag**	3	**0.248**	ug/l	2.48	2.3	450	103	P	
111	**Cd**	3	**0.236**	ug/l	2.36	36.6	900	103	P	
118	**Sn**	3	**1.275**	ug/l	12.75	8.0	4500	103	P	
121	**Sb**	3	**1.323**	ug/l	13.23	5.1	4500	103	P	
135	**Ba**	3	**265.500**	ug/l	2,655.00	4.3	4500	103	P	
200	**Hg**	3	**30.210**	ug/l	302.10	4.1	45	209	P	
205	**Tl**	3	**1.532**	ug/l	15.32	6.5	4500	209	P	
208	**Pb**	3	**19.390**	ug/l	193.90	4.4	4500	209	P	
238	**U**	3	**0.282**	ug/l	2.82	7.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4664618	1.26	4716000	**98.9**	30	-	120	
45	Sc	1	661702	1.24	659800	**100.3**	30	-	120	
45	Sc	2	264556	1.22	256100	**103.3**	30	-	120	
74	Ge	1	463941	1.55	495700	**93.6**	30	-	120	
74	Ge	2	352217	1.09	370200	**95.1**	30	-	120	
74	Ge	3	1396936	0.30	1354000	**103.2**	30	-	120	
103	Rh	2	640183	0.86	687700	**93.1**	30	-	120	
103	Rh	3	1255559	0.75	1280000	**98.1**	30	-	120	
165	Ho	3	2615133	0.37	2556000	**102.3**	30	-	120	
175	Lu	3	2891420	1.09	2887000	**100.2**	30	-	120	
209	Bi	3	5611618	0.89	5936000	**94.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\043SMPL.D\043SMPL.D#
Date Acquired: Jun 2 2010 04:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-23-A Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.02	95.4	450	6	P	
23	**Na**	2	**-11.810**	ug/l	-118.10	11.2	450000	45	P	
24	**Mg**	2	**604.500**	ug/l	6,045.00	1.4	450000	45	P	
27	**Al**	2	**662.700**	ug/l	6,627.00	0.0	450000	45	P	
31	**P**	2	**15.100**	ug/l	151.00	19.3	450000	45	P	
39	**K**	2	**23.060**	ug/l	230.60	10.5	450000	45	P	
40	**Ca**	1	**59.330**	ug/l	593.30	1.9	450000	45	P	
47	**Ti**	2	**44.240**	ug/l	442.40	2.9	4500	45	P	
51	**V**	2	**6.840**	ug/l	68.40	3.3	4500	45	P	
52	**Cr**	2	**128.400**	ug/l	1,284.00	3.0	4500	45	P	
54	**Fe**	1	**5553.000**	ug/l	55,530.00	0.4	450000	74	P	
55	**Mn**	2	**8.451**	ug/l	84.51	2.7	15000	45	P	
59	**Co**	2	**0.926**	ug/l	9.26	0.4	4500	45	P	
60	**Ni**	2	**11.370**	ug/l	113.70	2.2	15000	45	P	
63	**Cu**	2	**1.777**	ug/l	17.77	3.0	15000	45	P	
66	**Zn**	2	**4.785**	ug/l	47.85	9.8	15000	45	P	
75	**As**	2	**0.256**	ug/l	2.56	16.8	4500	74	P	
78	**Se**	1	**0.045**	ug/l	0.45	36.7	450	74	P	
88	**Sr**	3	**0.442**	ug/l	4.42	22.8	4500	74	P	
95	**Mo**	3	**0.078**	ug/l	0.78	29.2	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.14	42.0	450	103	P	
111	**Cd**	3	**-0.026**	ug/l	-0.26	90.7	900	103	P	
118	**Sn**	3	**0.161**	ug/l	1.61	11.1	4500	103	P	
121	**Sb**	3	**0.070**	ug/l	0.70	8.0	4500	103	P	
135	**Ba**	3	**5.659**	ug/l	56.59	0.4	4500	103	P	
200	**Hg**	3	**251.000**	ug/l	2,510.00	4.8	45	209	P	Fail
205	**Tl**	3	**0.614**	ug/l	6.14	9.1	4500	209	P	
208	**Pb**	3	**0.541**	ug/l	5.41	5.3	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.05	15.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5037818	0.63	4716000	**106.8**	30	-	120	
45	Sc	1	638499	1.72	659800	**96.8**	30	-	120	
45	Sc	2	267154	0.60	256100	**104.3**	30	-	120	
74	Ge	1	481949	1.09	495700	**97.2**	30	-	120	
74	Ge	2	379724	1.37	370200	**102.6**	30	-	120	
74	Ge	3	1471554	0.68	1354000	**108.7**	30	-	120	
103	Rh	2	711301	0.63	687700	**103.4**	30	-	120	
103	Rh	3	1345751	1.29	1280000	**105.1**	30	-	120	
165	Ho	3	2700489	0.55	2556000	**105.7**	30	-	120	
175	Lu	3	3002527	0.70	2887000	**104.0**	30	-	120	
209	Bi	3	6231668	0.69	5936000	**105.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\044SMPL.D\044SMPL.D#
Date Acquired: Jun 2 2010 04:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-24-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.13	28.5	450	6	P	
23	**Na**	2	**2.535**	ug/l	25.35	29.0	450000	45	P	
24	**Mg**	2	**4199.000**	ug/l	41,990.00	1.1	450000	45	A	
27	**Al**	2	**3042.000**	ug/l	30,420.00	0.9	450000	45	P	
31	**P**	2	**35.810**	ug/l	358.10	24.8	450000	45	P	
39	**K**	2	**70.180**	ug/l	701.80	3.7	450000	45	P	
40	**Ca**	1	**103.500**	ug/l	1,035.00	1.6	450000	45	P	
47	**Ti**	2	**25.330**	ug/l	253.30	9.0	4500	45	P	
51	**V**	2	**12.110**	ug/l	121.10	2.8	4500	45	P	
52	**Cr**	2	**238.800**	ug/l	2,388.00	1.2	4500	45	P	
54	**Fe**	1	**30610.000**	ug/l	306,100.00	1.3	450000	74	A	
55	**Mn**	2	**28.710**	ug/l	287.10	1.3	15000	45	P	
59	**Co**	2	**8.525**	ug/l	85.25	1.6	4500	45	P	
60	**Ni**	2	**114.100**	ug/l	1,141.00	1.8	15000	45	P	
63	**Cu**	2	**9.230**	ug/l	92.30	3.0	15000	45	P	
66	**Zn**	2	**12.830**	ug/l	128.30	2.9	15000	45	P	
75	**As**	2	**1.370**	ug/l	13.70	5.0	4500	74	P	
78	**Se**	1	**0.083**	ug/l	0.83	22.5	450	74	P	
88	**Sr**	3	**2.066**	ug/l	20.66	5.8	4500	74	P	
95	**Mo**	3	**0.277**	ug/l	2.77	21.3	4500	74	P	
107	**Ag**	3	**0.037**	ug/l	0.37	29.0	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.03	693.0	900	103	P	
118	**Sn**	3	**0.714**	ug/l	7.14	3.3	4500	103	P	
121	**Sb**	3	**0.162**	ug/l	1.62	7.1	4500	103	P	
135	**Ba**	3	**41.610**	ug/l	416.10	3.4	4500	103	P	
200	**Hg**	3	**1417.000**	ug/l	14,170.00	0.3	45	209	A	Fail
205	**Tl**	3	**1.645**	ug/l	16.45	3.8	4500	209	P	
208	**Pb**	3	**5.792**	ug/l	57.92	1.5	4500	209	P	
238	**U**	3	**0.070**	ug/l	0.70	6.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4955256	1.44	4716000	**105.1**	30	-	120	
45	Sc	1	647315	0.47	659800	**98.1**	30	-	120	
45	Sc	2	263020	0.52	256100	**102.7**	30	-	120	
74	Ge	1	484904	0.87	495700	**97.8**	30	-	120	
74	Ge	2	372224	1.46	370200	**100.5**	30	-	120	
74	Ge	3	1406632	1.10	1354000	**103.9**	30	-	120	
103	Rh	2	690668	1.72	687700	**100.4**	30	-	120	
103	Rh	3	1282559	2.02	1280000	**100.2**	30	-	120	
165	Ho	3	2628383	0.68	2556000	**102.8**	30	-	120	
175	Lu	3	2907445	0.54	2887000	**100.7**	30	-	120	
209	Bi	3	5938454	0.59	5936000	**100.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\045SMPL.D\045SMPL.D#
Date Acquired: Jun 2 2010 04:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-25-B Vial Number: 2209
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.563**	ug/l	5.63	3.0	450	6	P	
23	**Na**	2	**20.070**	ug/l	200.70	8.3	450000	45	P	
24	**Mg**	2	**111300.000**	ug/l	1,113,000.00	1.8	450000	45	A	
27	**Al**	2	**13490.000**	ug/l	134,900.00	1.0	450000	45	A	
31	**P**	2	**740.900**	ug/l	7,409.00	5.2	450000	45	P	
39	**K**	2	**1795.000**	ug/l	17,950.00	0.7	450000	45	P	
40	**Ca**	1	**3633.000**	ug/l	36,330.00	1.1	450000	45	A	
47	**Ti**	2	**174.600**	ug/l	1,746.00	0.7	4500	45	P	
51	**V**	2	**58.840**	ug/l	588.40	0.8	4500	45	P	
52	**Cr**	2	**1015.000**	ug/l	10,150.00	1.2	4500	45	A	
54	**Fe**	1	**82210.000**	ug/l	822,100.00	1.6	450000	74	A	
55	**Mn**	2	**1363.000**	ug/l	13,630.00	1.4	15000	45	A	
59	**Co**	2	**130.400**	ug/l	1,304.00	0.8	4500	45	P	
60	**Ni**	2	**2132.000**	ug/l	21,320.00	1.1	15000	45	A	
63	**Cu**	2	**35.970**	ug/l	359.70	1.5	15000	45	P	
66	**Zn**	2	**117.400**	ug/l	1,174.00	1.1	15000	45	P	
75	**As**	2	**7.927**	ug/l	79.27	2.2	4500	74	P	
78	**Se**	1	**0.223**	ug/l	2.23	44.8	450	74	P	
88	**Sr**	3	**39.190**	ug/l	391.90	0.9	4500	74	P	
95	**Mo**	3	**0.500**	ug/l	5.00	5.4	4500	74	P	
107	**Ag**	3	**0.121**	ug/l	1.21	1.8	450	103	P	
111	**Cd**	3	**0.322**	ug/l	3.22	18.6	900	103	P	
118	**Sn**	3	**0.975**	ug/l	9.75	5.8	4500	103	P	
121	**Sb**	3	**0.460**	ug/l	4.60	11.5	4500	103	P	
135	**Ba**	3	**204.500**	ug/l	2,045.00	2.2	4500	103	P	
200	**Hg**	3	**349.800**	ug/l	3,498.00	1.7	45	209	P	Fail
205	**Tl**	3	**0.223**	ug/l	2.23	2.4	4500	209	P	
208	**Pb**	3	**26.400**	ug/l	264.00	1.4	4500	209	P	
238	**U**	3	**0.445**	ug/l	4.45	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4649612	0.87	4716000	**98.6**	30	-	120	
45	Sc	1	654266	1.21	659800	**99.2**	30	-	120	
45	Sc	2	265760	0.61	256100	**103.8**	30	-	120	
74	Ge	1	450531	0.69	495700	**90.9**	30	-	120	
74	Ge	2	343602	0.46	370200	**92.8**	30	-	120	
74	Ge	3	1338672	1.19	1354000	**98.9**	30	-	120	
103	Rh	2	622380	0.80	687700	**90.5**	30	-	120	
103	Rh	3	1183732	0.39	1280000	**92.5**	30	-	120	
165	Ho	3	2541951	0.77	2556000	**99.5**	30	-	120	
175	Lu	3	2812249	1.41	2887000	**97.4**	30	-	120	
209	Bi	3	5449795	1.11	5936000	**91.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\047SMPL.D\047SMPL.D#
Date Acquired: Jun 2 2010 04:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.400**	ug/l	48.40	5.9	450	6	P	
23	**Na**	2	**4930.000**	ug/l	4,930.00	1.6	450000	45	A	
24	**Mg**	2	**4937.000**	ug/l	4,937.00	1.2	450000	45	A	
27	**Al**	2	**487.100**	ug/l	487.10	1.1	450000	45	P	
31	**P**	2	**4853.000**	ug/l	4,853.00	1.2	450000	45	P	
39	**K**	2	**4921.000**	ug/l	4,921.00	1.2	450000	45	A	
40	**Ca**	1	**5143.000**	ug/l	5,143.00	0.4	450000	45	A	
47	**Ti**	2	**49.020**	ug/l	49.02	1.0	4500	45	P	
51	**V**	2	**49.500**	ug/l	49.50	1.8	4500	45	P	
52	**Cr**	2	**49.960**	ug/l	49.96	1.7	4500	45	P	
54	**Fe**	1	**5162.000**	ug/l	5,162.00	0.3	450000	74	P	
55	**Mn**	2	**49.870**	ug/l	49.87	0.9	15000	45	P	
59	**Co**	2	**50.250**	ug/l	50.25	1.3	4500	45	P	
60	**Ni**	2	**50.760**	ug/l	50.76	1.8	15000	45	P	
63	**Cu**	2	**50.320**	ug/l	50.32	2.0	15000	45	P	
66	**Zn**	2	**50.380**	ug/l	50.38	1.3	15000	45	P	
75	**As**	2	**50.010**	ug/l	50.01	1.4	4500	74	P	
78	**Se**	1	**49.250**	ug/l	49.25	2.2	450	74	P	
88	**Sr**	3	**50.470**	ug/l	50.47	3.8	4500	74	P	
95	**Mo**	3	**50.110**	ug/l	50.11	4.6	4500	74	P	
107	**Ag**	3	**50.420**	ug/l	50.42	3.0	450	103	P	
111	**Cd**	3	**50.490**	ug/l	50.49	2.7	900	103	P	
118	**Sn**	3	**50.040**	ug/l	50.04	3.9	4500	103	P	
121	**Sb**	3	**49.530**	ug/l	49.53	3.4	4500	103	P	
135	**Ba**	3	**50.030**	ug/l	50.03	4.1	4500	103	P	
200	**Hg**	3	**4.378**	ug/l	4.38	3.2	45	209	P	
205	**Tl**	3	**49.810**	ug/l	49.81	6.4	4500	209	P	
208	**Pb**	3	**49.880**	ug/l	49.88	4.2	4500	209	P	
238	**U**	3	**49.380**	ug/l	49.38	5.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5273182	1.71	4716000	**111.8**	30	-	120	
45	Sc	1	642473	1.12	659800	**97.4**	30	-	120	
45	Sc	2	261199	1.31	256100	**102.0**	30	-	120	
74	Ge	1	489608	0.91	495700	**98.8**	30	-	120	
74	Ge	2	372018	1.27	370200	**100.5**	30	-	120	
74	Ge	3	1443111	1.10	1354000	**106.6**	30	-	120	
103	Rh	2	683418	2.13	687700	**99.4**	30	-	120	
103	Rh	3	1295714	2.24	1280000	**101.2**	30	-	120	
165	Ho	3	2701962	2.28	2556000	**105.7**	30	-	120	
175	Lu	3	2988732	1.90	2887000	**103.5**	30	-	120	
209	Bi	3	6056379	1.04	5936000	**102.0**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\048SMPL.D\048SMPL.D#
Date Acquired: Jun 2 2010 04:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.00	64.4	450	6	P	
23	**Na**	2	**-23.580**	ug/l	-23.58	1.6	450000	45	P	
24	**Mg**	2	**1.303**	ug/l	1.30	35.4	450000	45	P	
27	**Al**	2	**0.035**	ug/l	0.04	202.8	450000	45	P	
31	**P**	2	**-10.860**	ug/l	-10.86	11.3	450000	45	P	
39	**K**	2	**-16.500**	ug/l	-16.50	11.8	450000	45	P	
40	**Ca**	1	**0.375**	ug/l	0.37	95.0	450000	45	P	
47	**Ti**	2	**0.015**	ug/l	0.02	29.9	4500	45	P	
51	**V**	2	**-0.014**	ug/l	-0.01	429.6	4500	45	P	
52	**Cr**	2	**-0.027**	ug/l	-0.03	128.4	4500	45	P	
54	**Fe**	1	**1.004**	ug/l	1.00	83.4	450000	74	P	
55	**Mn**	2	**0.019**	ug/l	0.02	70.3	15000	45	P	
59	**Co**	2	**0.009**	ug/l	0.01	83.2	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	155.2	15000	45	P	
63	**Cu**	2	**0.000**	ug/l	0.00	2714.3	15000	45	P	
66	**Zn**	2	**0.001**	ug/l	0.00	5919.8	15000	45	P	
75	**As**	2	**-0.037**	ug/l	-0.04	49.2	4500	74	P	
78	**Se**	1	**0.005**	ug/l	0.01	455.9	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.00	81.5	4500	74	P	
95	**Mo**	3	**0.006**	ug/l	0.01	36.0	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	25.4	450	103	P	
111	**Cd**	3	**0.016**	ug/l	0.02	222.4	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	16.5	4500	103	P	
121	**Sb**	3	**0.012**	ug/l	0.01	24.7	4500	103	P	
135	**Ba**	3	**-0.002**	ug/l	0.00	255.7	4500	103	P	
200	**Hg**	3	**1.113**	ug/l	1.11	3.9	45	209	P	
205	**Tl**	3	**0.199**	ug/l	0.20	3.5	4500	209	P	
208	**Pb**	3	**0.005**	ug/l	0.01	72.5	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	40.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5248765	0.48	4716000	**111.3**	30	-	120	
45	Sc	1	650541	0.59	659800	**98.6**	30	-	120	
45	Sc	2	266930	0.41	256100	**104.2**	30	-	120	
74	Ge	1	496587	0.55	495700	**100.2**	30	-	120	
74	Ge	2	393606	0.39	370200	**106.3**	30	-	120	
74	Ge	3	1494929	0.24	1354000	**110.4**	30	-	120	
103	Rh	2	733624	0.50	687700	**106.7**	30	-	120	
103	Rh	3	1362400	0.17	1280000	**106.4**	30	-	120	
165	Ho	3	2724995	1.35	2556000	**106.6**	30	-	120	
175	Lu	3	3064387	1.11	2887000	**106.1**	30	-	120	
209	Bi	3	6378970	0.60	5936000	**107.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\049SMPL.D\049SMPL.D#
Date Acquired: Jun 2 2010 04:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-26-A Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.886**	ug/l	8.86	4.6	450	6	P	
23	**Na**	2	**46.590**	ug/l	465.90	13.8	450000	45	P	
24	**Mg**	2	**92260.000**	ug/l	922,600.00	0.5	450000	45	A	
27	**Al**	2	**35090.000**	ug/l	350,900.00	0.7	450000	45	A	
31	**P**	2	**868.900**	ug/l	8,689.00	4.2	450000	45	P	
39	**K**	2	**1869.000**	ug/l	18,690.00	2.2	450000	45	M	
40	**Ca**	1	**9795.000**	ug/l	97,950.00	0.3	450000	45	A	
47	**Ti**	2	**1325.000**	ug/l	13,250.00	1.0	4500	45	P	
51	**V**	2	**106.400**	ug/l	1,064.00	1.4	4500	45	P	
52	**Cr**	2	**780.200**	ug/l	7,802.00	1.5	4500	45	A	
54	**Fe**	1	**76890.000**	ug/l	768,900.00	0.3	450000	74	A	
55	**Mn**	2	**1220.000**	ug/l	12,200.00	1.2	15000	45	A	
59	**Co**	2	**74.350**	ug/l	743.50	0.9	4500	45	P	
60	**Ni**	2	**995.600**	ug/l	9,956.00	0.6	15000	45	P	
63	**Cu**	2	**67.420**	ug/l	674.20	1.8	15000	45	P	
66	**Zn**	2	**880.200**	ug/l	8,802.00	1.9	15000	45	P	
75	**As**	2	**11.720**	ug/l	117.20	1.5	4500	74	P	
78	**Se**	1	**0.279**	ug/l	2.79	13.5	450	74	P	
88	**Sr**	3	**63.180**	ug/l	631.80	1.4	4500	74	P	
95	**Mo**	3	**1.258**	ug/l	12.58	9.1	4500	74	P	
107	**Ag**	3	**0.155**	ug/l	1.55	12.4	450	103	P	
111	**Cd**	3	**1.407**	ug/l	14.07	4.4	900	103	P	
118	**Sn**	3	**13.620**	ug/l	136.20	1.6	4500	103	P	
121	**Sb**	3	**3.668**	ug/l	36.68	2.3	4500	103	P	
135	**Ba**	3	**298.500**	ug/l	2,985.00	0.9	4500	103	P	
200	**Hg**	3	**87.050**	ug/l	870.50	0.8	45	209	P	Fail
205	**Tl**	3	**0.248**	ug/l	2.48	2.0	4500	209	P	
208	**Pb**	3	**87.600**	ug/l	876.00	1.6	4500	209	P	
238	**U**	3	**0.399**	ug/l	3.99	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4753456	1.55	4716000	**100.8**	30	-	120	
45	Sc	1	669409	1.31	659800	**101.5**	30	-	120	
45	Sc	2	273081	1.06	256100	**106.6**	30	-	120	
74	Ge	1	464230	1.11	495700	**93.7**	30	-	120	
74	Ge	2	352984	1.47	370200	**95.3**	30	-	120	
74	Ge	3	1370936	1.02	1354000	**101.3**	30	-	120	
103	Rh	2	634108	0.88	687700	**92.2**	30	-	120	
103	Rh	3	1222585	0.59	1280000	**95.5**	30	-	120	
165	Ho	3	2587955	0.51	2556000	**101.3**	30	-	120	
175	Lu	3	2868895	0.77	2887000	**99.4**	30	-	120	
209	Bi	3	5562738	1.21	5936000	**93.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\050SMPL.D\050SMPL.D#
Date Acquired: Jun 2 2010 04:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-27-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.757**	ug/l	7.57	6.8	450	6	P	
23	**Na**	2	**37.140**	ug/l	371.40	2.7	450000	45	P	
24	**Mg**	2	**187500.000**	ug/l	1,875,000.00	1.1	450000	45	A	
27	**Al**	2	**37090.000**	ug/l	370,900.00	0.7	450000	45	A	
31	**P**	2	**679.800**	ug/l	6,798.00	4.0	450000	45	P	
39	**K**	2	**1504.000**	ug/l	15,040.00	0.4	450000	45	P	
40	**Ca**	1	**25420.000**	ug/l	254,200.00	0.7	450000	45	A	
47	**Ti**	2	**1208.000**	ug/l	12,080.00	0.1	4500	45	P	
51	**V**	2	**105.900**	ug/l	1,059.00	0.9	4500	45	P	
52	**Cr**	2	**931.400**	ug/l	9,314.00	1.3	4500	45	A	
54	**Fe**	1	**86720.000**	ug/l	867,200.00	0.7	450000	74	A	
55	**Mn**	2	**1345.000**	ug/l	13,450.00	0.2	15000	45	A	
59	**Co**	2	**103.700**	ug/l	1,037.00	0.4	4500	45	P	
60	**Ni**	2	**1661.000**	ug/l	16,610.00	1.1	15000	45	A	
63	**Cu**	2	**67.180**	ug/l	671.80	0.1	15000	45	P	
66	**Zn**	2	**115.800**	ug/l	1,158.00	1.3	15000	45	P	
75	**As**	2	**10.190**	ug/l	101.90	2.7	4500	74	P	
78	**Se**	1	**0.119**	ug/l	1.19	32.2	450	74	P	
88	**Sr**	3	**47.320**	ug/l	473.20	3.9	4500	74	P	
95	**Mo**	3	**0.675**	ug/l	6.75	7.9	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	1.36	14.1	450	103	P	
111	**Cd**	3	**0.258**	ug/l	2.58	18.1	900	103	P	
118	**Sn**	3	**0.825**	ug/l	8.25	7.2	4500	103	P	
121	**Sb**	3	**0.524**	ug/l	5.24	5.3	4500	103	P	
135	**Ba**	3	**211.400**	ug/l	2,114.00	3.8	4500	103	P	
200	**Hg**	3	**9.272**	ug/l	92.72	3.6	45	209	P	
205	**Tl**	3	**0.209**	ug/l	2.09	4.3	4500	209	P	
208	**Pb**	3	**14.050**	ug/l	140.50	4.1	4500	209	P	
238	**U**	3	**0.318**	ug/l	3.18	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4617066	0.36	4716000	**97.9**	30	-	120	
45	Sc	1	648701	1.67	659800	**98.3**	30	-	120	
45	Sc	2	261060	1.21	256100	**101.9**	30	-	120	
74	Ge	1	438647	0.51	495700	**88.5**	30	-	120	
74	Ge	2	341406	1.18	370200	**92.2**	30	-	120	
74	Ge	3	1336937	1.58	1354000	**98.7**	30	-	120	
103	Rh	2	612944	1.33	687700	**89.1**	30	-	120	
103	Rh	3	1188815	0.28	1280000	**92.9**	30	-	120	
165	Ho	3	2508951	1.28	2556000	**98.2**	30	-	120	
175	Lu	3	2762444	1.60	2887000	**95.7**	30	-	120	
209	Bi	3	5290268	1.68	5936000	**89.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\051SMPL.D\051SMPL.D#
Date Acquired: Jun 2 2010 05:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-28-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.185**	ug/l	11.85	1.3	450	6	P	
23	**Na**	2	**49.390**	ug/l	493.90	3.3	450000	45	P	
24	**Mg**	2	**58560.000**	ug/l	585,600.00	1.3	450000	45	A	
27	**Al**	2	**43420.000**	ug/l	434,200.00	1.5	450000	45	A	
31	**P**	2	**1410.000**	ug/l	14,100.00	1.9	450000	45	P	
39	**K**	2	**2690.000**	ug/l	26,900.00	1.2	450000	45	A	
40	**Ca**	1	**9541.000**	ug/l	95,410.00	0.6	450000	45	A	
47	**Ti**	2	**1102.000**	ug/l	11,020.00	1.7	4500	45	P	
51	**V**	2	**113.600**	ug/l	1,136.00	2.4	4500	45	P	
52	**Cr**	2	**387.300**	ug/l	3,873.00	1.6	4500	45	A	
54	**Fe**	1	**80680.000**	ug/l	806,800.00	1.2	450000	74	A	
55	**Mn**	2	**1259.000**	ug/l	12,590.00	2.8	15000	45	A	
59	**Co**	2	**52.110**	ug/l	521.10	1.6	4500	45	P	
60	**Ni**	2	**515.400**	ug/l	5,154.00	2.5	15000	45	P	
63	**Cu**	2	**88.430**	ug/l	884.30	2.5	15000	45	P	
66	**Zn**	2	**166.700**	ug/l	1,667.00	1.3	15000	45	P	
75	**As**	2	**19.740**	ug/l	197.40	0.7	4500	74	P	
78	**Se**	1	**0.322**	ug/l	3.22	27.7	450	74	P	
88	**Sr**	3	**75.310**	ug/l	753.10	2.0	4500	74	P	
95	**Mo**	3	**1.938**	ug/l	19.38	4.8	4500	74	P	
107	**Ag**	3	**0.189**	ug/l	1.89	8.0	450	103	P	
111	**Cd**	3	**0.388**	ug/l	3.88	7.8	900	103	P	
118	**Sn**	3	**0.894**	ug/l	8.94	1.6	4500	103	P	
121	**Sb**	3	**1.092**	ug/l	10.92	3.5	4500	103	P	
135	**Ba**	3	**296.300**	ug/l	2,963.00	0.8	4500	103	P	
200	**Hg**	3	**1.860**	ug/l	18.60	5.0	45	209	P	
205	**Tl**	3	**0.224**	ug/l	2.24	1.1	4500	209	P	
208	**Pb**	3	**25.100**	ug/l	251.00	0.6	4500	209	P	
238	**U**	3	**0.363**	ug/l	3.63	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4760886	0.47	4716000	**101.0**	30	-	120	
45	Sc	1	639066	1.70	659800	**96.9**	30	-	120	
45	Sc	2	270501	0.77	256100	**105.6**	30	-	120	
74	Ge	1	446562	1.72	495700	**90.1**	30	-	120	
74	Ge	2	352611	1.36	370200	**95.2**	30	-	120	
74	Ge	3	1399208	0.97	1354000	**103.3**	30	-	120	
103	Rh	2	642452	0.88	687700	**93.4**	30	-	120	
103	Rh	3	1253603	2.06	1280000	**97.9**	30	-	120	
165	Ho	3	2582198	0.95	2556000	**101.0**	30	-	120	
175	Lu	3	2916189	1.31	2887000	**101.0**	30	-	120	
209	Bi	3	5632203	1.08	5936000	**94.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\052SMPL.D\052SMPL.D#
Date Acquired: Jun 2 2010 05:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-29-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.730**	ug/l	7.30	3.4	450	6	P	
23	**Na**	2	**40.790**	ug/l	407.90	7.1	450000	45	P	
24	**Mg**	2	**110900.000**	ug/l	1,109,000.00	1.0	450000	45	A	
27	**Al**	2	**31870.000**	ug/l	318,700.00	1.9	450000	45	A	
31	**P**	2	**1041.000**	ug/l	10,410.00	1.9	450000	45	P	
39	**K**	2	**1787.000**	ug/l	17,870.00	1.0	450000	45	P	
40	**Ca**	1	**9339.000**	ug/l	93,390.00	1.6	450000	45	A	
47	**Ti**	2	**879.400**	ug/l	8,794.00	0.8	4500	45	P	
51	**V**	2	**88.510**	ug/l	885.10	0.2	4500	45	P	
52	**Cr**	2	**606.100**	ug/l	6,061.00	2.4	4500	45	A	
54	**Fe**	1	**64540.000**	ug/l	645,400.00	1.2	450000	74	A	
55	**Mn**	2	**1157.000**	ug/l	11,570.00	0.3	15000	45	A	
59	**Co**	2	**68.010**	ug/l	680.10	0.5	4500	45	P	
60	**Ni**	2	**1005.000**	ug/l	10,050.00	0.3	15000	45	P	
63	**Cu**	2	**55.570**	ug/l	555.70	0.8	15000	45	P	
66	**Zn**	2	**106.000**	ug/l	1,060.00	0.8	15000	45	P	
75	**As**	2	**9.183**	ug/l	91.83	0.5	4500	74	P	
78	**Se**	1	**0.136**	ug/l	1.36	11.8	450	74	P	
88	**Sr**	3	**52.220**	ug/l	522.20	2.3	4500	74	P	
95	**Mo**	3	**1.034**	ug/l	10.34	9.4	4500	74	P	
107	**Ag**	3	**0.110**	ug/l	1.10	20.4	450	103	P	
111	**Cd**	3	**0.314**	ug/l	3.14	29.7	900	103	P	
118	**Sn**	3	**0.659**	ug/l	6.59	1.4	4500	103	P	
121	**Sb**	3	**0.537**	ug/l	5.37	4.0	4500	103	P	
135	**Ba**	3	**274.500**	ug/l	2,745.00	0.8	4500	103	P	
200	**Hg**	3	**7.483**	ug/l	74.83	0.7	45	209	P	
205	**Tl**	3	**0.158**	ug/l	1.58	4.3	4500	209	P	
208	**Pb**	3	**16.240**	ug/l	162.40	0.9	4500	209	P	
238	**U**	3	**0.325**	ug/l	3.25	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4753294	0.30	4716000	**100.8**	30	-	120	
45	Sc	1	658631	1.45	659800	**99.8**	30	-	120	
45	Sc	2	264314	1.60	256100	**103.2**	30	-	120	
74	Ge	1	458610	2.24	495700	**92.5**	30	-	120	
74	Ge	2	353508	1.40	370200	**95.5**	30	-	120	
74	Ge	3	1385903	2.29	1354000	**102.4**	30	-	120	
103	Rh	2	636333	1.23	687700	**92.5**	30	-	120	
103	Rh	3	1240559	0.45	1280000	**96.9**	30	-	120	
165	Ho	3	2588064	0.93	2556000	**101.3**	30	-	120	
175	Lu	3	2866242	0.40	2887000	**99.3**	30	-	120	
209	Bi	3	5592800	0.18	5936000	**94.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\053SMPL.D\053SMPL.D#
Date Acquired: Jun 2 2010 05:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-30-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.336**	ug/l	13.36	0.4	450	6	P	
23	**Na**	2	**53.030**	ug/l	530.30	4.3	450000	45	P	
24	**Mg**	2	**116400.000**	ug/l	1,164,000.00	0.5	450000	45	A	
27	**Al**	2	**48160.000**	ug/l	481,600.00	0.6	450000	45	A	
31	**P**	2	**894.100**	ug/l	8,941.00	2.4	450000	45	P	
39	**K**	2	**1640.000**	ug/l	16,400.00	0.8	450000	45	P	
40	**Ca**	1	**10200.000**	ug/l	102,000.00	1.5	450000	45	A	
47	**Ti**	2	**91.600**	ug/l	916.00	3.3	4500	45	P	
51	**V**	2	**115.200**	ug/l	1,152.00	0.8	4500	45	P	
52	**Cr**	2	**620.900**	ug/l	6,209.00	2.2	4500	45	A	
54	**Fe**	1	**88810.000**	ug/l	888,100.00	1.3	450000	74	A	
55	**Mn**	2	**1581.000**	ug/l	15,810.00	0.8	15000	45	A	
59	**Co**	2	**90.090**	ug/l	900.90	1.4	4500	45	P	
60	**Ni**	2	**1361.000**	ug/l	13,610.00	1.9	15000	45	A	
63	**Cu**	2	**61.710**	ug/l	617.10	1.3	15000	45	P	
66	**Zn**	2	**139.400**	ug/l	1,394.00	0.3	15000	45	P	
75	**As**	2	**13.360**	ug/l	133.60	2.1	4500	74	P	
78	**Se**	1	**0.168**	ug/l	1.68	52.7	450	74	P	
88	**Sr**	3	**62.310**	ug/l	623.10	0.4	4500	74	P	
95	**Mo**	3	**0.917**	ug/l	9.17	6.0	4500	74	P	
107	**Ag**	3	**0.117**	ug/l	1.17	21.9	450	103	P	
111	**Cd**	3	**0.382**	ug/l	3.82	8.1	900	103	P	
118	**Sn**	3	**1.249**	ug/l	12.49	5.3	4500	103	P	
121	**Sb**	3	**0.538**	ug/l	5.38	4.9	4500	103	P	
135	**Ba**	3	**240.500**	ug/l	2,405.00	0.6	4500	103	P	
200	**Hg**	3	**11.140**	ug/l	111.40	1.4	45	209	P	
205	**Tl**	3	**0.141**	ug/l	1.41	3.9	4500	209	P	
208	**Pb**	3	**21.030**	ug/l	210.30	1.2	4500	209	P	
238	**U**	3	**0.355**	ug/l	3.55	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4634465	1.00	4716000	**98.3**	30	-	120	
45	Sc	1	647694	1.42	659800	**98.2**	30	-	120	
45	Sc	2	271748	0.81	256100	**106.1**	30	-	120	
74	Ge	1	439519	1.47	495700	**88.7**	30	-	120	
74	Ge	2	349472	0.77	370200	**94.4**	30	-	120	
74	Ge	3	1368077	0.48	1354000	**101.0**	30	-	120	
103	Rh	2	625184	1.63	687700	**90.9**	30	-	120	
103	Rh	3	1207499	0.84	1280000	**94.3**	30	-	120	
165	Ho	3	2512896	0.10	2556000	**98.3**	30	-	120	
175	Lu	3	2806788	0.95	2887000	**97.2**	30	-	120	
209	Bi	3	5408320	0.91	5936000	**91.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\054SMPL.D\054SMPL.D#
Date Acquired: Jun 2 2010 05:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-31-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.523**	ug/l	5.23	5.3	450	6	P	
23	**Na**	2	**31.790**	ug/l	317.90	9.3	450000	45	P	
24	**Mg**	2	**233300.000**	ug/l	2,333,000.00	1.0	450000	45	A	
27	**Al**	2	**15400.000**	ug/l	154,000.00	0.8	450000	45	A	
31	**P**	2	**265.900**	ug/l	2,659.00	3.0	450000	45	P	
39	**K**	2	**902.600**	ug/l	9,026.00	0.8	450000	45	P	
40	**Ca**	1	**2321.000**	ug/l	23,210.00	1.5	450000	45	A	
47	**Ti**	2	**171.000**	ug/l	1,710.00	1.3	4500	45	P	
51	**V**	2	**65.950**	ug/l	659.50	1.5	4500	45	P	
52	**Cr**	2	**1388.000**	ug/l	13,880.00	1.9	4500	45	A	
54	**Fe**	1	**146400.000**	ug/l	1,464,000.00	0.8	450000	74	A	
55	**Mn**	2	**2349.000**	ug/l	23,490.00	1.2	15000	45	A	
59	**Co**	2	**293.300**	ug/l	2,933.00	1.3	4500	45	A	
60	**Ni**	2	**4402.000**	ug/l	44,020.00	2.8	15000	45	A	
63	**Cu**	2	**39.730**	ug/l	397.30	1.5	15000	45	P	
66	**Zn**	2	**117.700**	ug/l	1,177.00	1.4	15000	45	P	
75	**As**	2	**7.130**	ug/l	71.30	3.1	4500	74	P	
78	**Se**	1	**0.290**	ug/l	2.90	2.3	450	74	P	
88	**Sr**	3	**8.838**	ug/l	88.38	2.5	4500	74	P	
95	**Mo**	3	**0.584**	ug/l	5.84	9.5	4500	74	P	
107	**Ag**	3	**0.052**	ug/l	0.52	33.7	450	103	P	
111	**Cd**	3	**0.160**	ug/l	1.60	17.8	900	103	P	
118	**Sn**	3	**0.552**	ug/l	5.52	8.6	4500	103	P	
121	**Sb**	3	**0.303**	ug/l	3.03	2.4	4500	103	P	
135	**Ba**	3	**171.200**	ug/l	1,712.00	3.9	4500	103	P	
200	**Hg**	3	**1396.000**	ug/l	13,960.00	1.3	45	209	A	Fail
205	**Tl**	3	**0.189**	ug/l	1.89	0.8	4500	209	P	
208	**Pb**	3	**9.591**	ug/l	95.91	1.1	4500	209	P	
238	**U**	3	**0.323**	ug/l	3.23	6.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4270430	0.82	4716000	**90.6**	30	-	120	
45	Sc	1	633208	1.46	659800	**96.0**	30	-	120	
45	Sc	2	258717	2.01	256100	**101.0**	30	-	120	
74	Ge	1	421966	1.87	495700	**85.1**	30	-	120	
74	Ge	2	331354	2.11	370200	**89.5**	30	-	120	
74	Ge	3	1283155	1.39	1354000	**94.8**	30	-	120	
103	Rh	2	600531	1.01	687700	**87.3**	30	-	120	
103	Rh	3	1176539	0.73	1280000	**91.9**	30	-	120	
165	Ho	3	2443842	1.53	2556000	**95.6**	30	-	120	
175	Lu	3	2724753	0.99	2887000	**94.4**	30	-	120	
209	Bi	3	5226484	0.26	5936000	**88.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\055SMPL.D\055SMPL.D#
Date Acquired: Jun 2 2010 05:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-32-B Vial Number: 2306
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.494**	ug/l	4.94	10.9	450	6	P	
23	**Na**	2	**37.680**	ug/l	376.80	3.1	450000	45	P	
24	**Mg**	2	**275200.000**	ug/l	2,752,000.00	1.4	450000	45	A	
27	**Al**	2	**14260.000**	ug/l	142,600.00	0.8	450000	45	A	
31	**P**	2	**327.900**	ug/l	3,279.00	4.0	450000	45	P	
39	**K**	2	**944.100**	ug/l	9,441.00	1.4	450000	45	P	
40	**Ca**	1	**5171.000**	ug/l	51,710.00	0.4	450000	45	A	
47	**Ti**	2	**97.690**	ug/l	976.90	1.6	4500	45	P	
51	**V**	2	**67.440**	ug/l	674.40	1.0	4500	45	P	
52	**Cr**	2	**1327.000**	ug/l	13,270.00	0.6	4500	45	A	
54	**Fe**	1	**160900.000**	ug/l	1,609,000.00	0.8	450000	74	A	
55	**Mn**	2	**2170.000**	ug/l	21,700.00	0.6	15000	45	A	
59	**Co**	2	**250.000**	ug/l	2,500.00	0.9	4500	45	P	
60	**Ni**	2	**4585.000**	ug/l	45,850.00	0.2	15000	45	A	
63	**Cu**	2	**47.810**	ug/l	478.10	0.9	15000	45	P	
66	**Zn**	2	**154.600**	ug/l	1,546.00	1.6	15000	45	P	
75	**As**	2	**6.369**	ug/l	63.69	1.7	4500	74	P	
78	**Se**	1	**0.278**	ug/l	2.78	43.9	450	74	P	
88	**Sr**	3	**23.650**	ug/l	236.50	3.6	4500	74	P	
95	**Mo**	3	**0.537**	ug/l	5.37	7.3	4500	74	P	
107	**Ag**	3	**0.060**	ug/l	0.60	11.1	450	103	P	
111	**Cd**	3	**0.393**	ug/l	3.93	12.3	900	103	P	
118	**Sn**	3	**0.607**	ug/l	6.07	9.1	4500	103	P	
121	**Sb**	3	**0.425**	ug/l	4.25	12.7	4500	103	P	
135	**Ba**	3	**147.000**	ug/l	1,470.00	3.8	4500	103	P	
200	**Hg**	3	**418.900**	ug/l	4,189.00	2.2	45	209	P	Fail
205	**Tl**	3	**0.130**	ug/l	1.30	6.4	4500	209	P	
208	**Pb**	3	**8.422**	ug/l	84.22	2.7	4500	209	P	
238	**U**	3	**0.307**	ug/l	3.07	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4121038	0.23	4716000	**87.4**	30	-	120	
45	Sc	1	608727	1.59	659800	**92.3**	30	-	120	
45	Sc	2	253130	0.49	256100	**98.8**	30	-	120	
74	Ge	1	401430	1.80	495700	**81.0**	30	-	120	
74	Ge	2	324121	1.02	370200	**87.6**	30	-	120	
74	Ge	3	1329490	0.72	1354000	**98.2**	30	-	120	
103	Rh	2	597306	0.43	687700	**86.9**	30	-	120	
103	Rh	3	1168744	0.42	1280000	**91.3**	30	-	120	
165	Ho	3	2493331	0.50	2556000	**97.5**	30	-	120	
175	Lu	3	2805439	0.73	2887000	**97.2**	30	-	120	
209	Bi	3	5279075	0.63	5936000	**88.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\057SMPL.D\057SMPL.D#
Date Acquired: Jun 2 2010 05:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.570**	ug/l	49.57	3.6	450	6	P	
23	**Na**	2	**4861.000**	ug/l	4,861.00	1.5	450000	45	A	
24	**Mg**	2	**4965.000**	ug/l	4,965.00	1.6	450000	45	A	
27	**Al**	2	**482.200**	ug/l	482.20	1.4	450000	45	P	
31	**P**	2	**4894.000**	ug/l	4,894.00	0.7	450000	45	P	
39	**K**	2	**5013.000**	ug/l	5,013.00	0.8	450000	45	A	
40	**Ca**	1	**4903.000**	ug/l	4,903.00	1.0	450000	45	A	
47	**Ti**	2	**48.910**	ug/l	48.91	0.8	4500	45	P	
51	**V**	2	**50.100**	ug/l	50.10	1.2	4500	45	P	
52	**Cr**	2	**51.220**	ug/l	51.22	0.6	4500	45	P	
54	**Fe**	1	**5157.000**	ug/l	5,157.00	0.4	450000	74	P	
55	**Mn**	2	**50.650**	ug/l	50.65	0.8	15000	45	P	
59	**Co**	2	**51.970**	ug/l	51.97	1.3	4500	45	P	
60	**Ni**	2	**52.280**	ug/l	52.28	1.9	15000	45	P	
63	**Cu**	2	**51.830**	ug/l	51.83	0.9	15000	45	P	
66	**Zn**	2	**51.140**	ug/l	51.14	1.8	15000	45	P	
75	**As**	2	**51.120**	ug/l	51.12	1.0	4500	74	P	
78	**Se**	1	**50.200**	ug/l	50.20	3.2	450	74	P	
88	**Sr**	3	**50.280**	ug/l	50.28	4.2	4500	74	P	
95	**Mo**	3	**50.040**	ug/l	50.04	4.6	4500	74	P	
107	**Ag**	3	**49.700**	ug/l	49.70	0.1	450	103	P	
111	**Cd**	3	**49.080**	ug/l	49.08	2.9	900	103	P	
118	**Sn**	3	**49.220**	ug/l	49.22	3.6	4500	103	P	
121	**Sb**	3	**48.760**	ug/l	48.76	2.7	4500	103	P	
135	**Ba**	3	**48.790**	ug/l	48.79	2.6	4500	103	P	
200	**Hg**	3	**3.580**	ug/l	3.58	1.5	45	209	P	
205	**Tl**	3	**50.290**	ug/l	50.29	5.1	4500	209	P	
208	**Pb**	3	**50.520**	ug/l	50.52	3.5	4500	209	P	
238	**U**	3	**49.990**	ug/l	49.99	5.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5172247	0.86	4716000	**109.7**	30	-	120	
45	Sc	1	597473	1.05	659800	**90.6**	30	-	120	
45	Sc	2	261361	1.40	256100	**102.1**	30	-	120	
74	Ge	1	461868	0.82	495700	**93.2**	30	-	120	
74	Ge	2	380931	1.08	370200	**102.9**	30	-	120	
74	Ge	3	1506584	1.25	1354000	**111.3**	30	-	120	
103	Rh	2	702662	0.71	687700	**102.2**	30	-	120	
103	Rh	3	1359718	1.79	1280000	**106.2**	30	-	120	
165	Ho	3	2701098	0.68	2556000	**105.7**	30	-	120	
175	Lu	3	3005896	1.60	2887000	**104.1**	30	-	120	
209	Bi	3	6068599	0.15	5936000	**102.2**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\058SMPL.D\058SMPL.D#
Date Acquired: Jun 2 2010 05:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	7.8	450	6	P	
23	**Na**	2	**-24.430**	ug/l	-24.43	6.3	450000	45	P	
24	**Mg**	2	**2.928**	ug/l	2.93	19.7	450000	45	P	
27	**Al**	2	**0.339**	ug/l	0.34	34.8	450000	45	P	
31	**P**	2	**-12.800**	ug/l	-12.80	25.9	450000	45	P	
39	**K**	2	**-21.610**	ug/l	-21.61	9.5	450000	45	P	
40	**Ca**	1	**0.475**	ug/l	0.47	59.7	450000	45	P	
47	**Ti**	2	**0.023**	ug/l	0.02	141.8	4500	45	P	
51	**V**	2	**-0.048**	ug/l	-0.05	72.8	4500	45	P	
52	**Cr**	2	**0.004**	ug/l	0.00	1040.5	4500	45	P	
54	**Fe**	1	**1.175**	ug/l	1.18	30.0	450000	74	P	
55	**Mn**	2	**0.019**	ug/l	0.02	69.5	15000	45	P	
59	**Co**	2	**0.009**	ug/l	0.01	40.8	4500	45	P	
60	**Ni**	2	**0.062**	ug/l	0.06	57.8	15000	45	P	
63	**Cu**	2	**0.008**	ug/l	0.01	308.2	15000	45	P	
66	**Zn**	2	**0.046**	ug/l	0.05	247.4	15000	45	P	
75	**As**	2	**-0.016**	ug/l	-0.02	281.2	4500	74	P	
78	**Se**	1	**-0.005**	ug/l	0.00	652.8	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.00	173.9	4500	74	P	
95	**Mo**	3	**0.024**	ug/l	0.02	46.6	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	17.4	450	103	P	
111	**Cd**	3	**-0.005**	ug/l	0.00	211.7	900	103	P	
118	**Sn**	3	**0.033**	ug/l	0.03	40.6	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	44.8	4500	103	P	
135	**Ba**	3	**0.010**	ug/l	0.01	70.5	4500	103	P	
200	**Hg**	3	**0.708**	ug/l	0.71	7.9	45	209	P	
205	**Tl**	3	**0.184**	ug/l	0.18	1.0	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	46.7	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	39.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5063868	1.14	4716000	**107.4**	30	-	120	
45	Sc	1	608282	2.31	659800	**92.2**	30	-	120	
45	Sc	2	268149	0.82	256100	**104.7**	30	-	120	
74	Ge	1	473636	1.28	495700	**95.5**	30	-	120	
74	Ge	2	394771	1.69	370200	**106.6**	30	-	120	
74	Ge	3	1523216	1.68	1354000	**112.5**	30	-	120	
103	Rh	2	747490	1.63	687700	**108.7**	30	-	120	
103	Rh	3	1398241	1.15	1280000	**109.2**	30	-	120	
165	Ho	3	2738449	1.81	2556000	**107.1**	30	-	120	
175	Lu	3	3026828	1.48	2887000	**104.8**	30	-	120	
209	Bi	3	6350395	0.95	5936000	**107.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\059SMPL.D\059SMPL.D#
Date Acquired: Jun 2 2010 05:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64624/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	-0.01	287.2	450	6	P	
23	**Na**	2	**-26.810**	ug/l	-268.10	4.7	450000	45	P	
24	**Mg**	2	**1.224**	ug/l	12.24	10.6	450000	45	P	
27	**Al**	2	**0.084**	ug/l	0.84	85.5	450000	45	P	
31	**P**	2	**-15.650**	ug/l	-156.50	38.0	450000	45	P	
39	**K**	2	**-25.020**	ug/l	-250.20	5.3	450000	45	P	
40	**Ca**	1	**-0.150**	ug/l	-1.50	64.3	450000	45	P	
47	**Ti**	2	**0.012**	ug/l	0.12	109.4	4500	45	P	
51	**V**	2	**0.028**	ug/l	0.28	64.4	4500	45	P	
52	**Cr**	2	**0.000**	ug/l	0.00	6089.4	4500	45	P	
54	**Fe**	1	**0.364**	ug/l	3.64	99.1	450000	74	P	
55	**Mn**	2	**0.012**	ug/l	0.12	23.2	15000	45	P	
59	**Co**	2	**0.000**	ug/l	0.00	396.0	4500	45	P	
60	**Ni**	2	**0.000**	ug/l	0.00	9899.9	15000	45	P	
63	**Cu**	2	**0.003**	ug/l	0.03	1075.3	15000	45	P	
66	**Zn**	2	**0.034**	ug/l	0.34	90.3	15000	45	P	
75	**As**	2	**0.004**	ug/l	0.04	313.0	4500	74	P	
78	**Se**	1	**0.001**	ug/l	0.01	1184.6	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.03	80.0	4500	74	P	
95	**Mo**	3	**0.008**	ug/l	0.08	116.1	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	202.2	450	103	P	
111	**Cd**	3	**-0.006**	ug/l	-0.06	143.9	900	103	P	
118	**Sn**	3	**0.012**	ug/l	0.12	136.9	4500	103	P	
121	**Sb**	3	**0.001**	ug/l	0.01	419.0	4500	103	P	
135	**Ba**	3	**-0.002**	ug/l	-0.02	359.9	4500	103	P	
200	**Hg**	3	**0.497**	ug/l	4.97	17.9	45	209	P	
205	**Tl**	3	**0.064**	ug/l	0.64	15.2	4500	209	P	
208	**Pb**	3	**0.001**	ug/l	0.01	143.6	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	69.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5009098	1.60	4716000	**106.2**	30	-	120	
45	Sc	1	618008	1.66	659800	**93.7**	30	-	120	
45	Sc	2	270002	1.44	256100	**105.4**	30	-	120	
74	Ge	1	478364	0.77	495700	**96.5**	30	-	120	
74	Ge	2	396583	0.84	370200	**107.1**	30	-	120	
74	Ge	3	1512752	0.93	1354000	**111.7**	30	-	120	
103	Rh	2	747216	1.85	687700	**108.7**	30	-	120	
103	Rh	3	1397186	1.10	1280000	**109.2**	30	-	120	
165	Ho	3	2684516	1.04	2556000	**105.0**	30	-	120	
175	Lu	3	3013720	1.06	2887000	**104.4**	30	-	120	
209	Bi	3	6358293	1.45	5936000	**107.1**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\060SMPL.D\060SMPL.D#
Date Acquired: Jun 2 2010 06:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.08	69.8	450	6	P	
23	**Na**	2	**-32.440**	ug/l	-1,622.00	3.6	450000	45	P	
24	**Mg**	2	**87330.000**	ug/l	4,366,500.00	1.9	450000	45	A	
27	**Al**	2	**464.300**	ug/l	23,215.00	1.6	450000	45	P	
31	**P**	2	**-6.614**	ug/l	-330.70	48.4	450000	45	P	
39	**K**	2	**-17.370**	ug/l	-868.50	21.8	450000	45	P	
40	**Ca**	1	**1564.000**	ug/l	78,200.00	1.1	450000	45	A	
47	**Ti**	2	**2.667**	ug/l	133.35	4.4	4500	45	P	
51	**V**	2	**4.010**	ug/l	200.50	5.8	4500	45	P	
52	**Cr**	2	**274.400**	ug/l	13,720.00	2.1	4500	45	P	
54	**Fe**	1	**20020.000**	ug/l	1,001,000.00	1.2	450000	74	A	
55	**Mn**	2	**313.300**	ug/l	15,665.00	1.5	15000	45	P	
59	**Co**	2	**36.870**	ug/l	1,843.50	0.8	4500	45	P	
60	**Ni**	2	**797.500**	ug/l	39,875.00	2.0	15000	45	P	
63	**Cu**	2	**1.316**	ug/l	65.80	6.4	15000	45	P	
66	**Zn**	2	**7.856**	ug/l	392.80	3.2	15000	45	P	
75	**As**	2	**-0.025**	ug/l	-1.23	98.4	4500	74	P	
78	**Se**	1	**0.006**	ug/l	0.32	150.9	450	74	P	
88	**Sr**	3	**0.145**	ug/l	7.27	14.3	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.77	30.6	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.10	60.2	450	103	P	
111	**Cd**	3	**0.004**	ug/l	0.21	118.6	900	103	P	
118	**Sn**	3	**0.000**	ug/l	0.02	1611.2	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.24	63.4	4500	103	P	
135	**Ba**	3	**0.654**	ug/l	32.72	16.0	4500	103	P	
200	**Hg**	3	**1.964**	ug/l	98.20	13.5	45	209	P	
205	**Tl**	3	**0.049**	ug/l	2.46	31.9	4500	209	P	
208	**Pb**	3	**0.583**	ug/l	29.14	9.7	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.08	54.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5375402	7.09	4716000	**114.0**	30	-	120	
45	Sc	1	635641	1.43	659800	**96.3**	30	-	120	
45	Sc	2	268212	1.99	256100	**104.7**	30	-	120	
74	Ge	1	478121	1.16	495700	**96.5**	30	-	120	
74	Ge	2	374656	1.95	370200	**101.2**	30	-	120	
74	Ge	3	1418752	7.96	1354000	**104.8**	30	-	120	
103	Rh	2	673096	0.94	687700	**97.9**	30	-	120	
103	Rh	3	1221791	6.46	1280000	**95.5**	30	-	120	
165	Ho	3	2443291	8.91	2556000	**95.6**	30	-	120	
175	Lu	3	2720611	8.84	2887000	**94.2**	30	-	120	
209	Bi	3	5464845	8.38	5936000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\061SMPL.D\061SMPL.D#
Date Acquired: Jun 2 2010 06:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	17.2	450	6	P	
23	**Na**	2	**-7.605**	ug/l	-76.05	17.8	450000	45	P	
24	**Mg**	2	**387700.000**	ug/l	3,877,000.00	0.3	450000	45	A	
27	**Al**	2	**2093.000**	ug/l	20,930.00	1.5	450000	45	P	
31	**P**	2	**9.111**	ug/l	91.11	66.3	450000	45	P	
39	**K**	2	**7.999**	ug/l	79.99	30.4	450000	45	P	
40	**Ca**	1	**6964.000**	ug/l	69,640.00	0.9	450000	45	A	
47	**Ti**	2	**11.700**	ug/l	117.00	0.3	4500	45	P	
51	**V**	2	**19.810**	ug/l	198.10	2.8	4500	45	P	
52	**Cr**	2	**1208.000**	ug/l	12,080.00	1.1	4500	45	A	
54	**Fe**	1	**95390.000**	ug/l	953,900.00	3.4	450000	74	A	
55	**Mn**	2	**1367.000**	ug/l	13,670.00	0.3	15000	45	A	
59	**Co**	2	**165.700**	ug/l	1,657.00	1.2	4500	45	P	
60	**Ni**	2	**3420.000**	ug/l	34,200.00	0.8	15000	45	A	
63	**Cu**	2	**6.205**	ug/l	62.05	4.3	15000	45	P	
66	**Zn**	2	**35.300**	ug/l	353.00	1.3	15000	45	P	
75	**As**	2	**0.432**	ug/l	4.32	12.7	4500	74	P	
78	**Se**	1	**0.050**	ug/l	0.50	49.2	450	74	P	
88	**Sr**	3	**0.690**	ug/l	6.90	2.7	4500	74	P	
95	**Mo**	3	**0.035**	ug/l	0.35	60.8	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	198.2	450	103	P	
111	**Cd**	3	**0.022**	ug/l	0.22	53.5	900	103	P	
118	**Sn**	3	**0.060**	ug/l	0.60	10.5	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.24	5.6	4500	103	P	
135	**Ba**	3	**3.204**	ug/l	32.04	5.7	4500	103	P	
200	**Hg**	3	**4.269**	ug/l	42.69	4.4	45	209	P	
205	**Tl**	3	**0.034**	ug/l	0.34	21.2	4500	209	P	
208	**Pb**	3	**2.677**	ug/l	26.77	3.1	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.07	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4523208	1.56	4716000	**95.9**	30	-	120	
45	Sc	1	594459	0.56	659800	**90.1**	30	-	120	
45	Sc	2	248158	0.64	256100	**96.9**	30	-	120	
74	Ge	1	415700	2.51	495700	**83.9**	30	-	120	
74	Ge	2	329989	0.96	370200	**89.1**	30	-	120	
74	Ge	3	1353028	1.21	1354000	**99.9**	30	-	120	
103	Rh	2	596728	0.33	687700	**86.8**	30	-	120	
103	Rh	3	1197448	0.46	1280000	**93.6**	30	-	120	
165	Ho	3	2494680	0.33	2556000	**97.6**	30	-	120	
175	Lu	3	2751837	0.52	2887000	**95.3**	30	-	120	
209	Bi	3	5325007	0.91	5936000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\062SMPL.D\062SMPL.D#
Date Acquired: Jun 2 2010 06:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	32.7	450	6	P	
23	**Na**	2	**-6.157**	ug/l	-61.57	13.2	450000	45	P	
24	**Mg**	2	**380100.000**	ug/l	3,801,000.00	0.5	450000	45	A	
27	**Al**	2	**2030.000**	ug/l	20,300.00	0.9	450000	45	P	
31	**P**	2	**11.230**	ug/l	112.30	8.7	450000	45	P	
39	**K**	2	**0.286**	ug/l	2.86	763.0	450000	45	P	
40	**Ca**	1	**6671.000**	ug/l	66,710.00	1.6	450000	45	A	
47	**Ti**	2	**11.250**	ug/l	112.50	3.0	4500	45	P	
51	**V**	2	**18.920**	ug/l	189.20	1.4	4500	45	P	
52	**Cr**	2	**1178.000**	ug/l	11,780.00	0.9	4500	45	A	
54	**Fe**	1	**90350.000**	ug/l	903,500.00	0.5	450000	74	A	
55	**Mn**	2	**1359.000**	ug/l	13,590.00	0.4	15000	45	A	
59	**Co**	2	**162.500**	ug/l	1,625.00	0.1	4500	45	P	
60	**Ni**	2	**3354.000**	ug/l	33,540.00	1.5	15000	45	A	
63	**Cu**	2	**6.156**	ug/l	61.56	1.5	15000	45	P	
66	**Zn**	2	**35.490**	ug/l	354.90	1.3	15000	45	P	
75	**As**	2	**0.369**	ug/l	3.69	12.9	4500	74	P	
78	**Se**	1	**0.062**	ug/l	0.62	35.0	450	74	P	
88	**Sr**	3	**0.654**	ug/l	6.54	3.8	4500	74	P	
95	**Mo**	3	**0.048**	ug/l	0.48	42.9	4500	74	P	
107	**Ag**	3	**0.005**	ug/l	0.05	65.9	450	103	P	
111	**Cd**	3	**0.045**	ug/l	0.45	42.8	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.41	24.7	4500	103	P	
121	**Sb**	3	**0.019**	ug/l	0.19	59.1	4500	103	P	
135	**Ba**	3	**2.856**	ug/l	28.56	3.1	4500	103	P	
200	**Hg**	3	**4.138**	ug/l	41.38	2.3	45	209	P	
205	**Tl**	3	**0.030**	ug/l	0.30	30.2	4500	209	P	
208	**Pb**	3	**2.534**	ug/l	25.34	3.9	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.07	7.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4387923	0.55	4716000	**93.0**	30	-	120	
45	Sc	1	585640	1.45	659800	**88.8**	30	-	120	
45	Sc	2	244976	0.25	256100	**95.7**	30	-	120	
74	Ge	1	418034	0.96	495700	**84.3**	30	-	120	
74	Ge	2	334329	1.29	370200	**90.3**	30	-	120	
74	Ge	3	1347831	0.93	1354000	**99.5**	30	-	120	
103	Rh	2	606292	0.55	687700	**88.2**	30	-	120	
103	Rh	3	1211605	0.65	1280000	**94.7**	30	-	120	
165	Ho	3	2556291	0.54	2556000	**100.0**	30	-	120	
175	Lu	3	2800989	1.94	2887000	**97.0**	30	-	120	
209	Bi	3	5385731	0.80	5936000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\063SMPL.D\063SMPL.D#
Date Acquired: Jun 2 2010 06:26 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.080**	ug/l	104.00	2.3	450	6	P	
23	**Na**	2	**385.700**	ug/l	19,285.00	1.7	450000	45	P	
24	**Mg**	2	**74810.000**	ug/l	3,740,500.00	0.5	450000	45	A	
27	**Al**	2	**482.700**	ug/l	24,135.00	0.6	450000	45	P	
31	**P**	2	**401.200**	ug/l	20,060.00	3.8	450000	45	P	
39	**K**	2	**399.400**	ug/l	19,970.00	1.4	450000	45	P	
40	**Ca**	1	**1700.000**	ug/l	85,000.00	0.7	450000	45	A	
47	**Ti**	2	**104.000**	ug/l	5,200.00	0.9	4500	45	P	
51	**V**	2	**24.250**	ug/l	1,212.50	1.9	4500	45	P	
52	**Cr**	2	**242.600**	ug/l	12,130.00	0.7	4500	45	P	
54	**Fe**	1	**17270.000**	ug/l	863,500.00	2.3	450000	74	A	
55	**Mn**	2	**290.100**	ug/l	14,505.00	0.6	15000	45	P	
59	**Co**	2	**52.390**	ug/l	2,619.50	0.4	4500	45	P	
60	**Ni**	2	**708.700**	ug/l	35,435.00	1.1	15000	45	P	
63	**Cu**	2	**11.710**	ug/l	585.50	1.1	15000	45	P	
66	**Zn**	2	**28.050**	ug/l	1,402.50	1.6	15000	45	P	
75	**As**	2	**81.190**	ug/l	4,059.50	0.4	4500	74	P	
78	**Se**	1	**80.210**	ug/l	4,010.50	0.8	450	74	P	
88	**Sr**	3	**0.167**	ug/l	8.33	9.0	4500	74	P	
95	**Mo**	3	**104.800**	ug/l	5,240.00	4.8	4500	74	P	
107	**Ag**	3	**12.630**	ug/l	631.50	2.8	450	103	P	
111	**Cd**	3	**2.028**	ug/l	101.40	10.9	900	103	P	
118	**Sn**	3	**109.000**	ug/l	5,450.00	4.1	4500	103	P	
121	**Sb**	3	**58.990**	ug/l	2,949.50	2.3	4500	103	P	
135	**Ba**	3	**84.880**	ug/l	4,244.00	2.8	4500	103	P	
200	**Hg**	3	**2.457**	ug/l	122.85	1.8	45	209	P	
205	**Tl**	3	**84.950**	ug/l	4,247.50	1.3	4500	209	A	
208	**Pb**	3	**21.970**	ug/l	1,098.50	2.7	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.11	19.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5313356	1.74	4716000	**112.7**	30	-	120	
45	Sc	1	619727	0.27	659800	**93.9**	30	-	120	
45	Sc	2	266227	1.30	256100	**104.0**	30	-	120	
74	Ge	1	475146	1.85	495700	**95.9**	30	-	120	
74	Ge	2	381197	1.12	370200	**103.0**	30	-	120	
74	Ge	3	1541886	0.96	1354000	**113.9**	30	-	120	
103	Rh	2	687259	1.04	687700	**99.9**	30	-	120	
103	Rh	3	1324143	0.45	1280000	**103.4**	30	-	120	
165	Ho	3	2700225	1.19	2556000	**105.6**	30	-	120	
175	Lu	3	2994879	0.41	2887000	**103.7**	30	-	120	
209	Bi	3	5912670	0.69	5936000	**99.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\064SMPL.D\064SMPL.D#
Date Acquired: Jun 2 2010 06:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.128**	ug/l	106.40	0.9	450	6	P	
23	**Na**	2	**407.100**	ug/l	20,355.00	1.9	450000	45	P	
24	**Mg**	2	**76900.000**	ug/l	3,845,000.00	2.2	450000	45	A	
27	**Al**	2	**503.900**	ug/l	25,195.00	1.7	450000	45	P	
31	**P**	2	**396.200**	ug/l	19,810.00	4.7	450000	45	P	
39	**K**	2	**413.000**	ug/l	20,650.00	1.1	450000	45	P	
40	**Ca**	1	**1813.000**	ug/l	90,650.00	1.2	450000	45	A	
47	**Ti**	2	**107.800**	ug/l	5,390.00	1.0	4500	45	P	
51	**V**	2	**25.190**	ug/l	1,259.50	1.6	4500	45	P	
52	**Cr**	2	**252.000**	ug/l	12,600.00	2.0	4500	45	P	
54	**Fe**	1	**18310.000**	ug/l	915,500.00	1.9	450000	74	A	
55	**Mn**	2	**302.900**	ug/l	15,145.00	1.6	15000	45	P	
59	**Co**	2	**54.640**	ug/l	2,732.00	1.4	4500	45	P	
60	**Ni**	2	**739.400**	ug/l	36,970.00	1.5	15000	45	P	
63	**Cu**	2	**12.080**	ug/l	604.00	2.7	15000	45	P	
66	**Zn**	2	**27.780**	ug/l	1,389.00	2.9	15000	45	P	
75	**As**	2	**83.670**	ug/l	4,183.50	0.5	4500	74	P	
78	**Se**	1	**86.460**	ug/l	4,323.00	1.2	450	74	P	
88	**Sr**	3	**0.187**	ug/l	9.34	5.8	4500	74	P	
95	**Mo**	3	**109.600**	ug/l	5,480.00	1.0	4500	74	P	
107	**Ag**	3	**12.640**	ug/l	632.00	3.0	450	103	P	
111	**Cd**	3	**2.162**	ug/l	108.10	1.9	900	103	P	
118	**Sn**	3	**111.600**	ug/l	5,580.00	3.4	4500	103	P	
121	**Sb**	3	**60.480**	ug/l	3,024.00	1.9	4500	103	P	
135	**Ba**	3	**88.270**	ug/l	4,413.50	2.9	4500	103	P	
200	**Hg**	3	**2.526**	ug/l	126.30	1.7	45	209	P	
205	**Tl**	3	**87.510**	ug/l	4,375.50	0.9	4500	209	A	
208	**Pb**	3	**22.880**	ug/l	1,144.00	0.9	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.06	13.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5300167	1.80	4716000	**112.4**	30	-	120	
45	Sc	1	622061	1.35	659800	**94.3**	30	-	120	
45	Sc	2	267640	1.56	256100	**104.5**	30	-	120	
74	Ge	1	471867	1.84	495700	**95.2**	30	-	120	
74	Ge	2	383277	0.99	370200	**103.5**	30	-	120	
74	Ge	3	1528541	0.28	1354000	**112.9**	30	-	120	
103	Rh	2	693114	1.28	687700	**100.8**	30	-	120	
103	Rh	3	1352651	3.19	1280000	**105.7**	30	-	120	
165	Ho	3	2700773	0.21	2556000	**105.7**	30	-	120	
175	Lu	3	2993568	0.72	2887000	**103.7**	30	-	120	
209	Bi	3	5931132	0.14	5936000	**99.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\065SMPL.D\065SMPL.D#
Date Acquired: Jun 2 2010 06:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.037**	ug/l	101.85	5.7	450	6	P	
23	**Na**	2	**404.500**	ug/l	20,225.00	0.5	450000	45	P	
24	**Mg**	2	**76350.000**	ug/l	3,817,500.00	1.0	450000	45	A	
27	**Al**	2	**498.900**	ug/l	24,945.00	0.3	450000	45	P	
31	**P**	2	**397.500**	ug/l	19,875.00	1.7	450000	45	P	
39	**K**	2	**406.400**	ug/l	20,320.00	1.1	450000	45	P	
40	**Ca**	1	**1829.000**	ug/l	91,450.00	1.1	450000	45	A	
47	**Ti**	2	**108.700**	ug/l	5,435.00	1.1	4500	45	P	
51	**V**	2	**24.940**	ug/l	1,247.00	0.6	4500	45	P	
52	**Cr**	2	**251.300**	ug/l	12,565.00	0.7	4500	45	P	
54	**Fe**	1	**18450.000**	ug/l	922,500.00	1.0	450000	74	A	
55	**Mn**	2	**299.600**	ug/l	14,980.00	0.6	15000	45	P	
59	**Co**	2	**54.290**	ug/l	2,714.50	0.5	4500	45	P	
60	**Ni**	2	**725.800**	ug/l	36,290.00	0.8	15000	45	P	
63	**Cu**	2	**11.850**	ug/l	592.50	1.5	15000	45	P	
66	**Zn**	2	**28.680**	ug/l	1,434.00	4.9	15000	45	P	
75	**As**	2	**85.190**	ug/l	4,259.50	0.5	4500	74	P	
78	**Se**	1	**86.190**	ug/l	4,309.50	2.8	450	74	P	
88	**Sr**	3	**0.166**	ug/l	8.32	13.5	4500	74	P	
95	**Mo**	3	**105.300**	ug/l	5,265.00	3.8	4500	74	P	
107	**Ag**	3	**12.590**	ug/l	629.50	2.6	450	103	P	
111	**Cd**	3	**1.985**	ug/l	99.25	7.0	900	103	P	
118	**Sn**	3	**108.100**	ug/l	5,405.00	5.7	4500	103	P	
121	**Sb**	3	**60.150**	ug/l	3,007.50	3.7	4500	103	P	
135	**Ba**	3	**86.160**	ug/l	4,308.00	4.5	4500	103	P	
200	**Hg**	3	**2.432**	ug/l	121.60	3.4	45	209	P	
205	**Tl**	3	**85.790**	ug/l	4,289.50	2.5	4500	209	A	
208	**Pb**	3	**22.200**	ug/l	1,110.00	3.8	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.07	57.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5287920	2.14	4716000	**112.1**	30	-	120	
45	Sc	1	624113	1.27	659800	**94.6**	30	-	120	
45	Sc	2	268031	0.45	256100	**104.7**	30	-	120	
74	Ge	1	474459	0.95	495700	**95.7**	30	-	120	
74	Ge	2	379982	0.58	370200	**102.6**	30	-	120	
74	Ge	3	1543947	0.55	1354000	**114.0**	30	-	120	
103	Rh	2	689088	0.28	687700	**100.2**	30	-	120	
103	Rh	3	1342809	0.91	1280000	**104.9**	30	-	120	
165	Ho	3	2704255	1.03	2556000	**105.8**	30	-	120	
175	Lu	3	2981627	1.29	2887000	**103.3**	30	-	120	
209	Bi	3	5956164	0.48	5936000	**100.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\066SMPL.D\066SMPL.D#
Date Acquired: Jun 2 2010 06:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64624/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.952**	ug/l	97.60	4.3	450	6	P	
23	**Na**	2	**395.300**	ug/l	19,765.00	2.0	450000	45	P	
24	**Mg**	2	**416.500**	ug/l	20,825.00	2.5	450000	45	P	
27	**Al**	2	**74.490**	ug/l	3,724.50	2.4	450000	45	P	
31	**P**	2	**358.100**	ug/l	17,905.00	5.0	450000	45	P	
39	**K**	2	**379.400**	ug/l	18,970.00	3.1	450000	45	P	
40	**Ca**	1	**411.700**	ug/l	20,585.00	1.0	450000	45	P	
47	**Ti**	2	**96.800**	ug/l	4,840.00	1.4	4500	45	P	
51	**V**	2	**19.540**	ug/l	977.00	1.2	4500	45	P	
52	**Cr**	2	**8.126**	ug/l	406.30	4.2	4500	45	P	
54	**Fe**	1	**455.400**	ug/l	22,770.00	0.7	450000	74	P	
55	**Mn**	2	**20.100**	ug/l	1,005.00	1.7	15000	45	P	
59	**Co**	2	**20.820**	ug/l	1,041.00	1.7	4500	45	P	
60	**Ni**	2	**21.110**	ug/l	1,055.50	2.7	15000	45	P	
63	**Cu**	2	**10.750**	ug/l	537.50	0.5	15000	45	P	
66	**Zn**	2	**20.890**	ug/l	1,044.50	1.8	15000	45	P	
75	**As**	2	**78.690**	ug/l	3,934.50	1.6	4500	74	P	
78	**Se**	1	**79.070**	ug/l	3,953.50	0.8	450	74	P	
88	**Sr**	3	**0.002**	ug/l	0.08	181.3	4500	74	P	
95	**Mo**	3	**98.580**	ug/l	4,929.00	6.4	4500	74	P	
107	**Ag**	3	**12.070**	ug/l	603.50	3.9	450	103	P	
111	**Cd**	3	**1.926**	ug/l	96.30	16.3	900	103	P	
118	**Sn**	3	**100.300**	ug/l	5,015.00	7.6	4500	103	P	
121	**Sb**	3	**57.160**	ug/l	2,858.00	7.2	4500	103	P	
135	**Ba**	3	**78.880**	ug/l	3,944.00	5.9	4500	103	P	
200	**Hg**	3	**1.075**	ug/l	53.75	3.9	45	209	P	
205	**Tl**	3	**76.630**	ug/l	3,831.50	3.8	4500	209	A	
208	**Pb**	3	**19.840**	ug/l	992.00	3.7	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	32.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4582940	1.70	4716000	**97.2**	30	-	120	
45	Sc	1	567482	1.01	659800	**86.0**	30	-	120	
45	Sc	2	244125	1.93	256100	**95.3**	30	-	120	
74	Ge	1	442824	1.84	495700	**89.3**	30	-	120	
74	Ge	2	365773	1.42	370200	**98.8**	30	-	120	
74	Ge	3	1428866	0.69	1354000	**105.5**	30	-	120	
103	Rh	2	698426	0.83	687700	**101.6**	30	-	120	
103	Rh	3	1292636	1.68	1280000	**101.0**	30	-	120	
165	Ho	3	2661152	0.86	2556000	**104.1**	30	-	120	
175	Lu	3	2983776	0.63	2887000	**103.4**	30	-	120	
209	Bi	3	6212590	1.60	5936000	**104.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\067SMPL.D\067SMPL.D#
Date Acquired: Jun 2 2010 06:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64624/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.961**	ug/l	98.05	8.3	450	6	P	
23	**Na**	2	**385.800**	ug/l	19,290.00	1.1	450000	45	P	
24	**Mg**	2	**399.900**	ug/l	19,995.00	1.0	450000	45	P	
27	**Al**	2	**75.530**	ug/l	3,776.50	0.5	450000	45	P	
31	**P**	2	**360.900**	ug/l	18,045.00	1.3	450000	45	P	
39	**K**	2	**372.600**	ug/l	18,630.00	1.8	450000	45	P	
40	**Ca**	1	**410.000**	ug/l	20,500.00	1.0	450000	45	P	
47	**Ti**	2	**94.870**	ug/l	4,743.50	0.8	4500	45	P	
51	**V**	2	**19.850**	ug/l	992.50	2.7	4500	45	P	
52	**Cr**	2	**8.076**	ug/l	403.80	3.6	4500	45	P	
54	**Fe**	1	**445.500**	ug/l	22,275.00	1.6	450000	74	P	
55	**Mn**	2	**20.090**	ug/l	1,004.50	0.4	15000	45	P	
59	**Co**	2	**20.680**	ug/l	1,034.00	1.1	4500	45	P	
60	**Ni**	2	**20.810**	ug/l	1,040.50	0.5	15000	45	P	
63	**Cu**	2	**10.750**	ug/l	537.50	0.0	15000	45	P	
66	**Zn**	2	**20.630**	ug/l	1,031.50	7.5	15000	45	P	
75	**As**	2	**78.640**	ug/l	3,932.00	0.5	4500	74	P	
78	**Se**	1	**78.210**	ug/l	3,910.50	0.7	450	74	P	
88	**Sr**	3	**0.004**	ug/l	0.20	74.1	4500	74	P	
95	**Mo**	3	**99.330**	ug/l	4,966.50	5.4	4500	74	P	
107	**Ag**	3	**11.780**	ug/l	589.00	2.6	450	103	P	
111	**Cd**	3	**1.875**	ug/l	93.75	7.0	900	103	P	
118	**Sn**	3	**98.430**	ug/l	4,921.50	5.3	4500	103	P	
121	**Sb**	3	**56.100**	ug/l	2,805.00	4.2	4500	103	P	
135	**Ba**	3	**77.000**	ug/l	3,850.00	4.4	4500	103	P	
200	**Hg**	3	**0.989**	ug/l	49.44	4.2	45	209	P	
205	**Tl**	3	**77.200**	ug/l	3,860.00	5.0	4500	209	A	
208	**Pb**	3	**19.740**	ug/l	987.00	4.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	80.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4573589	1.42	4716000	**97.0**	30	-	120	
45	Sc	1	569230	0.42	659800	**86.3**	30	-	120	
45	Sc	2	246234	0.36	256100	**96.1**	30	-	120	
74	Ge	1	446297	1.01	495700	**90.0**	30	-	120	
74	Ge	2	363515	0.44	370200	**98.2**	30	-	120	
74	Ge	3	1407543	0.48	1354000	**104.0**	30	-	120	
103	Rh	2	696618	1.30	687700	**101.3**	30	-	120	
103	Rh	3	1315233	1.52	1280000	**102.8**	30	-	120	
165	Ho	3	2700334	1.46	2556000	**105.6**	30	-	120	
175	Lu	3	3022049	0.95	2887000	**104.7**	30	-	120	
209	Bi	3	6254731	1.26	5936000	**105.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\068SMPL.D\068SMPL.D#
Date Acquired: Jun 2 2010 07:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64624/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**97.220**	ug/l	1,944.40	1.6	450	6	P	
23	**Na**	2	**302.000**	ug/l	6,040.00	1.2	450000	45	P	
24	**Mg**	2	**2470.000**	ug/l	49,400.00	0.7	450000	45	A	
27	**Al**	2	**5919.000**	ug/l	118,380.00	1.9	450000	45	A	
31	**P**	2	**415.600**	ug/l	8,312.00	3.1	450000	45	P	
39	**K**	2	**2329.000**	ug/l	46,580.00	1.5	450000	45	A	
40	**Ca**	1	**5577.000**	ug/l	111,540.00	0.9	450000	45	A	
47	**Ti**	2	**276.100**	ug/l	5,522.00	0.7	4500	45	P	
51	**V**	2	**58.220**	ug/l	1,164.40	1.3	4500	45	P	
52	**Cr**	2	**75.740**	ug/l	1,514.80	0.3	4500	45	P	
54	**Fe**	1	**10800.000**	ug/l	216,000.00	1.8	450000	74	A	
55	**Mn**	2	**218.000**	ug/l	4,360.00	0.7	15000	45	P	
59	**Co**	2	**73.450**	ug/l	1,469.00	1.1	4500	45	P	
60	**Ni**	2	**109.000**	ug/l	2,180.00	2.7	15000	45	P	
63	**Cu**	2	**41.920**	ug/l	838.40	2.1	15000	45	P	
66	**Zn**	2	**217.900**	ug/l	4,358.00	0.6	15000	45	P	
75	**As**	2	**136.500**	ug/l	2,730.00	1.6	4500	74	P	
78	**Se**	1	**88.950**	ug/l	1,779.00	0.3	450	74	P	
88	**Sr**	3	**74.350**	ug/l	1,487.00	1.0	4500	74	P	
95	**Mo**	3	**68.140**	ug/l	1,362.80	2.9	4500	74	P	
107	**Ag**	3	**21.570**	ug/l	431.40	0.4	450	103	P	
111	**Cd**	3	**41.030**	ug/l	820.60	2.7	900	103	P	
118	**Sn**	3	**103.600**	ug/l	2,072.00	1.8	4500	103	P	
121	**Sb**	3	**85.370**	ug/l	1,707.40	1.2	4500	103	P	
135	**Ba**	3	**335.800**	ug/l	6,716.00	1.4	4500	103	P	
200	**Hg**	3	**2.991**	ug/l	59.82	3.8	45	209	P	
205	**Tl**	3	**105.000**	ug/l	2,100.00	0.9	4500	209	A	
208	**Pb**	3	**130.300**	ug/l	2,606.00	0.6	4500	209	A	
238	**U**	3	**1.055**	ug/l	21.10	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5069649	1.51	4716000	**107.5**	30	-	120	
45	Sc	1	608630	1.30	659800	**92.2**	30	-	120	
45	Sc	2	264037	0.63	256100	**103.1**	30	-	120	
74	Ge	1	464763	0.97	495700	**93.8**	30	-	120	
74	Ge	2	383840	1.14	370200	**103.7**	30	-	120	
74	Ge	3	1536366	1.02	1354000	**113.5**	30	-	120	
103	Rh	2	716385	0.69	687700	**104.2**	30	-	120	
103	Rh	3	1389905	0.43	1280000	**108.6**	30	-	120	
165	Ho	3	2821276	1.44	2556000	**110.4**	30	-	120	
175	Lu	3	3113653	1.07	2887000	**107.9**	30	-	120	
209	Bi	3	6363411	0.84	5936000	**107.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\069SMPL.D\069SMPL.D#
Date Acquired: Jun 2 2010 07:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.360**	ug/l	48.36	5.8	450	6	P	
23	**Na**	2	**4764.000**	ug/l	4,764.00	0.6	450000	45	A	
24	**Mg**	2	**4833.000**	ug/l	4,833.00	1.7	450000	45	A	
27	**Al**	2	**472.700**	ug/l	472.70	1.1	450000	45	P	
31	**P**	2	**4788.000**	ug/l	4,788.00	0.8	450000	45	P	
39	**K**	2	**4850.000**	ug/l	4,850.00	0.5	450000	45	A	
40	**Ca**	1	**4898.000**	ug/l	4,898.00	1.3	450000	45	A	
47	**Ti**	2	**49.180**	ug/l	49.18	1.9	4500	45	P	
51	**V**	2	**49.420**	ug/l	49.42	1.0	4500	45	P	
52	**Cr**	2	**50.630**	ug/l	50.63	1.2	4500	45	P	
54	**Fe**	1	**5172.000**	ug/l	5,172.00	1.3	450000	74	P	
55	**Mn**	2	**50.320**	ug/l	50.32	1.4	15000	45	P	
59	**Co**	2	**51.800**	ug/l	51.80	1.3	4500	45	P	
60	**Ni**	2	**51.590**	ug/l	51.59	1.5	15000	45	P	
63	**Cu**	2	**51.360**	ug/l	51.36	1.5	15000	45	P	
66	**Zn**	2	**50.530**	ug/l	50.53	3.0	15000	45	P	
75	**As**	2	**49.890**	ug/l	49.89	1.4	4500	74	P	
78	**Se**	1	**50.510**	ug/l	50.51	3.4	450	74	P	
88	**Sr**	3	**50.060**	ug/l	50.06	4.3	4500	74	P	
95	**Mo**	3	**50.430**	ug/l	50.43	4.7	4500	74	P	
107	**Ag**	3	**50.160**	ug/l	50.16	2.6	450	103	P	
111	**Cd**	3	**50.200**	ug/l	50.20	4.6	900	103	P	
118	**Sn**	3	**49.630**	ug/l	49.63	6.6	4500	103	P	
121	**Sb**	3	**49.160**	ug/l	49.16	4.6	4500	103	P	
135	**Ba**	3	**49.660**	ug/l	49.66	5.0	4500	103	P	
200	**Hg**	3	**2.740**	ug/l	2.74	2.7	45	209	P	
205	**Tl**	3	**50.310**	ug/l	50.31	7.1	4500	209	P	
208	**Pb**	3	**50.180**	ug/l	50.18	4.5	4500	209	P	
238	**U**	3	**49.910**	ug/l	49.91	6.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5202505	1.12	4716000	**110.3**	30	-	120	
45	Sc	1	593941	1.73	659800	**90.0**	30	-	120	
45	Sc	2	267485	1.55	256100	**104.4**	30	-	120	
74	Ge	1	465825	3.11	495700	**94.0**	30	-	120	
74	Ge	2	392167	0.73	370200	**105.9**	30	-	120	
74	Ge	3	1549261	2.14	1354000	**114.4**	30	-	120	
103	Rh	2	730542	1.58	687700	**106.2**	30	-	120	
103	Rh	3	1386756	0.07	1280000	**108.3**	30	-	120	
165	Ho	3	2783034	1.06	2556000	**108.9**	30	-	120	
175	Lu	3	3129506	1.27	2887000	**108.4**	30	-	120	
209	Bi	3	6329264	1.80	5936000	**106.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\070SMPL.D\070SMPL.D#
Date Acquired: Jun 2 2010 07:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.01	55.2	450	6	P	
23	**Na**	2	**-26.570**	ug/l	-26.57	2.2	450000	45	P	
24	**Mg**	2	**2.100**	ug/l	2.10	26.7	450000	45	P	
27	**Al**	2	**0.125**	ug/l	0.13	108.0	450000	45	P	
31	**P**	2	**-15.060**	ug/l	-15.06	11.5	450000	45	P	
39	**K**	2	**-32.770**	ug/l	-32.77	6.9	450000	45	P	
40	**Ca**	1	**0.391**	ug/l	0.39	67.4	450000	45	P	
47	**Ti**	2	**0.024**	ug/l	0.02	46.8	4500	45	P	
51	**V**	2	**-0.078**	ug/l	-0.08	11.3	4500	45	P	
52	**Cr**	2	**-0.006**	ug/l	-0.01	540.0	4500	45	P	
54	**Fe**	1	**0.623**	ug/l	0.62	48.6	450000	74	P	
55	**Mn**	2	**0.010**	ug/l	0.01	80.1	15000	45	P	
59	**Co**	2	**0.010**	ug/l	0.01	58.9	4500	45	P	
60	**Ni**	2	**-0.001**	ug/l	0.00	2079.1	15000	45	P	
63	**Cu**	2	**-0.019**	ug/l	-0.02	141.9	15000	45	P	
66	**Zn**	2	**0.062**	ug/l	0.06	110.2	15000	45	P	
75	**As**	2	**-0.018**	ug/l	-0.02	128.4	4500	74	P	
78	**Se**	1	**0.012**	ug/l	0.01	5.2	450	74	P	
88	**Sr**	3	**0.006**	ug/l	0.01	15.3	4500	74	P	
95	**Mo**	3	**0.022**	ug/l	0.02	16.8	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	39.7	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	477.2	900	103	P	
118	**Sn**	3	**0.087**	ug/l	0.09	22.5	4500	103	P	
121	**Sb**	3	**0.063**	ug/l	0.06	23.6	4500	103	P	
135	**Ba**	3	**0.008**	ug/l	0.01	247.8	4500	103	P	
200	**Hg**	3	**0.286**	ug/l	0.29	10.3	45	209	P	
205	**Tl**	3	**0.359**	ug/l	0.36	5.1	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	21.3	4500	209	P	
238	**U**	3	**0.008**	ug/l	0.01	25.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5188392	2.46	4716000	**110.0**	30	-	120	
45	Sc	1	611755	1.52	659800	**92.7**	30	-	120	
45	Sc	2	276736	0.80	256100	**108.1**	30	-	120	
74	Ge	1	483845	1.79	495700	**97.6**	30	-	120	
74	Ge	2	406531	1.06	370200	**109.8**	30	-	120	
74	Ge	3	1598836	0.81	1354000	**118.1**	30	-	120	
103	Rh	2	775726	1.92	687700	**112.8**	30	-	120	
103	Rh	3	1448583	0.78	1280000	**113.2**	30	-	120	
165	Ho	3	2842870	1.38	2556000	**111.2**	30	-	120	
175	Lu	3	3122149	0.85	2887000	**108.1**	30	-	120	
209	Bi	3	6571154	0.48	5936000	**110.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\071SMPL.D\071SMPL.D#
Date Acquired: Jun 2 2010 07:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-34-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.23	15.8	450	6	P	
23	**Na**	2	**1.290**	ug/l	12.90	150.8	450000	45	P	
24	**Mg**	2	**376100.000**	ug/l	3,761,000.00	0.9	450000	45	A	
27	**Al**	2	**2978.000**	ug/l	29,780.00	1.3	450000	45	P	
31	**P**	2	**56.160**	ug/l	561.60	6.8	450000	45	P	
39	**K**	2	**29.310**	ug/l	293.10	12.4	450000	45	P	
40	**Ca**	1	**1817.000**	ug/l	18,170.00	1.1	450000	45	A	
47	**Ti**	2	**21.440**	ug/l	214.40	1.4	4500	45	P	
51	**V**	2	**35.500**	ug/l	355.00	0.7	4500	45	P	
52	**Cr**	2	**1608.000**	ug/l	16,080.00	0.9	4500	45	A	
54	**Fe**	1	**110900.000**	ug/l	1,109,000.00	0.3	450000	74	A	
55	**Mn**	2	**1818.000**	ug/l	18,180.00	3.1	15000	45	A	
59	**Co**	2	**208.400**	ug/l	2,084.00	0.6	4500	45	P	
60	**Ni**	2	**3953.000**	ug/l	39,530.00	0.9	15000	45	A	
63	**Cu**	2	**15.940**	ug/l	159.40	1.2	15000	45	P	
66	**Zn**	2	**54.650**	ug/l	546.50	3.6	15000	45	P	
75	**As**	2	**1.161**	ug/l	11.61	6.8	4500	74	P	
78	**Se**	1	**0.160**	ug/l	1.60	24.4	450	74	P	
88	**Sr**	3	**1.358**	ug/l	13.58	3.7	4500	74	P	
95	**Mo**	3	**0.149**	ug/l	1.49	23.2	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.14	40.0	450	103	P	
111	**Cd**	3	**0.059**	ug/l	0.59	72.7	900	103	P	
118	**Sn**	3	**0.341**	ug/l	3.41	3.9	4500	103	P	
121	**Sb**	3	**0.138**	ug/l	1.38	2.9	4500	103	P	
135	**Ba**	3	**10.740**	ug/l	107.40	4.1	4500	103	P	
200	**Hg**	3	**5.766**	ug/l	57.66	3.2	45	209	P	
205	**Tl**	3	**0.199**	ug/l	1.99	2.7	4500	209	P	
208	**Pb**	3	**15.250**	ug/l	152.50	4.2	4500	209	P	
238	**U**	3	**0.023**	ug/l	0.23	4.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4389515	1.55	4716000	**93.1**	30	-	120	
45	Sc	1	625631	1.56	659800	**94.8**	30	-	120	
45	Sc	2	257912	1.95	256100	**100.7**	30	-	120	
74	Ge	1	429316	1.01	495700	**86.6**	30	-	120	
74	Ge	2	336275	1.85	370200	**90.8**	30	-	120	
74	Ge	3	1353357	2.29	1354000	**100.0**	30	-	120	
103	Rh	2	609972	0.64	687700	**88.7**	30	-	120	
103	Rh	3	1199681	1.25	1280000	**93.7**	30	-	120	
165	Ho	3	2485799	1.77	2556000	**97.3**	30	-	120	
175	Lu	3	2804858	0.73	2887000	**97.2**	30	-	120	
209	Bi	3	5326508	1.20	5936000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\072SMPL.D\072SMPL.D#
Date Acquired: Jun 2 2010 07:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-35-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	34.1	450	6	P	
23	**Na**	2	**16.660**	ug/l	166.60	14.5	450000	45	P	
24	**Mg**	2	**364800.000**	ug/l	3,648,000.00	0.8	450000	45	A	
27	**Al**	2	**3198.000**	ug/l	31,980.00	1.2	450000	45	P	
31	**P**	2	**45.790**	ug/l	457.90	16.3	450000	45	P	
39	**K**	2	**-3.180**	ug/l	-31.80	70.3	450000	45	P	
40	**Ca**	1	**5977.000**	ug/l	59,770.00	0.5	450000	45	A	
47	**Ti**	2	**13.590**	ug/l	135.90	1.2	4500	45	P	
51	**V**	2	**38.070**	ug/l	380.70	1.0	4500	45	P	
52	**Cr**	2	**1739.000**	ug/l	17,390.00	2.0	4500	45	A	
54	**Fe**	1	**102900.000**	ug/l	1,029,000.00	0.5	450000	74	A	
55	**Mn**	2	**1541.000**	ug/l	15,410.00	1.4	15000	45	A	
59	**Co**	2	**183.000**	ug/l	1,830.00	0.9	4500	45	P	
60	**Ni**	2	**3711.000**	ug/l	37,110.00	2.0	15000	45	A	
63	**Cu**	2	**16.110**	ug/l	161.10	1.3	15000	45	P	
66	**Zn**	2	**71.680**	ug/l	716.80	2.5	15000	45	P	
75	**As**	2	**0.470**	ug/l	4.70	17.6	4500	74	P	
78	**Se**	1	**0.065**	ug/l	0.65	17.2	450	74	P	
88	**Sr**	3	**1.108**	ug/l	11.08	4.2	4500	74	P	
95	**Mo**	3	**0.051**	ug/l	0.51	42.8	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.13	27.4	450	103	P	
111	**Cd**	3	**0.103**	ug/l	1.03	16.4	900	103	P	
118	**Sn**	3	**0.308**	ug/l	3.08	1.4	4500	103	P	
121	**Sb**	3	**0.101**	ug/l	1.01	17.1	4500	103	P	
135	**Ba**	3	**7.039**	ug/l	70.39	2.7	4500	103	P	
200	**Hg**	3	**25.060**	ug/l	250.60	2.8	45	209	P	
205	**Tl**	3	**0.152**	ug/l	1.52	11.1	4500	209	P	
208	**Pb**	3	**19.670**	ug/l	196.70	3.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.12	15.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3990275	0.78	4716000	**84.6**	30	-	120	
45	Sc	1	575216	2.25	659800	**87.2**	30	-	120	
45	Sc	2	246015	1.53	256100	**96.1**	30	-	120	
74	Ge	1	401938	1.31	495700	**81.1**	30	-	120	
74	Ge	2	331402	1.28	370200	**89.5**	30	-	120	
74	Ge	3	1352781	0.57	1354000	**99.9**	30	-	120	
103	Rh	2	607423	0.67	687700	**88.3**	30	-	120	
103	Rh	3	1206342	0.51	1280000	**94.2**	30	-	120	
165	Ho	3	2601834	0.72	2556000	**101.8**	30	-	120	
175	Lu	3	2907178	2.15	2887000	**100.7**	30	-	120	
209	Bi	3	5441021	0.48	5936000	**91.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\073SMPL.D\073SMPL.D#
Date Acquired: Jun 2 2010 07:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-36-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.258**	ug/l	2.58	9.7	450	6	P	
23	**Na**	2	**24.740**	ug/l	247.40	10.8	450000	45	P	
24	**Mg**	2	**379500.000**	ug/l	3,795,000.00	1.0	450000	45	A	
27	**Al**	2	**8027.000**	ug/l	80,270.00	1.4	450000	45	A	
31	**P**	2	**105.200**	ug/l	1,052.00	13.3	450000	45	P	
39	**K**	2	**241.800**	ug/l	2,418.00	1.5	450000	45	P	
40	**Ca**	1	**4441.000**	ug/l	44,410.00	0.2	450000	45	A	
47	**Ti**	2	**28.050**	ug/l	280.50	3.0	4500	45	P	
51	**V**	2	**51.490**	ug/l	514.90	1.3	4500	45	P	
52	**Cr**	2	**1258.000**	ug/l	12,580.00	1.8	4500	45	A	
54	**Fe**	1	**116200.000**	ug/l	1,162,000.00	1.0	450000	74	A	
55	**Mn**	2	**1810.000**	ug/l	18,100.00	1.1	15000	45	A	
59	**Co**	2	**220.700**	ug/l	2,207.00	0.6	4500	45	P	
60	**Ni**	2	**4301.000**	ug/l	43,010.00	0.8	15000	45	A	
63	**Cu**	2	**27.340**	ug/l	273.40	0.3	15000	45	P	
66	**Zn**	2	**87.250**	ug/l	872.50	2.5	15000	45	P	
75	**As**	2	**2.446**	ug/l	24.46	4.8	4500	74	P	
78	**Se**	1	**0.076**	ug/l	0.76	42.2	450	74	P	
88	**Sr**	3	**13.190**	ug/l	131.90	4.5	4500	74	P	
95	**Mo**	3	**0.208**	ug/l	2.08	24.9	4500	74	P	
107	**Ag**	3	**0.033**	ug/l	0.33	11.0	450	103	P	
111	**Cd**	3	**0.167**	ug/l	1.67	29.8	900	103	P	
118	**Sn**	3	**0.596**	ug/l	5.96	13.3	4500	103	P	
121	**Sb**	3	**0.232**	ug/l	2.32	8.5	4500	103	P	
135	**Ba**	3	**65.410**	ug/l	654.10	3.3	4500	103	P	
200	**Hg**	3	**604.800**	ug/l	6,048.00	2.1	45	209	P	Fail
205	**Tl**	3	**0.194**	ug/l	1.94	9.3	4500	209	P	
208	**Pb**	3	**7.171**	ug/l	71.71	2.8	4500	209	P	
238	**U**	3	**0.169**	ug/l	1.69	6.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3821798	0.40	4716000	**81.0**	30	-	120	
45	Sc	1	564102	2.74	659800	**85.5**	30	-	120	
45	Sc	2	244034	0.96	256100	**95.3**	30	-	120	
74	Ge	1	385550	1.34	495700	**77.8**	30	-	120	
74	Ge	2	323706	0.10	370200	**87.4**	30	-	120	
74	Ge	3	1306710	1.10	1354000	**96.5**	30	-	120	
103	Rh	2	601730	1.13	687700	**87.5**	30	-	120	
103	Rh	3	1178790	0.95	1280000	**92.1**	30	-	120	
165	Ho	3	2566843	1.03	2556000	**100.4**	30	-	120	
175	Lu	3	2889738	0.53	2887000	**100.1**	30	-	120	
209	Bi	3	5442393	0.89	5936000	**91.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\074SMPL.D\074SMPL.D#
Date Acquired: Jun 2 2010 07:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-5-A Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.123**	ug/l	1.23	3.5	450	6	P	
23	**Na**	2	**23.170**	ug/l	231.70	16.5	450000	45	P	
24	**Mg**	2	**19260.000**	ug/l	192,600.00	1.8	450000	45	A	
27	**Al**	2	**844.200**	ug/l	8,442.00	0.7	450000	45	P	
31	**P**	2	**29.200**	ug/l	292.00	15.1	450000	45	P	
39	**K**	2	**78.700**	ug/l	787.00	3.1	450000	45	P	
40	**Ca**	1	**6195.000**	ug/l	61,950.00	1.7	450000	45	A	
47	**Ti**	2	**15.770**	ug/l	157.70	2.5	4500	45	P	
51	**V**	2	**3.271**	ug/l	32.71	1.9	4500	45	P	
52	**Cr**	2	**146.300**	ug/l	1,463.00	1.4	4500	45	P	
54	**Fe**	1	**389800.000**	ug/l	3,898,000.00	0.4	450000	74	A	
55	**Mn**	2	**14860.000**	ug/l	148,600.00	1.5	15000	45	A	
59	**Co**	2	**1133.000**	ug/l	11,330.00	1.4	4500	45	A	
60	**Ni**	2	**9634.000**	ug/l	96,340.00	1.2	15000	45	A	
63	**Cu**	2	**2.489**	ug/l	24.89	0.9	15000	45	P	
66	**Zn**	2	**281.700**	ug/l	2,817.00	1.8	15000	45	P	
75	**As**	2	**1.812**	ug/l	18.12	1.0	4500	74	P	
78	**Se**	1	**0.053**	ug/l	0.53	136.1	450	74	P	
88	**Sr**	3	**153.300**	ug/l	1,533.00	2.8	4500	74	A	
95	**Mo**	3	**0.131**	ug/l	1.31	32.1	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	62.2	450	103	P	
111	**Cd**	3	**0.128**	ug/l	1.28	41.5	900	103	P	
118	**Sn**	3	**0.088**	ug/l	0.88	20.6	4500	103	P	
121	**Sb**	3	**0.049**	ug/l	0.49	17.3	4500	103	P	
135	**Ba**	3	**185.500**	ug/l	1,855.00	4.1	4500	103	P	
200	**Hg**	3	**4.824**	ug/l	48.24	3.7	45	209	P	
205	**Tl**	3	**0.109**	ug/l	1.09	12.1	4500	209	P	
208	**Pb**	3	**0.362**	ug/l	3.62	5.7	4500	209	P	
238	**U**	3	**0.017**	ug/l	0.17	17.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3547694	0.40	4716000	**75.2**	30	-	120	
45	Sc	1	483939	1.22	659800	**73.3**	30	-	120	
45	Sc	2	202506	1.20	256100	**79.1**	30	-	120	
74	Ge	1	360814	0.10	495700	**72.8**	30	-	120	
74	Ge	2	300413	0.75	370200	**81.1**	30	-	120	
74	Ge	3	1211891	1.47	1354000	**89.5**	30	-	120	
103	Rh	2	576694	0.98	687700	**83.9**	30	-	120	
103	Rh	3	1126776	0.88	1280000	**88.0**	30	-	120	
165	Ho	3	2443342	0.49	2556000	**95.6**	30	-	120	
175	Lu	3	2780647	0.36	2887000	**96.3**	30	-	120	
209	Bi	3	5468423	0.40	5936000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\075SMPL.D\075SMPL.D#
Date Acquired: Jun 2 2010 07:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-6-A Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.650**	ug/l	6.50	1.5	450	6	P	
23	**Na**	2	**61.340**	ug/l	613.40	2.6	450000	45	P	
24	**Mg**	2	**79240.000**	ug/l	792,400.00	1.2	450000	45	A	
27	**Al**	2	**25620.000**	ug/l	256,200.00	2.2	450000	45	A	
31	**P**	2	**919.200**	ug/l	9,192.00	0.9	450000	45	P	
39	**K**	2	**949.500**	ug/l	9,495.00	0.9	450000	45	P	
40	**Ca**	1	**9996.000**	ug/l	99,960.00	0.5	450000	45	A	
47	**Ti**	2	**749.800**	ug/l	7,498.00	1.6	4500	45	P	
51	**V**	2	**92.090**	ug/l	920.90	1.5	4500	45	P	
52	**Cr**	2	**296.100**	ug/l	2,961.00	0.8	4500	45	P	
54	**Fe**	1	**76160.000**	ug/l	761,600.00	1.1	450000	74	A	
55	**Mn**	2	**1299.000**	ug/l	12,990.00	1.2	15000	45	A	
59	**Co**	2	**64.890**	ug/l	648.90	1.4	4500	45	P	
60	**Ni**	2	**953.700**	ug/l	9,537.00	1.2	15000	45	P	
63	**Cu**	2	**49.270**	ug/l	492.70	0.7	15000	45	P	
66	**Zn**	2	**120.600**	ug/l	1,206.00	2.2	15000	45	P	
75	**As**	2	**10.830**	ug/l	108.30	3.3	4500	74	P	
78	**Se**	1	**0.109**	ug/l	1.09	86.1	450	74	P	
88	**Sr**	3	**53.020**	ug/l	530.20	3.5	4500	74	P	
95	**Mo**	3	**0.624**	ug/l	6.24	7.1	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	9.1	450	103	P	
111	**Cd**	3	**0.307**	ug/l	3.07	11.1	900	103	P	
118	**Sn**	3	**0.596**	ug/l	5.96	3.2	4500	103	P	
121	**Sb**	3	**0.448**	ug/l	4.48	3.4	4500	103	P	
135	**Ba**	3	**217.500**	ug/l	2,175.00	2.0	4500	103	P	
200	**Hg**	3	**30.390**	ug/l	303.90	2.4	45	209	P	
205	**Tl**	3	**0.136**	ug/l	1.36	6.4	4500	209	P	
208	**Pb**	3	**12.970**	ug/l	129.70	4.0	4500	209	P	
238	**U**	3	**0.468**	ug/l	4.68	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4423894	1.52	4716000	**93.8**	30	-	120	
45	Sc	1	574120	1.05	659800	**87.0**	30	-	120	
45	Sc	2	250100	1.48	256100	**97.7**	30	-	120	
74	Ge	1	410996	1.99	495700	**82.9**	30	-	120	
74	Ge	2	345731	0.73	370200	**93.4**	30	-	120	
74	Ge	3	1408411	1.31	1354000	**104.0**	30	-	120	
103	Rh	2	635767	1.37	687700	**92.4**	30	-	120	
103	Rh	3	1247104	1.91	1280000	**97.4**	30	-	120	
165	Ho	3	2648320	1.01	2556000	**103.6**	30	-	120	
175	Lu	3	2962353	1.02	2887000	**102.6**	30	-	120	
209	Bi	3	5737535	0.22	5936000	**96.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\076SMPL.D\076SMPL.D#
Date Acquired: Jun 2 2010 07:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-7-A Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.01	141.1	450	6	P	
23	**Na**	2	**50.290**	ug/l	502.90	9.1	450000	45	P	
24	**Mg**	2	**315900.000**	ug/l	3,159,000.00	2.9	450000	45	A	
27	**Al**	2	**1955.000**	ug/l	19,550.00	1.4	450000	45	P	
31	**P**	2	**3.548**	ug/l	35.48	103.2	450000	45	P	
39	**K**	2	**-14.750**	ug/l	-147.50	12.1	450000	45	P	
40	**Ca**	1	**3290.000**	ug/l	32,900.00	0.5	450000	45	A	
47	**Ti**	2	**11.640**	ug/l	116.40	0.9	4500	45	P	
51	**V**	2	**23.700**	ug/l	237.00	2.8	4500	45	P	
52	**Cr**	2	**1143.000**	ug/l	11,430.00	2.2	4500	45	A	
54	**Fe**	1	**195000.000**	ug/l	1,950,000.00	0.3	450000	74	A	
55	**Mn**	2	**971.000**	ug/l	9,710.00	2.0	15000	45	A	
59	**Co**	2	**165.500**	ug/l	1,655.00	1.3	4500	45	P	
60	**Ni**	2	**3683.000**	ug/l	36,830.00	2.1	15000	45	A	
63	**Cu**	2	**12.550**	ug/l	125.50	1.0	15000	45	P	
66	**Zn**	2	**44.410**	ug/l	444.10	3.0	15000	45	P	
75	**As**	2	**0.882**	ug/l	8.82	8.5	4500	74	P	
78	**Se**	1	**0.013**	ug/l	0.13	96.2	450	74	P	
88	**Sr**	3	**97.500**	ug/l	975.00	4.5	4500	74	P	
95	**Mo**	3	**0.105**	ug/l	1.05	22.9	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	178.9	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.06	465.2	900	103	P	
118	**Sn**	3	**0.062**	ug/l	0.62	15.2	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.35	8.9	4500	103	P	
135	**Ba**	3	**36.090**	ug/l	360.90	5.9	4500	103	P	
200	**Hg**	3	**1.306**	ug/l	13.06	4.4	45	209	P	
205	**Tl**	3	**0.057**	ug/l	0.57	18.1	4500	209	P	
208	**Pb**	3	**1.014**	ug/l	10.14	4.5	4500	209	P	
238	**U**	3	**0.004**	ug/l	0.04	21.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4074242	1.56	4716000	**86.4**	30	-	120	
45	Sc	1	560721	3.14	659800	**85.0**	30	-	120	
45	Sc	2	241134	2.44	256100	**94.2**	30	-	120	
74	Ge	1	392861	2.64	495700	**79.3**	30	-	120	
74	Ge	2	324844	0.86	370200	**87.7**	30	-	120	
74	Ge	3	1326058	1.23	1354000	**97.9**	30	-	120	
103	Rh	2	604416	1.82	687700	**87.9**	30	-	120	
103	Rh	3	1184730	2.03	1280000	**92.6**	30	-	120	
165	Ho	3	2545277	1.90	2556000	**99.6**	30	-	120	
175	Lu	3	2840982	0.26	2887000	**98.4**	30	-	120	
209	Bi	3	5417128	2.00	5936000	**91.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\077SMPL.D\077SMPL.D#
Date Acquired: Jun 2 2010 08:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-B-8-A Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.516**	ug/l	15.16	1.3	450	6	P	
23	**Na**	2	**27.110**	ug/l	271.10	1.8	450000	45	P	
24	**Mg**	2	**37250.000**	ug/l	372,500.00	0.9	450000	45	A	
27	**Al**	2	**39100.000**	ug/l	391,000.00	1.0	450000	45	A	
31	**P**	2	**578.700**	ug/l	5,787.00	3.0	450000	45	P	
39	**K**	2	**1748.000**	ug/l	17,480.00	1.1	450000	45	P	
40	**Ca**	1	**3869.000**	ug/l	38,690.00	0.4	450000	45	A	
47	**Ti**	2	**1852.000**	ug/l	18,520.00	0.9	4500	45	P	
51	**V**	2	**123.900**	ug/l	1,239.00	1.6	4500	45	P	
52	**Cr**	2	**316.000**	ug/l	3,160.00	2.0	4500	45	P	
54	**Fe**	1	**76450.000**	ug/l	764,500.00	0.1	450000	74	A	
55	**Mn**	2	**1680.000**	ug/l	16,800.00	0.7	15000	45	A	
59	**Co**	2	**51.280**	ug/l	512.80	1.0	4500	45	P	
60	**Ni**	2	**459.500**	ug/l	4,595.00	1.1	15000	45	P	
63	**Cu**	2	**88.690**	ug/l	886.90	1.2	15000	45	P	
66	**Zn**	2	**138.200**	ug/l	1,382.00	2.8	15000	45	P	
75	**As**	2	**16.240**	ug/l	162.40	1.0	4500	74	P	
78	**Se**	1	**0.232**	ug/l	2.32	28.0	450	74	P	
88	**Sr**	3	**29.200**	ug/l	292.00	0.4	4500	74	P	
95	**Mo**	3	**1.295**	ug/l	12.95	2.4	4500	74	P	
107	**Ag**	3	**0.089**	ug/l	0.89	17.1	450	103	P	
111	**Cd**	3	**0.330**	ug/l	3.30	22.9	900	103	P	
118	**Sn**	3	**1.225**	ug/l	12.25	3.0	4500	103	P	
121	**Sb**	3	**1.217**	ug/l	12.17	8.4	4500	103	P	
135	**Ba**	3	**474.500**	ug/l	4,745.00	0.8	4500	103	P	
200	**Hg**	3	**0.687**	ug/l	6.87	10.7	45	209	P	
205	**Tl**	3	**0.203**	ug/l	2.03	10.3	4500	209	P	
208	**Pb**	3	**23.550**	ug/l	235.50	1.2	4500	209	P	
238	**U**	3	**0.797**	ug/l	7.97	0.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4654129	1.46	4716000	**98.7**	30	-	120	
45	Sc	1	587238	2.33	659800	**89.0**	30	-	120	
45	Sc	2	266311	0.37	256100	**104.0**	30	-	120	
74	Ge	1	412237	2.07	495700	**83.2**	30	-	120	
74	Ge	2	356041	0.70	370200	**96.2**	30	-	120	
74	Ge	3	1469729	0.15	1354000	**108.5**	30	-	120	
103	Rh	2	660687	0.90	687700	**96.1**	30	-	120	
103	Rh	3	1301367	0.45	1280000	**101.7**	30	-	120	
165	Ho	3	2741993	0.33	2556000	**107.3**	30	-	120	
175	Lu	3	3021468	1.36	2887000	**104.7**	30	-	120	
209	Bi	3	5927769	0.44	5936000	**99.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\078SMPL.D\078SMPL.D#
Date Acquired: Jun 2 2010 08:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-18-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.121**	ug/l	11.21	2.0	450	6	P	
23	**Na**	2	**26.080**	ug/l	260.80	13.3	450000	45	P	
24	**Mg**	2	**19680.000**	ug/l	196,800.00	1.9	450000	45	A	
27	**Al**	2	**29880.000**	ug/l	298,800.00	1.4	450000	45	A	
31	**P**	2	**906.500**	ug/l	9,065.00	2.0	450000	45	P	
39	**K**	2	**3000.000**	ug/l	30,000.00	2.2	450000	45	A	
40	**Ca**	1	**4620.000**	ug/l	46,200.00	0.4	450000	45	A	
47	**Ti**	2	**94.730**	ug/l	947.30	1.1	4500	45	P	
51	**V**	2	**83.280**	ug/l	832.80	1.5	4500	45	P	
52	**Cr**	2	**196.100**	ug/l	1,961.00	0.7	4500	45	P	
54	**Fe**	1	**75340.000**	ug/l	753,400.00	0.7	450000	74	A	
55	**Mn**	2	**1262.000**	ug/l	12,620.00	1.5	15000	45	A	
59	**Co**	2	**48.660**	ug/l	486.60	1.3	4500	45	P	
60	**Ni**	2	**489.800**	ug/l	4,898.00	1.7	15000	45	P	
63	**Cu**	2	**89.060**	ug/l	890.60	1.3	15000	45	P	
66	**Zn**	2	**189.500**	ug/l	1,895.00	2.1	15000	45	P	
75	**As**	2	**19.340**	ug/l	193.40	0.4	4500	74	P	
78	**Se**	1	**0.240**	ug/l	2.40	24.5	450	74	P	
88	**Sr**	3	**31.170**	ug/l	311.70	1.0	4500	74	P	
95	**Mo**	3	**1.263**	ug/l	12.63	4.5	4500	74	P	
107	**Ag**	3	**0.179**	ug/l	1.79	6.8	450	103	P	
111	**Cd**	3	**0.281**	ug/l	2.81	3.8	900	103	P	
118	**Sn**	3	**1.526**	ug/l	15.26	1.4	4500	103	P	
121	**Sb**	3	**0.908**	ug/l	9.08	3.6	4500	103	P	
135	**Ba**	3	**472.300**	ug/l	4,723.00	0.8	4500	103	P	
200	**Hg**	3	**79.390**	ug/l	793.90	2.1	45	209	P	Fail
205	**Tl**	3	**0.163**	ug/l	1.63	7.8	4500	209	P	
208	**Pb**	3	**44.490**	ug/l	444.90	2.4	4500	209	P	
238	**U**	3	**0.409**	ug/l	4.09	2.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4949459	0.98	4716000	**105.0**	30	-	120	
45	Sc	1	589830	2.31	659800	**89.4**	30	-	120	
45	Sc	2	272624	1.86	256100	**106.5**	30	-	120	
74	Ge	1	420439	1.29	495700	**84.8**	30	-	120	
74	Ge	2	369416	1.26	370200	**99.8**	30	-	120	
74	Ge	3	1526832	0.33	1354000	**112.8**	30	-	120	
103	Rh	2	683570	0.76	687700	**99.4**	30	-	120	
103	Rh	3	1338709	1.33	1280000	**104.6**	30	-	120	
165	Ho	3	2760557	1.20	2556000	**108.0**	30	-	120	
175	Lu	3	3050273	1.16	2887000	**105.7**	30	-	120	
209	Bi	3	6031205	1.59	5936000	**101.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\079SMPL.D\079SMPL.D#
Date Acquired: Jun 2 2010 08:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-19-B Vial Number: 2509
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.386**	ug/l	3.86	3.7	450	6	P	
23	**Na**	2	**57.050**	ug/l	570.50	4.8	450000	45	P	
24	**Mg**	2	**27100.000**	ug/l	271,000.00	0.5	450000	45	A	
27	**Al**	2	**11460.000**	ug/l	114,600.00	1.3	450000	45	A	
31	**P**	2	**575.300**	ug/l	5,753.00	4.4	450000	45	P	
39	**K**	2	**975.600**	ug/l	9,756.00	0.8	450000	45	P	
40	**Ca**	1	**2784.000**	ug/l	27,840.00	0.9	450000	45	A	
47	**Ti**	2	**185.800**	ug/l	1,858.00	1.0	4500	45	P	
51	**V**	2	**56.280**	ug/l	562.80	0.7	4500	45	P	
52	**Cr**	2	**926.800**	ug/l	9,268.00	0.9	4500	45	A	
54	**Fe**	1	**123800.000**	ug/l	1,238,000.00	1.2	450000	74	A	
55	**Mn**	2	**877.400**	ug/l	8,774.00	0.3	15000	45	A	
59	**Co**	2	**145.800**	ug/l	1,458.00	0.7	4500	45	P	
60	**Ni**	2	**2151.000**	ug/l	21,510.00	0.8	15000	45	A	
63	**Cu**	2	**45.660**	ug/l	456.60	0.6	15000	45	P	
66	**Zn**	2	**95.390**	ug/l	953.90	2.0	15000	45	P	
75	**As**	2	**7.260**	ug/l	72.60	2.8	4500	74	P	
78	**Se**	1	**0.400**	ug/l	4.00	35.7	450	74	P	
88	**Sr**	3	**28.090**	ug/l	280.90	1.5	4500	74	P	
95	**Mo**	3	**0.818**	ug/l	8.18	7.6	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	8.8	450	103	P	
111	**Cd**	3	**0.220**	ug/l	2.20	31.7	900	103	P	
118	**Sn**	3	**1.670**	ug/l	16.70	2.3	4500	103	P	
121	**Sb**	3	**1.302**	ug/l	13.02	2.6	4500	103	P	
135	**Ba**	3	**524.300**	ug/l	5,243.00	2.0	4500	103	P	
200	**Hg**	3	**1254.000**	ug/l	12,540.00	0.6	45	209	A	Fail
205	**Tl**	3	**0.440**	ug/l	4.40	2.0	4500	209	P	
208	**Pb**	3	**86.050**	ug/l	860.50	1.9	4500	209	P	
238	**U**	3	**0.499**	ug/l	4.99	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4548029	1.33	4716000	**96.4**	30	-	120	
45	Sc	1	573037	1.75	659800	**86.9**	30	-	120	
45	Sc	2	263417	1.37	256100	**102.9**	30	-	120	
74	Ge	1	415083	1.26	495700	**83.7**	30	-	120	
74	Ge	2	364961	1.84	370200	**98.6**	30	-	120	
74	Ge	3	1505045	1.32	1354000	**111.2**	30	-	120	
103	Rh	2	682219	1.55	687700	**99.2**	30	-	120	
103	Rh	3	1315038	1.58	1280000	**102.7**	30	-	120	
165	Ho	3	2752421	1.64	2556000	**107.7**	30	-	120	
175	Lu	3	3056586	2.05	2887000	**105.9**	30	-	120	
209	Bi	3	6026517	0.87	5936000	**101.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\081SMPL.D\081SMPL.D#
Date Acquired: Jun 2 2010 08:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	\1\7500\h2.u
2	\1\7500\he.u
3	7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.820**	ug/l	48.82	3.8	450	6	P	
23	**Na**	2	**4717.000**	ug/l	4,717.00	2.0	450000	45	A	
24	**Mg**	2	**4775.000**	ug/l	4,775.00	0.4	450000	45	A	
27	**Al**	2	**464.500**	ug/l	464.50	0.9	450000	45	P	
31	**P**	2	**4714.000**	ug/l	4,714.00	1.2	450000	45	P	
39	**K**	2	**4827.000**	ug/l	4,827.00	1.5	450000	45	A	
40	**Ca**	1	**4796.000**	ug/l	4,796.00	0.9	450000	45	A	
47	**Ti**	2	**49.290**	ug/l	49.29	0.4	4500	45	P	
51	**V**	2	**49.560**	ug/l	49.56	2.2	4500	45	P	
52	**Cr**	2	**51.010**	ug/l	51.01	0.1	4500	45	P	
54	**Fe**	1	**5161.000**	ug/l	5,161.00	2.1	450000	74	P	
55	**Mn**	2	**50.150**	ug/l	50.15	1.0	15000	45	P	
59	**Co**	2	**51.220**	ug/l	51.22	0.8	4500	45	P	
60	**Ni**	2	**50.910**	ug/l	50.91	0.7	15000	45	P	
63	**Cu**	2	**51.880**	ug/l	51.88	0.8	15000	45	P	
66	**Zn**	2	**50.420**	ug/l	50.42	2.5	15000	45	P	
75	**As**	2	**49.550**	ug/l	49.55	1.2	4500	74	P	
78	**Se**	1	**50.860**	ug/l	50.86	1.9	450	74	P	
88	**Sr**	3	**50.930**	ug/l	50.93	3.5	4500	74	P	
95	**Mo**	3	**50.510**	ug/l	50.51	2.8	4500	74	P	
107	**Ag**	3	**49.540**	ug/l	49.54	2.5	450	103	P	
111	**Cd**	3	**49.170**	ug/l	49.17	4.6	900	103	P	
118	**Sn**	3	**49.630**	ug/l	49.63	6.0	4500	103	P	
121	**Sb**	3	**49.020**	ug/l	49.02	4.6	4500	103	P	
135	**Ba**	3	**49.550**	ug/l	49.55	3.1	4500	103	P	
200	**Hg**	3	**3.946**	ug/l	3.95	2.1	45	209	P	
205	**Tl**	3	**50.130**	ug/l	50.13	3.9	4500	209	P	
208	**Pb**	3	**50.570**	ug/l	50.57	2.3	4500	209	P	
238	**U**	3	**50.160**	ug/l	50.16	4.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5178174	1.37	4716000	**109.8**	30	-	120	
45	Sc	1	554814	0.61	659800	**84.1**	30	-	120	
45	Sc	2	258269	0.43	256100	**100.8**	30	-	120	
74	Ge	1	434925	1.61	495700	**87.7**	30	-	120	
74	Ge	2	377329	1.32	370200	**101.9**	30	-	120	
74	Ge	3	1549367	1.68	1354000	**114.4**	30	-	120	
103	Rh	2	706036	0.55	687700	**102.7**	30	-	120	
103	Rh	3	1399917	1.75	1280000	**109.4**	30	-	120	
165	Ho	3	2810012	0.61	2556000	**109.9**	30	-	120	
175	Lu	3	3080340	0.97	2887000	**106.7**	30	-	120	
209	Bi	3	6254217	0.23	5936000	**105.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\082SMPL.D\082SMPL.D#
Date Acquired: Jun 2 2010 08:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.01	49.4	450	6	P	
23	**Na**	2	**-27.590**	ug/l	-27.59	5.4	450000	45	P	
24	**Mg**	2	**3.683**	ug/l	3.68	16.6	450000	45	P	
27	**Al**	2	**0.206**	ug/l	0.21	87.1	450000	45	P	
31	**P**	2	**-12.450**	ug/l	-12.45	29.6	450000	45	P	
39	**K**	2	**-30.950**	ug/l	-30.95	13.2	450000	45	P	
40	**Ca**	1	**0.350**	ug/l	0.35	92.1	450000	45	P	
47	**Ti**	2	**0.037**	ug/l	0.04	55.8	4500	45	P	
51	**V**	2	**-0.166**	ug/l	-0.17	11.1	4500	45	P	
52	**Cr**	2	**0.005**	ug/l	0.01	286.6	4500	45	P	
54	**Fe**	1	**0.308**	ug/l	0.31	220.2	450000	74	P	
55	**Mn**	2	**0.021**	ug/l	0.02	68.7	15000	45	P	
59	**Co**	2	**0.011**	ug/l	0.01	47.4	4500	45	P	
60	**Ni**	2	**0.048**	ug/l	0.05	39.4	15000	45	P	
63	**Cu**	2	**0.003**	ug/l	0.00	351.8	15000	45	P	
66	**Zn**	2	**-0.018**	ug/l	-0.02	79.8	15000	45	P	
75	**As**	2	**-0.058**	ug/l	-0.06	23.6	4500	74	P	
78	**Se**	1	**-0.004**	ug/l	0.00	6.6	450	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	58.9	4500	74	P	
95	**Mo**	3	**0.017**	ug/l	0.02	76.9	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	172.0	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.01	85.6	900	103	P	
118	**Sn**	3	**0.036**	ug/l	0.04	41.0	4500	103	P	
121	**Sb**	3	**0.022**	ug/l	0.02	15.5	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	299.4	4500	103	P	
200	**Hg**	3	**1.098**	ug/l	1.10	2.8	45	209	P	
205	**Tl**	3	**0.205**	ug/l	0.20	11.4	4500	209	P	
208	**Pb**	3	**0.010**	ug/l	0.01	26.2	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	10.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4922596	1.04	4716000	**104.4**	30	-	120	
45	Sc	1	564670	0.87	659800	**85.6**	30	-	120	
45	Sc	2	258172	0.85	256100	**100.8**	30	-	120	
74	Ge	1	444139	1.28	495700	**89.6**	30	-	120	
74	Ge	2	388280	0.52	370200	**104.9**	30	-	120	
74	Ge	3	1530069	1.48	1354000	**113.0**	30	-	120	
103	Rh	2	747123	1.00	687700	**108.6**	30	-	120	
103	Rh	3	1416793	1.40	1280000	**110.7**	30	-	120	
165	Ho	3	2829685	1.76	2556000	**110.7**	30	-	120	
175	Lu	3	3109964	1.71	2887000	**107.7**	30	-	120	
209	Bi	3	6485570	0.54	5936000	**109.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\083SMPL.D\083SMPL.D#
Date Acquired: Jun 2 2010 08:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-20-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.269**	ug/l	2.69	1.1	450	6	P	
23	**Na**	2	**60.830**	ug/l	608.30	2.8	450000	45	P	
24	**Mg**	2	**39120.000**	ug/l	391,200.00	0.9	450000	45	A	
27	**Al**	2	**9469.000**	ug/l	94,690.00	1.6	450000	45	A	
31	**P**	2	**1057.000**	ug/l	10,570.00	1.7	450000	45	P	
39	**K**	2	**1274.000**	ug/l	12,740.00	1.8	450000	45	P	
40	**Ca**	1	**29180.000**	ug/l	291,800.00	1.6	450000	45	A	
47	**Ti**	2	**301.200**	ug/l	3,012.00	0.9	4500	45	P	
51	**V**	2	**48.580**	ug/l	485.80	0.8	4500	45	P	
52	**Cr**	2	**269.100**	ug/l	2,691.00	1.0	4500	45	P	
54	**Fe**	1	**150500.000**	ug/l	1,505,000.00	1.1	450000	74	A	
55	**Mn**	2	**1327.000**	ug/l	13,270.00	2.0	15000	45	A	
59	**Co**	2	**40.850**	ug/l	408.50	1.3	4500	45	P	
60	**Ni**	2	**635.300**	ug/l	6,353.00	1.4	15000	45	P	
63	**Cu**	2	**47.320**	ug/l	473.20	1.7	15000	45	P	
66	**Zn**	2	**1726.000**	ug/l	17,260.00	0.9	15000	45	P	
75	**As**	2	**19.880**	ug/l	198.80	0.5	4500	74	P	
78	**Se**	1	**0.289**	ug/l	2.89	31.9	450	74	P	
88	**Sr**	3	**190.800**	ug/l	1,908.00	2.4	4500	74	A	
95	**Mo**	3	**2.263**	ug/l	22.63	2.9	4500	74	P	
107	**Ag**	3	**0.075**	ug/l	0.75	17.4	450	103	P	
111	**Cd**	3	**3.002**	ug/l	30.02	9.9	900	103	P	
118	**Sn**	3	**9.287**	ug/l	92.87	1.3	4500	103	P	
121	**Sb**	3	**2.395**	ug/l	23.95	0.8	4500	103	P	
135	**Ba**	3	**280.900**	ug/l	2,809.00	1.3	4500	103	P	
200	**Hg**	3	**212.200**	ug/l	2,122.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.265**	ug/l	2.65	7.9	4500	209	P	
208	**Pb**	3	**53.620**	ug/l	536.20	0.5	4500	209	P	
238	**U**	3	**0.553**	ug/l	5.53	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4617215	0.24	4716000	**97.9**	30	-	120	
45	Sc	1	550825	1.15	659800	**83.5**	30	-	120	
45	Sc	2	252972	0.35	256100	**98.8**	30	-	120	
74	Ge	1	421735	1.81	495700	**85.1**	30	-	120	
74	Ge	2	365050	1.19	370200	**98.6**	30	-	120	
74	Ge	3	1472319	1.49	1354000	**108.7**	30	-	120	
103	Rh	2	673221	0.49	687700	**97.9**	30	-	120	
103	Rh	3	1317284	1.43	1280000	**102.9**	30	-	120	
165	Ho	3	2726174	1.20	2556000	**106.7**	30	-	120	
175	Lu	3	3049248	1.15	2887000	**105.6**	30	-	120	
209	Bi	3	6111584	0.30	5936000	**103.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\084SMPL.D\084SMPL.D#
Date Acquired: Jun 2 2010 08:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-B-21-B Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.034**	ug/l	0.34	22.6	450	6	P	
23	**Na**	2	**4.665**	ug/l	46.65	78.7	450000	45	P	
24	**Mg**	2	**347.500**	ug/l	3,475.00	1.6	450000	45	P	
27	**Al**	2	**1938.000**	ug/l	19,380.00	1.0	450000	45	P	
31	**P**	2	**404.000**	ug/l	4,040.00	2.5	450000	45	P	
39	**K**	2	**184.600**	ug/l	1,846.00	1.8	450000	45	P	
40	**Ca**	1	**490.400**	ug/l	4,904.00	1.0	450000	45	P	
47	**Ti**	2	**65.310**	ug/l	653.10	4.3	4500	45	P	
51	**V**	2	**43.980**	ug/l	439.80	0.7	4500	45	P	
52	**Cr**	2	**994.000**	ug/l	9,940.00	1.6	4500	45	A	
54	**Fe**	1	**88050.000**	ug/l	880,500.00	1.2	450000	74	A	
55	**Mn**	2	**142.000**	ug/l	1,420.00	1.1	15000	45	P	
59	**Co**	2	**13.040**	ug/l	130.40	1.0	4500	45	P	
60	**Ni**	2	**185.300**	ug/l	1,853.00	0.6	15000	45	P	
63	**Cu**	2	**27.690**	ug/l	276.90	2.1	15000	45	P	
66	**Zn**	2	**17.360**	ug/l	173.60	2.6	15000	45	P	
75	**As**	2	**2.865**	ug/l	28.65	2.5	4500	74	P	
78	**Se**	1	**0.536**	ug/l	5.36	18.3	450	74	P	
88	**Sr**	3	**3.560**	ug/l	35.60	0.9	4500	74	P	
95	**Mo**	3	**0.723**	ug/l	7.23	11.9	4500	74	P	
107	**Ag**	3	**0.050**	ug/l	0.50	20.9	450	103	P	
111	**Cd**	3	**0.076**	ug/l	0.76	22.6	900	103	P	
118	**Sn**	3	**0.630**	ug/l	6.30	4.5	4500	103	P	
121	**Sb**	3	**3.669**	ug/l	36.69	2.1	4500	103	P	
135	**Ba**	3	**18.910**	ug/l	189.10	5.2	4500	103	P	
200	**Hg**	3	**180.600**	ug/l	1,806.00	0.6	45	209	P	Fail
205	**Tl**	3	**0.105**	ug/l	1.05	9.4	4500	209	P	
208	**Pb**	3	**17.840**	ug/l	178.40	0.5	4500	209	P	
238	**U**	3	**0.052**	ug/l	0.52	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4526343	1.38	4716000	**96.0**	30	-	120	
45	Sc	1	537605	2.72	659800	**81.5**	30	-	120	
45	Sc	2	238080	2.22	256100	**93.0**	30	-	120	
74	Ge	1	410255	2.66	495700	**82.8**	30	-	120	
74	Ge	2	352908	1.59	370200	**95.3**	30	-	120	
74	Ge	3	1351547	1.03	1354000	**99.8**	30	-	120	
103	Rh	2	669240	1.02	687700	**97.3**	30	-	120	
103	Rh	3	1243910	0.96	1280000	**97.2**	30	-	120	
165	Ho	3	2650062	0.55	2556000	**103.7**	30	-	120	
175	Lu	3	2958074	1.83	2887000	**102.5**	30	-	120	
209	Bi	3	6071644	0.20	5936000	**102.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\085SMPL.D\085SMPL.D#
Date Acquired: Jun 2 2010 09:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-22-B Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.995**	ug/l	9.95	0.8	450	6	P	
23	**Na**	2	**8.472**	ug/l	84.72	27.6	450000	45	P	
24	**Mg**	2	**61450.000**	ug/l	614,500.00	1.7	450000	45	A	
27	**Al**	2	**17180.000**	ug/l	171,800.00	0.6	450000	45	A	
31	**P**	2	**1059.000**	ug/l	10,590.00	1.9	450000	45	P	
39	**K**	2	**1734.000**	ug/l	17,340.00	2.0	450000	45	P	
40	**Ca**	1	**4008.000**	ug/l	40,080.00	1.7	450000	45	A	
47	**Ti**	2	**49.540**	ug/l	495.40	3.7	4500	45	P	
51	**V**	2	**86.050**	ug/l	860.50	1.0	4500	45	P	
52	**Cr**	2	**466.300**	ug/l	4,663.00	1.1	4500	45	A	
54	**Fe**	1	**105200.000**	ug/l	1,052,000.00	1.8	450000	74	A	
55	**Mn**	2	**1773.000**	ug/l	17,730.00	2.0	15000	45	A	
59	**Co**	2	**125.900**	ug/l	1,259.00	1.0	4500	45	P	
60	**Ni**	2	**2185.000**	ug/l	21,850.00	2.0	15000	45	A	
63	**Cu**	2	**91.650**	ug/l	916.50	0.4	15000	45	P	
66	**Zn**	2	**201.900**	ug/l	2,019.00	0.2	15000	45	P	
75	**As**	2	**15.780**	ug/l	157.80	1.7	4500	74	P	
78	**Se**	1	**0.410**	ug/l	4.10	14.0	450	74	P	
88	**Sr**	3	**32.990**	ug/l	329.90	1.9	4500	74	P	
95	**Mo**	3	**1.158**	ug/l	11.58	10.9	4500	74	P	
107	**Ag**	3	**0.148**	ug/l	1.48	10.4	450	103	P	
111	**Cd**	3	**0.401**	ug/l	4.01	18.0	900	103	P	
118	**Sn**	3	**3.587**	ug/l	35.87	3.0	4500	103	P	
121	**Sb**	3	**1.357**	ug/l	13.57	1.6	4500	103	P	
135	**Ba**	3	**325.200**	ug/l	3,252.00	1.1	4500	103	P	
200	**Hg**	3	**94.530**	ug/l	945.30	1.2	45	209	P	Fail
205	**Tl**	3	**0.176**	ug/l	1.76	5.3	4500	209	P	
208	**Pb**	3	**44.700**	ug/l	447.00	1.2	4500	209	P	
238	**U**	3	**0.331**	ug/l	3.31	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4628430	3.22	4716000	**98.1**	30	-	120	
45	Sc	1	565134	2.14	659800	**85.7**	30	-	120	
45	Sc	2	260163	1.86	256100	**101.6**	30	-	120	
74	Ge	1	397950	1.06	495700	**80.3**	30	-	120	
74	Ge	2	347514	1.18	370200	**93.9**	30	-	120	
74	Ge	3	1435625	2.02	1354000	**106.0**	30	-	120	
103	Rh	2	641118	1.17	687700	**93.2**	30	-	120	
103	Rh	3	1272269	0.69	1280000	**99.4**	30	-	120	
165	Ho	3	2740870	0.55	2556000	**107.2**	30	-	120	
175	Lu	3	2994426	1.82	2887000	**103.7**	30	-	120	
209	Bi	3	5872167	0.65	5936000	**98.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\086SMPL.D\086SMPL.D#
Date Acquired: Jun 2 2010 09:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-23-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.852**	ug/l	8.52	0.9	450	6	P	
23	**Na**	2	**24.000**	ug/l	240.00	11.3	450000	45	P	
24	**Mg**	2	**103100.000**	ug/l	1,031,000.00	1.4	450000	45	A	
27	**Al**	2	**22650.000**	ug/l	226,500.00	1.2	450000	45	A	
31	**P**	2	**560.500**	ug/l	5,605.00	2.8	450000	45	P	
39	**K**	2	**1317.000**	ug/l	13,170.00	0.6	450000	45	P	
40	**Ca**	1	**2450.000**	ug/l	24,500.00	0.7	450000	45	A	
47	**Ti**	2	**64.270**	ug/l	642.70	1.3	4500	45	P	
51	**V**	2	**77.870**	ug/l	778.70	0.8	4500	45	P	
52	**Cr**	2	**494.100**	ug/l	4,941.00	1.4	4500	45	A	
54	**Fe**	1	**85100.000**	ug/l	851,000.00	0.8	450000	74	A	
55	**Mn**	2	**1525.000**	ug/l	15,250.00	2.0	15000	45	A	
59	**Co**	2	**105.500**	ug/l	1,055.00	0.3	4500	45	P	
60	**Ni**	2	**1724.000**	ug/l	17,240.00	1.7	15000	45	A	
63	**Cu**	2	**67.150**	ug/l	671.50	0.2	15000	45	P	
66	**Zn**	2	**124.800**	ug/l	1,248.00	2.8	15000	45	P	
75	**As**	2	**14.480**	ug/l	144.80	2.2	4500	74	P	
78	**Se**	1	**0.311**	ug/l	3.11	3.6	450	74	P	
88	**Sr**	3	**16.620**	ug/l	166.20	1.5	4500	74	P	
95	**Mo**	3	**0.714**	ug/l	7.14	6.9	4500	74	P	
107	**Ag**	3	**0.097**	ug/l	0.97	16.4	450	103	P	
111	**Cd**	3	**0.267**	ug/l	2.67	14.0	900	103	P	
118	**Sn**	3	**0.851**	ug/l	8.51	1.3	4500	103	P	
121	**Sb**	3	**0.620**	ug/l	6.20	3.4	4500	103	P	
135	**Ba**	3	**419.300**	ug/l	4,193.00	1.2	4500	103	P	
200	**Hg**	3	**121.800**	ug/l	1,218.00	0.8	45	209	P	Fail
205	**Tl**	3	**0.131**	ug/l	1.31	7.6	4500	209	P	
208	**Pb**	3	**21.560**	ug/l	215.60	0.8	4500	209	P	
238	**U**	3	**0.202**	ug/l	2.02	5.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4639007	2.02	4716000	**98.4**	30	-	120	
45	Sc	1	555556	0.98	659800	**84.2**	30	-	120	
45	Sc	2	261052	1.15	256100	**101.9**	30	-	120	
74	Ge	1	395953	0.34	495700	**79.9**	30	-	120	
74	Ge	2	350798	0.96	370200	**94.8**	30	-	120	
74	Ge	3	1452416	1.73	1354000	**107.3**	30	-	120	
103	Rh	2	648455	1.12	687700	**94.3**	30	-	120	
103	Rh	3	1262051	0.38	1280000	**98.6**	30	-	120	
165	Ho	3	2722966	2.48	2556000	**106.5**	30	-	120	
175	Lu	3	2994040	0.59	2887000	**103.7**	30	-	120	
209	Bi	3	5743703	1.02	5936000	**96.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\087SMPL.D\087SMPL.D#
Date Acquired: Jun 2 2010 09:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-24-B Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.144**	ug/l	11.44	3.2	450	6	P	
23	**Na**	2	**28.200**	ug/l	282.00	5.6	450000	45	P	
24	**Mg**	2	**77280.000**	ug/l	772,800.00	0.9	450000	45	A	
27	**Al**	2	**32040.000**	ug/l	320,400.00	0.1	450000	45	A	
31	**P**	2	**945.500**	ug/l	9,455.00	1.7	450000	45	P	
39	**K**	2	**1795.000**	ug/l	17,950.00	1.2	450000	45	P	
40	**Ca**	1	**3745.000**	ug/l	37,450.00	0.4	450000	45	A	
47	**Ti**	2	**107.700**	ug/l	1,077.00	0.9	4500	45	P	
51	**V**	2	**108.300**	ug/l	1,083.00	0.7	4500	45	P	
52	**Cr**	2	**658.500**	ug/l	6,585.00	2.2	4500	45	A	
54	**Fe**	1	**112900.000**	ug/l	1,129,000.00	0.7	450000	74	A	
55	**Mn**	2	**2838.000**	ug/l	28,380.00	1.4	15000	45	A	
59	**Co**	2	**136.400**	ug/l	1,364.00	0.6	4500	45	P	
60	**Ni**	2	**2276.000**	ug/l	22,760.00	0.4	15000	45	A	
63	**Cu**	2	**100.100**	ug/l	1,001.00	1.2	15000	45	P	
66	**Zn**	2	**177.700**	ug/l	1,777.00	1.2	15000	45	P	
75	**As**	2	**15.580**	ug/l	155.80	3.9	4500	74	P	
78	**Se**	1	**0.571**	ug/l	5.71	31.8	450	74	P	
88	**Sr**	3	**30.870**	ug/l	308.70	0.3	4500	74	P	
95	**Mo**	3	**1.118**	ug/l	11.18	10.7	4500	74	P	
107	**Ag**	3	**0.173**	ug/l	1.73	6.0	450	103	P	
111	**Cd**	3	**0.363**	ug/l	3.63	9.7	900	103	P	
118	**Sn**	3	**1.295**	ug/l	12.95	5.9	4500	103	P	
121	**Sb**	3	**0.909**	ug/l	9.09	5.5	4500	103	P	
135	**Ba**	3	**615.600**	ug/l	6,156.00	1.7	4500	103	P	
200	**Hg**	3	**320.800**	ug/l	3,208.00	1.3	45	209	P	Fail
205	**Tl**	3	**0.182**	ug/l	1.82	5.1	4500	209	P	
208	**Pb**	3	**47.390**	ug/l	473.90	2.3	4500	209	P	
238	**U**	3	**0.331**	ug/l	3.31	4.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4566284	0.52	4716000	**96.8**	30	-	120	
45	Sc	1	564634	1.65	659800	**85.6**	30	-	120	
45	Sc	2	273204	1.26	256100	**106.7**	30	-	120	
74	Ge	1	389293	1.06	495700	**78.5**	30	-	120	
74	Ge	2	356489	1.99	370200	**96.3**	30	-	120	
74	Ge	3	1470054	0.47	1354000	**108.6**	30	-	120	
103	Rh	2	656627	1.57	687700	**95.5**	30	-	120	
103	Rh	3	1284360	1.81	1280000	**100.3**	30	-	120	
165	Ho	3	2705010	0.77	2556000	**105.8**	30	-	120	
175	Lu	3	2969796	0.47	2887000	**102.9**	30	-	120	
209	Bi	3	5828741	0.98	5936000	**98.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\088SMPL.D\088SMPL.D#
Date Acquired: Jun 2 2010 09:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-25-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.106**	ug/l	11.06	1.0	450	6	P	
23	**Na**	2	**16.380**	ug/l	163.80	2.9	450000	45	P	
24	**Mg**	2	**78930.000**	ug/l	789,300.00	0.5	450000	45	A	
27	**Al**	2	**15860.000**	ug/l	158,600.00	0.8	450000	45	A	
31	**P**	2	**642.000**	ug/l	6,420.00	0.7	450000	45	P	
39	**K**	2	**1606.000**	ug/l	16,060.00	0.1	450000	45	P	
40	**Ca**	1	**1885.000**	ug/l	18,850.00	0.8	450000	45	A	
47	**Ti**	2	**18.090**	ug/l	180.90	7.1	4500	45	P	
51	**V**	2	**80.060**	ug/l	800.60	1.3	4500	45	P	
52	**Cr**	2	**494.500**	ug/l	4,945.00	0.4	4500	45	A	
54	**Fe**	1	**136200.000**	ug/l	1,362,000.00	1.5	450000	74	A	
55	**Mn**	2	**1978.000**	ug/l	19,780.00	0.5	15000	45	A	
59	**Co**	2	**190.000**	ug/l	1,900.00	0.4	4500	45	P	
60	**Ni**	2	**3621.000**	ug/l	36,210.00	0.5	15000	45	A	
63	**Cu**	2	**75.620**	ug/l	756.20	1.2	15000	45	P	
66	**Zn**	2	**144.000**	ug/l	1,440.00	1.2	15000	45	P	
75	**As**	2	**16.880**	ug/l	168.80	3.0	4500	74	P	
78	**Se**	1	**0.472**	ug/l	4.72	22.5	450	74	P	
88	**Sr**	3	**21.050**	ug/l	210.50	0.6	4500	74	P	
95	**Mo**	3	**1.451**	ug/l	14.51	2.0	4500	74	P	
107	**Ag**	3	**0.155**	ug/l	1.55	3.0	450	103	P	
111	**Cd**	3	**0.309**	ug/l	3.09	12.6	900	103	P	
118	**Sn**	3	**1.535**	ug/l	15.35	6.4	4500	103	P	
121	**Sb**	3	**2.397**	ug/l	23.97	2.9	4500	103	P	
135	**Ba**	3	**247.500**	ug/l	2,475.00	1.9	4500	103	P	
200	**Hg**	3	**122.600**	ug/l	1,226.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.192**	ug/l	1.92	2.1	4500	209	P	
208	**Pb**	3	**48.430**	ug/l	484.30	0.3	4500	209	P	
238	**U**	3	**0.367**	ug/l	3.67	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4510062	0.23	4716000	**95.6**	30	-	120	
45	Sc	1	573075	1.76	659800	**86.9**	30	-	120	
45	Sc	2	275928	0.33	256100	**107.7**	30	-	120	
74	Ge	1	387136	2.39	495700	**78.1**	30	-	120	
74	Ge	2	356008	1.49	370200	**96.2**	30	-	120	
74	Ge	3	1455273	0.96	1354000	**107.5**	30	-	120	
103	Rh	2	659406	1.11	687700	**95.9**	30	-	120	
103	Rh	3	1301884	0.99	1280000	**101.7**	30	-	120	
165	Ho	3	2714127	0.96	2556000	**106.2**	30	-	120	
175	Lu	3	2985630	2.10	2887000	**103.4**	30	-	120	
209	Bi	3	5778590	0.44	5936000	**97.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\089SMPL.D\089SMPL.D#
Date Acquired: Jun 2 2010 09:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-26-B Vial Number: 3107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.851**	ug/l	8.51	4.6	450	6	P	
23	**Na**	2	**34.130**	ug/l	341.30	24.4	450000	45	P	
24	**Mg**	2	**81680.000**	ug/l	816,800.00	0.7	450000	45	A	
27	**Al**	2	**24000.000**	ug/l	240,000.00	2.4	450000	45	A	
31	**P**	2	**818.500**	ug/l	8,185.00	4.6	450000	45	P	
39	**K**	2	**2014.000**	ug/l	20,140.00	0.6	450000	45	A	
40	**Ca**	1	**3373.000**	ug/l	33,730.00	1.3	450000	45	A	
47	**Ti**	2	**124.600**	ug/l	1,246.00	1.9	4500	45	P	
51	**V**	2	**79.300**	ug/l	793.00	1.0	4500	45	P	
52	**Cr**	2	**349.400**	ug/l	3,494.00	1.1	4500	45	A	
54	**Fe**	1	**88760.000**	ug/l	887,600.00	2.1	450000	74	A	
55	**Mn**	2	**1411.000**	ug/l	14,110.00	0.8	15000	45	A	
59	**Co**	2	**104.200**	ug/l	1,042.00	1.1	4500	45	P	
60	**Ni**	2	**1677.000**	ug/l	16,770.00	1.6	15000	45	A	
63	**Cu**	2	**64.390**	ug/l	643.90	1.4	15000	45	P	
66	**Zn**	2	**142.500**	ug/l	1,425.00	1.4	15000	45	P	
75	**As**	2	**14.230**	ug/l	142.30	2.3	4500	74	P	
78	**Se**	1	**0.127**	ug/l	1.27	42.2	450	74	P	
88	**Sr**	3	**20.720**	ug/l	207.20	1.5	4500	74	P	
95	**Mo**	3	**0.886**	ug/l	8.86	5.0	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	18.3	450	103	P	
111	**Cd**	3	**0.293**	ug/l	2.93	5.1	900	103	P	
118	**Sn**	3	**0.877**	ug/l	8.77	8.4	4500	103	P	
121	**Sb**	3	**0.855**	ug/l	8.55	4.2	4500	103	P	
135	**Ba**	3	**407.400**	ug/l	4,074.00	1.5	4500	103	P	
200	**Hg**	3	**93.340**	ug/l	933.40	1.0	45	209	P	Fail
205	**Tl**	3	**0.133**	ug/l	1.33	2.8	4500	209	P	
208	**Pb**	3	**51.150**	ug/l	511.50	1.3	4500	209	P	
238	**U**	3	**0.312**	ug/l	3.12	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4716656	2.09	4716000	**100.0**	30	-	120	
45	Sc	1	534243	1.22	659800	**81.0**	30	-	120	
45	Sc	2	262227	0.98	256100	**102.4**	30	-	120	
74	Ge	1	377955	1.59	495700	**76.2**	30	-	120	
74	Ge	2	356870	1.00	370200	**96.4**	30	-	120	
74	Ge	3	1466223	1.84	1354000	**108.3**	30	-	120	
103	Rh	2	657829	0.73	687700	**95.7**	30	-	120	
103	Rh	3	1302557	0.43	1280000	**101.8**	30	-	120	
165	Ho	3	2721206	0.77	2556000	**106.5**	30	-	120	
175	Lu	3	2991329	0.79	2887000	**103.6**	30	-	120	
209	Bi	3	5750108	0.89	5936000	**96.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\090SMPL.D\090SMPL.D#
Date Acquired: Jun 2 2010 09:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-27-B Vial Number: 3108
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.838**	ug/l	8.38	2.7	450	6	P	
23	**Na**	2	**18.730**	ug/l	187.30	21.3	450000	45	P	
24	**Mg**	2	**71190.000**	ug/l	711,900.00	1.1	450000	45	A	
27	**Al**	2	**27910.000**	ug/l	279,100.00	0.8	450000	45	A	
31	**P**	2	**777.900**	ug/l	7,779.00	1.8	450000	45	P	
39	**K**	2	**1454.000**	ug/l	14,540.00	0.7	450000	45	P	
40	**Ca**	1	**4701.000**	ug/l	47,010.00	2.0	450000	45	A	
47	**Ti**	2	**161.400**	ug/l	1,614.00	1.5	4500	45	P	
51	**V**	2	**105.000**	ug/l	1,050.00	1.3	4500	45	P	
52	**Cr**	2	**612.200**	ug/l	6,122.00	2.3	4500	45	A	
54	**Fe**	1	**90280.000**	ug/l	902,800.00	0.3	450000	74	A	
55	**Mn**	2	**1698.000**	ug/l	16,980.00	0.9	15000	45	A	
59	**Co**	2	**108.200**	ug/l	1,082.00	0.6	4500	45	P	
60	**Ni**	2	**1805.000**	ug/l	18,050.00	0.6	15000	45	A	
63	**Cu**	2	**71.230**	ug/l	712.30	0.9	15000	45	P	
66	**Zn**	2	**132.400**	ug/l	1,324.00	0.6	15000	45	P	
75	**As**	2	**13.940**	ug/l	139.40	1.4	4500	74	P	
78	**Se**	1	**0.386**	ug/l	3.86	26.5	450	74	P	
88	**Sr**	3	**30.140**	ug/l	301.40	2.5	4500	74	P	
95	**Mo**	3	**1.009**	ug/l	10.09	6.1	4500	74	P	
107	**Ag**	3	**0.115**	ug/l	1.15	5.7	450	103	P	
111	**Cd**	3	**0.610**	ug/l	6.10	9.4	900	103	P	
118	**Sn**	3	**1.018**	ug/l	10.18	7.8	4500	103	P	
121	**Sb**	3	**0.821**	ug/l	8.21	2.9	4500	103	P	
135	**Ba**	3	**484.600**	ug/l	4,846.00	1.5	4500	103	P	
200	**Hg**	3	**954.900**	ug/l	9,549.00	0.1	45	209	A	Fail
205	**Tl**	3	**0.139**	ug/l	1.39	2.6	4500	209	P	
208	**Pb**	3	**77.290**	ug/l	772.90	1.6	4500	209	P	
238	**U**	3	**0.284**	ug/l	2.84	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4709056	0.84	4716000	**99.9**	30	-	120	
45	Sc	1	552733	1.64	659800	**83.8**	30	-	120	
45	Sc	2	270577	0.99	256100	**105.7**	30	-	120	
74	Ge	1	389126	1.01	495700	**78.5**	30	-	120	
74	Ge	2	365393	0.84	370200	**98.7**	30	-	120	
74	Ge	3	1502099	1.92	1354000	**110.9**	30	-	120	
103	Rh	2	667087	1.14	687700	**97.0**	30	-	120	
103	Rh	3	1325719	0.85	1280000	**103.6**	30	-	120	
165	Ho	3	2747179	0.68	2556000	**107.5**	30	-	120	
175	Lu	3	3013873	0.45	2887000	**104.4**	30	-	120	
209	Bi	3	5877298	0.94	5936000	**99.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\092SMPL.D\092SMPL.D#
Date Acquired: Jun 2 2010 09:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.890**	ug/l	48.89	5.0	450	6	P	
23	**Na**	2	**4750.000**	ug/l	4,750.00	1.2	450000	45	A	
24	**Mg**	2	**4750.000**	ug/l	4,750.00	0.9	450000	45	A	
27	**Al**	2	**466.200**	ug/l	466.20	0.9	450000	45	P	
31	**P**	2	**4646.000**	ug/l	4,646.00	0.6	450000	45	P	
39	**K**	2	**4856.000**	ug/l	4,856.00	0.4	450000	45	A	
40	**Ca**	1	**4662.000**	ug/l	4,662.00	0.2	450000	45	A	
47	**Ti**	2	**49.790**	ug/l	49.79	2.3	4500	45	P	
51	**V**	2	**50.280**	ug/l	50.28	0.3	4500	45	P	
52	**Cr**	2	**51.700**	ug/l	51.70	0.8	4500	45	P	
54	**Fe**	1	**5198.000**	ug/l	5,198.00	0.4	450000	74	P	
55	**Mn**	2	**50.780**	ug/l	50.78	0.2	15000	45	P	
59	**Co**	2	**52.010**	ug/l	52.01	0.4	4500	45	P	
60	**Ni**	2	**52.820**	ug/l	52.82	2.8	15000	45	P	
63	**Cu**	2	**52.380**	ug/l	52.38	1.3	15000	45	P	
66	**Zn**	2	**50.100**	ug/l	50.10	2.5	15000	45	P	
75	**As**	2	**49.690**	ug/l	49.69	1.9	4500	74	P	
78	**Se**	1	**51.780**	ug/l	51.78	0.5	450	74	P	
88	**Sr**	3	**50.830**	ug/l	50.83	4.9	4500	74	P	
95	**Mo**	3	**49.950**	ug/l	49.95	6.4	4500	74	P	
107	**Ag**	3	**50.100**	ug/l	50.10	1.7	450	103	P	
111	**Cd**	3	**49.940**	ug/l	49.94	4.8	900	103	P	
118	**Sn**	3	**49.320**	ug/l	49.32	6.5	4500	103	P	
121	**Sb**	3	**49.750**	ug/l	49.75	4.3	4500	103	P	
135	**Ba**	3	**49.930**	ug/l	49.93	3.7	4500	103	P	
200	**Hg**	3	**4.009**	ug/l	4.01	2.9	45	209	P	
205	**Tl**	3	**49.030**	ug/l	49.03	5.5	4500	209	P	
208	**Pb**	3	**49.580**	ug/l	49.58	3.6	4500	209	P	
238	**U**	3	**49.460**	ug/l	49.46	6.3	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4966036	0.89	4716000	**105.3**	30	-	120	
45	Sc	1	520845	0.63	659800	**78.9**	30	-	120	
45	Sc	2	245435	0.83	256100	**95.8**	30	-	120	
74	Ge	1	401383	0.47	495700	**81.0**	30	-	120	
74	Ge	2	365579	0.28	370200	**98.8**	30	-	120	
74	Ge	3	1501210	1.30	1354000	**110.9**	30	-	120	
103	Rh	2	684831	0.84	687700	**99.6**	30	-	120	
103	Rh	3	1345773	0.98	1280000	**105.1**	30	-	120	
165	Ho	3	2752969	0.41	2556000	**107.7**	30	-	120	
175	Lu	3	3064400	1.23	2887000	**106.1**	30	-	120	
209	Bi	3	6216100	0.91	5936000	**104.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\060210B.B\093SMPL.D\093SMPL.D#
Date Acquired: Jun 2 2010 10:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	.7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.01	12.2	450	6	P	
23	**Na**	2	**-23.570**	ug/l	-23.57	5.4	450000	45	P	
24	**Mg**	2	**2.667**	ug/l	2.67	9.4	450000	45	P	
27	**Al**	2	**0.148**	ug/l	0.15	135.9	450000	45	P	
31	**P**	2	**-7.991**	ug/l	-7.99	83.4	450000	45	P	
39	**K**	2	**-24.750**	ug/l	-24.75	11.2	450000	45	P	
40	**Ca**	1	**-0.012**	ug/l	-0.01	739.9	450000	45	P	
47	**Ti**	2	**0.032**	ug/l	0.03	45.1	4500	45	P	
51	**V**	2	**-0.211**	ug/l	-0.21	29.8	4500	45	P	
52	**Cr**	2	**0.014**	ug/l	0.01	121.5	4500	45	P	
54	**Fe**	1	**-0.115**	ug/l	-0.12	313.2	450000	74	P	
55	**Mn**	2	**0.032**	ug/l	0.03	25.9	15000	45	P	
59	**Co**	2	**0.012**	ug/l	0.01	40.8	4500	45	P	
60	**Ni**	2	**0.055**	ug/l	0.06	46.4	15000	45	P	
63	**Cu**	2	**-0.002**	ug/l	0.00	1469.6	15000	45	P	
66	**Zn**	2	**-0.021**	ug/l	-0.02	416.6	15000	45	P	
75	**As**	2	**-0.037**	ug/l	-0.04	54.4	4500	74	P	
78	**Se**	1	**-0.015**	ug/l	-0.01	79.7	450	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	22.9	4500	74	P	
95	**Mo**	3	**0.040**	ug/l	0.04	23.5	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	89.1	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	307.2	900	103	P	
118	**Sn**	3	**0.046**	ug/l	0.05	41.2	4500	103	P	
121	**Sb**	3	**0.020**	ug/l	0.02	18.6	4500	103	P	
135	**Ba**	3	**0.013**	ug/l	0.01	281.8	4500	103	P	
200	**Hg**	3	**1.014**	ug/l	1.01	3.9	45	209	P	
205	**Tl**	3	**0.199**	ug/l	0.20	2.1	4500	209	P	
208	**Pb**	3	**0.006**	ug/l	0.01	25.8	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	34.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4683313	1.09	4716000	**99.3**	30	-	120	
45	Sc	1	500447	1.24	659800	**75.8**	30	-	120	
45	Sc	2	241265	0.98	256100	**94.2**	30	-	120	
74	Ge	1	396833	0.76	495700	**80.1**	30	-	120	
74	Ge	2	365517	0.51	370200	**98.7**	30	-	120	
74	Ge	3	1477735	0.85	1354000	**109.1**	30	-	120	
103	Rh	2	707459	0.23	687700	**102.9**	30	-	120	
103	Rh	3	1344974	1.11	1280000	**105.1**	30	-	120	
165	Ho	3	2725287	0.77	2556000	**106.6**	30	-	120	
175	Lu	3	3073040	0.82	2887000	**106.4**	30	-	120	
209	Bi	3	6348718	1.28	5936000	**107.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Metals Worksheet

Batch Number: 580-64538
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 1:56PM
Batch End: May 27 2010 2:56PM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_CAL_WORK_00002	SRMsolid_00004
580-19401-A-1	01CMSS	7471A, 7471A	T	0.5757 g	0.8494 g	50 mL		
580-19401-A-1~DU	01CMSS	7471A, 7471A	T	0.5769 g	0.5377 g	50 mL		
580-19401-A-1~MS	01CMSS	7471A, 7471A	T		0.7438 g	50 mL	1 mL	
580-19401-A-1~MSD	01CMSS	7471A, 7471A	T		0.7485 g	50 mL	1 mL	
580-19401-A-2	02CMSS	7471A, 7471A	T	0.5659 g	0.7265 g	50 mL		
580-19401-A-3	03CMSS	7471A, 7471A	T	0.6735 g	0.5863 g	50 mL		
580-19401-A-4	04CMSS	7471A, 7471A	T	0.6033 g	0.5247 g	50 mL		
580-19401-A-5	05CMSS	7471A, 7471A	T	0.5976 g	0.8699 g	50 mL		
580-19401-A-6	06CMSS	7471A, 7471A	T	0.8076 g	0.5183 g	50 mL		
580-19401-A-7	07CMSS	7471A, 7471A	T	0.5966 g	0.8006 g	50 mL		
580-19401-A-8	08CMSS	7471A, 7471A	T	0.577 g	0.7751 g	50 mL		
580-19401-A-9	09CMSS	7471A, 7471A	T	0.5929 g	0.6793 g	50 mL		
580-19401-A-10	10CMSS	7471A, 7471A	T	0.6288 g	0.9470 g	50 mL		
580-19401-A-11	11CMSS	7471A, 7471A	T	0.6168 g	0.6827 g	50 mL		
580-19401-A-12	12CMSS	7471A, 7471A	T	0.578 g	0.5436 g	50 mL		
580-19401-A-13	08HMSS	7471A, 7471A	T	0.5153 g	0.6680 g	50 mL		
580-19401-A-14	10HMSS	7471A, 7471A	T	0.544 g	0.6773 g	50 mL		
580-19401-A-15	11HMSS	7471A, 7471A	T	0.5171 g	0.7130 g	50 mL		
580-19401-A-16	12HMSS	7471A, 7471A	T	0.595 g	0.5668 g	50 mL		
580-19401-A-17	13HMSS	7471A, 7471A	T	0.6356 g	0.5657 g	50 mL		
580-19401-A-18	14HMSS	7471A, 7471A	T	0.5411 g	0.6276 g	50 mL		
MB~580-64538/22		7471A, 7471A			0.5 g	50 mL		
LCS~580-64538/23		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSD~580-64538/24		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSSRM~580-64538/25		7471A, 7471A			0.1110 g	50 mL		0.1110 g

Nominal Amount Used:	0.5 g	Sulfuric Acid Lot Number:	3108030
Digestion Tube/Cup Lot #:	100121	Potassium Persulfate Lot Number:	060384
Hot Block ID number:	38008	Stannous Chloride Lot Number:	076262
Hood ID or number:	06	Oven, Bath or Block Temperature 1:	94.9
Balance ID:	SEA211	NaCL Lot #:	080787
Lot # of Nitric Acid:	G44027	Hydroxylamine Hydrochloride Lot:	094946
ID number of the thermometer:	15-041-1A-A		
Lot # of hydrochloric acid:	H42A18		
Potassium Permanganate Lot Number:	082890		

Metals Worksheet

Batch Number: 580-64541
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 2:44PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19399-A-31			T	1.0876 g	50 mL				
580-19399-A-31~DU			T	1.0772 g	50 mL				
580-19399-A-31~MS			T	1.0268 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-31~MSD			T	1.1273 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-32			T	1.1010 g	50 mL				
580-19401-A-1	01CMSS	3050B, 6020	T	1.1303 g	50 mL				
580-19401-A-2	02CMSS	3050B, 6020	T	1.1026 g	50 mL				
580-19401-A-3	03CMSS	3050B, 6020	T	1.0686 g	50 mL				
580-19401-A-4	04CMSS	3050B, 6020	T	1.1033 g	50 mL				
580-19401-A-5	05CMSS	3050B, 6020	T	1.0625 g	50 mL				
580-19401-A-6	06CMSS	3050B, 6020	T	1.0090 g	50 mL				
580-19401-A-7	07CMSS	3050B, 6020	T	1.1943 g	50 mL				
580-19401-A-8	08CMSS	3050B, 6020	T	1.0058 g	50 mL				
580-19401-A-9	09CMSS	3050B, 6020	T	1.1246 g	50 mL				
580-19401-A-10	10CMSS	3050B, 6020	T	1.1399 g	50 mL				
580-19401-A-11	11CMSS	3050B, 6020	T	1.1597 g	50 mL				
580-19401-A-12	12CMSS	3050B, 6020	T	1.1007 g	50 mL				
580-19401-A-13	08HMSS	3050B, 6020	T	1.0513 g	50 mL				
580-19401-A-14	10HMSS	3050B, 6020	T	1.0548 g	50 mL				
580-19401-A-15	11HMSS	3050B, 6020	T	1.1341 g	50 mL				
MB~580-64541/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64541/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64541/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64541/24		3050B, 6020		0.5352 g	50 mL				

Metals Worksheet

Batch Number: 580-64541
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 2:44PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19399-A-31			T		
580-19399-A-31~DU			T		
580-19399-A-31~MS			T	1 mL	
580-19399-A-31~MSD			T	1 mL	
580-19399-A-32			T		
580-19401-A-1	01CMSS	3050B, 6020	T		
580-19401-A-2	02CMSS	3050B, 6020	T		
580-19401-A-3	03CMSS	3050B, 6020	T		
580-19401-A-4	04CMSS	3050B, 6020	T		
580-19401-A-5	05CMSS	3050B, 6020	T		
580-19401-A-6	06CMSS	3050B, 6020	T		
580-19401-A-7	07CMSS	3050B, 6020	T		
580-19401-A-8	08CMSS	3050B, 6020	T		
580-19401-A-9	09CMSS	3050B, 6020	T		
580-19401-A-10	10CMSS	3050B, 6020	T		
580-19401-A-11	11CMSS	3050B, 6020	T		
580-19401-A-12	12CMSS	3050B, 6020	T		
580-19401-A-13	08HMSS	3050B, 6020	T		
580-19401-A-14	10HMSS	3050B, 6020	T		
580-19401-A-15	11HMSS	3050B, 6020	T		
MB~580-64541/21		3050B, 6020			
LCS~580-64541/22		3050B, 6020		1 mL	
LCSD~580-64541/23		3050B, 6020		1 mL	
LCSSRM~580-64541/24		3050B, 6020			0.5352 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38008		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 Degrees C		

Metals Worksheet

Batch Number: 580-64544
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 3:02PM
Batch End: May 27 2010 4:00PM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_CAL_WORK_00002	SRMsolid_00004
580-19401-A-19	15HMSS	7471A, 7471A	T	0.5847 g	0.5715 g	50 mL		
580-19401-A-19~DU	15HMSS	7471A, 7471A	T		0.6941 g	50 mL		
580-19401-A-19~MS	15HMSS	7471A, 7471A	T		0.6193 g	50 mL	1 mL	
580-19401-A-19~MSD	15HMSS	7471A, 7471A	T		0.9128 g	50 mL	1 mL	
580-19401-A-20	16HMSS	7471A, 7471A	T	0.7043 g	0.5262 g	50 mL		
580-19401-A-21	17HMSS	7471A, 7471A	T	0.6072 g	0.8112 g	50 mL		
580-19401-A-22	18HMSS	7471A, 7471A	T	0.5716 g	0.7337 g	50 mL		
580-19401-A-24	20HMSS	7471A, 7471A	T	0.618 g	0.6717 g	50 mL		
580-19401-A-25	13CMSS	7471A, 7471A	T	0.6524 g	0.8770 g	50 mL		
580-19401-A-27	15CMSS	7471A, 7471A	T	0.5491 g	0.8552 g	50 mL		
580-19401-A-28	18CMSS	7471A, 7471A	T	0.5786 g	0.5535 g	50 mL		
580-19401-A-29	17CMSS	7471A, 7471A	T	0.6759 g	0.6852 g	50 mL		
580-19401-A-30	16CMSS	7471A, 7471A	T	0.5646 g	0.7937 g	50 mL		
580-19401-A-31	01HMSS	7471A, 7471A	T	0.5474 g	0.7207 g	50 mL		
580-19401-A-32	03HMSS	7471A, 7471A	T	0.5229 g	0.5510 g	50 mL		
580-19401-A-33	02HMSS	7471A, 7471A	T	0.5229 g	0.7962 g	50 mL		
580-19401-A-34	05HMSS	7471A, 7471A	T	0.5265 g	0.5616 g	50 mL		
580-19401-A-35	06HMSS	7471A, 7471A	T	0.5382 g	0.5126 g	50 mL		
580-19401-A-36	07HMSS	7471A, 7471A	T	0.5186 g	0.6598 g	50 mL		
MB~580-64544/20		7471A, 7471A			0.5 g	50 mL		
LCS~580-64544/21		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSD~580-64544/22		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSSRM~580-64544/23		7471A, 7471A			0.1350 g	50 mL		0.1350 g

Nominal Amount Used:	0.5 g	Stannous Chloride Lot Number:	076262
Digestion Tube/Cup Lot #:	100121	Oven, Bath or Block Temperature 1:	94.9
Hot Block ID number:	38008	NaCL Lot #:	080787
Hood ID or number:	06	Hydroxylamine Hydrochloride Lot:	094946
Balance ID:	SEA211		
Lot # of Nitric Acid:	G44027		
ID number of the thermometer:	15-041-1A-A		
Lot # of hydrochloric acid:	H42A18		
Potassium Permanganate Lot Number:	082890		
Sulfuric Acid Lot Number:	3108030		
Potassium Persulfate Lot Number:	060384		

Metals Worksheet

Batch Number: 580-64602
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 10:30AM
Batch End: May 28 2010 12:05PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00015
580-19401-A-16	12HMSS	3050B, 6020	T	1.0253 g	50 mL				
580-19401-A-16~DU	12HMSS	3050B, 6020	T	1.0949 g	50 mL				
580-19401-A-16~MS	12HMSS	3050B, 6020	T	1.0654 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-16~MSD	12HMSS	3050B, 6020	T	1.0421 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-17	13HMSS	3050B, 6020	T	1.0066 g	50 mL				
580-19401-A-18	14HMSS	3050B, 6020	T	1.1468 g	50 mL				
580-19401-A-19	15HMSS	3050B, 6020	T	1.1269 g	50 mL				
580-19401-A-20	16HMSS	3050B, 6020	T	1.1476 g	50 mL				
580-19401-A-21	17HMSS	3050B, 6020	T	1.1689 g	50 mL				
580-19401-A-22	18HMSS	3050B, 6020	T	1.0563 g	50 mL				
580-19401-A-23	19HMSS	3050B, 6020	T	1.0456 g	50 mL				
580-19401-A-24	20HMSS	3050B, 6020	T	1.1393 g	50 mL				
580-19401-A-25	13CMSS	3050B, 6020	T	1.1584 g	50 mL				
580-19401-A-26	14CMSS	3050B, 6020	T	1.1821 g	50 mL				
580-19401-A-27	15CMSS	3050B, 6020	T	1.0540 g	50 mL				
580-19401-A-28	18CMSS	3050B, 6020	T	1.1076 g	50 mL				
580-19401-A-29	17CMSS	3050B, 6020	T	1.0297 g	50 mL				
580-19401-A-30	16CMSS	3050B, 6020	T	1.1404 g	50 mL				
580-19401-A-31	01HMSS	3050B, 6020	T	1.0946 g	50 mL				
580-19401-A-32	03HMSS	3050B, 6020	T	1.1314 g	50 mL				
MB~580-64602/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64602/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64602/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64602/24		3050B, 6020		0.5218 g	50 mL				

Metals Worksheet

Batch Number: 580-64602
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 10:30AM
Batch End: May 28 2010 12:05PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19401-A-16	12HMSS	3050B, 6020	T		
580-19401-A-16~DU	12HMSS	3050B, 6020	T		
580-19401-A-16~MS	12HMSS	3050B, 6020	T	1 mL	
580-19401-A-16~MSD	12HMSS	3050B, 6020	T	1 mL	
580-19401-A-17	13HMSS	3050B, 6020	T		
580-19401-A-18	14HMSS	3050B, 6020	T		
580-19401-A-19	15HMSS	3050B, 6020	T		
580-19401-A-20	16HMSS	3050B, 6020	T		
580-19401-A-21	17HMSS	3050B, 6020	T		
580-19401-A-22	18HMSS	3050B, 6020	T		
580-19401-A-23	19HMSS	3050B, 6020	T		
580-19401-A-24	20HMSS	3050B, 6020	T		
580-19401-A-25	13CMSS	3050B, 6020	T		
580-19401-A-26	14CMSS	3050B, 6020	T		
580-19401-A-27	15CMSS	3050B, 6020	T		
580-19401-A-28	18CMSS	3050B, 6020	T		
580-19401-A-29	17CMSS	3050B, 6020	T		
580-19401-A-30	16CMSS	3050B, 6020	T		
580-19401-A-31	01HMSS	3050B, 6020	T		
580-19401-A-32	03HMSS	3050B, 6020	T		
MB~580-64602/21		3050B, 6020			
LCS~580-64602/22		3050B, 6020		1 mL	
LCSD~580-64602/23		3050B, 6020		1 mL	
LCSSRM~580-64602/24		3050B, 6020			0.5218 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38008		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 Degrees C		

Metals Worksheet

Batch Number: 580-64624
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 1:49PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00015
580-19401-A-33	02HMSS	3050B, 6020	T	1.0085 g	50 mL				
580-19401-A-33~DU	02HMSS	3050B, 6020	T	1.0360 g	50 mL				
580-19401-A-33~MS	02HMSS	3050B, 6020	T	1.0555 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-33~MSD	02HMSS	3050B, 6020	T	1.1226 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-34	05HMSS	3050B, 6020	T	1.0169 g	50 mL				
580-19401-A-35	06HMSS	3050B, 6020	T	1.0255 g	50 mL				
580-19401-A-36	07HMSS	3050B, 6020	T	1.0699 g	50 mL				
580-19403-C-5			T	1.0694 g	50 mL				
580-19403-C-6			T	1.1235 g	50 mL				
580-19403-C-7			T	1.1869 g	50 mL				
580-19403-B-8			T	1.0042 g	50 mL				
580-19403-A-18			T	1.1039 g	50 mL				
580-19403-A-19			T	1.1125 g	50 mL				
580-19403-A-20			T	1.1017 g	50 mL				
580-19403-B-21			T	1.0355 g	50 mL				
580-19403-A-22			T	1.0721 g	50 mL				
580-19403-A-23			T	1.0136 g	50 mL				
580-19403-A-24			T	1.1777 g	50 mL				
580-19403-A-25			T	1.0387 g	50 mL				
580-19403-A-26			T	1.1105 g	50 mL				
MB~580-64624/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64624/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64624/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64624/24		3050B, 6020		0.5171 g	50 mL				
580-19403-A-27			T	1.0684 g	50 mL				

Metals Worksheet

Batch Number: 580-64624
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 1:49PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19401-A-33	02HMSS	3050B, 6020	T		
580-19401-A-33~DU	02HMSS	3050B, 6020	T		
580-19401-A-33~MS	02HMSS	3050B, 6020	T	1 mL	
580-19401-A-33~MSD	02HMSS	3050B, 6020	T	1 mL	
580-19401-A-34	05HMSS	3050B, 6020	T		
580-19401-A-35	06HMSS	3050B, 6020	T		
580-19401-A-36	07HMSS	3050B, 6020	T		
580-19403-C-5			T		
580-19403-C-6			T		
580-19403-C-7			T		
580-19403-B-8			T		
580-19403-A-18			T		
580-19403-A-19			T		
580-19403-A-20			T		
580-19403-B-21			T		
580-19403-A-22			T		
580-19403-A-23			T		
580-19403-A-24			T		
580-19403-A-25			T		
580-19403-A-26			T		
MB~580-64624/21		3050B, 6020			
LCS~580-64624/22		3050B, 6020		1 mL	
LCSD~580-64624/23		3050B, 6020		1 mL	
LCSSRM~580-64624/24		3050B, 6020			0.5171 g
580-19403-A-27			T		

Digestion Tube/Cup Lot #:	100121	Temperature:	94.9 Degrees C
Balance ID:	SEA204	Pipette ID:	mp1
Hood ID or number:	06		
Hot Block ID number:	38008		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		

Metals Worksheet

Batch Number: 580-64650
Method: 7471A
Analyst: Boardway, Peter A

Date Open: Jun 01 2010 9:00AM
Batch End: Jun 01 2010 10:30AM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	Hg_CAL_WORK_00002	SRMsolid_00004
580-19476-A-12			T	0.6487 g	50 mL		
580-19476-A-12~DU			T	0.5566 g	50 mL		
580-19476-A-12~MS			T	0.6035 g	50 mL	1 mL	
580-19476-A-12~MSD			T	0.6034 g	50 mL	1 mL	
580-19476-A-7			T	0.7294 g	50 mL		
580-19476-A-8			T	0.6114 g	50 mL		
580-19476-A-9			T	0.6329 g	50 mL		
580-19476-A-10			T	0.7170 g	50 mL		
580-19476-A-11			T	0.6826 g	50 mL		
580-19401-A-23	19HMSS	7471A, 7471A	T	0.5977 g	50 mL		
580-19401-A-26	14CMSS	7471A, 7471A	T	0.5523 g	50 mL		
MB~580-64650/12		7471A, 7471A		0.6 g	50 mL		
LCS~580-64650/13		7471A, 7471A		0.6 g	50 mL	1 mL	
LCSD~580-64650/14		7471A, 7471A		0.6 g	50 mL	1 mL	
LCSSRM~580-64650/15		7471A, 7471A		0.1050 g	50 mL		0.1050 g

Digestion Tube/Cup Lot #:	100121
Hot Block ID number:	38009
Hood ID or number:	06
Balance ID:	SEA204
Lot # of Nitric Acid:	G44027
ID number of the thermometer:	15-041-1A-A
Lot # of hydrochloric acid:	H42A18
Potassium Permanganate Lot Number:	082890
Sulfuric Acid Lot Number:	3108030
Potassium Persulfate Lot Number:	060384
Stannous Chloride Lot Number:	076262
NaCL Lot #:	080787

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19401-1

SDG No.:

Project: Contact and Sonoma Mine Sites

Client Sample ID	Lab Sample ID
01CMSS	580-19401-1
02CMSS	580-19401-2
03CMSS	580-19401-3
04CMSS	580-19401-4
05CMSS	580-19401-5
06CMSS	580-19401-6
07CMSS	580-19401-7
08CMSS	580-19401-8
09CMSS	580-19401-9
10CMSS	580-19401-10
11CMSS	580-19401-11
12CMSS	580-19401-12
08HMSS	580-19401-13
10HMSS	580-19401-14
11HMSS	580-19401-15
12HMSS	580-19401-16
13HMSS	580-19401-17
14HMSS	580-19401-18
15HMSS	580-19401-19
16HMSS	580-19401-20
17HMSS	580-19401-21
18HMSS	580-19401-22
19HMSS	580-19401-23
20HMSS	580-19401-24
13CMSS	580-19401-25
14CMSS	580-19401-26
15CMSS	580-19401-27
18CMSS	580-19401-28
17CMSS	580-19401-29
16CMSS	580-19401-30
01HMSS	580-19401-31
03HMSS	580-19401-32
02HMSS	580-19401-33
05HMSS	580-19401-34
06HMSS	580-19401-35
07HMSS	580-19401-36

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19401-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Analysis Method: Moisture RL Date: 01/01/2005 13:13

Prep Method:

Leach Method:

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/21/2010 12:59 End Date: 05/24/2010 13:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
580-19401-22	1	T	12:59	X	X																		
580-19401-23	1	T	12:59	X	X																		
580-19401-24	1	T	12:59	X	X																		
580-19401-25	1	T	12:59	X	X																		
580-19401-26	1	T	12:59	X	X																		
580-19401-21	1	T	13:59	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/24/2010 12:03 End Date: 05/24/2010 12:03

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
580-19401-1	1	T	12:03	X	X																		
580-19401-1 DU	1	T	12:03	X	X																		
580-19401-2	1	T	12:03	X	X																		
580-19401-3	1	T	12:03	X	X																		
580-19401-4	1	T	12:03	X	X																		
580-19401-5	1	T	12:03	X	X																		
580-19401-6	1	T	12:03	X	X																		
580-19401-7	1	T	12:03	X	X																		
580-19401-8	1	T	12:03	X	X																		
580-19401-9	1	T	12:03	X	X																		
580-19401-10	1	T	12:03	X	X																		
580-19401-11	1	T	12:03	X	X																		
580-19401-12	1	T	12:03	X	X																		
580-19401-13	1	T	12:03	X	X																		
580-19401-14	1	T	12:03	X	X																		
580-19401-15	1	T	12:03	X	X																		
580-19401-16	1	T	12:03	X	X																		
580-19401-17	1	T	12:03	X	X																		
580-19401-18	1	T	12:03	X	X																		
580-19401-19	1	T	12:03	X	X																		
580-19401-20	1	T	12:03	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19401-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/24/2010 14:59 End Date: 05/24/2010 14:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
580-19401-27	1	T	14:59	X	X																		
580-19401-28	1	T	14:59	X	X																		
580-19401-29	1	T	14:59	X	X																		
580-19401-30	1	T	14:59	X	X																		
580-19401-31	1	T	14:59	X	X																		
580-19401-31 DU	1	T	14:59	X	X																		
580-19401-32	1	T	14:59	X	X																		
580-19401-33	1	T	14:59	X	X																		
580-19401-34	1	T	14:59	X	X																		
580-19401-35	1	T	14:59	X	X																		
580-19401-36	1	T	14:59	X	X																		
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				
ZZZZZZ			14:59																				

Prep Types

T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64098
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 21 2010 12:59PM
Batch End: May 21 2010 6:50PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19431-A-1			T	0.7849 g	6.5332 g	6.1889 g
580-19386-A-1			T	0.7756 g	12.2548 g	10.1225 g
580-19403-C-7			T	0.7931 g	12.7777 g	10.2736 g
580-19403-B-8			T	0.7780 g	11.4402 g	11.1206 g
580-19403-A-18			T	0.8005 g	7.4361 g	6.4276 g
580-19403-A-19			T	0.7747 g	5.5145 g	4.4787 g
580-19403-A-20			T	0.7879 g	3.4615 g	2.7891 g
580-19403-B-21			T	0.7866 g	4.5526 g	3.8276 g
580-19403-A-22			T	0.8072 g	5.6102 g	5.0124 g
580-19403-A-23			T	0.7886 g	6.2046 g	5.6463 g
580-19403-A-24			T	0.7901 g	5.3572 g	4.6144 g
580-19403-A-25			T	0.7953 g	8.5005 g	8.0824 g
580-19403-A-26			T	0.7956 g	7.8038 g	7.0045 g
580-19403-A-27			T	0.8062 g	6.9236 g	6.3770 g
580-19403-A-27~DU			T	0.7844 g	6.9065 g	6.4261 g
580-19401-A-22	18HMSS	Moisture	T	0.7834 g	9.7155 g	8.5961 g
580-19401-A-23	19HMSS	Moisture	T	0.8028 g	6.8408 g	5.8305 g
580-19401-A-24	20HMSS	Moisture	T	0.7858 g	8.0368 g	6.6521 g
580-19401-A-25	13CMSS	Moisture	T	0.7865 g	7.7838 g	6.1490 g
580-19401-A-26	14CMSS	Moisture	T	0.7809 g	6.4389 g	5.1409 g
580-19401-A-21	17HMSS	Moisture	T	0.7700 g	9.0550 g	7.5927 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/21/10
Time samples were place in the oven:	1410
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/24/10
Time Samples were removed from oven:	1842
Oven Temp when samples removed from oven:	101.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

General Chemistry Worksheet

Batch Number: 580-64098
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 21 2010 12:59PM
Batch End: May 21 2010 6:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
580-19431-A-1			T	
580-19386-A-1			T	
580-19403-C-7			T	
580-19403-B-8			T	
580-19403-A-18			T	
580-19403-A-19			T	
580-19403-A-20			T	
580-19403-B-21			T	
580-19403-A-22			T	
580-19403-A-23			T	
580-19403-A-24			T	
580-19403-A-25			T	
580-19403-A-26			T	
580-19403-A-27			T	
580-19403-A-27~DU			T	
580-19401-A-22	18HMSS	Moisture	T	
580-19401-A-23	19HMSS	Moisture	T	
580-19401-A-24	20HMSS	Moisture	T	
580-19401-A-25	13CMSS	Moisture	T	
580-19401-A-26	14CMSS	Moisture	T	
580-19401-A-21	17HMSS	Moisture	T	

Batch Comment: only empty pans weighed on 5/21, all else done 5/24/10

General Chemistry Worksheet

Batch Number: 580-64198
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 24 2010 12:03PM
Batch End: May 24 2010 4:37PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19401-A-1	01CMSS	Moisture	T	0.8017 g	9.5141 g	8.3681 g
580-19401-A-1~DU	01CMSS	Moisture	T	0.7648 g	8.2251 g	7.2308 g
580-19401-A-2	02CMSS	Moisture	T	0.7982 g	5.4468 g	4.9053 g
580-19401-A-3	03CMSS	Moisture	T	0.7796 g	7.6871 g	5.9077 g
580-19401-A-4	04CMSS	Moisture	T	0.7902 g	6.9351 g	5.8829 g
580-19401-A-5	05CMSS	Moisture	T	0.7987 g	13.4767 g	11.4069 g
580-19401-A-6	06CMSS	Moisture	T	0.7828 g	2.1416 g	1.6241 g
580-19401-A-7	07CMSS	Moisture	T	0.7846 g	6.7811 g	5.8103 g
580-19401-A-8	08CMSS	Moisture	T	0.7792 g	7.4728 g	6.5798 g
580-19401-A-9	09CMSS	Moisture	T	0.7786 g	6.6565 g	5.7356 g
580-19401-A-10	10CMSS	Moisture	T	0.7894 g	8.2818 g	6.7473 g
580-19401-A-11	11CMSS	Moisture	T	0.7805 g	9.1290 g	7.5484 g
580-19401-A-12	12CMSS	Moisture	T	0.7765 g	7.3699 g	6.4803 g
580-19401-A-13	08HMSS	Moisture	T	0.7829 g	8.7742 g	8.5363 g
580-19401-A-14	10HMSS	Moisture	T	0.7847 g	8.6248 g	7.9913 g
580-19401-A-15	11HMSS	Moisture	T	0.7684 g	7.2204 g	7.0072 g
580-19401-A-16	12HMSS	Moisture	T	0.7833 g	5.0355 g	4.3566 g
580-19401-A-17	13HMSS	Moisture	T	0.7803 g	4.4510 g	3.6679 g
580-19401-A-18	14HMSS	Moisture	T	0.7801 g	6.2886 g	5.8702 g
580-19401-A-19	15HMSS	Moisture	T	0.7742 g	5.7648 g	5.0416 g
580-19401-A-20	16HMSS	Moisture	T	0.7738 g	6.4906 g	4.8324 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/24/10
Time samples were place in the oven:	1320
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/24/10
Time Samples were removed from oven:	1630
Oven Temp when samples removed from oven:	101.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

General Chemistry Worksheet

Batch Number: 580-64227
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 24 2010 2:59PM
Batch End: May 24 2010 7:25PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19401-A-27	15CMSS	Moisture	T	0.7621 g	7.9471 g	7.3041 g
580-19401-A-28	18CMSS	Moisture	T	0.7812 g	6.8833 g	6.0543 g
580-19401-A-29	17CMSS	Moisture	T	0.7648 g	4.4068 g	3.4590 g
580-19401-A-30	16CMSS	Moisture	T	0.7763 g	6.0185 g	5.4191 g
580-19401-A-31	01HMSS	Moisture	T	0.7642 g	7.2697 g	6.7066 g
580-19401-A-31~DU	01HMSS	Moisture	T	0.7582 g	8.7127 g	8.0247 g
580-19401-A-32	03HMSS	Moisture	T	0.7665 g	8.0435 g	7.7244 g
580-19401-A-33	02HMSS	Moisture	T	0.7721 g	8.5270 g	8.1869 g
580-19401-A-34	05HMSS	Moisture	T	0.7772 g	10.2301 g	9.7536 g
580-19401-A-35	06HMSS	Moisture	T	0.7731 g	8.2255 g	7.6964 g
580-19401-A-36	07HMSS	Moisture	T	0.7808 g	8.6373 g	8.3553 g
580-19491-A-1			T	0.7848 g	9.8615 g	8.8891 g
580-19491-A-2			T	0.7925 g	6.0011 g	5.9177 g
580-19491-A-3			T	0.7740 g	7.2444 g	7.0778 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/24/10
Time samples were place in the oven:	1536
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/24/10
Time Samples were removed from oven:	1920
Oven Temp when samples removed from oven:	101.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Ecology and Environment, Inc.	Client Contact: Jim Petersen	Date: 5-17-10	Chain of Custody Number: 7241
Address: 333 SW Fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600 ex. 2719	Lab Number: 19401	Page 1 of ~~2~~ 3
City: Portland; State: OR; Zip Code: 97204	Sampler: R. Jarvis	Lab Contact: Terri Torres	
Project Name and Location (State): Helen, Contact, Sonoma Mine Sites	Billing Contact:		
Contract/Purchase Order/Quote No.: 001096.0X74/75			

Analysis (Attach list if more space is needed): TAL Metals Hg

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TAL Metals Hg	Special Instructions/ Conditions of Receipt
01CMSS	5-11-10	1330				X	X						X	-1
02CMSS	5-11-10	1340				X	X						X	-2
03CMSS	5-11-10	1350				X	X						X	-3
04CMSS	5-11-10	1355				X	X						X	-4
05CMSS	5-11-10	1402				X	X						X	-5
06CMSS	5-11-10	1410				X	X						X	-6
07CMSS	5-11-10	1420				X	X						X	-7
08CMSS	5-11-10	1450				X	X						X	-8
09CMSS	5-11-10	1455				X	X						X	-9
10CMSS	5-11-10	1500				X	X						X	-10
11CMSS	5-11-10	1510				X	X						X	-11
12CMSS	5-11-10	1530				X	X						X	-12

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Courtney Funk	5-17-10	0900	1. Received By Sign/Print: Tom Blankinship / Blankinship	5/18/10	0950
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments: Lg Green/blue, wet, bubble, Tex Pri ON w/CS cooler = 2.9 TB = 2.4

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Ecology and Environment, Inc.	Client Contact: Jim Petersen	Date:	Chain of Custody Number: 7242
Address: 333 SW fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600	Lab Number: 19401	Page 2 of 3
City: Portland; State: OR; Zip Code: 97204	Sampler: R. Jarvis; Lab Contact: Terri Torres		
Project Name and Location (State): Helen, Contact, Sonoma Mine Sites	Billing Contact:		
Contract/Purchase Order/Quote No.: 001096.0X74/75			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TAL Metals+Hg	Special Instructions/ Conditions of Receipt
08HMSS	5-7-10	1319				X	X						X	-13
10HMSS	5-7-10	1442				X	X						X	-14
11HMSS	5-7-10	1454				X	X						X	-15
12HMSS	5-7-10	1505				X	X						X	-16
13HMSS	5-7-10	1525				X	X						X	-17
14HMSS	5-7-10	1600				X	X						X	-18
15HMSS	5-7-10	1610				X	X						X	-19
16HMSS	5-12-10	0807				X	X						X	-20
17HMSS	5-12-10	0820				X	X						X	-21
18HMSS	5-12-10	0830				X	X						X	-22
19HMSS	5-12-10	0840				X	X						X	-23
20HMSS	5-12-10	0845				X	X						X	-24

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification- ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Disposal By Lab ☐ Return To Client ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Courtney Funk	5-17-10	0900	1. Received By Sign/Print: Tom Blankenship	5/18/10	0950
2. Relinquished By Sign/Print:			2. Received By Sign/Print:		
3. Relinquished By Sign/Print:			3. Received By Sign/Print:		

Comments:

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Ecology and Environment, Inc.	Client Contact: Jim Petersen	Date: 5-17-10	Chain of Custody Number: 7240
Address: 333 SW fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600 ex. 2719	Lab Number: 19401	Page 3 of 3
City: Portland; State: OR; Zip Code: 97204	Sampler: R. Jarvis	Lab Contact: Terri Torres	
Project Name and Location (State): Helen, Contact, Sonoma Mine Sites	Billing Contact:		
Contract/Purchase Order/Quote No.: 001096.0X74/75			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TAL Metals+Hg	Special Instructions/ Conditions of Receipt
13CMSS	5-11-10	1705				X	X						X	-25
14CMSS	5-11-10	1710				X	X						X	-26
15CMSS	5-11-10	1720				X	X						X	-27
18CMSS	5-11-10	1745				X	X						X	-28
17CMSS	5-11-10	1738				X	X						X	-29
16CMSS	5-11-10	1730				X	X						X	-30
01HMSS	5-7-10	1120				X	X						X	-31
03HMSS	5-7-10	1143				X	X						X	-32
02HMSS	5-7-10	1136				X	X						X	-33
05HMSS	5-7-10	1241				X	X						X	-34
06HMSS	5-7-10	1247				X	X						X	-35
07HMSS	5-7-10	1308				X	X						X	-36

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Courtney Funk	5-17-10	0900	1. Received By Sign/Print: Tom [illegible]	5/18/10	0950
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Check List

Client: Ecology and Environment, Inc.

Job Number: 580-19401-1

Login Number: 19401

List Source: TestAmerica Tacoma

Creator: Blankinship, Tom

List Number: 1

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