

Wednesday, February 17, 2010

REQUEST NUMBER: 10-1915

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
SW-846:6020		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
SW-846:6850		1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
SW-846:7471A		1	RE36-10-7428	R	2/12/2010	
		1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
SW-846:9012A		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
		1	RE36-10-7423	R	2/12/2010	
SW-846:9045C		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
SW-846:9045C		1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
SW-846:9045C		1	RE36-10-7428	R	2/12/2010	
		1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1915

LOS ALAMOS

REQUEST NUMBER: 10-1915

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7427	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7427	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7423	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7428	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7428	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7424	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7424	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7423

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		Allu
TIME COLLECTED (HH:MM)		1100		SUB-MEDIA:	TUFF 1		Allu
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610584			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			WATER FLOWING: YES/NO/NA	NA		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Reg	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+ N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Dry brown soft duff and top soil

SAMPLE COMMENTS: None

LOCATION DESC: 8-51

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 14 dpm
Beta/Gamma = 1377 dpm

PID $\frac{\text{Ambient Reading}}{0.0}$ ppm

COLLECTED BY (PRINT)

A. Goumal

REVIEWED BY (PRINT) TLMcFarlane

RELINQUISHED BY (Printed Name) A. Goumal (Signature) <i>A. Goumal</i>	Date/Time 2/12/10 1640	RECEIVED BY (Printed Name) S. WADSWORTH (Signature) <i>S. Wadsworth</i>	Date/Time 2/12/10 1640
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7424

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	OBT3		OK
TIME COLLECTED (HH:MM)		1120		SUB-MEDIA:	TUFF 1		OK
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610584			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	OK		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			BOREHOLE DECLINATION:	NA		
				BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Reg	8260B	125 ML SEPTUM AMBER GLASS	Ice	NA 2/12/10 Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Eroded and weathered light brown tuff

SAMPLE COMMENTS: 26 2/12/10
2/12/10 Interface @ 2.0' bgs

LOCATION DESC: B-51

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 6 dpm
Beta/Gamma = 323 dpmPID $\frac{\text{Ambient}}{\text{Reading}} \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

A. Gammas

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) A. Gammas (Signature) <i>A. Gammas</i>	Date/Time 2/12/10 1640	RECEIVED BY <i>S. Malters</i> (Printed Name) (Signature) <i>Me</i>	Date/Time 2/12/10 1640
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7427

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	OBT3		Alh
TIME COLLECTED (HH:MM)		10:26		SUB-MEDIA:	TUFF 1		Alh
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610586	↓		FIELD QC TYPE:	NA		↓
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	0.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	0.5		SCREEN/PORT DESC:			
FIELD MATRIX:	R	S		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			WATER FLOWING: YES/NO/NA	NA		
BOREHOLE DECLINATION:	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Reg	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Brown, soft duff material with top soil

SAMPLE COMMENTS: none

LOCATION DESC: B-50

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 6 dpm
Beta/Gamma = 9 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

A. Goumas

REVIEWED BY (PRINT) TLMcFarland

RELINQUISHED BY (Printed Name) A. Goumas (Signature)	Date/Time 2/12/2010 16:46	RECEIVED BY (Printed Name) S. MAFORAN (Signature)	Date/Time 2/12/10 16:46
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

SAMPLE COLLECTION LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 2485

EVENT NAME: 4th Qtr. FY09 - AOC 36-008 - Threemile Canyon

SAMPLE ID: RE36-10-7428

WORK ORDER:

AS PLANNED		AS COLLECTED		AS PLANNED		AS COLLECTED	
DATE COLLECTED(MM/DD/YYYY):		02/12/2010		MEDIA:	QBT3		Allh
TIME COLLECTED (HH:MM)		10:44		SUB-MEDIA:	TUFF 1		Allh
PRS ID:	36-008	OK		SAMPLE TECH CODE:	HA		OK
LOCATION ID:	36-610586			FIELD QC TYPE:	NA		
LOCATION TYPE:	GENERIC			FIELD PREP:	NA		
TOP DEPTH:	0	2.0		SAMPLE USAGE:	INV		
BOTTOM DEPTH:	0	3.0		SCREEN/PORT DESC:	NA		
FIELD MATRIX:	R	5		EXCAVATED: YES/NO/NA	NA		
COMPOSITE TYPE:	NA			COMPOSITE TIME INTERVAL:	NA		
BOREHOLE: YES/NO/NA	NA			BOREHOLE DECLINATION:	NA		
	NA			BOREHOLE DIRECTION:	NA		

#	PRIORITY	ORDER	CNTNR	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS
1	Reg	8260B	125 ML SEPTUM AMBER GLASS	Ice	Y	
1		8270C+NMED Exp	500 ML AMBER GLASS	Ice		
1		AM241+GS+ISO PU+ISOU	1 LITER POLY	None		
1		H3	500 ML POLY	Ice		
1		METALS+U-GEL	125 ML POLY	Ice		
1		Perchlorate+CN+N03+pH	500 ML POLY	Ice		
1		RADVANA+B+G	1 EA 8 IN RESEALABLE POLY BAG	None		

SAMPLE DESC: Brown soft, soil with some turf, some root material

SAMPLE COMMENTS: None

LOCATION DESC: 8-50

FIELD SCREENING/MEASUREMENT RESULTS:

Alpha = 6 dpm
Beta/Gamma = 211 dpm

PID $\frac{\text{Ambient Reading}}{0.0} = \frac{0.0}{0.0}$ ppm

COLLECTED BY (PRINT)

REVIEWED BY (PRINT)

TL McFarlane

RELINQUISHED BY (Printed Name) A. Gamo?	Date/Time 2/12/10 16:46	RECEIVED BY (Printed Name) S. MARCUM	Date/Time 2/12/10 1646
(Signature) <i>A. Gamo</i>		(Signature) <i>S. Marcum</i>	
RELINQUISHED BY	Date/Time	RECEIVED BY	Date/Time

DATA VALIDATION COVER SHEET

5121-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1915 VALIDATION DATE: 03/31/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- ☐ TPH-GRO ☐ HIGH EXPLOSIVES ☐ DIOXIN FURANS ☒ LCMSMS PERCHLORATES
☐ TPH-DRO ☐ METALS ☐ PCB CONGENERS ☐ ORGANOCHLORINE
☐ GENERAL CHEMISTRY ☐ RADIOCHEMISTRY ☐ LCMSMS HIGH EXPLOSIVES PESTICIDES/POLYCHLORINATED BIPHENYLS
☐ OTHER (DESCRIBE): _____

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):

1. The MS/MSD %R calculations were performed incorrectly. The parent sample result was < the MDL and, thus, a result of 0 ug/kg should have been used to calculate the %Rs. The laboratory subtracted the parent sample concentration. The MS %R was within the acceptance limit when calculated correctly. No sample results were qualified as a result.

The MSD %R was > the acceptance criteria when calculated correctly. The results for samples RE36-10-7427, -7423, and -7428 were detects and, thus, were qualified J+,PE12f. The remaining sample result was an ND and, thus, was not qualified.


2. The MS and MSD were performed on a sample from another LANL RN and the raw data for the parent sample were not present in the data package. No sample results were qualified as a result.

Reviewed by: Allison Felix Level: 1 Date: 4/1/10


VALIDATOR'S SIGNATURE: _____

A handwritten signature in cursive script that reads 'Joanne Compton'.


DATE: 03/31/10

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The Internal Standard (IS) relative retention time has shifted by more than 0.98 to 1.02 seconds.	R, PERC0	J, PERC0
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Required IS retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC0b	R, PERC0b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The IS are count is <25% of the expected value.	UJ, PERC1a	J, PERC1a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The IS area count is <70% but >25% of the average of that obtained from the calibration standards.	UJ, PERC1b	J, PERC1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. The IS area count is >130% of the average of that obtained from the calibration standards.	UJ, PERC1c	J, PERC1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC1d	R, PERC1d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, PERC4	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $>5X$.	N/A	J+, PERC4a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, and/or equipment blank.	U, PERC4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC4e	R, PERC4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, PERC7	J, PERC7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.99 .	UJ, R, PERC7a	J, PERC7a

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2	Records Use only
LC/MS/MS Perchlorate Analytical Data Validation Checklist	

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The ICV and/or CCV were recovered outside the method limits.	UJ, R, PERC7c	J, PERC7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, R, PERC7d	J, PERC7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, PERC7f	R, PERC7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The affected analyte is considered not detected because ion abundance ratios did not meet specifications.	N/A	R, PERC8
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17. The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	N/A	R, PERC8a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ PERC9	J-, PERC9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The holding time was > 2 times the applicable holding time requirement.	R, PERC9a	J-, PERC9a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The LCS percent recovery was <10%. Follow the external laboratory limits.	R, PERC12	J-, PERC12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The LCS percent recovery was < the Lower Acceptance Limit but >10%. Follow the external laboratory limits.	UJ, PERC12a	J-, PERC12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The LCS percent recovery was > the Upper Acceptance Limit. Follow the external laboratory limits.	N/A	J+, PERC12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, PERC12c	R, PERC12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The MS/MSD percent recovery was <10%	R, PERC12d	R, PERC12d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The MS/MSD percent recovery was >10% but <75%	UJ, PERC12e	J, PERC12e
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26. The MS/MSD percent recovery was >125%.	N/A	J+, PERC12f

LC/MS/MS PERCHLORATE ANALYTICAL DATA VALIDATION CHECKLIST	
5121-2 LC/MS/MS Perchlorate Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below if Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The MS/MSD relative percent difference was >20%.	UJ, PERC12g	J, PERC12g
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	28. The affected analytes are considered suspect because the sample was diluted without any target analytes identified due to matrix interference. Qualify as Reject if the analytical laboratory cannot provide proof for matrix interference.	UJ, R, PERC15	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	29. The sample was diluted because target analytes were > the initial verification calibration.	UJ, PERC15a	J, PERC15a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30. The Contract Required Detection Limit check standard (CRI) sample did not pass method-acceptance limits.	UJ, R, PERC16	J, PERC16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	31. The Interference Check Sample was not within $\pm 20\%$ of the known value.	UJ, PERC16a	J, PERC16a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The required CRI sample information is missing. Contact the SMO or external laboratory for information.	R, PERC16c	R, PERC16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	33. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, PERC19	J, R, PERC19
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	34. Duplicate, dilution, or reanalysis.	UJ, PERC88	J, PERC88

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 68.50 Modified

Matrix: SOIL

Extraction Batch ID: 257927

Extraction Type: Solid Prep

Client Sample No.

RE36-10-7427

Date Received: 18-FEB-10

GEL Job No (SDG): 10-1915

GEL Sample ID: 247359001

Date Filtered: 26-FEB-10

Injection Volume (uL): 20

%Solids: 64

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.787	3.15	2.15	ug/kg	J	1 J+PE12f	03-MAR-10 08:45	per0302096a
	Perchlorate Isotope Ratio			3.08			1	03-MAR-10 08:45	per0302096a
14797-73-0	Perchlorate-101	.787	3.15	2.20	ug/kg	J	1	03-MAR-10 08:45	per0302096a
	Perchlorate-O(18)			7.91	ug/kg		1	03-MAR-10 08:45	per0302096a

^a When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

JCC
03/31/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 957927

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7423

Date Received: 18-FEB-10

GEL Job No (SDG): 10-1915

GEL Sample ID: 247359002

Date Filtered: 26-FEB-10

Injection Volume (mL): 20

%Solids: 49

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.02	4.09	1.28	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate Isotope Ratio			3.09			1	03-MAR-10 08:54	per0302097a
14797-73-0	Perchlorate-101	1.02	4.09	1.31	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate-O(18)			10.5	ug/kg		1	03-MAR-10 08:54	per0302097a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

JCC
03/31/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 957927

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7428

Date Received: 18-FEB-10

GEL Job No (SDG): 10-1915

GEL Sample ID: 247359003

Date Filtered: 26-FEB-10

Injection Volume (uL): 20

%Solids: 21.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	1.13	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate Isotope Ratio			2.89			1	03-MAR-10 09:03	per0302098a
14797-73-0	Perchlorate-101	.547	2.19	1.24	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate-O(18)			5.60	ug/kg		1	03-MAR-10 09:03	per0302098a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X $\frac{1}{\% \text{Solids}}$ Aliquot

JCC
03/31/10

Form 1

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 957927
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7424
 Date Received: 18-FEB-10
 GEL Job No (SDG): 10-1915
 GEL Sample ID: 247359004
 Date Filtered: 26-FEB-10
 Injection Volume (uL): 20
 %Solids: 91.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate Isotope Ratio						1	03-MAR-10 09:11	per0302099a
14797-73-0	Perchlorate-101	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate-O(18)			5.19	ug/kg		1	03-MAR-10 09:11	per0302099a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X $\frac{1}{\text{Aliquot}}$ %Solids

JCC
03/31/10

DATA VALIDATION COVER SHEET**5118-1****Data Validation Cover Sheet**

Records Use only

**Section I.**REQUEST NUMBER: 10-1915 VALIDATION DATE: 03/31/10 LAB CODE: GELCONTRACT LABORATORY NAME: GEL Laboratories LLCVALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|--|--|---|--|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input checked="" type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | PESTICIDES/POLYCHLORINATED BIPHENYLS |


☐ OTHER (DESCRIBE): _____**Section II. Completeness Check**


- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):


- In the MB, Mg was detected. The associated sample results were detects >50X the MB concentration and, thus, was not qualified based on professional judgment.
- In the CCBs, Sb and U were detected. The Sb result for sample RE36-10-7423 was a detect $\leq 5X$ the greatest associated blank concentration and, thus, was qualified U,I4b. All other sample results were either NDs or detects >5X the greatest blank concentration and, thus, were not qualified.
- The MS %Rs for Al, Na, and K were > the laboratory UAL. The associated sample results were detects and, thus, were qualified J+,I6b. The MS %R was also > the laboratory UAL for Fe. However, the associated parent sample result was a detect > than 4X the spike amount and, thus, no sample results were qualified based on professional judgment. It should be noted that the matrix QC for the aqueous ICP-AES and ICP-MS analysis were performed on samples from other LANL RNs and that the parent sample raw data were not included in the data package. No sample data were qualified as a result.

Reviewed by: Allison Felix Level: 1 Date: 4/1/10


DATA VALIDATION COVER SHEET	
5118-1	Records Use only
Data Validation Cover Sheet	
VALIDATOR'S SIGNATURE: <u>Janne Compton</u> DATE: <u>03/31/10</u>	
Form 5118-1, Revision 0.0	LOS ALAMOS Environmental Restoration Project

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 


Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The instrument performance sample did not pass method acceptance criteria.	R, I16	R, I16
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. The mass calibration is not within 0.1 amu or %RSD is >5% for any isotope (Be, Mg, Co, In, Pb).	UJ, I16a	J, I16a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Samples were analyzed outside specific method tune time criteria.	N/A	J, I16b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.	R, I16c	R, I16c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, I7	J, I7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, I7a	J, I7a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9. The Initial Calibration Verification (ICV) and/or Continuing Calibration Verification (CCV) were recovered outside the method-specific limits.	UJ, I7c	J, I7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, I7f	R, I7f
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12. Metals interference check sample percent recover value is <50%.	R, I2	J-, I2

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. Metals interference check sample percent recovery value is $\geq 50\%$ and $< 80\%$	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. Metals interference check sample percent recovery value is $> 120\%$.	N/A	J+, I2b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. Metals interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. The sample result is $\leq 5X$ the concentration of the related analyte in the method blank.	U, I4	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5X$.	N/A	J, I4a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18. The sample result is $\leq 5X$ the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20. The sample result is $\leq 5X$ the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. The associated matrix spike recovery was $< 10\%$. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The associated matrix spike recovery was $< \text{the LAL}$ but $> 10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J+, I6a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24. The associated matrix spike recovery was $> \text{the UAL}$. Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b

METALS ANALYTICAL DATA VALIDATION CHECKLIST		
5118-2	Records Use only	
Metals Analytical Data Validation Checklist		

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the LCS information is present, do not Reject. Qualify data based on the LCS information.	R, I6c	R, I6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The sample and the duplicate sample results were $\geq 5X$ the RL and the duplicate RPD was $>20\%$ for water samples and $>35\%$ for soil samples.	UJ, I10a	J, I10a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS percent recovery was $<10\%$. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. The LCS percent recover was $<$ the LAL but $>10\%$. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LCS percent recovery was $>$ the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	31. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32. The quantitating IS area count is $<10\%$ for metals window in relation to the Initial calibration blank. Follow the method-specific windows.	R, I1a	J, I1a

METALS ANALYTICAL DATA VALIDATION CHECKLIST	
5118-2 Metals Analytical Data Validation Checklist	Records Use only 

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	33. The IS area count for the quantitating IS is <60% but >10% for metals window in relation to the initial calibration blank. Follow the method-specific windows.	UJ, I1b	J, I1b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34. The IS area count for the quantitating IS is >125% in relation to the metals initial calibration blank. Follow method-specific windows.	UJ, I1c	J, I1c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35. Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I1d	R, I1d
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36. Serial dilution sample RPD was >10% and the sample result was >50X the MDL (>100X the MDL for ICPMS). Qualify ONLY the sample used for the serial dilution.	UJ, I18	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	37. Serial dilution sample was not analyzed with the samples.	UJ, I18a	J, I18
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	38. The sample result was reported as detected between the IDL and the EDL.	N/A	J, I1
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	39. Duplicate, dilution, or reanalysis.	UJ, I88	J, I88
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40. Qualification of data via data validation did not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB, NQ, NQ
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, I19	J, R, I19

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359001

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7427

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 64

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	3820000	ug/Kg		9660	28400	28400	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-36-0	Antimony	1420	ug/Kg	U	469	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-38-2	Arsenic	1.9	mg/kg		0.303	1.51	1.51	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-39-3	Barium	62200	ug/Kg		142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-41-7	Beryllium	0.471	mg/kg		0.0303	0.151	0.151	2	MS	BAJ	03/16/10 18:41	100316-5	955147
7440-43-9	Cadmium	189	ug/Kg	J	142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-70-2	Calcium	3100000	ug/Kg		11400	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-47-3	Chromium	5010	ug/Kg		213	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-48-4	Cobalt	1830	ug/Kg		213	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-50-8	Copper	5940	ug/Kg		426	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-89-6	Iron	6000000	ug/Kg		11400	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-92-1	Lead	10100	ug/Kg		355	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-95-4	Magnesium	1050000	ug/Kg		12100	42600	42600	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-96-5	Manganese	288000	ug/Kg		284	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-97-6	Mercury	71.6	ug/kg		5.89	17.3	17.3	1	AV	JXL1	03/04/10 11:18	030410S1-6	958641
7440-02-0	Nickel	4.85	mg/kg		0.151	0.605	0.605	2	MS	BAJ	03/16/10 18:41	100316-5	955147
7440-09-7	Potassium J+,16b	927000	ug/Kg		9090	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7782-49-2	Selenium	1.51	mg/kg	U	0.757	1.51	1.51	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-22-4	Silver	710	ug/Kg	U	142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-23-5	Sodium J+,16b	42700	ug/Kg		9940	35500	35500	1	P	HSC	03/17/10 11:58	031710C-1	955145
7440-28-0	Thallium	0.103	mg/kg	J	0.0908	0.303	0.303	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-61-1	Uranium	2.97	mg/kg		0.02	0.0605	0.0605	2	MS	PRB	03/17/10 23:46	100317-3	955147
7440-62-2	Vanadium	8130	ug/Kg		142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-66-6	Zinc	34200	ug/Kg		469	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.554	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.52	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.545	g	30	mL	03/03/10	TXB3

JCC
03/31/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359002

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7423

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 49

CAS No.	Analyte	Result	Units	Qual	MP ^r J+, 16b	MP ^r L	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+, 16b	4070000	ug/Kg		13100	38600	38600	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-36-0	Antimony U, 16b	675	ug/Kg	J	636	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-38-2	Arsenic	1.56	mg/kg	J	0.406	2.03	2.03	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-39-3	Barium	113000	ug/Kg		193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-41-7	Beryllium	0.359	mg/kg		0.0406	0.203	0.203	2	MS	BAJ	03/16/10 18:43	100316-5	955147
7440-43-9	Cadmium	302	ug/Kg	J	193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-70-2	Calcium	5770000	ug/Kg		15400	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-47-3	Chromium	9900	ug/Kg		289	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-48-4	Cobalt	2310	ug/Kg		289	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-50-8	Copper	7790	ug/Kg		578	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-89-6	Iron	5730000	ug/Kg		15400	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-92-1	Lead	18200	ug/Kg		482	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-95-4	Magnesium	1250000	ug/Kg		16400	57800	57800	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-96-5	Manganese	342000	ug/Kg		386	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-97-6	Mercury	86.2	ug/kg		7.9	23.2	23.2	1	AV	JXL1	03/04/10 11:28	030410S1-6	958641
7440-02-0	Nickel	4.16	mg/kg		0.203	0.811	0.811	2	MS	BAJ	03/16/10 18:43	100316-5	955147
7440-09-7	Potassium J+, 16b	1240000	ug/Kg		12300	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7782-49-2	Selenium	2.03	mg/kg	U	1.01	2.03	2.03	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-22-4	Silver	964	ug/Kg	U	193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-23-5	Sodium J+, 16b	64100	ug/Kg		13500	48200	48200	1	P	HSC	03/17/10 12:01	031710C-1	955145
7440-28-0	Thallium	0.406	mg/kg	U	0.122	0.406	0.406	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-61-1	Uranium	4.63	mg/kg		0.0268	0.0811	0.0811	2	MS	PRB	03/17/10 23:48	100317-3	955147
7440-62-2	Vanadium	9630	ug/Kg		193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-66-6	Zinc	32700	ug/Kg		636	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.53	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.504	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.528	g	30	mL	03/03/10	TXB3

JCC
03/31/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359003

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7428

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 91.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+,16b	4750000	ug/Kg		6960	20500	20500	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-36-0	Antimony	1020	ug/Kg	U	338	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-38-2	Arsenic	1.19	mg/kg		0.208	1.04	1.04	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-39-3	Barium	64200	ug/Kg		102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-41-7	Beryllium	0.598	mg/kg		0.0208	0.104	0.104	2	MS	BAJ	03/16/10 18:45	100316-5	955147
7440-43-9	Cadmium	102	ug/Kg	J	102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-70-2	Calcium	1740000	ug/Kg		8180	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-47-3	Chromium	15600	ug/Kg		153	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-48-4	Cobalt	2580	ug/Kg		153	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-50-8	Copper	3610	ug/Kg		307	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-89-6	Iron	9360000	ug/Kg		8180	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-92-1	Lead	6320	ug/Kg		256	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-95-4	Magnesium	1000000	ug/Kg		8690	30700	30700	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-96-5	Manganese	274000	ug/Kg		205	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-97-6	Mercury	5.98	ug/kg	J	4.05	11.9	11.9	1	AV	JXL1	03/04/10 11:30	030410S1-6	958641
7440-02-0	Nickel	5.14	mg/kg		0.104	0.416	0.416	2	MS	BAJ	03/16/10 18:45	100316-5	955147
7440-09-7	Potassium J+,16b	1000000	ug/Kg		6550	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7782-49-2	Selenium	1.04	mg/kg	U	0.52	1.04	1.04	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-22-4	Silver	124	ug/Kg	J	102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-23-5	Sodium J+,16b	62500	ug/Kg		7160	25600	25600	1	P	HSC	03/17/10 12:05	031710C-1	955145
7440-28-0	Thallium	0.0963	mg/kg	J	0.0624	0.208	0.208	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-61-1	Uranium	0.593	mg/kg		0.0137	0.0416	0.0416	2	MS	PRB	03/17/10 23:49	100317-3	955147
7440-62-2	Vanadium	12400	ug/Kg		102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-66-6	Zinc	35200	ug/Kg		338	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.535	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.526	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.551	g	30	mL	03/03/10	TXB3

JCC
03/31/10

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359004

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7424

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 91.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum J+, I6b	11000000	ug/Kg		7190	21200	21200	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-38-2	Arsenic	3.2	mg/kg		0.201	1.01	1.01	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-39-3	Barium	153000	ug/Kg		106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-41-7	Beryllium	0.921	mg/kg		0.101	0.504	0.504	10	MS	BAJ	03/16/10 19:32	100316-5	955147
7440-43-9	Cadmium	160	ug/Kg	J	106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-70-2	Calcium	6350000	ug/Kg		8460	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-47-3	Chromium	13200	ug/Kg		159	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-48-4	Cobalt	5340	ug/Kg		159	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-50-8	Copper	7320	ug/Kg		317	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-89-6	Iron	13200000	ug/Kg		8460	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-92-1	Lead	10200	ug/Kg		265	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-95-4	Magnesium	2590000	ug/Kg		8990	31700	31700	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-96-5	Manganese	336000	ug/Kg		212	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-97-6	Mercury	17.4	ug/kg		4.32	12.7	12.7	1	AV	JXL1	03/04/10 11:36	030410S1-6	958641
7440-02-0	Nickel	9.22	mg/kg		0.504	2.01	2.01	10	MS	BAJ	03/16/10 19:32	100316-5	955147
7440-09-7	Potassium J+, I6b	2200000	ug/Kg		6770	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7782-49-2	Selenium	1.01	mg/kg	U	0.504	1.01	1.01	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-22-4	Silver	529	ug/Kg	U	106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-23-5	Sodium J+, I6b	103000	ug/Kg		7410	26500	26500	1	P	HSC	03/17/10 12:08	031710C-1	955145
7440-28-0	Thallium	0.174	mg/kg	J	0.0604	0.201	0.201	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-61-1	Uranium	0.197	mg/kg		0.0133	0.0403	0.0403	2	MS	PRB	03/17/10 23:51	100317-3	955147
7440-62-2	Vanadium	26200	ug/Kg		106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-66-6	Zinc	31600	ug/Kg		349	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.517	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.543	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.517	g	30	mL	03/03/10	TXB3

JCC
03/31/10

DATA VALIDATION COVER SHEET

5120-1

Data Validation Cover Sheet

Records Use only



Section I.

REQUEST NUMBER: 10-1915 VALIDATION DATE: 04/01/10 LAB CODE: GEL

CONTRACT LABORATORY NAME: GEL Laboratories LLC

VALIDATOR: Joanne Compton ORGANIZATION: Analytical Quality Associates, Inc.

ANALYTICAL SUITE (CHECK ALL THAT APPLY):

- | | | | |
|---|--|---|---|
| <input type="checkbox"/> TPH-GRO | <input type="checkbox"/> HIGH EXPLOSIVES | <input type="checkbox"/> DIOXIN FURANS | <input type="checkbox"/> LCMSMS PERCHLORATES |
| <input type="checkbox"/> TPH-DRO | <input type="checkbox"/> METALS | <input type="checkbox"/> PCB CONGENERS | <input type="checkbox"/> ORGANOCHLORINE |
| <input checked="" type="checkbox"/> GENERAL CHEMISTRY | <input type="checkbox"/> RADIOCHEMISTRY | <input type="checkbox"/> LCMSMS HIGH EXPLOSIVES | <input type="checkbox"/> PESTICIDES/POLYCHLORINATED BIPHENYLS |
| <input type="checkbox"/> OTHER (DESCRIBE): _____ | | | |

Section II. Completeness Check

- | YES | NO | N/A | (CHECK ONE) | YES | NO | N/A | (CHECK ONE) |
|-------------------------------------|--------------------------|-------------------------------------|-----------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 1. CHAIN-OF-CUSTODY FORM(S) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 6. RAW/BSS DATA |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 2. CASE NARRATIVE | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 7. QUALITY CONTROL FORMS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 3. SAMPLE RESULT FORMS | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 8. QUANTITATION REPORTS |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 4. SAMPLE CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9. TICS FORMS |
| <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 5. STANDARD CHROMATOGRAMS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10. TICS MASS SPECTRA |

Comments/problems noted (include information about requests for further information submitted to the contract laboratory and agreed-upon date of resolution and contract laboratory point of contact):


1. The bracketing CCV %R was > the UAL for nitrate-N. The results associated with samples RE36-10-7427, -7428, and -7424 were detects and, thus, qualified JJ,I7c. The remaining sample result was a ND and, thus, qualified UJ,I7c.
2. It should be noted that the matrix QC for the total cyanide analysis were performed on samples from other LANL RNs. No sample data were qualified as a result.

Reviewed by: Allison Felix Level: 1 Date: 4/1/10


VALIDATOR'S SIGNATURE: _____

A handwritten signature in cursive script, appearing to read 'Joanne Compton'.


DATE: 04/01/10

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. The holding time was >1 and ≤2 times the applicable holding time requirement.	UJ, I9	J-, I9
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. The holding time was >2 times the applicable holding time requirement.	R, I9a	J-, I9a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. The affected analytes are regarded as rejected because the analytical holding time was exceeded.	R, I9b	R, I9b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.	UJ, R, I7	J, I7
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria and/or the associated multipoint calibration correlation coefficient is <0.995.	UJ, I7a	J, I7a
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. The ICV and/or CCV were recovered outside the method specific limits.	UJ, I7c	J, I7c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7. The ICV and/or CCV were not analyzed at the appropriate method frequency.	UJ, I7d	J, I7d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8. Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.	R, I7f	R, I7f
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	9. The interference check sample percent recovery value is <50%.	R, I2	J-, I2
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. The interference check sample percent recovery value is ≥50% and <80%.	UJ, I2a	J-, I2a
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	11. The interference check sample percent recovery value is >120%.	N/A	J+, I2b
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. The interference check sample was not analyzed with the samples.	R, I2c	R, I2c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13. The sample result is ≤5X the concentration of the related analyte in the method blank.	U, I4	N/A

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST		
5120-2	Records Use only	
General Chemistry Analytical Data Validation Checklist		

Yes No N/A				Assign Qualifier Listed Below If Criterion = Yes	
(Check One)				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14. The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5X.	N/A	J, I4a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15. The sample result is ≤5X the concentration of the related analyte in the instrument blank and continuing calibration blank.	U, I4b	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	16. Continuing calibration blanks were not analyzed at the appropriate method frequency.	UJ, I4c	J, I4c
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17. The sample result is ≤5X the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.	U, I4d	N/A
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18. Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	R, I4e	R, I4e
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	19. The associate matrix spike recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I6	R, I6
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	20. The associated matrix spike recovery was below the Lower Acceptance Limit (LAL) but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I6a	J-, I6a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	21. The associated matrix spike recovery was above the Upper Acceptance Limit (UAL). Follow the external laboratory limits located within the associated data package.	UJ, I6b	J+, I6b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	22. Required matrix spike information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If LCS information is present, do not reject. Qualify data based on LCS information.	R, I6c	R, I6c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23. The sample and/or the duplicate sample results RPD is not within the acceptance limits. Follow the external laboratory limits located within the associated data package.	UJ, I10b	J, I10b

GENERAL CHEMISTRY ANALYTICAL DATA VALIDATION CHECKLIST	
5120-2 General Chemistry Analytical Data Validation Checklist	Records Use only 

Yes No N/A (Check One)				Assign Qualifier Listed Below If Criterion = Yes	
				Non-detected Analyte	Detected Analyte
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	24. The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.	UJ, I10d	J, I10d
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25. The LCS percent recovery was <10%. Follow the external laboratory limits located within the associated data package.	R, I12	R, I12
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	26. The LCS percent recover was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.	UJ, I12a	J-, I12a
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	27. The LCS percent recovery was > the UAL. Follow the external laboratory limits located within the associated data package.	N/A	J+, I12b
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	28. The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not Reject if MS/MSD information is present. Qualify according to MS/MSD criteria.	R, I12c	R, I12c
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	29. Duplicate, dilution, or reanalysis	UJ, I88	J, I88
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	30. The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used and/or under advisement by the LANL project chemist.	UJ, R, I19	J, R, I19
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31. Qualification of data via data validation does not occur based on Quality Control requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.	U, U_LAB	J, J_LAB NQ, NQ (no qualification)

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7423
Sample ID: 247359002
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 51.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.8C	H	5.96	0.010	0.100	SU	1	TXT1	02/18/10	1642	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	341	124	456	ug/kg	1	AXC2	02/25/10	1620	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	UJ,17c	0.613	2.04	mg/kg	1	MAR103/07/10	1420	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7428
Sample ID: 247359003
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 8.63%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	6.58	0.010	0.100	SU	1	TXT1	02/18/10	1644	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.4	274	ug/kg	1	AXC2	02/25/10	1621	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.08	J,17c	0.328	1.09	mg/kg	1	MAR1	03/07/10	1449	955448 3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7424
Sample ID: 247359004
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 8.59%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	8.40	0.010	0.100	SU	1	TXT1	02/18/10	1648	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.4	274	ug/kg	1	AXC2	02/25/10	1622	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.33	J,l7c	0.328	1.09	mg/kg	1	MAR103/07/10	1518	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7427
Sample ID: 247359001
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 36.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.8C	H	5.29	0.010	0.100	SU	1	TXT1	02/18/10	1639	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		659	92.2	339	ug/kg	1	AXC2	02/25/10	1619	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		12.7	J,17c	0.472	1.57	mg/kg	1	MAR103/07/10	1351	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1915

LOS ALAMOS

REQUEST NUMBER: 10-1915

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247359%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7427	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7427	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7423	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7428	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7428	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7424	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7424	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

NATIONAL LABORATORY

Charleston, SC 29407

Project Cost Code: MR3A05529E00

TURNAROUND REQ'D: 30 Days

LAB REQUEST COMMENTS:

Signature:

Q. *Q. [Signature]*

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA-300.0	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6010B	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6020	1	RE36-10-7423	R	2/12/2010	

Wednesday, February 17, 2010

Page 2 of 2

REQUEST NUMBER: 10-1915

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6850	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:7471A	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:9012A	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:9045C	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1915



February 22, 2010

www.gel.com

Ms. Joylene Valdez
Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545

Re: LANL ER Project
Work Order: 247359
SDG: 10-1915

Dear Ms. Valdez:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the following analytical results for the sample(s) we received on February 18, 2010, and analyzed for General Chemistry, Metals and Perchlorates by LCMSMS. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4485.

Sincerely,

Valerie Davis
Project Manager

Purchase Order: 72733-001-09
Chain of Custody: 10-1915
Enclosures

Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Work Order #: 247359
SDG: 10-1915

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Case Narrative

**Case Narrative for
Los Alamos National Laboratory (72733-001-09)
LANL ER Project
Workorder #: 247359
SDG # : 10-1915**

February 22, 2010

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary

Sample receipt The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on February 18, 2010 for analysis. The samples were prepared/analyzed within the required holding time. Shipping container temperatures were checked, documented, and within specifications. The samples were screened according to GEL Standard Operating Procedure. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperature was within specification (0 - 6C).

Sample Identification The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424

Case Narrative

Sample analyses were conducted using methodology as outlined in GEL Laboratories, LLC (GEL) Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

Data Package The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry, Metals and Perchlorates by LCMSMS.

I certify that this data report is in compliance with the terms and conditions of the subcontract and task order, both technically and for completeness, for other than the conditions detailed in the attached case narrative.

Valerie Davis

Valerie Davis

Project Manager

List of current GEL Certifications as of 22 February 2010

State	Certification
Arizona	AZ0668
Arkansas	88-0651
CLIA	42D0904046
California – NELAP	01151CA
Colorado	GEL
Connecticut	PH-0169
Dept. of Navy	NFESC 413
EPA Region 5	WG-15J
Florida – NELAP	E87156
Georgia	E87156 (FL/NELAP)
Georgia DW	967
Hawaii	N/A
ISO 17025	2567.01
Idaho	SC00012
Illinois – NELAP	200029
Indiana	C-SC-01
Kansas – NELAP	E-10332
Kentucky	90129
Louisiana – NELAP	03046
Maryland	270
Massachusetts	M-SC012
Nevada	SC00012
New Jersey – NELAP	SC002
New Mexico	FL NELAP E87156
New York – NELAP	11501
North Carolina	233
North Carolina DW	45709
Oklahoma	9904
Pennsylvania – NELAP	68-00485
South Carolina	10120001/10120002
Tennessee	TN 02934
Texas – NELAP	T104704235-07B-TX
U.S. Dept. of Agriculture	S-52597
Utah – NELAP	GEL
Vermont	VT87156
Virginia	00151
Washington	C1641

Chain of Custody and Supporting Documentation

Wednesday, February 17, 2010

LAB CHAIN OF CUSTODY DOCUMENT NUMBER: 10-1915

LOS ALAMOS

REQUEST NUMBER: 10-1915

NATIONAL LABORATORY

ATTN: Valerie Davis

TURNAROUND/REPORT DUE: 3/19/2010

General Engineering Laboratories, Inc.,
Charleston, SC.

TURNAROUND REQ'D: 30

2040 Savage Rd

Charleston, SC 29407

LAB REQUEST COMMENTS:

247359%

SAMPLE ID	CTNR	CTNR DESC	ORDER	PRESERV	MATRIX
RE36-10-7427	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7427	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7423	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7423	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7428	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7428	1	POLY	Perchlorate+CN+N03+pH	Ice	R
RE36-10-7424	1	POLY	METALS+U-GEL	Ice	R
RE36-10-7424	1	POLY	Perchlorate+CN+N03+pH	Ice	R

Relinquished By:

Date

Time

Received By:

Date

Time

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Printed Name

Signature

Received for DISPOSAL By:

Date

Time

Remarks:

Printed Name

Signature

Wednesday, February 17, 2010

**LOS ALAMOS
NATIONAL LABORATORY**

ATTN: Valerie Davis

General Engineering Laboratories, Inc., Charleston, SC.

2040 Savage Rd

Charleston, SC 29407

Please analyse the enclosed samples
according to the schedule indicated:

SHIP DATE: 2/17/2010

TURNAROUND/REPORT DUE: 3/19/2010

TURNAROUND REQ'D: 30 Days

RAD SCREENING: Yes, Below Background

LAB REQUEST COMMENTS:

LANL ER SMO CONTACT:

Signature:



These Samples are on:

LANL Request Number: 10-1915

Per Agreement Number: 126310011

Project Cost Code: MR3A05529E00

PRIORITY	METHOD CODE	QNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	EPA:300.0	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6010B	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6020	1	RE36-10-7423	R	2/12/2010	

Wednesday, February 17, 2010

Page 2 of 2
REQUEST NUMBER: 10-1915

PRIORITY	METHOD CODE	CNTNR	SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	SPECIAL INSTRUCTIONS
	SW-846:6020	1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:6850	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:7471A	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:9012A	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	
	SW-846:9045C	1	RE36-10-7423	R	2/12/2010	
		1	RE36-10-7424	R	2/12/2010	
		1	RE36-10-7427	R	2/12/2010	
		1	RE36-10-7428	R	2/12/2010	

Final Page of REQUEST NUMBER 10-1915



SAMPLE RECEIPT & REVIEW FORM

Client: LANL			SDG/ARCOC/Work Order: 10-1915		
Received By: Patricia Dover-Dent			Date Received: February 18, 2009		
Suspected Hazard Information		Yes	No	*If Counts > x2 area background on samples not marked "radioactive", contact the Radiation Safety Group of further investigation.	
COC/Samples marked as radioactive?			X	Maximum Counts Observed*: 60 CPM	
Classified Radioactive II by RSO?			X		
COC/Samples marked containing PCBs?			X		
Shipped as a DOT Hazardous?			X	Hazard Class Shipped: UN#:	
Samples identified as Foreign Soil?			X		

Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
2	Samples requiring cold preservation within 0 ≤ 6 deg. C?	X			Preservation Method: ice bags blue ice dry ice none other (describe) 1,2 10C
3	Chain of custody documents included with shipment?	X			
4	Sample containers intact and sealed?	X			Circle Applicable: seals broken damaged container leaking container other (describe)
5	Samples requiring chemical preservation at proper pH?		X		Sample ID's, containers affected and observed pH: If Preservation added, Lot#:
6	VOA vials free of headspace (defined as < 6mm bubble)?		X		Sample ID's and containers affected:
7	Are Encore containers present?			X	(If yes, immediately deliver to Volatiles laboratory)
8	Samples received within holding time?	X			Id's and tests affected:
9	Sample ID's on COC match ID's on bottles?	X			Sample ID's and containers affected:
10	Date & time on COC match date & time on bottles?			X	Sample ID's affected: time written on containers, not on COC
11	Number of containers received match number indicated on COC?	X			Sample ID's affected:
12	COC form is properly signed in relinquished/received sections?	X			

Comments: FEDEX#S
7209 7850 1047 1C
7209 7850 1014 2C
7209 7850 1036 2C
7209 7850 1025 2C
7209 7850 0990 10C
7209 7850 1003 10C

ORIGIN ID: SAFA (505) 665-9986
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

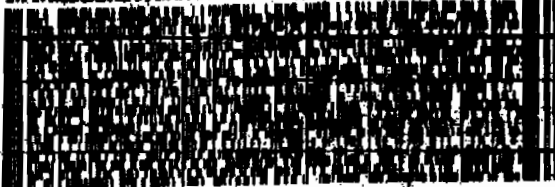
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ACTMGT: 51.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05529E00

UNITED STATES US



FedEx Express



TRKH 7209 7850 1047
0201

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



LOS ALAMOS, NM 87545
UNITED STATES US

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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05529E00

UNITED STATES US



FedEx Express

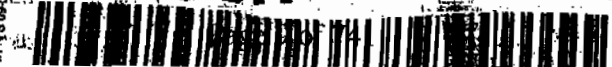


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TRKH 7209 7850 1036
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THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



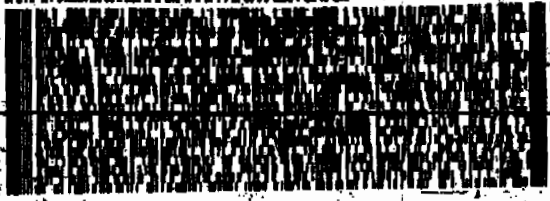
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR2A05515BYDO

UNITED STATES US



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TRKH 7209 7850 1014
0201

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TA00 BLDG 1237 DPU 03
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 17FEB10
ACTMGT: 57.0 LB MAN
CAD: 0014176/CAFE2450

BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407
(843) 556-8171
REF: 68010AMR3A05529E00

UNITED STATES US



FedEx Express



1 of 2
TRKH 7209 7850 1025
0201
NN MASTER NN

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 17FEB10
ACTNGT: 67.0 LB MAN
CAD: 0014175/CAFE2450

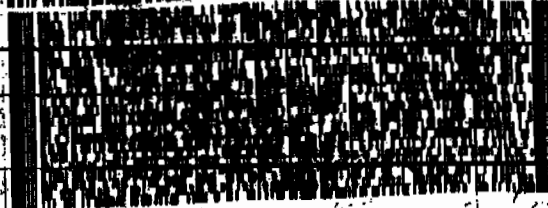
BILL SENDER

VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

CHARLESTON SC 29407

(843) 556-8171
REF: 680180NR200515BYDO

10°



FedEx
Express



300200811382223

NPSH 7209 7850 0990
0263

MatrN 7209 7850 0989 0201

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Part 6 156146.434 NRIT V3 09-09



ORIGIN ID: SAFA (505) 665-9968
JOYLENE VALDEZ
LOS ALAMOS NATL LAB
TAGO BLDG 1237 DPU 83
LOS ALAMOS, NM 87545
UNITED STATES US

SHIP DATE: 17FEB10
ACTNGT: 42.0 LB MAN
CAD: 0014175/CAFE2450

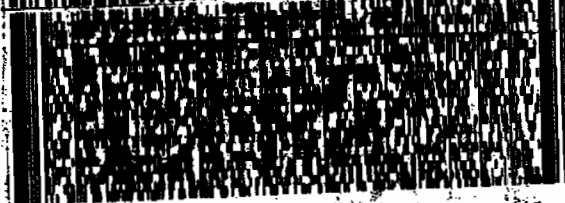
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VALERIE DAVIS
GENERAL ENGINEERING LAB
2040 SAVAGE RD

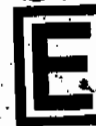
CHARLESTON SC 29407

(843) 556-8171
REF: 680180NR200515BYDO

10°



FedEx
Express



300200811382223

3 of 3
NPSH 7209 7850 1003
0263

MatrN 7209 7850 0989 0201

THU - 18FEB A1
PRIORITY OVERNIGHT

29407
SC-US
CHS

XX CHSA

Data Review Qualifier Flag Definition Sheet

Data Review Qualifier Definitions

Qualifier Explanation

*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
<	Result is less than value reported
>	Result is greater than value reported
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL
A	The TIC is a suspected aldol-condensation product
B	Target analyte was detected in the associated blank
B	Metals-Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
BD	Results are either below the MDC or tracer recovery is low
C	Analyte has been confirmed by GC/MS analysis
D	Results are reported from a diluted aliquot of the sample
d	5-day BOD-The 2:1 depletion requirement was not met for this sample
E	Organics-Concentration of the target analyte exceeds the instrument calibration range
E	Metals-%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
H	Analytical holding time was exceeded
h	Preparation or preservation holding time was exceeded
J	Value is estimated
N	Metals-The Matrix spike sample recovery is not within specified control limits
N	Organics-Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	Spike recovery limits do not apply. Sample concentration exceeds spike concentration by 4X or more
ND	Analyte concentration is not detected above the reporting limit
UI	Gamma Spectroscopy-Uncertain identification
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
Z	Paint Filter Test-Particulates passed through the filter, however no free liquids were observed.

LC/MS/MS PERCHLORATE ANALYSIS

**Perchlorate by LC/MSMS
Los Alamos National Laboratory (LANL)
SDG 10-1915**

Method/Analysis Information

Procedure: Definitive Low Level Perchlorate Analysis Utilizing Liquid Chromatography/Mass Spectrometry/Mass Spectrometry (LC/MS/MS) by EPA Method 6850 Modified (6850M)

Analytical Method: SW846 6850 Modified

Prep Method: SW846 6850 Modified

Analytical Batch Number: 957929

Prep Batch Number: 957927

Sample Analysis

Sample ID	Client ID
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424
1202054203	Interference Check Sample (ICS)
1202054199	Method Blank (MB)
1202054200	Laboratory Control Sample (LCS)
1202054201	247347002(RE15-10-8245) Matrix Spike (MS)
1202054202	247347002(RE15-10-8245) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Preparation/Analytical Method Verification

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-OA-E-067 REV# 6.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this SDG. Due to software constraints, all Initial Calibration Blanks must be designated as IPB001.

CCV Requirements

All associated calibration verification standard(s) (ICV or CCV) met the acceptance criteria.

CCB Requirements

All continuing calibration blanks (CCB) bracketing the analyses associated with this batch were within acceptance criteria.

10-1915-PERLCMS

Page 1 of 4

CCV Requirements

All continuing calibration checks (CCV) requirements were met by all bracketing CCV standards.

Low Level Standard (CRI) Requirements

All low level calibration verification (CRI) requirements were met by all bracketing CRI standards.

Quality Control (QC) Information**Method Blank (MB) Statement**

The MB(s) analyzed with this SDG met the acceptance criteria.

Interference Check Sample (ICS)

The interference check sample (ICS) met all recovery acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

QC Sample Designation

Sample 247347002 (RE15-10-8245) was chosen for matrix spike and matrix spike duplicate analysis. Please see the raw data in the Miscellaneous Section.

Matrix Spike (MS) Recovery Statement

The MS recoveries were within the established acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

High recovery for Perchlorate-101 was observed in 1202054202 (MS). The recovery was 127% and the acceptance range is 75-125%. The high recovery may be the result of the spike standard or extraction procedure since a similar, but passing recovery, was observed for the LCS.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Retention Time Standard Area Acceptance

The retention time standard areas were within the required acceptance criteria for all samples and QC.

Retention Time

During the analysis of Perchlorate by LC/MS/MS, retention time shifts are commonly observed. These retention time shifts, which are caused by fouling of the column by the sample matrices, are problematic when the retention time is used as one of the criterion for confirmation. To overcome this problem, a known amount of O(18) labeled Perchlorate was added to each sample as a retention time standard. The presence of Perchlorate was confirmed by the relative retention time (RRT) of the Perchlorate peak and the O(18) standard. A RRT window of 0.98 to 1.02, as required by Method 332.0, has been used. In addition to the isotopic ratio, the presence of Perchlorate in the samples associated with this data package have been confirmed using the relative retention criteria stated above, not the absolute retention time.

Technical Information**Holding Time Specifications**

All samples in this SDG in this analytical batch met the specified holding time. GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

10-1915-PERLCMS

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information**Data Exception (DER) Documentation**

Data exception report (DER ID 798798) was generated for this SDG.

Manual Integrations

Some initial calibration standards, continuing calibration standards, and/or samples may require manual integrations due to software limitations.

Method Comments

The samples in this SDG were not originally analyzed using EPA Method 314.0.

Additional Comments

The Perchlorate Isotope Ratio on the Form I may differ slightly from the ratio on the corresponding raw data due to rounding rules and/or significant figures or due to software limitations when there are manual integrations, dilutions or other factors. The ratio value of the Form I is the correct value. The retention time marker, Perchlorate-O (18), is added to all samples, instrument blanks, and standards prior to injection. It is used to verify the retention time of Perchlorate and Perchlorate-101 and to insure an accurate injection occurred. Due to various anions affecting the recovery of Perchlorate-O (18) and not Perchlorate and Perchlorate-101, the calibration curves of Perchlorate and Perchlorate-101 are not internally corrected for using Perchlorate-O (18). They are external calibrations.

Perchlorate Isotope Ratio

The Perchlorate isotope ratio met acceptance criteria for all samples and QC samples. Please see the isotope ratio criteria in the Miscellaneous Section.

System Configuration

The laboratory utilizes a Waters LC 2795 liquid chromatography instrument for perchlorate analysis. It is coupled with either a Micromass Quattro Micro Mass Spectrometer/ Mass Spectrometer, or a Micromass Quattro Ultima Mass Spectrometer/ Mass Spectrometer. Each being designated as LCMSMS #1, and LCMSMS #2, respectively. It is fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis. The laboratory may also utilize an Agilent 1100 liquid chromatography instrument for perchlorate analysis. It is coupled with an Applied Biosystems 4000 Mass Spectrometer/ Mass Spectrometer, designated as LCMSMS #3 or LCMSMS #4. It is also fitted with an electrospray probe that is operated in the negative electrospray ionization mode for perchlorate analysis.

Chromatographic Columns

Chromatographic separation of perchlorate is accomplished through analysis on the following anion column: Dionex: IonPac AG-16 2 x 50 mm.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer:  Date: 3/5/2010

SAMPLE DATA SUMMARY

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 257927
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0
Client Sample No.
RE36-10-7427
Date Received: 18-FEB-10
GEL Job No (SDG): 10-1915
GEL Sample ID: 247359001
Date Filtered: 26-FEB-10
Injection Volume (uL): 20
%Solids: 64

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.787	3.15	2.15	ug/kg	J	1	03-MAR-10 08:45	per0302096a
	Perchlorate Isotope Ratio			3.08			1	03-MAR-10 08:45	per0302096a
14797-73-0	Perchlorate-101	.787	3.15	2.20	ug/kg	J	1	03-MAR-10 08:45	per0302096a
	Perchlorate-O(18)			7.91	ug/kg		1	03-MAR-10 08:45	per0302096a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: SW846 6850 ModifiedMatrix: SOILExtraction Batch ID: 957927Extraction Type: Solid Prep

Client Sample No.

RE36-10-7423Date Received: 18-FEB-10GEL Job No (SDG): 10-1915GEL Sample ID: 247359002Date Filtered: 26-FEB-10Injection Volume (uL): 20%Solids: 49Sample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.02	4.09	1.28	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate Isotope Ratio			3.09			1	03-MAR-10 08:54	per0302097a
14797-73-0	Perchlorate-101	1.02	4.09	1.31	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate-O(18)			10.5	ug/kg		1	03-MAR-10 08:54	per0302097a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Aliquot}} \times \frac{1}{\% \text{Solids}}$$

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 957927
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0

Client Sample No.
RE36-10-7428
Date Received: 18-FEB-10
GEL Job No (SDG): 10-1915
GEL Sample ID: 247359003
Date Filtered: 26-FEB-10
Injection Volume (uL): 20
%Solids: 91.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	1.13	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate Isotope Ratio			2.89			1	03-MAR-10 09:03	per0302098a
14797-73-0	Perchlorate-101	.547	2.19	1.24	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate-O(18)			5.60	ug/kg		1	03-MAR-10 09:03	per0302098a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

Perchlorate Analysis Data Sheet

Client Sample No.

RE36-10-7424

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 257927

Extraction Type: Solid Prep

Date Received: 18-FEB-10

GEL Job No (SDG): 10-1915

GEL Sample ID: 247359004

Date Filtered: 26-FEB-10

Injection Volume (uL): 20

%Solids: 91.4

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate Isotope Ratio						1	03-MAR-10 09:11	per0302099a
14797-73-0	Perchlorate-101	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate-O(18)			5.19	ug/kg		1	03-MAR-10 09:11	per0302099a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X $\frac{1}{\% \text{Solids}}$

QUALITY CONTROL SUMMARY

Perchlorate Laboratory Control Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1915

Extract Batch Code: 957927

Date Filtered: 26-FEB-10

Matrix: SOIL

Sample ID: 1202054200

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.46	ug/kg	123		70 - 130
Perchlorate Isotope Ratio		3.14				-
Perchlorate-101	2.00	2.47	ug/kg	124		70 - 130
Perchlorate-O(18)		5.18	ug/kg			-

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Perchlorate Interference Check Sample

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No. (SDG): 10-1915

Extract Batch Code: 957927

Date Filtered: 26-FEB-10

Matrix: SOIL

Sample ID: 1202054203

Analyte [^]	True	Found	Units	%Rec	Q	Control Limits
Perchlorate	2.00	2.2	ug/kg	110		70 - 130
Perchlorate Isotope Ratio		2.95				
Perchlorate-101	2.00	2.36	ug/kg	118		70 - 130
Perchlorate-O(18)		4.91	ug/kg			

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

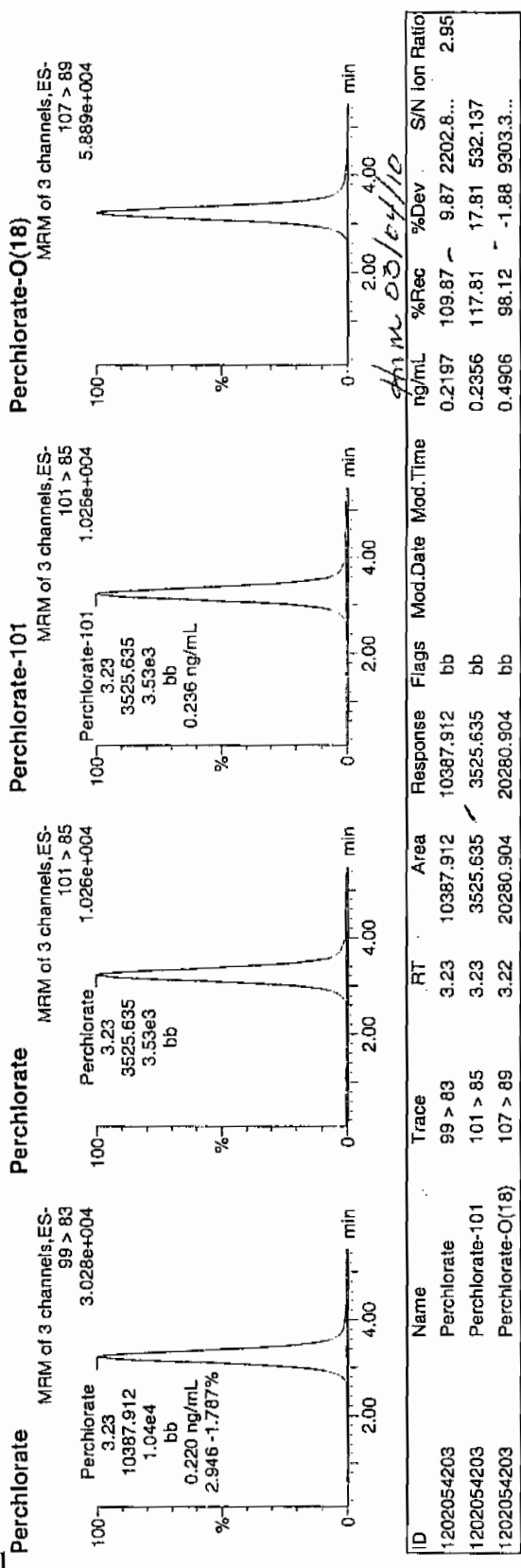
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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302082a
Date: 03-Mar-2010
Time: 06:45:44
ID: 1202054203
Vial: 3:1,C

07-03-10

1202054203 | 5020 | 1.1



Perchlorate Spike/Spike Duplicate Summary

Lab Name: General Engineering Laboratories

Lab Code: GEL

GEL Job No (SDG): 10-1915

Extract Batch Code: 957927

Date Extracted: 26-FEB-10

GEL MS/PS ID: 1202054201

Client ID: RE15-10-8245

GEL MSD/PSD ID: 1202054202

QC Type: MS

Compound [^]	Spike Added	Sample Conc	Units	MS Conc	MS Rec	#	MSD Conc	MSD Rec	#	RPD	#	RPD Limit	Recovery Limit
Perchlorate	2.02	0.111	ug/kg	2.37	112		2.6	123		9.12		30	75 - 125
Perchlorate Isotope Ratio	0	0.00		3.07			3.04			0			-
Perchlorate-101	2.02	0.142	ug/kg	2.44	114		2.7	127	*	10.1		30	75 - 125
Perchlorate-O(18)	0	5.08	ug/kg	5.03			5.17			2.82			-

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

Comments:

Perchlorate Initial Calibration Blank

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	02-MAR-10	per0302001a	IPB001
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302001a	IPB001
Perchlorate	0.00	0	NA	02-MAR-10	per0302002a	IPB001
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302002a	IPB001

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030310a.mdb 03 Mar 2010 08:37:44
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030210a.cdb 03 Mar 2010 11:30:20

Name: per0302001a

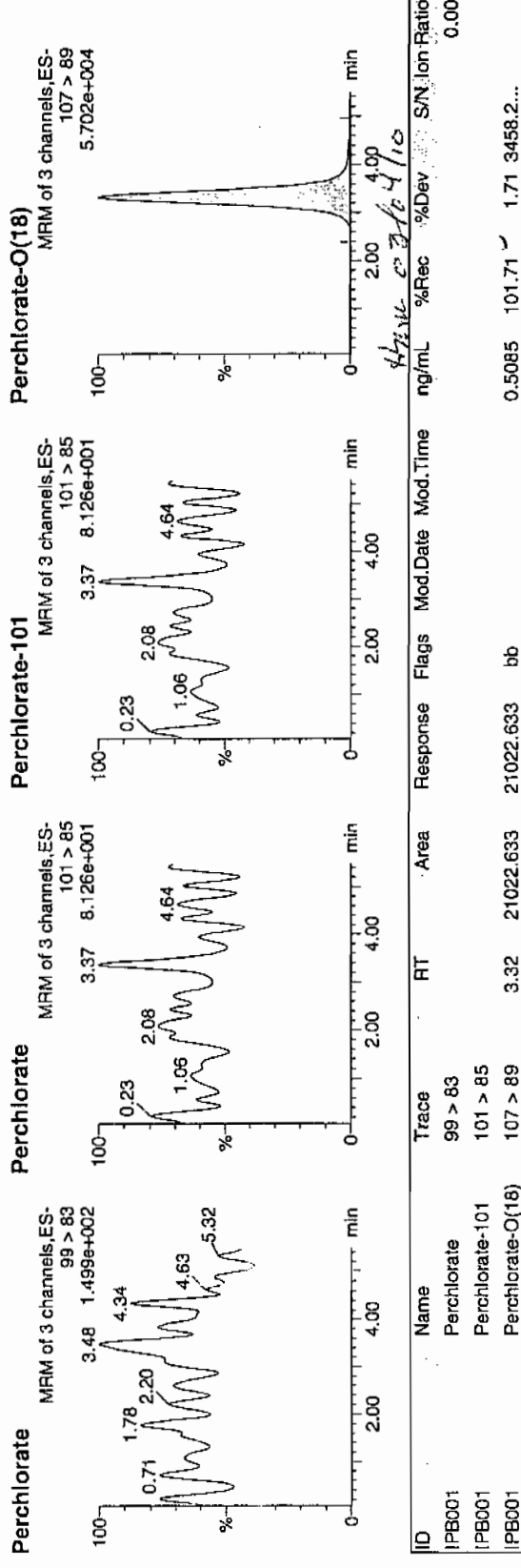
Date: 02-Mar-2010

Time: 19:10:22

ID: IPB001

Vial: 1:1,A

0303-10

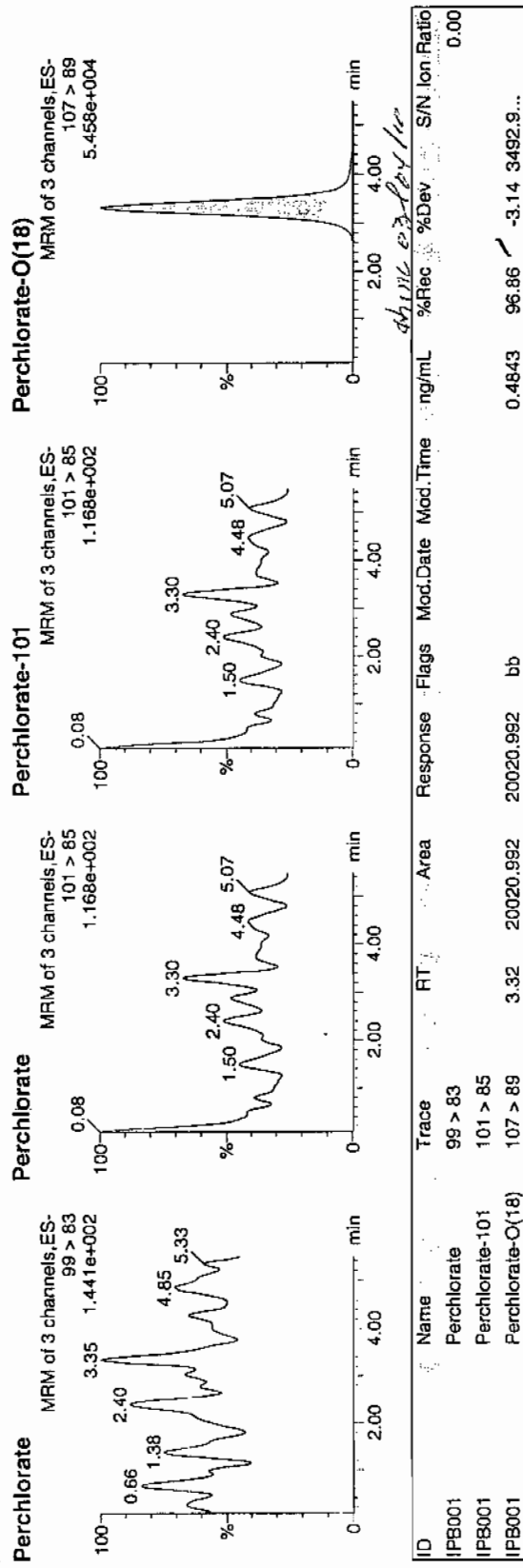


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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302002a
Date: 02-Mar-2010
Time: 19:18:55
ID: IPB001
Val: 1:1,A

03-03-10



Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1915

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate	0.00	0	NA	02-MAR-10	per0302008a	IPB002
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302008a	IPB002
Perchlorate	0.00	0	NA	02-MAR-10	per0302010a	IPB003
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302010a	IPB003
Perchlorate	0.00	0	NA	02-MAR-10	per0302022a	IPB004
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302022a	IPB004
Perchlorate	0.00	0	NA	02-MAR-10	per0302033a	IPB005
Perchlorate-101	0.00	0	NA	02-MAR-10	per0302033a	IPB005
Perchlorate	0.00	0	NA	03-MAR-10	per0302044a	IPB006
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302044a	IPB006
Perchlorate	0.00	0	NA	03-MAR-10	per0302056a	IPB007
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302056a	IPB007
Perchlorate	0.00	0	NA	03-MAR-10	per0302067a	IPB008

Perchlorate Continuing Calibration Blank

Lab Name: General Engineering Laboratories

GEL Job No.(SDG): 10-1915

Lab Code: GEL

Reporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id	GEL Sample ID
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302067a	IPB008
Perchlorate	0.00	0	NA	03-MAR-10	per0302078a	IPB009
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302078a	IPB009
Perchlorate	0.00	0	NA	03-MAR-10	per0302090a	IPB010
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302090a	IPB010
Perchlorate	0.00	0	NA	03-MAR-10	per0302101a	IPB011
Perchlorate-101	0.00	0	NA	03-MAR-10	per0302101a	IPB011

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

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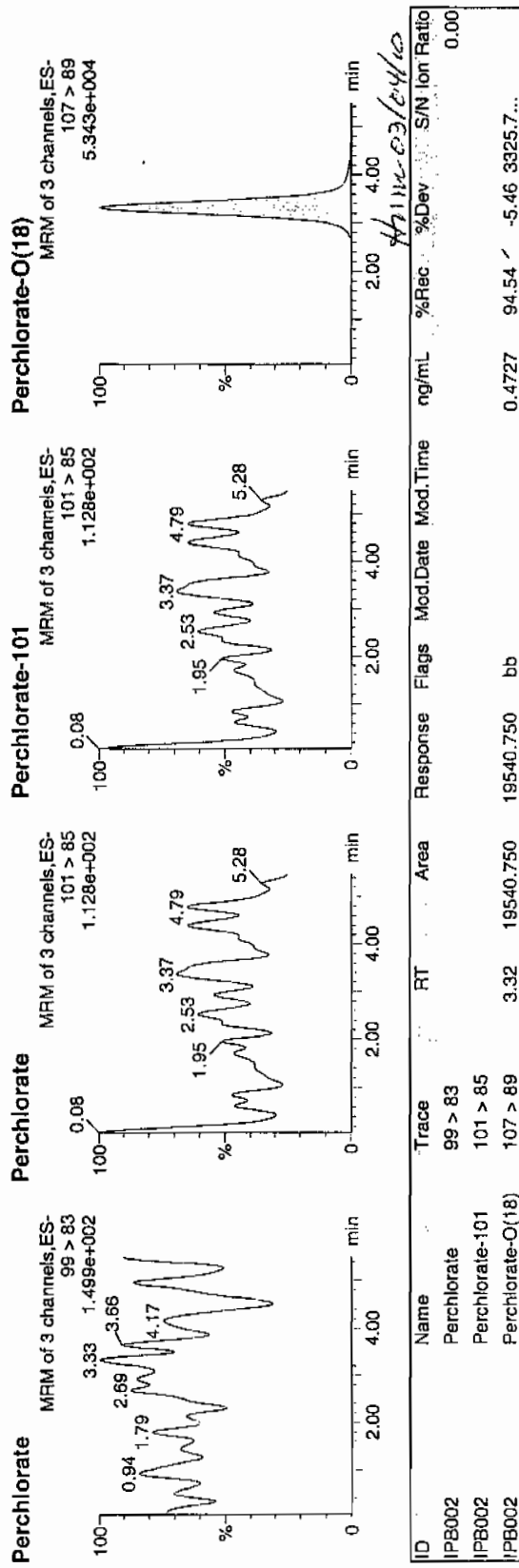
Date: 02-Mar-2010

Time: 20:10:03

SO: IPB002

Vial: 1:1,A

03-03-10



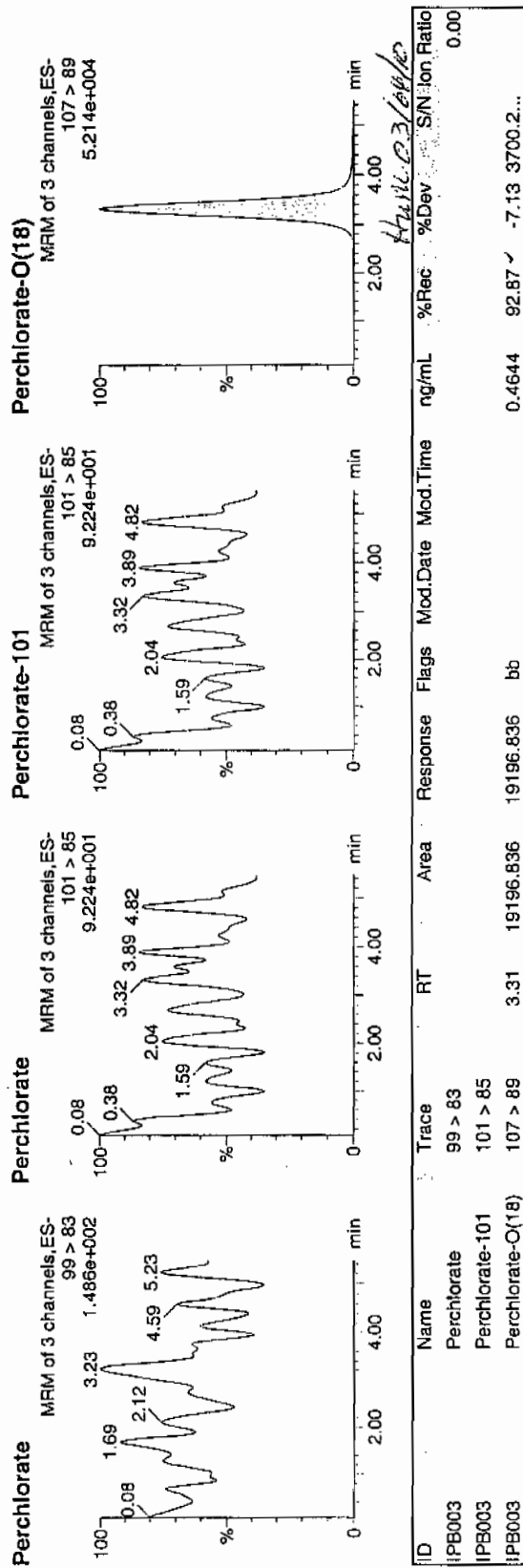
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per030210a
Date: 02-Mar-2010
Time: 20:27:08
ID: IPB003
Lot: 1:1A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB003	Perchlorate	99 > 83											0.00
IPB003	Perchlorate-101	101 > 85											
IPB003	Perchlorate-O(18)	107 > 89	3.31	19196.836	19196.836	bb			0.4644	92.87	-7.13	3700.2...	

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

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 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302022a

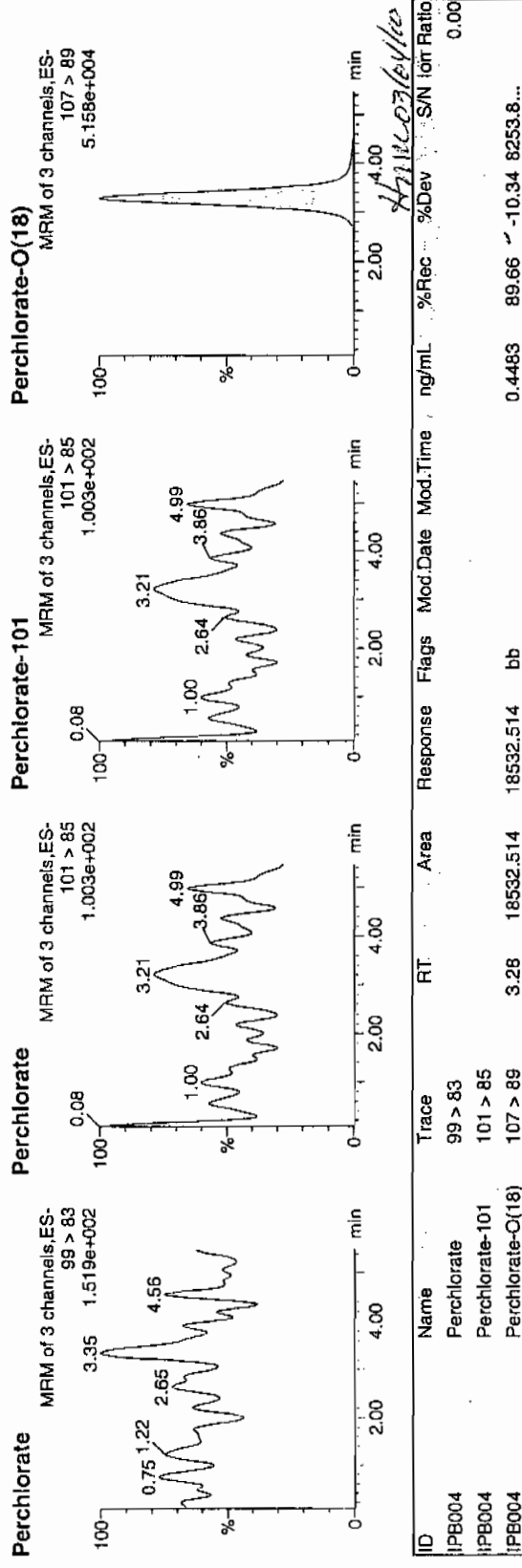
Date: 02-Mar-2010

Time: 22:09:53

IP: IPB004

Vial: 1:1,A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB004	Perchlorate	99 > 83											0.00
IPB004	Perchlorate-101	101 > 85	3.28	18532.514	18532.514	bb			0.4483	89.66	-10.34	8253.8...	
IPB004	Perchlorate-O(18)	107 > 89											

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302033a

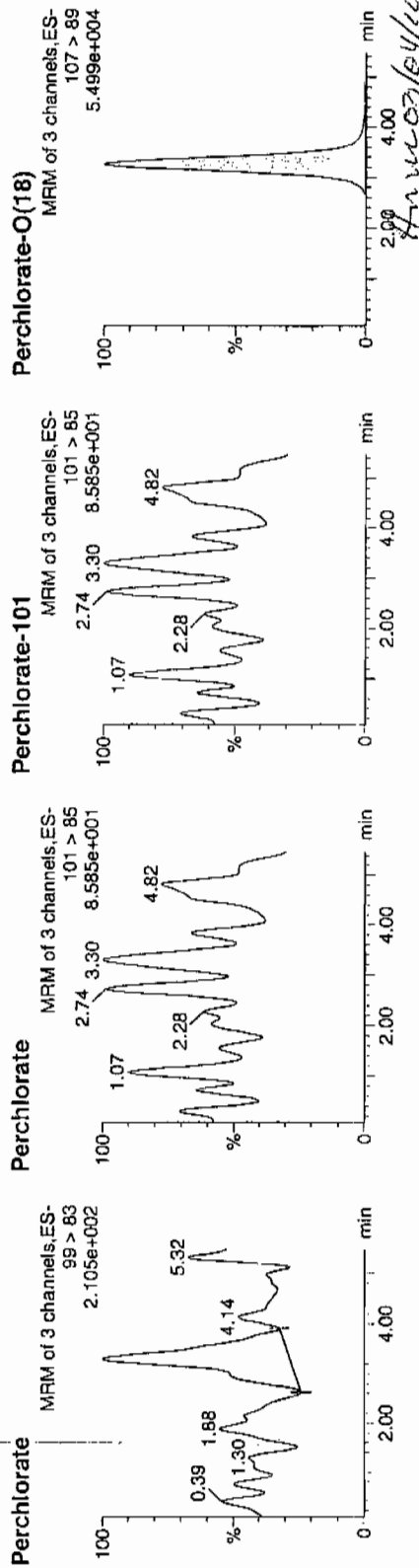
Date: 02-Mar-2010

Time: 23:44:14

ID: IPB005

Vial: 1:1,A

03-03-10



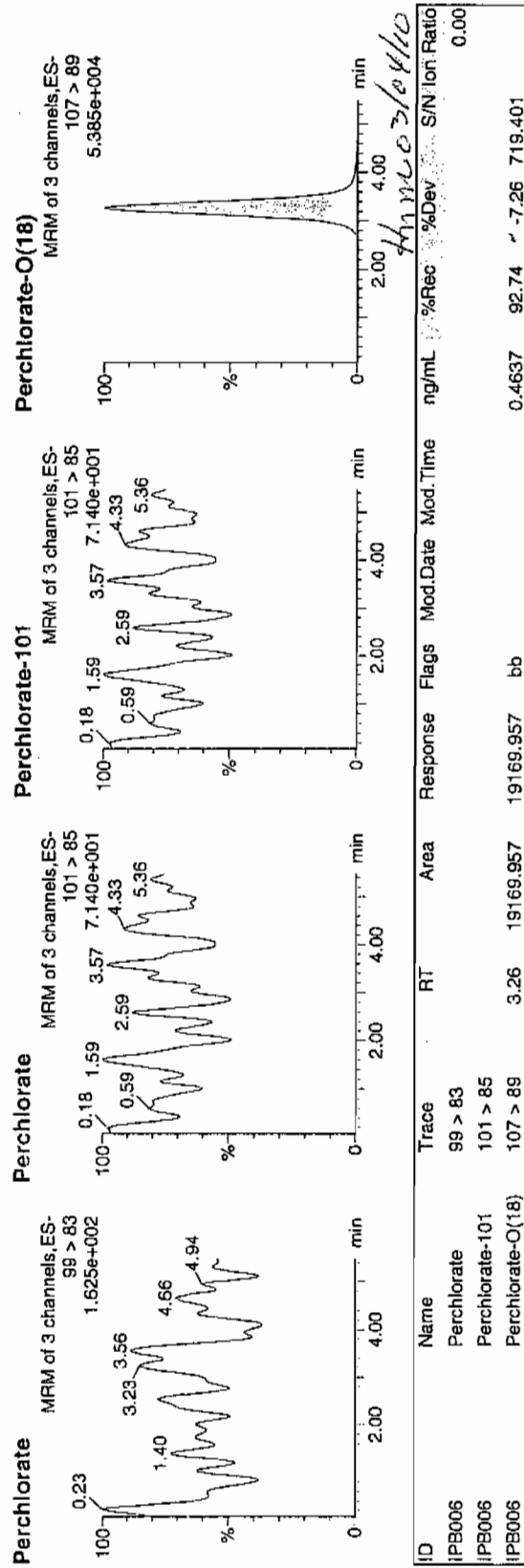
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IPB005	Perchlorate	99 > 83	3.30	78.545	78.545	bb			0.0017			8.632	0.00
IPB005	Perchlorate-101	101 > 85											
IPB005	Perchlorate-O(18)	107 > 89	3.26	19566.059	19566.059	bb			0.4733	94.66	-5.34	4481.1...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

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Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

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Date: 03-Mar-2010
Time: 01:18:39
ID: IPB006
Wat: 1:1,A

03-03-10

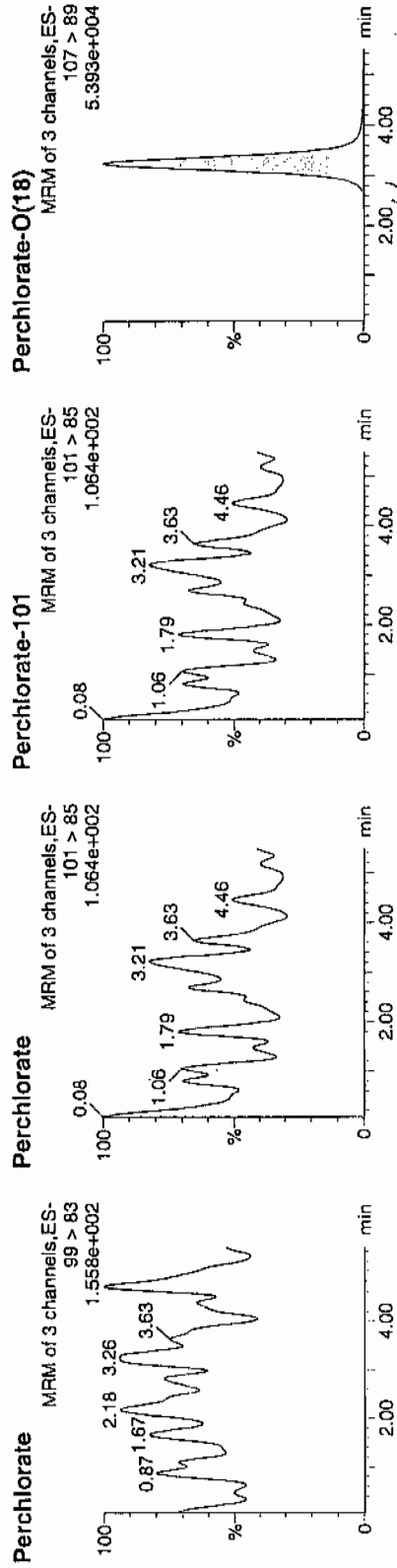


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Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302056a
 Date: 03-Mar-2010
 Time: 03:01:57
 ID: IPB007
 Dil: 1:1,A

Handwritten: 03-03-10



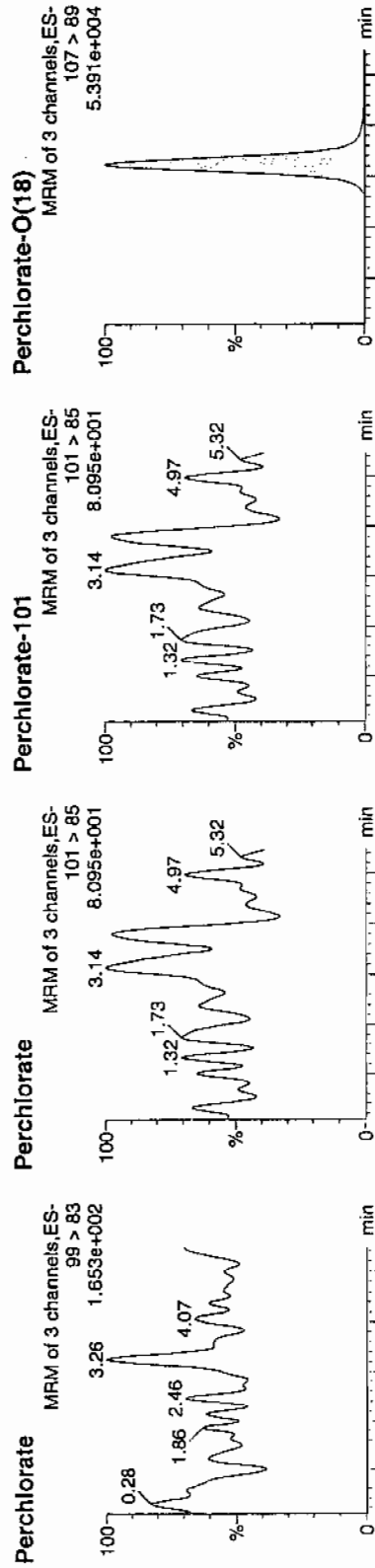
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB007	Perchlorate	99 > 83											0.00
IPB007	Perchlorate-101	101 > 85	3.25	19206.434	19206.434	bb			0.4646	92.92	-7.08	6857.4...	
IPB007	Perchlorate-O(18)	107 > 89											

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302067a
Date: 03-Mar-2010
Time: 04:36:29
ID: IPB008
Mat: 1:1,A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB008	Perchlorate	99 > 83											0.00
IPB008	Perchlorate-101	101 > 85											
IPB008	Perchlorate-O(18)	107 > 89	3.23	19177.793	19177.793	bb			0.4639	92.78	-7.22	7529.2...	

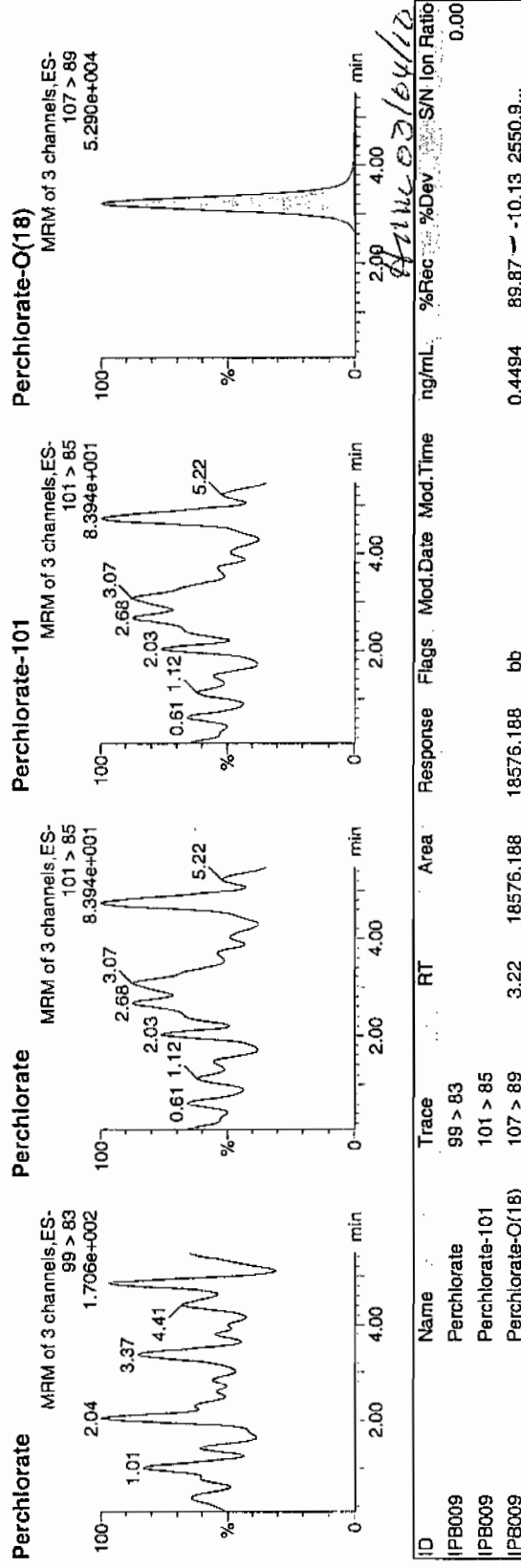
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302078a
Date: 03-Mar-2010
Time: 06:11:06
ID: IPB009
Lot: 1:1,A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB009	Perchlorate	99 > 83											0.00
IPB009	Perchlorate-101	101 > 85											
IPB009	Perchlorate-O(18)	107 > 89	3.22	18576.188	18576.188	bb			0.4494	89.87	-10.13	2550.9...	

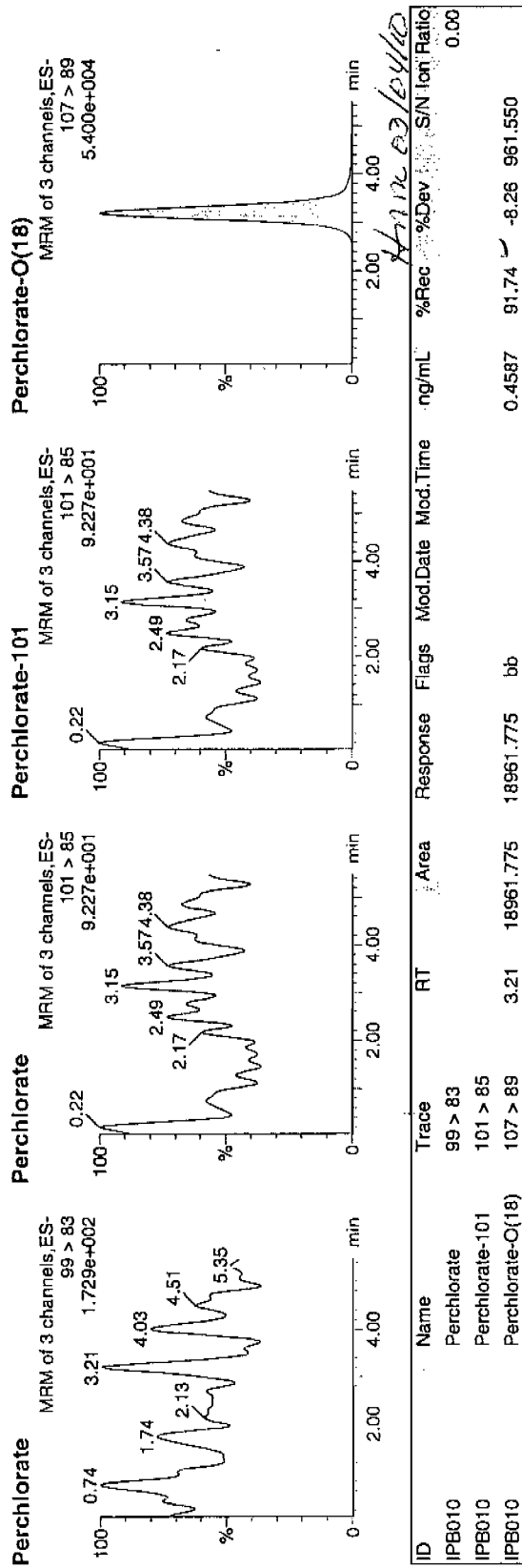
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302090a
Date: 03-Mar-2010
Time: 07:54:26
ID: IPB010
Mat: 1:1,A

03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
IPB010	Perchlorate	99 > 83											0.00
IPB010	Perchlorate-101	101 > 85											
IPB010	Perchlorate-O(18)	107 > 89	3.21	18961.775	18961.775	bb			0.4587	91.74	-8.26	961.550	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302101a

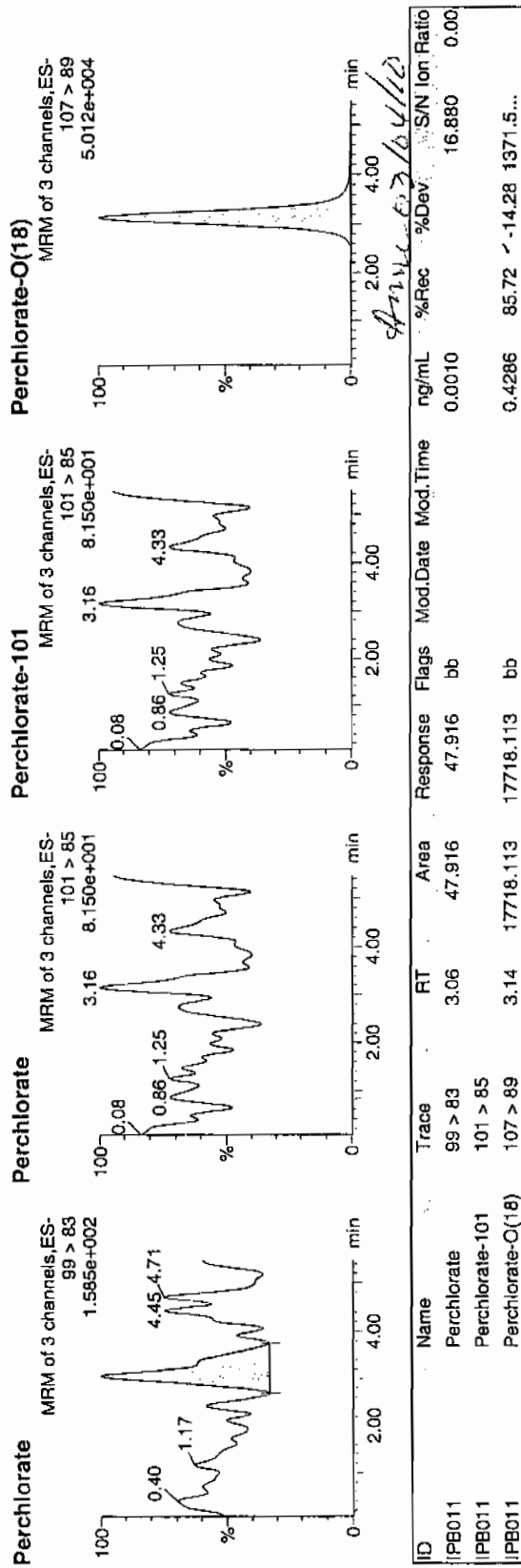
Date: 03-Mar-2010

Time: 09:29:07

ID: IPB011

Mix: 1:1,A

03-03-10



Nairb.ref

;Positive ion monoisotopic and average masses from solution
 ;of NaI/Rbi (2.0/0.05ug/ul) in 50/20 2-propanol/H2O.
 ;Most useful general purpose calibrant for all low
 ;MW applications, including MS/MS work.
 ;At high resolution, readily covers from m/z 50-2000.
 ;At reduced resolution, can be used to over m/z 3000.
 ;NOT RECOMMENDED FOR PROTEIN WORK. USE MYO, MYOTRP or TRP.
 Updated 20 April '95

22.9898	100
84.9118	100
172.8840	100
322.7782	100
472.6725	100
622.5667	100
772.4610	100
922.3552	100
1072.2494	100
; 1222.1437	100
; 1372.0379	100
; 1521.9321	100
; 1671.8264	100
; 1821.7206	100
; 1971.6149	100
; 2121.5091	100
; 2271.4033	100
; 2421.2976	100
; 2571.1918	100
; 2721.0861	100
; 2870.9803	100
; 3020.8745	100
; 3170.7688	100
; 3320.6630	100
; 3470.5572	100
; 3620.4515	100
; 3770.3457	100
; 3920.2400	100

QUANTO ULTIMA: nairb_01_08_08.cal

Calibration Report - MS1 Static

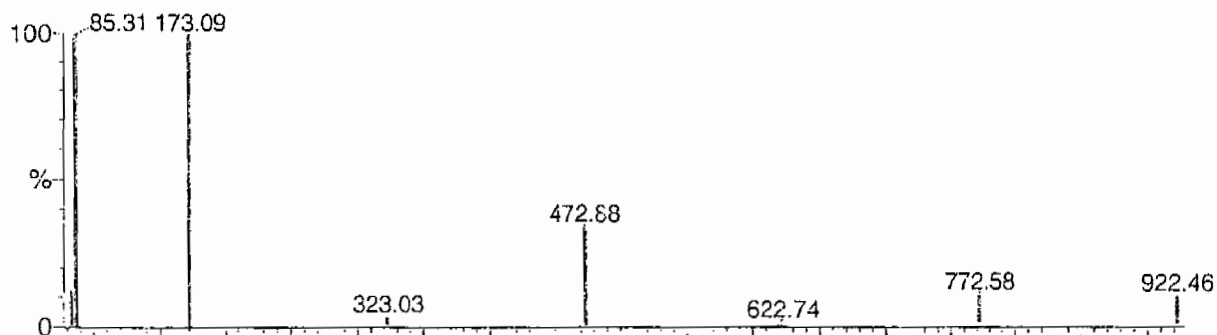
Page 1 of 1

Printed: Tue Jan 08 12:19:12 2008

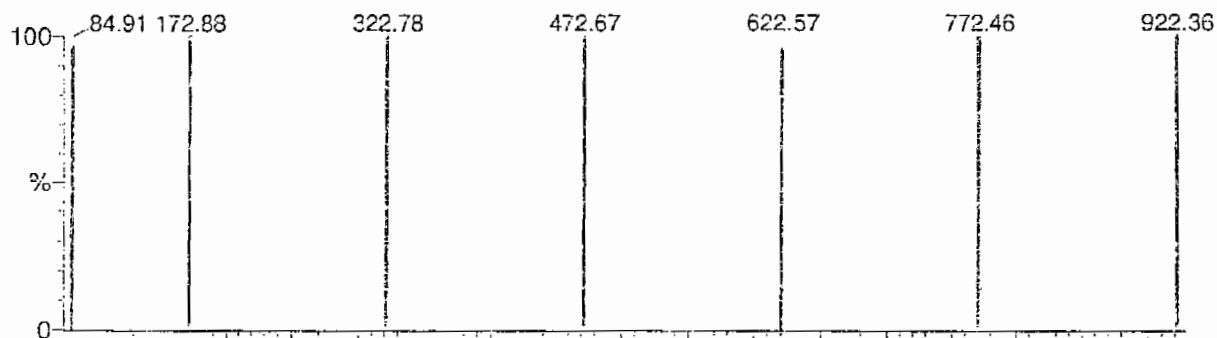
POINTS HIGHLIGHTED BY CURVE 01-07-03

Data file: STATMS1 - Uncalibrated

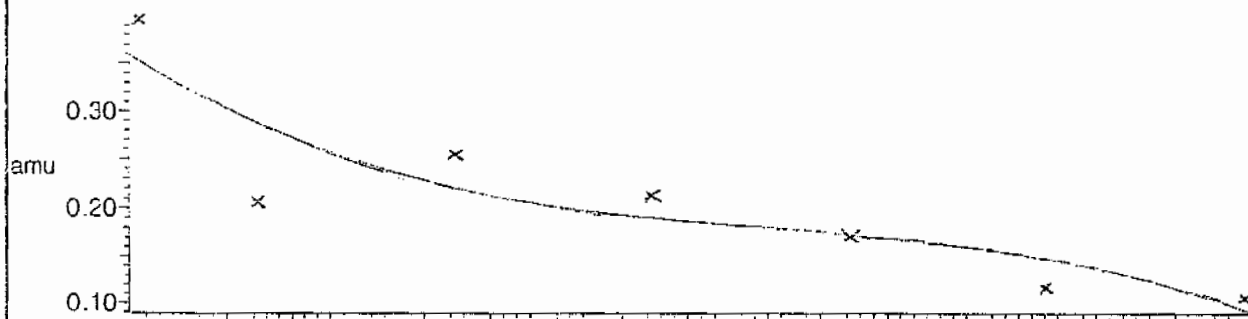
7 matches of 7 tested references



Reference file: Nairb

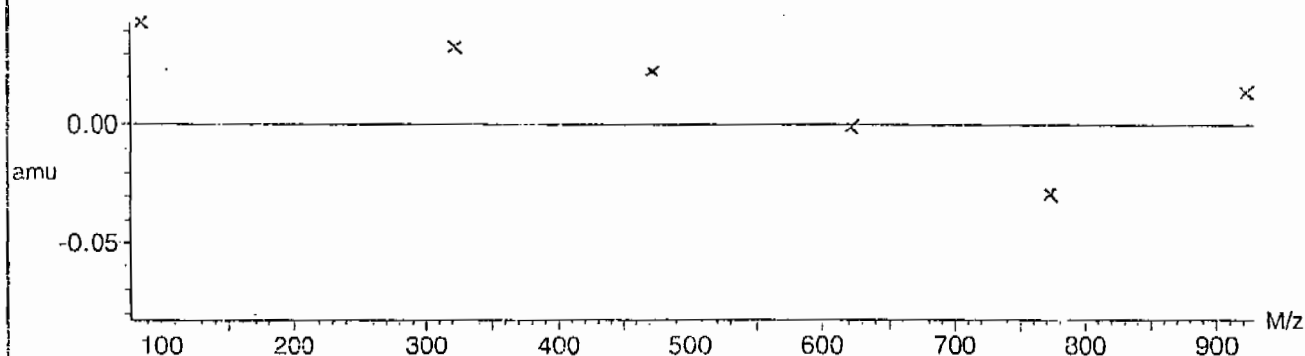


Mass difference (Raw - Ref mass)

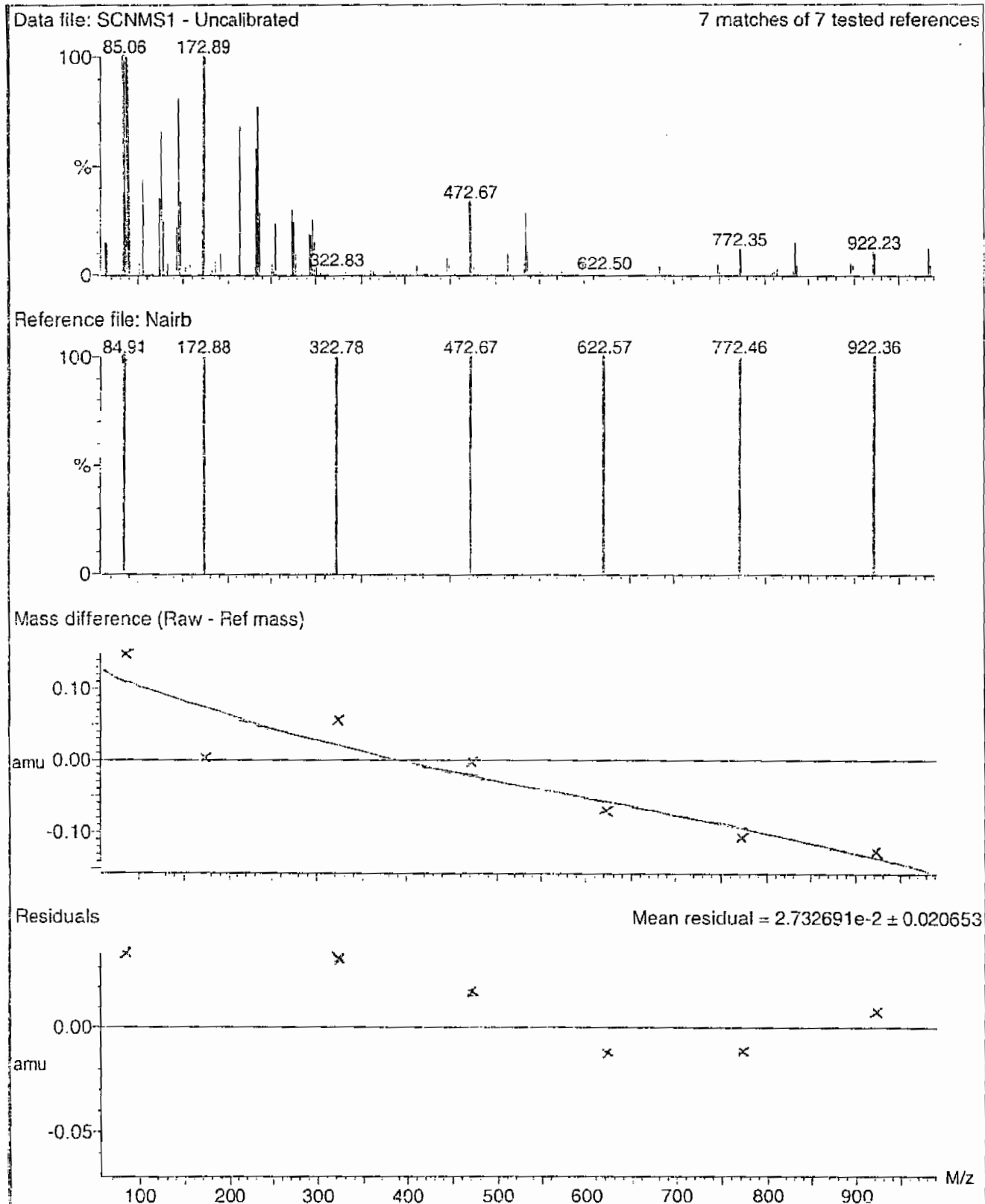


Residuals

Mean residual = $3.212012 \times 10^{-2} \pm 0.024108$



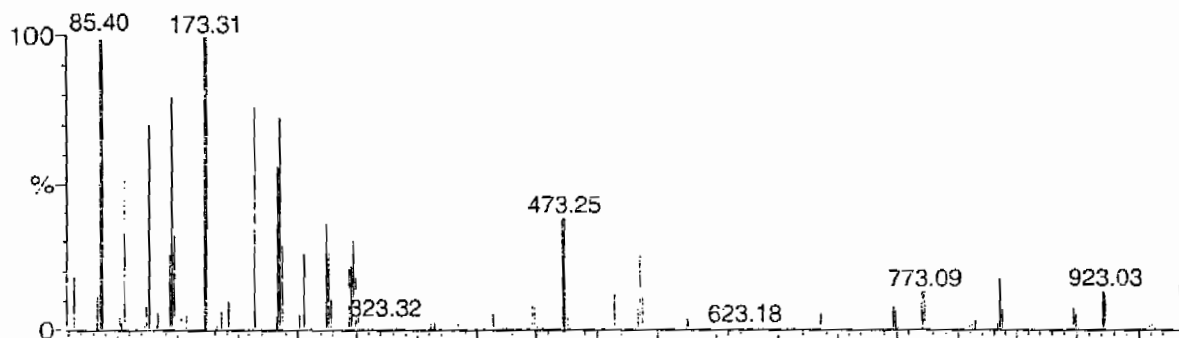
Printed: Tue Jan 08 12:20:09 2008



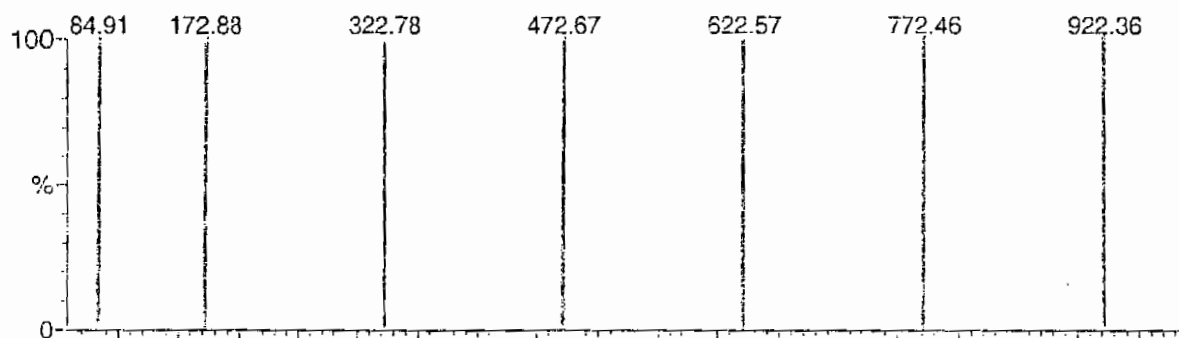
Printed: Tue Jan 08 12:21:04 2008

Data file: FASTMS1 - Uncalibrated

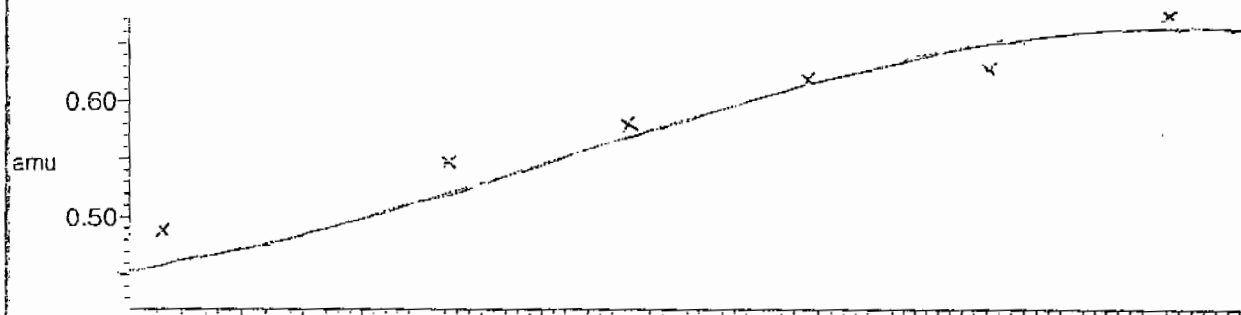
7 matches of 7 tested references



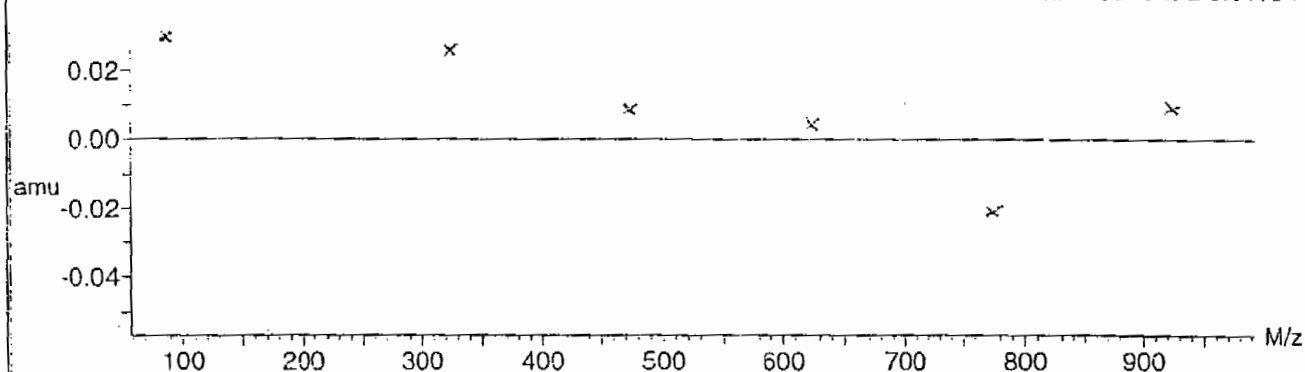
Reference file: Nairb



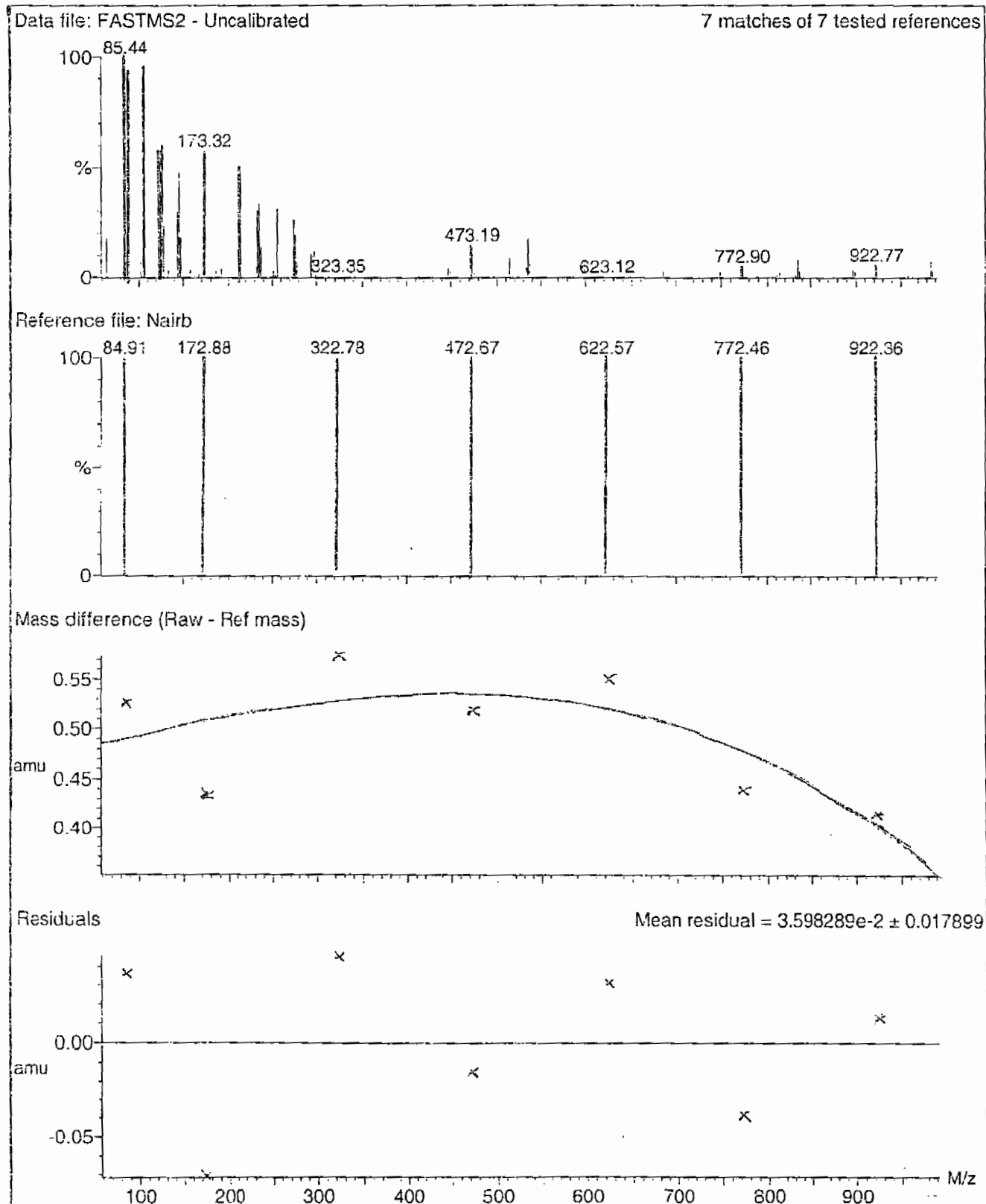
Mass difference (Raw - Ref mass)



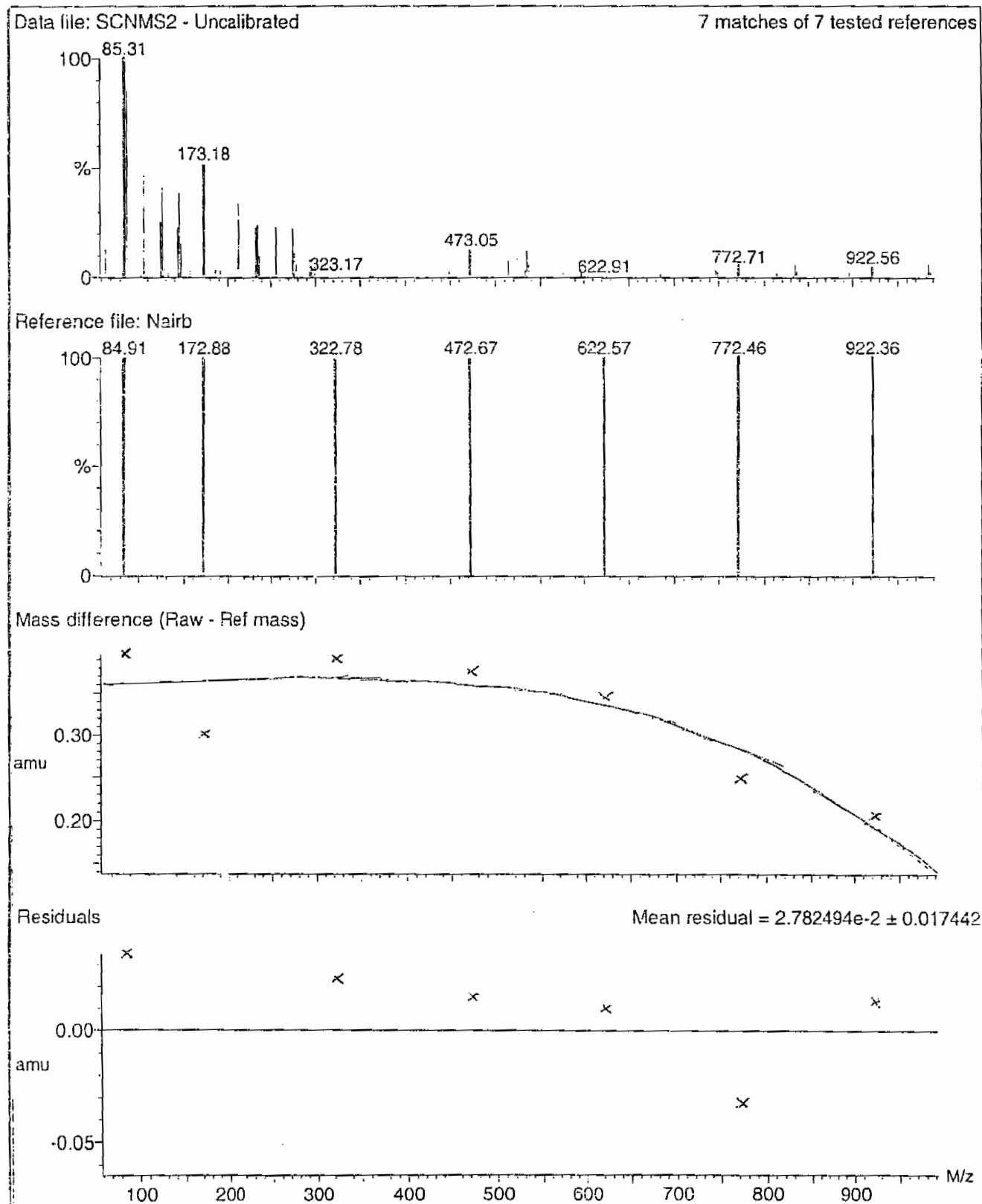
Residuals

Mean residual = $2.224580 \times 10^{-2} \pm 0.016544$ 

Printed: Tue Jan 08 12:23:51 2008



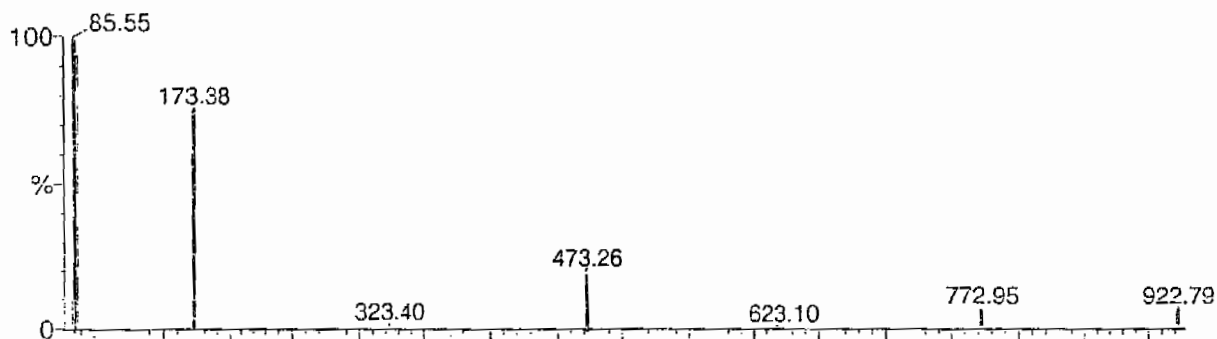
Printed: Tue Jan 08 12:22:56 2008



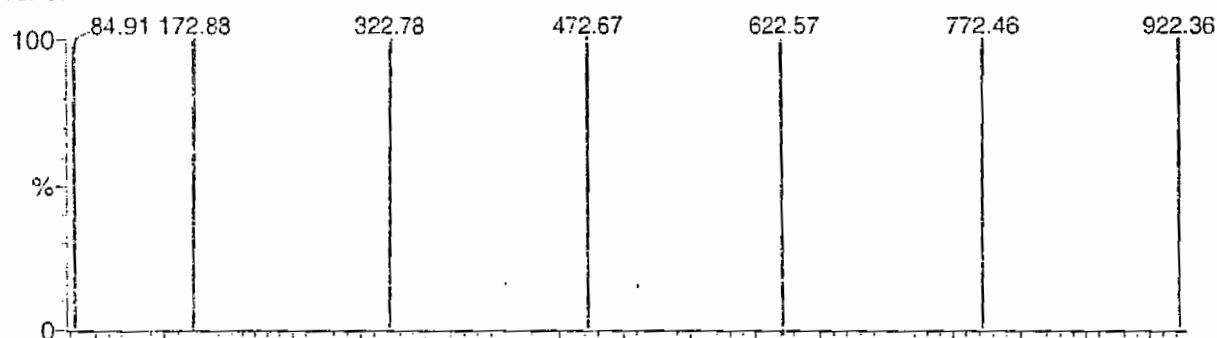
Printed: Tue Jan 08 12:21:59 2008

Data file: STATMS2 - Uncalibrated

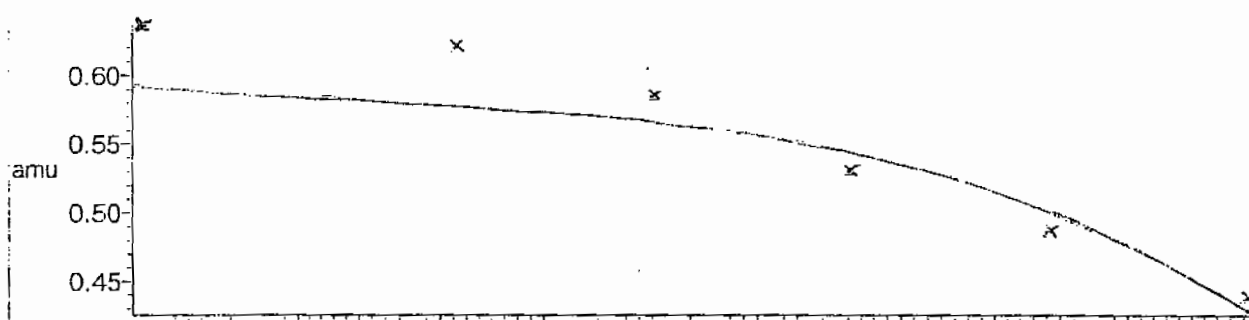
7 matches of 7 tested references



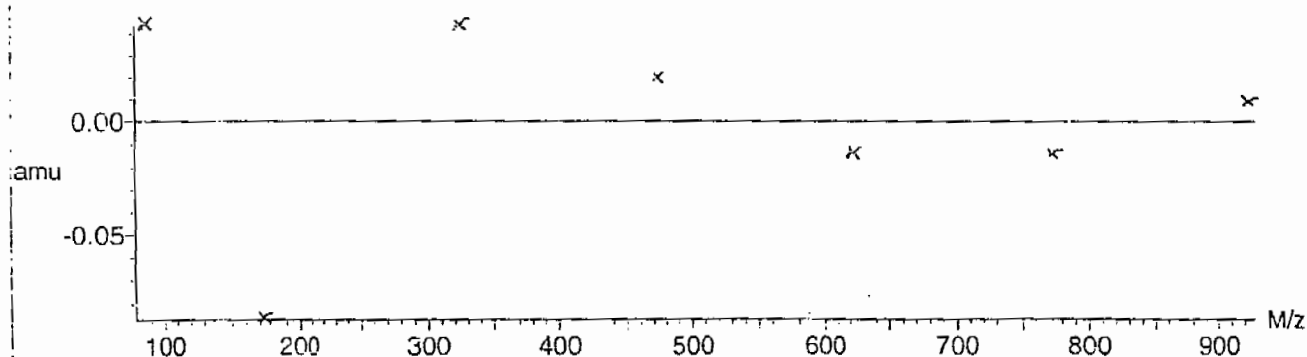
Reference file: Nairb



Mass difference (Raw - Ref mass)

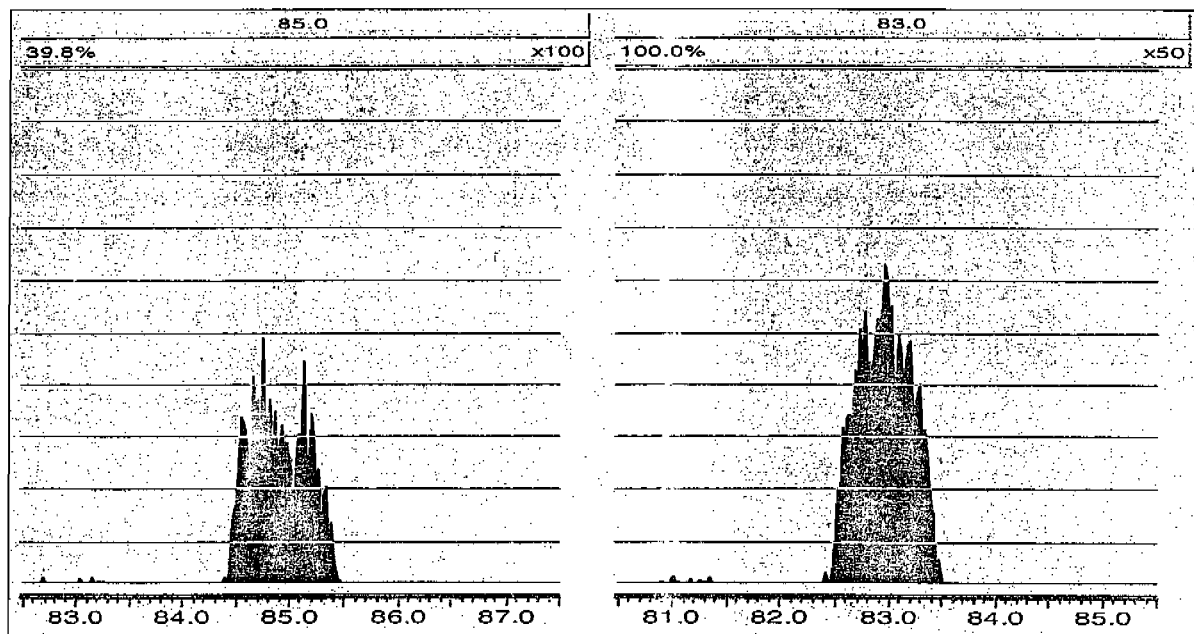


Residuals

Mean residual = $3.295980 \times 10^{-2} \pm 0.025603$ 

File: C:\MassLynx\Perchlorate.PRO\ACQUDB\Perchlorate.IPR

Printed: Tuesday, March 02, 2010 10:10:11 Eastern Standard Time



Perchlorate RT And Area Summary

GEL Job No.(SDG): 10-1915

Lab Name: General Engineering Laboratories

Lab Code: GEL

Instrument ID: LCMSMS

HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Sample ID	Datafile	Run Date	Area	RT	RT CLO4	RRT	Q 0.98-1.02
MidLevel Standard Area	per0302006a	02-MAR-10	20869.1				
Lower Area Limit			10434.55				
Upper Area Limit			41738.2				
1202054199	per0302080a	03-MAR-10 06:28	19787.3	3.22	3.24682	1.008	
1202054200	per0302081a	03-MAR-10 06:37	21424.1	3.22	3.23435	1.004	
1202054203	per0302082a	03-MAR-10 06:45	20280.9	3.22	3.23435	1.004	
247359001	per0302096a	03-MAR-10 08:45	20777.7	3.17	3.18463	1.005	
247359002	per0302097a	03-MAR-10 08:54	21210.9	3.16	3.17227	1.004	
247359003	per0302098a	03-MAR-10 09:03	21154.4	3.15	3.17227	1.007	
247359004	per0302099a	03-MAR-10 09:11	19594.3	3.16	3.17228	1.004	

SAMPLE DATA

Perchlorate Analysis Data Sheet

Client Sample No.
RE36-10-7427

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Date Received: 18-FEB-10

Method: SW846 6850 Modified

GEL Job No (SDG): 10-1915

Matrix: SOIL

GEL Sample ID: 247359001

Extraction Batch ID: 257927

Date Filtered: 26-FEB-10

Extraction Type: Solid Prep

Injection Volume (uL): 20

Sample Volume/Weight: 2.00 g

%Solids: 64

Concentrated Extract Volume: 20.0

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.787	3.15	2.15	ug/kg	J	1	03-MAR-10 08:45	per0302096a
	Perchlorate Isotope Ratio			3.08			1	03-MAR-10 08:45	per0302096a
14797-73-0	Perchlorate-101	.787	3.15	2.20	ug/kg	J	1	03-MAR-10 08:45	per0302096a
	Perchlorate-O(18)			7.91	ug/kg		1	03-MAR-10 08:45	per0302096a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302096a

Date: 03-Mar-2010

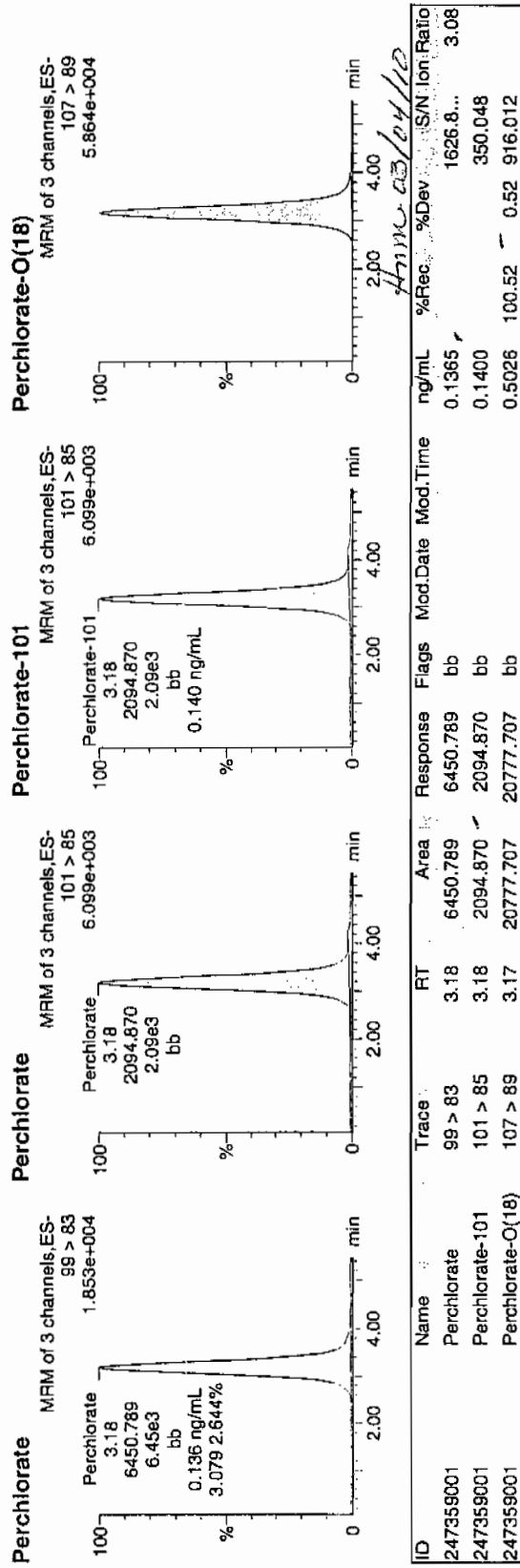
Time: 08:45:59

ID: 247359001

Val: 3:3,B

03-03-10

157924 | 5020 | 11



6450.789 | 10 | 100
47275 | 304 | 2.14
63.6

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
Lab Code: GEL
Instrument: LCMSMS
Method: SW846 6850 Modified
Matrix: SOIL
Extraction Batch ID: 957927
Extraction Type: Solid Prep
Sample Volume/Weight: 2.00 g
Concentrated Extract Volume: 20.0

Client Sample No.
RE36-10-7423
Date Received: 18-FEB-10
GEL Job No (SDG): 10-1915
GEL Sample ID: 247359002
Date Filtered: 26-FEB-10
Injection Volume (uL): 20
%Solids: 49

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	1.02	4.09	1.28	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate Isotope Ratio			3.09			1	03-MAR-10 08:54	per0302097a
14797-73-0	Perchlorate-101	1.02	4.09	1.31	ug/kg	J	1	03-MAR-10 08:54	per0302097a
	Perchlorate-O(18)			10.5	ug/kg		1	03-MAR-10 08:54	per0302097a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Aliquot}} \times \frac{1}{\% \text{Solids}}$$

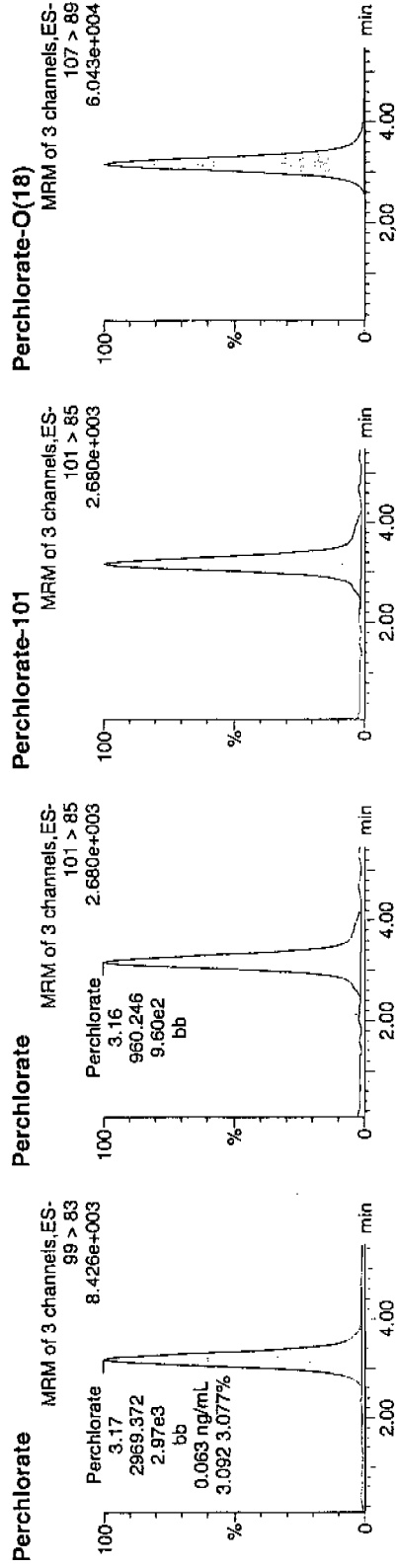
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Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302097a
Date: 03-Mar-2010
Time: 08:54:39
ID: 247359002
Vial: 3:3,C

03-03-10

1222 | 957927 | 50625 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
247359002	Perchlorate	99 > 83	3.17	2969.372	2969.372	bb			0.0628			706.869	3.09
247359002	Perchlorate-101	101 > 85	3.16	960.246	960.246	bb			0.0642			184.589	
247359002	Perchlorate-O(18)	107 > 89	3.16	21210.949	21210.949	bb			0.5131	102.62	2.62	1050.7...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC

Lab Code: GEL

Instrument: LCMSMS

Method: SW846 6850 Modified

Matrix: SOIL

Extraction Batch ID: 257927

Extraction Type: Solid Prep

Sample Volume/Weight: 2.00 g

Concentrated Extract Volume: 20.0

Client Sample No.

RE36-10-7428

Date Received: 18-FEB-10

GEL Job No (SDG): 10-1915

GEL Sample ID: 247359003

Date Filtered: 26-FEB-10

Injection Volume (uL): 20

%Solids: 21.4

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	1.13	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate Isotope Ratio			2.89			1	03-MAR-10 09:03	per0302098a
14797-73-0	Perchlorate-101	.547	2.19	1.24	ug/kg	J	1	03-MAR-10 09:03	per0302098a
	Perchlorate-O(18)			5.60	ug/kg		1	03-MAR-10 09:03	per0302098a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X $\frac{\text{Concentrated Extract Volume}}{\text{Aliquot}}$ X %Solids

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

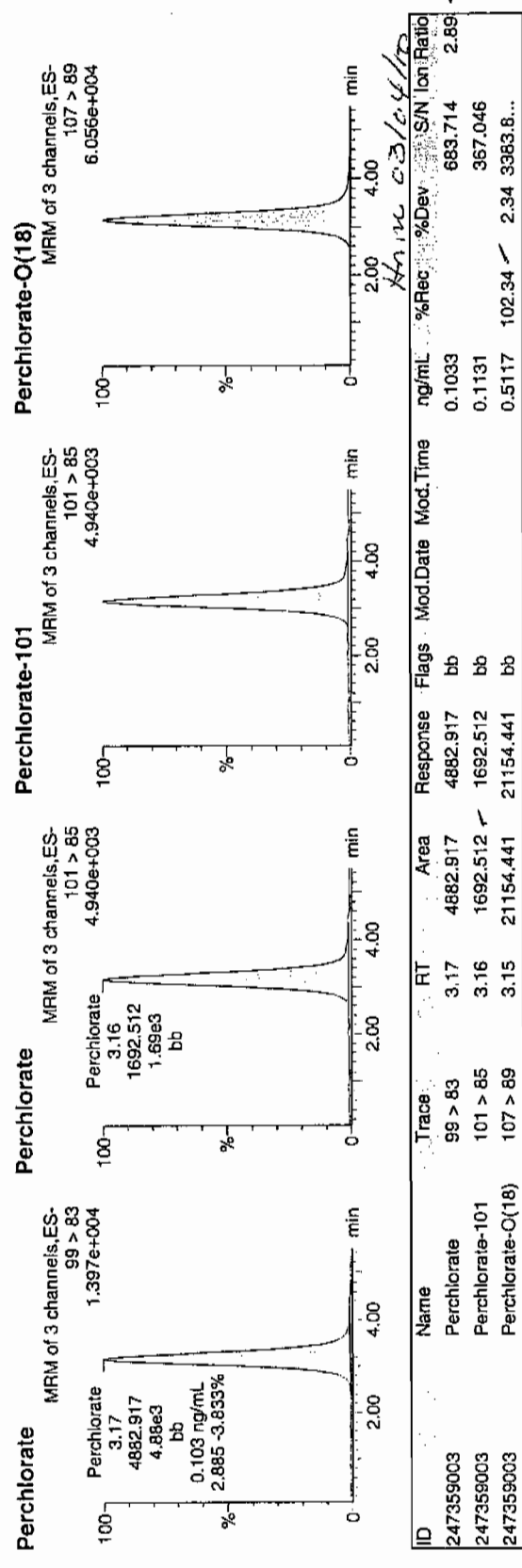
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Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302098a
Date: 03-Mar-2010
Time: 09:03:11
ID: 247359003
Val: 3:3,D

03-03-10

LANC 1957927 | 3020 | 11



Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: SW846 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 957927
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. RE36-10-7424
 Date Received: 18-FEB-10
 GEL Job No (SDG): 10-1915
 GEL Sample ID: 247359004
 Date Filtered: 26-FEB-10
 Injection Volume (uL): 20
 %Solids: 91.4

CAS No.	Analyte ^a	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate Isotope Ratio						1	03-MAR-10 09:11	per0302099a
14797-73-0	Perchlorate-101	.547	2.19	0.547	ug/kg	U	1	03-MAR-10 09:11	per0302099a
	Perchlorate-O(18)			5.19	ug/kg		1	03-MAR-10 09:11	per0302099a

^a When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Aliquot}} \times \frac{1}{\% \text{Solids}}$$

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Page Name: per0302099a

Date: 03-Mar-2010

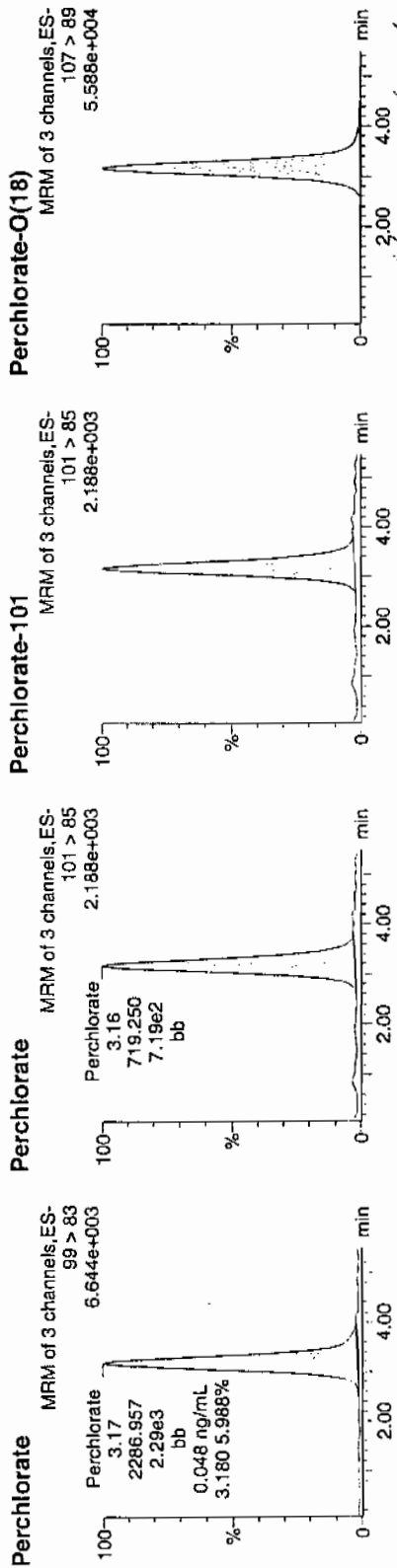
Time: 09:11:43

ID: 247359004

Vial: 3:3,E

03-03-10

12221957429 | 50020 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
247359004	Perchlorate	99 > 83	3.17	2286.957	2286.957	bb			0.0484			349.976	3.18
247359004	Perchlorate-101	101 > 85	3.16	719.250	719.250	bb			0.0481			204.141	
247359004	Perchlorate-O(18)	107 > 89	3.16	19594.326	19594.326	bb			0.4740	94.80	-5.20	2280.9...	

STANDARDS DATA

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1915Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMS Date Analyzed: 02-MAR-10HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parmname Perchlorate

Coefficient of Determination:

Calibration Curve: 47275.02Response Type: External StandardCurve Type: RF

Perchlorate Initial Calibration

GEL Job No.(SDG): 10-1915Lab Name: General Engineering LaboratoriesLab Code: GELInstrument ID: LCMSMS Date Analyzed: 02-MAR-10HPLC Column: Phenomenex Ion Pac AG-16 2 X 50 mm

Calibration Level	1	2	3	4	5
Cal Concentration (ug/L)	0.05	0.1	0.25	0.50	1.0

Parmname Perchlorate-101

Coefficient of Determination:

Calibration Curve: 14962.94Response Type: External StandardCurve Type: RF

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Method: C:\MassLynx\Perchlorate.PRO\MethDB\per030310a.mdb 03 Mar 2010 08:37:44
Calibration: C:\MassLynx\Perchlorate.PRO\CurveDB\per030210a.cdb 03 Mar 2010 11:30:20

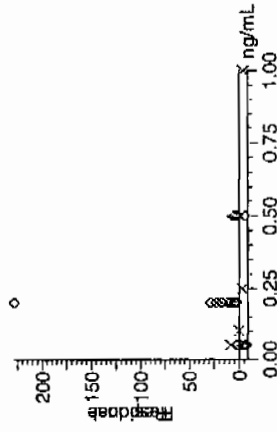
64 Compound name: Perchlorate

Response Factor: 47275

RF SD: 2481.24, % Relative SD: 5.24853

Response type: External Std, Area

Curve type: RF



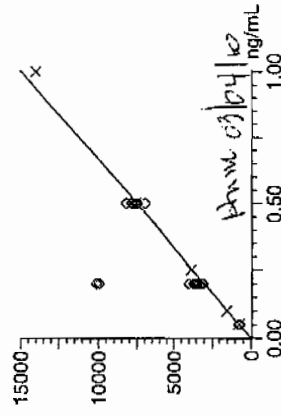
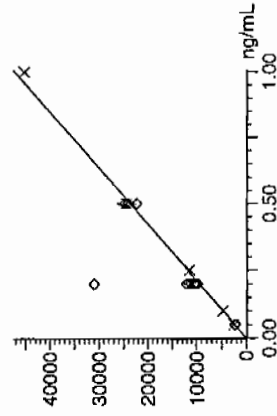
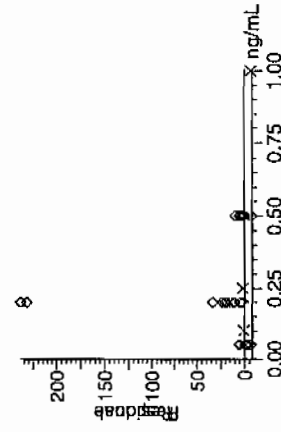
Compound name: Perchlorate-101

Response Factor: 14962.9

RF SD: 535.272, % Relative SD: 3.57732

Response type: External Std, Area

Curve type: RF



The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

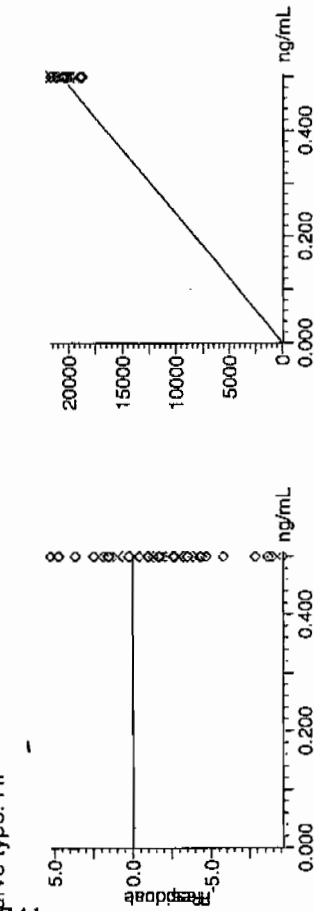
Compound name: Perchlorate-O(18)

Response Factor: 41339.9

RF SD: 1355.58, % Relative SD: 3.2791

Response type: External Std, Area

Curve type: RF



Perchlorate Initial Calibration Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.53	105.07	02-MAR-10 20:18	per0302009a
Perchlorate Isotope Ratio		3.28		02-MAR-10 20:18	per0302009a
Perchlorate-101	.5	.51	101.23	02-MAR-10 20:18	per0302009a

Quantify Sample Report MassLynx 4.0 SP4

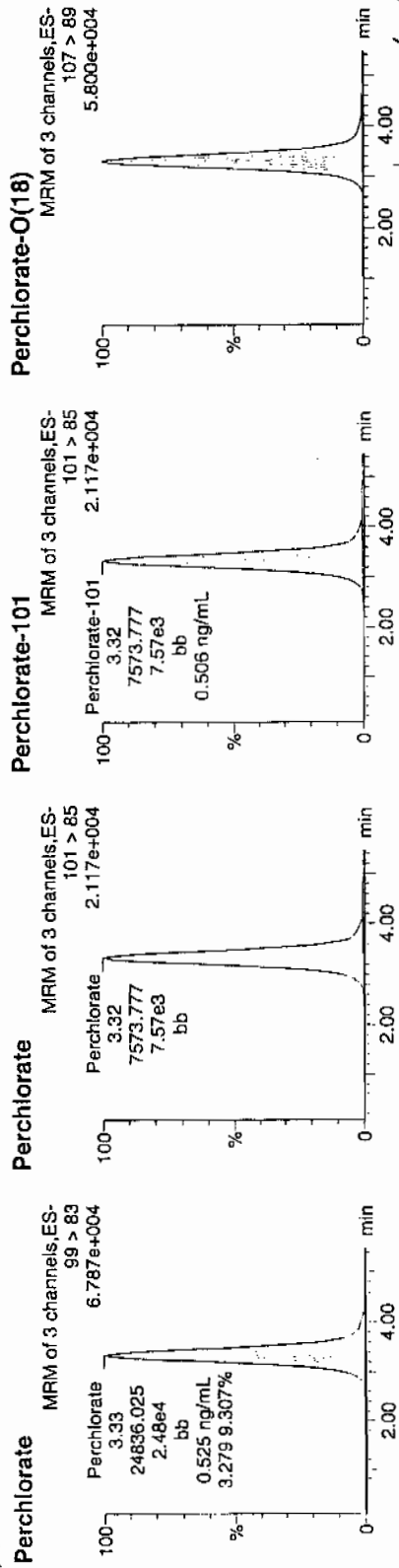
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302009a
 Date: 02-Mar-2010
 Time: 20:18:36
 ID: WCL100227-06ICV
 Vial: 1:2,A

Per
 03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06ICV	Perchlorate	99 > 83	3.33	24836.025	24836.025	bb			0.5254	105.07	5.07	5944.7...	3.28
WCL100227-06ICV	Perchlorate-101	101 > 85	3.32	7573.777	7573.777	bb			0.5062	101.23	1.23	493.887	
WCL100227-06ICV	Perchlorate-O(18)	107 > 89	3.32	20722.873	20722.873	bb			0.5013	100.26	0.26	1599.5...	

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.5	.51	101.48	02-MAR-10 22:01	per0302021a
Perchlorate Isotope Ratio		3.08		02-MAR-10 22:01	per0302021a
Perchlorate-101	.5	.52	104.12	02-MAR-10 22:01	per0302021a
Perchlorate	.5	.51	102.33	02-MAR-10 23:35	per0302032a
Perchlorate Isotope Ratio		3.17		02-MAR-10 23:35	per0302032a
Perchlorate-101	.5	.51	102	02-MAR-10 23:35	per0302032a
Perchlorate	.5	.53	106.95	03-MAR-10 01:09	per0302043a
Perchlorate Isotope Ratio		3.08		03-MAR-10 01:09	per0302043a
Perchlorate-101	.5	.55	109.69	03-MAR-10 01:09	per0302043a
Perchlorate	.5	.52	104.6	03-MAR-10 02:53	per0302055a
Perchlorate Isotope Ratio		3.23		03-MAR-10 02:53	per0302055a
Perchlorate-101	.5	.51	102.21	03-MAR-10 02:53	per0302055a
Perchlorate	.5	.52	104.28	03-MAR-10 04:27	per0302066a

Perchlorate Continuing Calibration Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Perchlorate Isotope Ratio			3.12		03-MAR-10 04:27	per0302066a
Perchlorate-101	.5		.53	105.61	03-MAR-10 04:27	per0302066a
Perchlorate	.5		.51	102.41	03-MAR-10 06:02	per0302077a
Perchlorate Isotope Ratio			3.08		03-MAR-10 06:02	per0302077a
Perchlorate-101	.5		.52	104.97	03-MAR-10 06:02	per0302077a
Perchlorate	.5		.51	101.97	03-MAR-10 07:45	per0302089a
Perchlorate Isotope Ratio			3.25		03-MAR-10 07:45	per0302089a
Perchlorate-101	.5		.5	99.28	03-MAR-10 07:45	per0302089a
Perchlorate	.5		.5	99.47	03-MAR-10 09:20	per0302100a
Perchlorate Isotope Ratio			3.13		03-MAR-10 09:20	per0302100a
Perchlorate-101	.5		.5	100.28	03-MAR-10 09:20	per0302100a

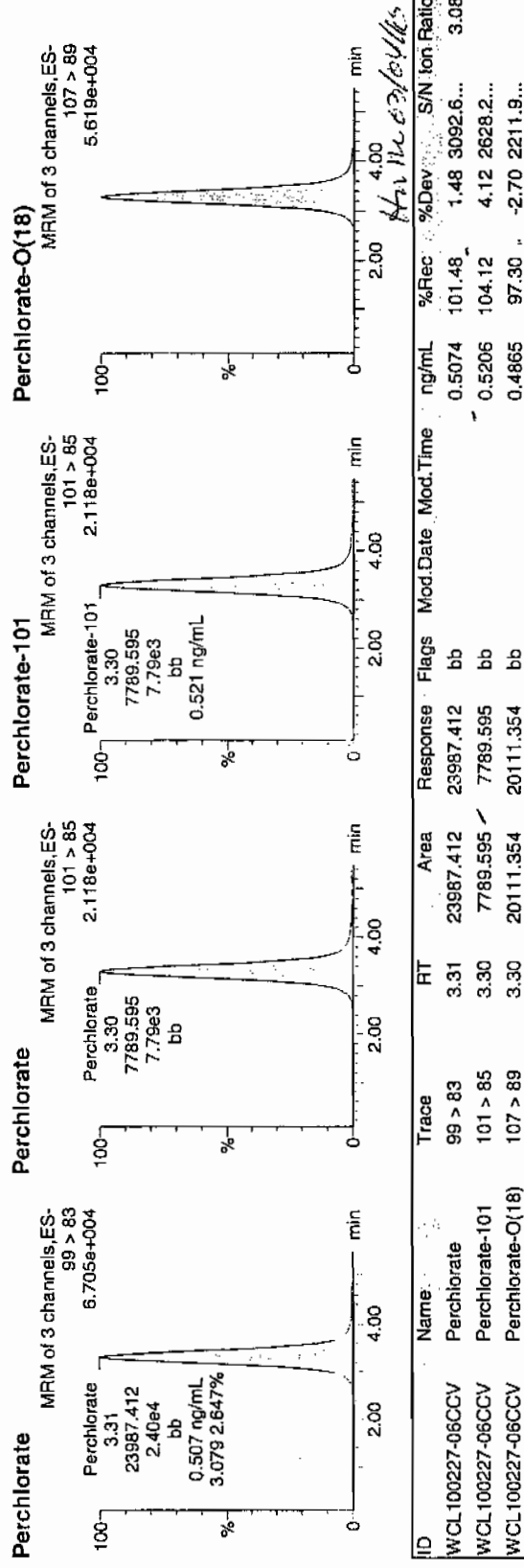
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302021a
Date: 02-Mar-2010
Time: 22:01:21
ID: WCL100227-06CCV
Vial: 1;2,A

Per
WCL
03-03-10



Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302032a

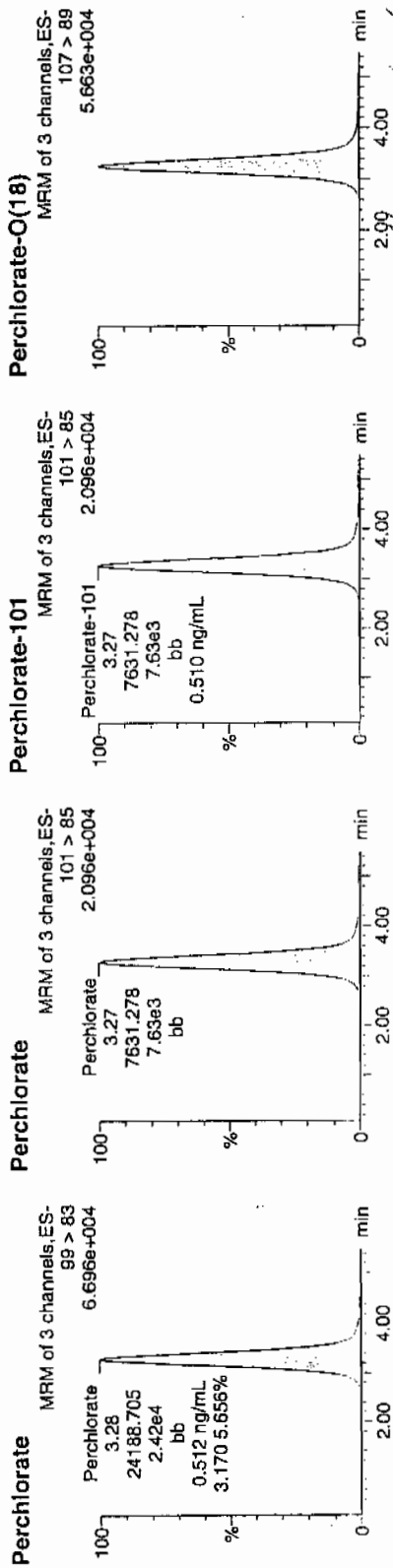
Date: 02-Mar-2010

Time: 23:35:42

ID: WCL100227-06CCV

Mali: 1:2,A

*Perms
03-03-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.28	24188.705	24188.705	bb			0.5117	102.33	2.33	2081.0...	3.17
WCL100227-06CCV	Perchlorate-101	101 > 85	3.27	7631.278	7631.278	bb			0.5100	102.00	2.00	1556.0...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.26	20318.123	20318.123	bb			0.4915	98.30	-1.70	3259.1...	

Quantify Sample Report MassLynx 4.0 SP4

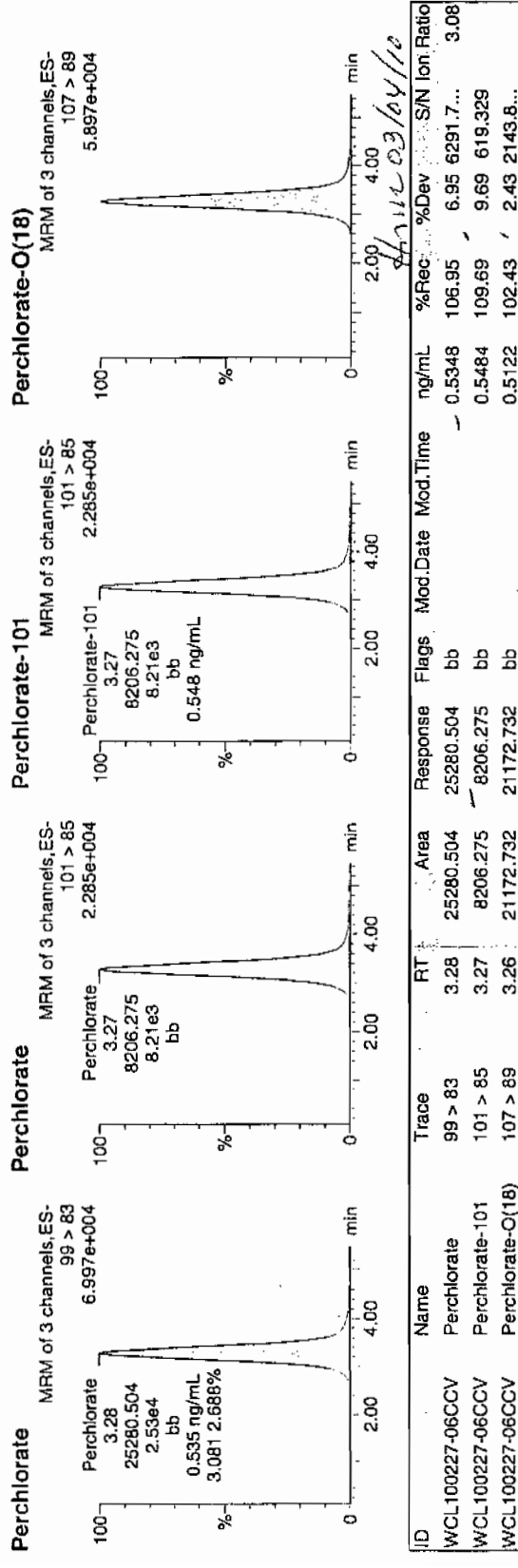
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
 Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302043a
 Date: 03-Mar-2010
 Time: 01:09:59
 ID: WCL100227-06CCV
 Vial: 1:2,A

*Per
 03-03-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.28	25280.504	25280.504	bb			0.5348	106.95	6.95	6291.7...	3.08
WCL100227-06CCV	Perchlorate-101	101 > 85	3.27	8206.275	8206.275	bb			0.5484	109.69	9.69	619.329	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.26	21172.732	21172.732	bb			0.5122	102.43	2.43	2143.8...	

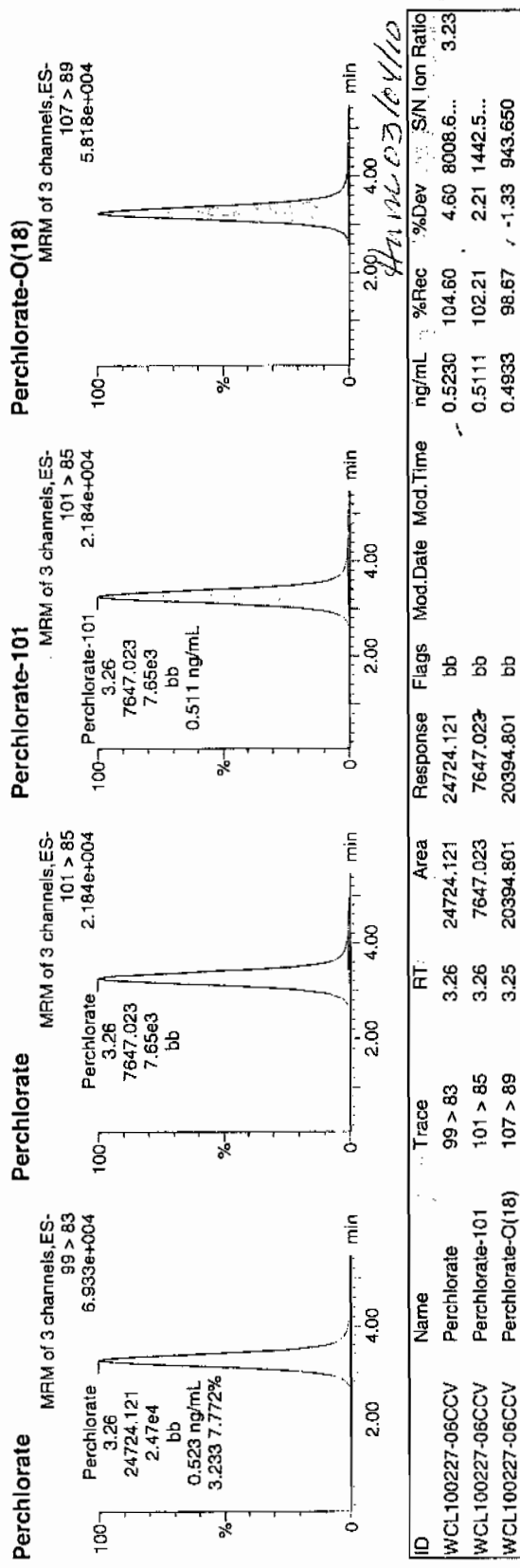
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302055a
Date: 03-Mar-2010
Time: 02:53:10
ID: WCL100227-06CCV
Al: 1:2,A

Per
03-03-10



Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302066a

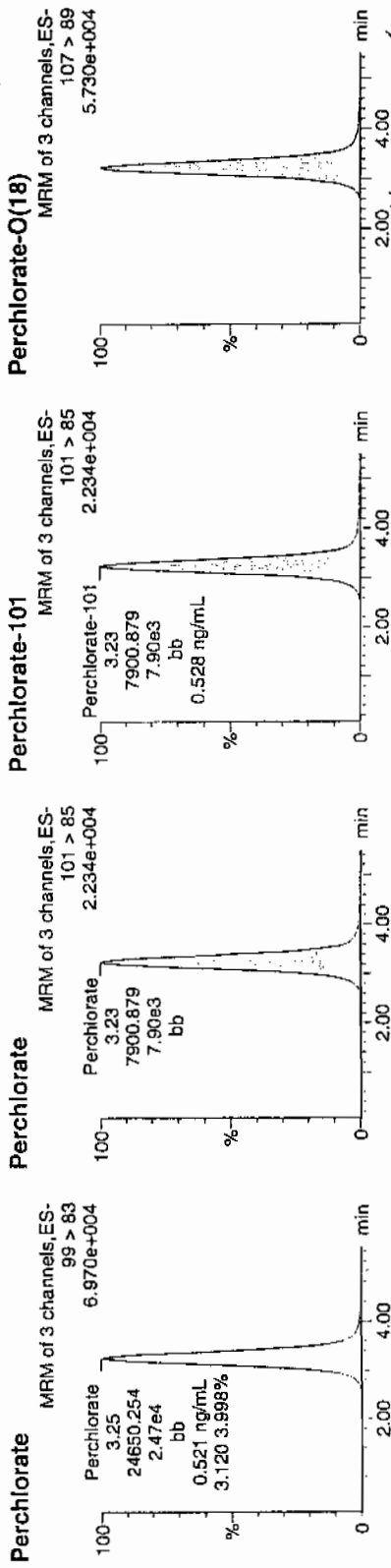
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Time: 04:27:35

ID: WCL100227-06CCV

Vial: 1:2,A

Perchlorate
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.25	24650.254	24650.254	bb			0.5214	104.28	4.28	3773.9...	3.12
WCL100227-06CCV	Perchlorate-101	101 > 85	3.23	7900.879	7900.879	bb			0.5280	105.61	5.61	523.556	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.23	20334.051	20334.051	bb			0.4919	98.37	-1.63	3632.5...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302077a

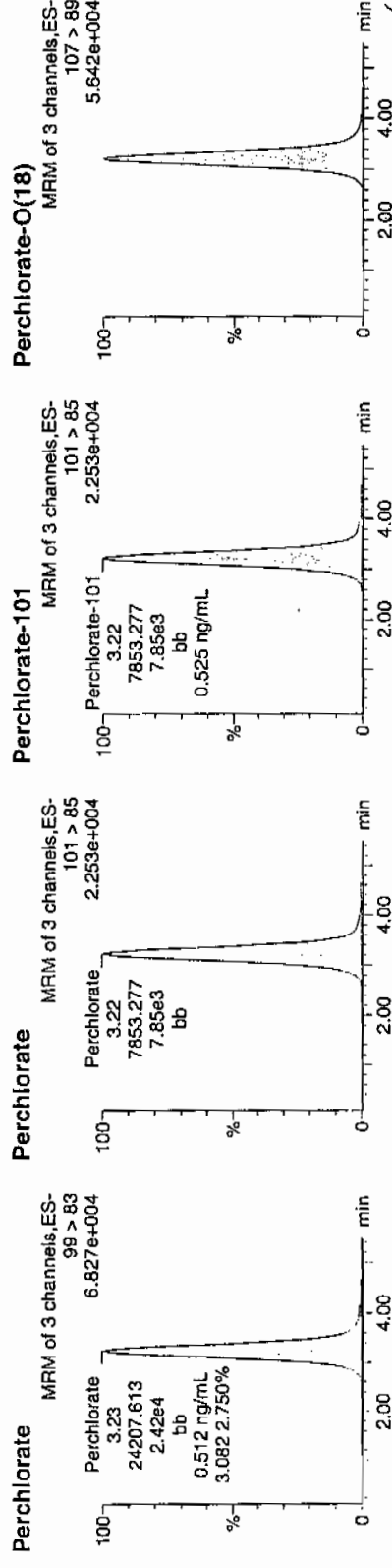
Date: 03-Mar-2010

Time: 06:02:12

ID: WCL100227-06CCV

Label: 1:2,A

Per
WCL
03-03-10



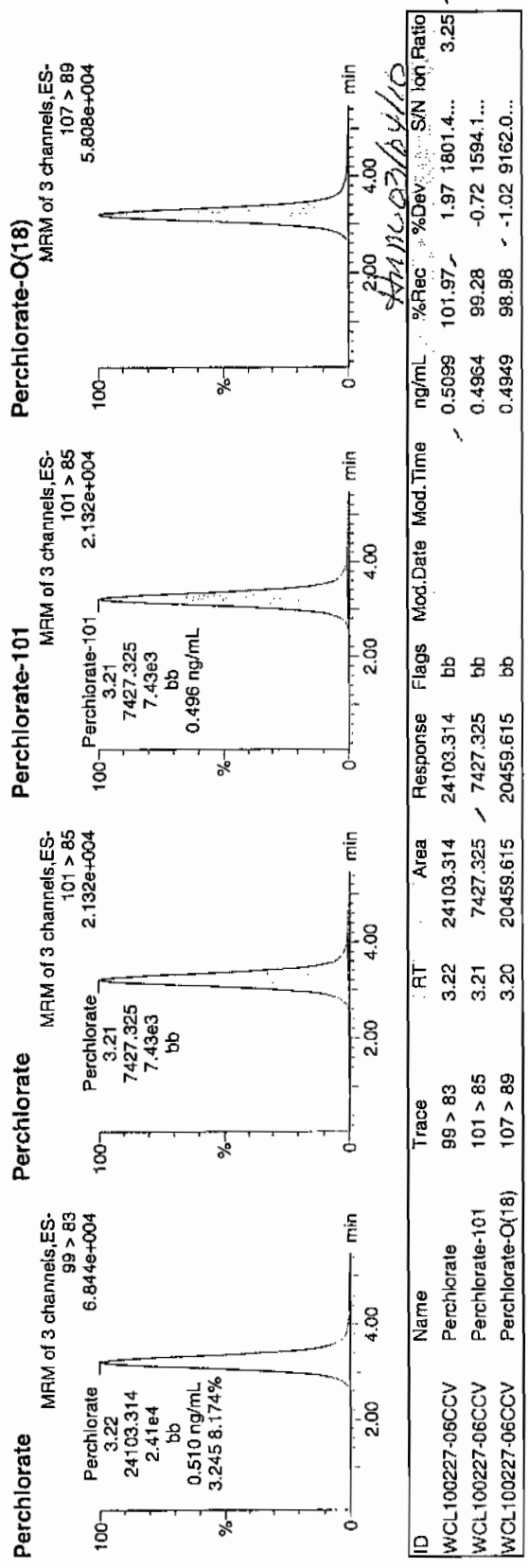
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.23	24207.613	24207.613	bb			0.5121	102.41	2.41	999.245	3.08
WCL100227-06CCV	Perchlorate-101	101 > 85	3.22	7853.277	7853.277	bb			0.5248	104.97	4.97	3655.5...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.22	19873.934	19873.934	bb			0.4807	96.15	-3.85	5067.5...	

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302089a
Date: 03-Mar-2010
Time: 07:45:33
ID: WCL100227-06CCV
Vial: 1:2,A

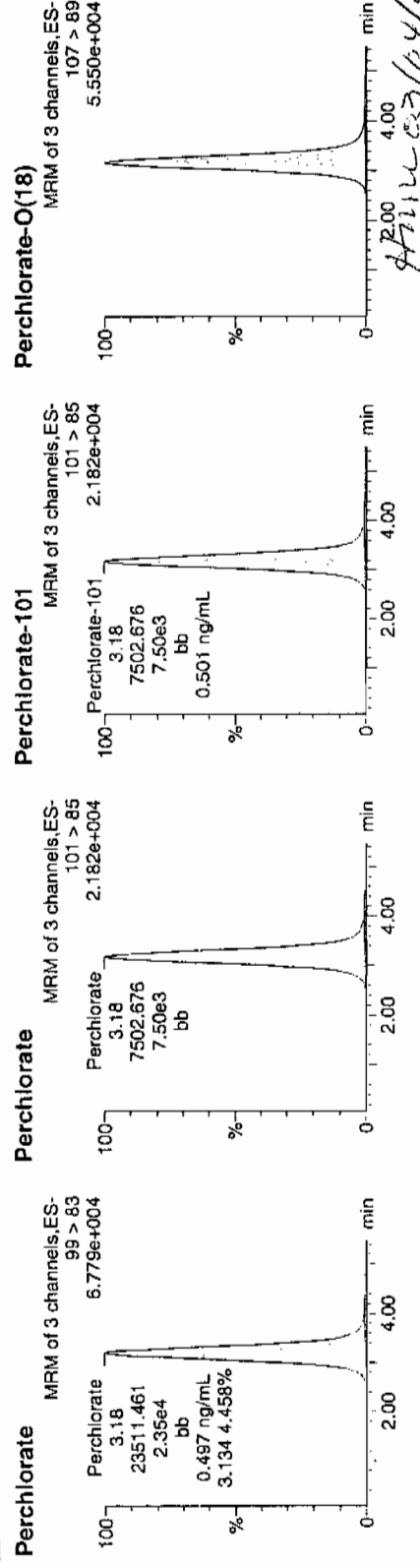


Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Perchlorate
Name: per0302100a
Date: 03-Mar-2010
Time: 09:20:14
ID: WCL100227-06CCV
Mat: 1:2,A

Perchlorate
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-06CCV	Perchlorate	99 > 83	3.18	23511.461	23511.461	bb			0.4973	99.47	-0.53	1821.1...	3.13
WCL100227-06CCV	Perchlorate-101	101 > 85	3.18	7502.676	7502.676	bb			0.5014	100.28	0.28	1678.6...	
WCL100227-06CCV	Perchlorate-O(18)	107 > 89	3.17	19472.346	19472.346	bb			0.4710	94.21	-5.79	6457.8...	

Perchlorate MDL Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Analyte	True	Found	%Rec	Date Analyzed	GEL File Id
Perchlorate	.05	.05	101.22	02-MAR-10 20:35	per0302011a
Perchlorate Isotope Ratio		3.24		02-MAR-10 20:35	per0302011a
Perchlorate-101	.05	.05	98.76	02-MAR-10 20:35	per0302011a
Perchlorate	.05	.05	92.01	02-MAR-10 22:18	per0302023a
Perchlorate Isotope Ratio		2.9		02-MAR-10 22:18	per0302023a
Perchlorate-101	.05	.05	100.13	02-MAR-10 22:18	per0302023a
Perchlorate	.05	.05	103.15	02-MAR-10 23:52	per0302034a
Perchlorate Isotope Ratio		3.34		02-MAR-10 23:52	per0302034a
Perchlorate-101	.05	.05	97.56	02-MAR-10 23:52	per0302034a
Perchlorate	.05	.05	96.56	03-MAR-10 01:27	per0302045a
Perchlorate Isotope Ratio		2.88		03-MAR-10 01:27	per0302045a

Perchlorate MDL Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Perchlorate-101	.05	.05	.05	105.83	03-MAR-10 01:27	per0302045a
Perchlorate	.05	.05	.05	98.34	03-MAR-10 03:10	per0302057a
Perchlorate Isotope Ratio			3.17		03-MAR-10 03:10	per0302057a
Perchlorate-101	.05	.05	.05	97.96	03-MAR-10 03:10	per0302057a
Perchlorate	.05	.05	.05	92.68	03-MAR-10 04:45	per0302068a
Perchlorate Isotope Ratio			3.03		03-MAR-10 04:45	per0302068a
Perchlorate-101	.05	.05	.05	96.57	03-MAR-10 04:45	per0302068a
Perchlorate	.05	.05	.05	95.2	03-MAR-10 06:19	per0302079a
Perchlorate Isotope Ratio			2.87		03-MAR-10 06:19	per0302079a
Perchlorate-101	.05	.05	.05	104.8	03-MAR-10 06:19	per0302079a
Perchlorate	.05	.05	.05	93.37	03-MAR-10 08:02	per0302091a

Perchlorate MDL Verification

Lab Name: General Engineering LaboratoriesGEL Job No.(SDG): 10-1915Lab Code: GELReporting Units: ug/kg

Perchlorate Isotope Ratio		3.13		03-MAR-10 08:02	per0302091a
Perchlorate-101	.05	.05	94.23	03-MAR-10 08:02	per0302091a
Perchlorate	.05	.05	95.91	03-MAR-10 09:37	per0302102a
Perchlorate Isotope Ratio		3.08		03-MAR-10 09:37	per0302102a
Perchlorate-101	.05	.05	98.48	03-MAR-10 09:37	per0302102a

Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charters W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qid

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

File Name: per0302011a

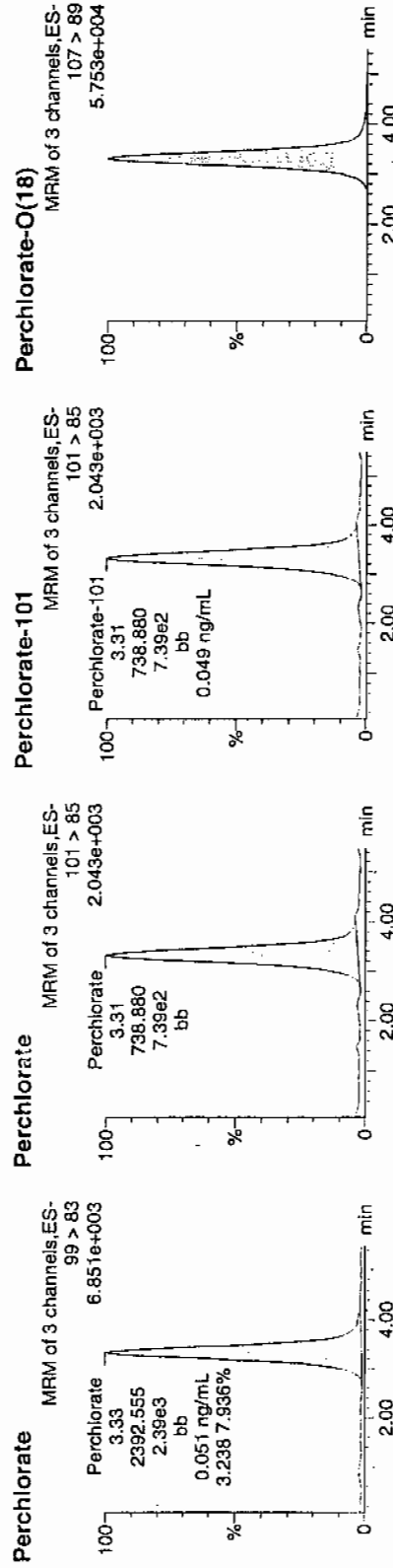
Date: 02-Mar-2010

Time: 20:35:41

ID: WCL100227-07CRI

Vial: 1;2,B

03-03-10



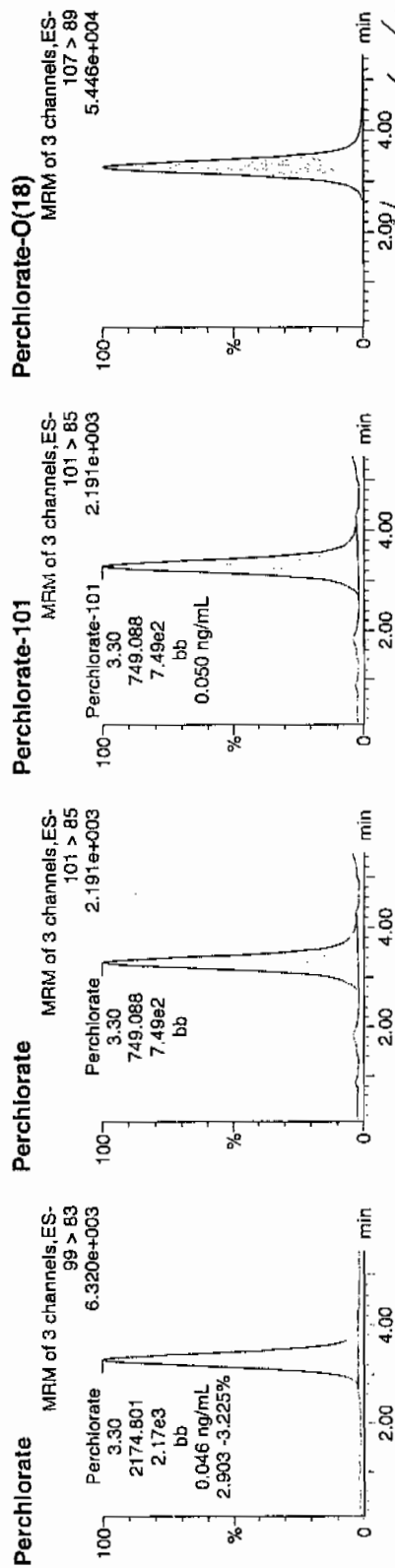
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.33	2392.555	2392.555	bb			0.0506	101.22	1.22	360.943	3.24
WCL100227-07CRI	Perchlorate-101	101 > 85	3.31	738.880	738.880	bb			0.0494	98.76	-1.24	58.109	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.31	20475.990	20475.990	bb			0.4953	99.06	-0.94	6968.6...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

File Name: per0302023a
Date: 02-Mar-2010
Time: 22:18:34
ID: WCL100227-07CRI
Vial: 1:2,B

Pure
0.050
0.050-10



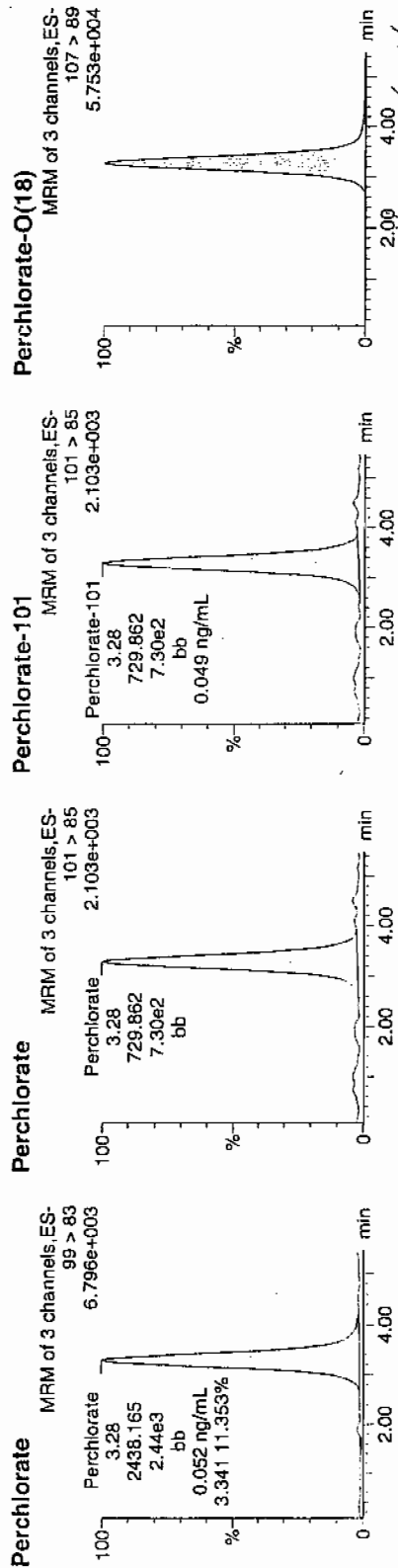
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.30	2174.801	2174.801	bb			0.0460	92.01	-7.99	131.967	2.90
WCL100227-07CRI	Perchlorate-101	101 > 85	3.30	749.088	749.088	bb			0.0501	100.13	0.13	422.280	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.28	19759.566	19759.566	bb			0.4780	95.60	-4.40	1176.9...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302034a
Date: 02-Mar-2010
Time: 23:52:47
ID: WCL100227-07CRI
Vial: 1:2,B

Per
WCL
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.28	2438.165	2438.165	bb			0.0516	103.15	3.15	340.964	3.34
WCL100227-07CRI	Perchlorate-101	101 > 85	3.28	729.862	729.862	bb			0.0488	97.56	-2.44	191.841	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.27	20457.936	20457.936	bb			0.4949	98.97	-1.03	5383.4...	

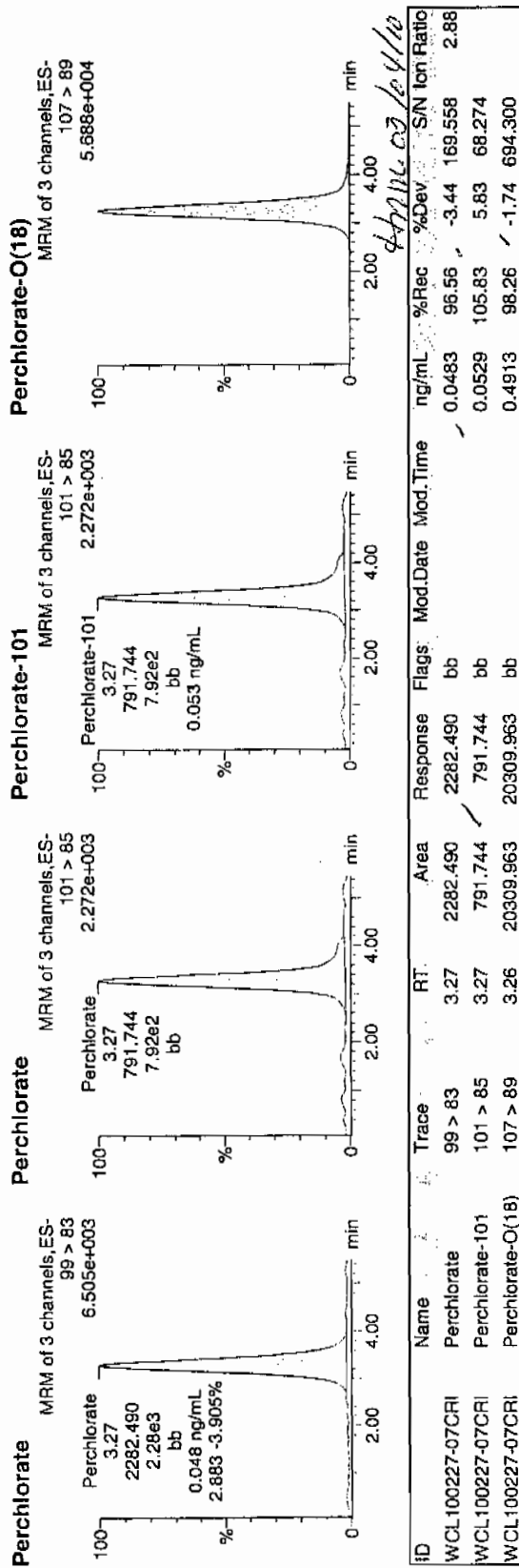
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302045a
Date: 03-Mar-2010
Time: 01:27:19
ID: WCL100227-07CRI
Vial: 1:2,B

Pure
6m2
03-03-10



Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302057a

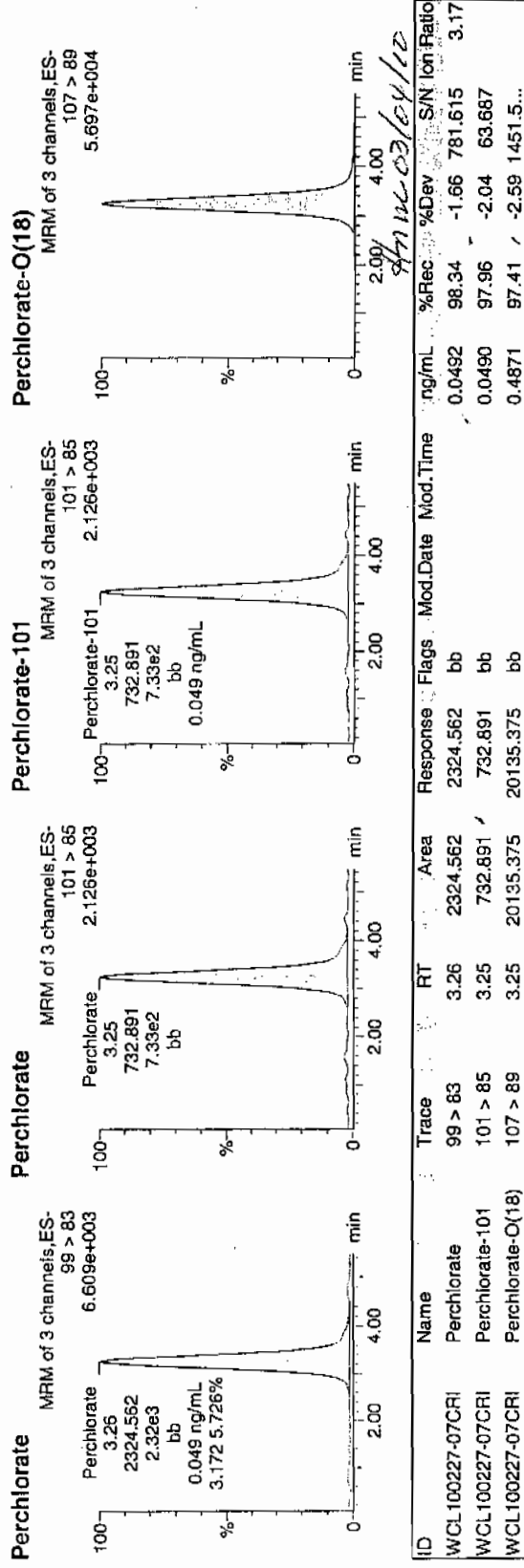
Date: 03-Mar-2010

Time: 03:10:29

ID: WCL100227-07CRI

Anal: 1:2,B

Per
WCL
03-03-10



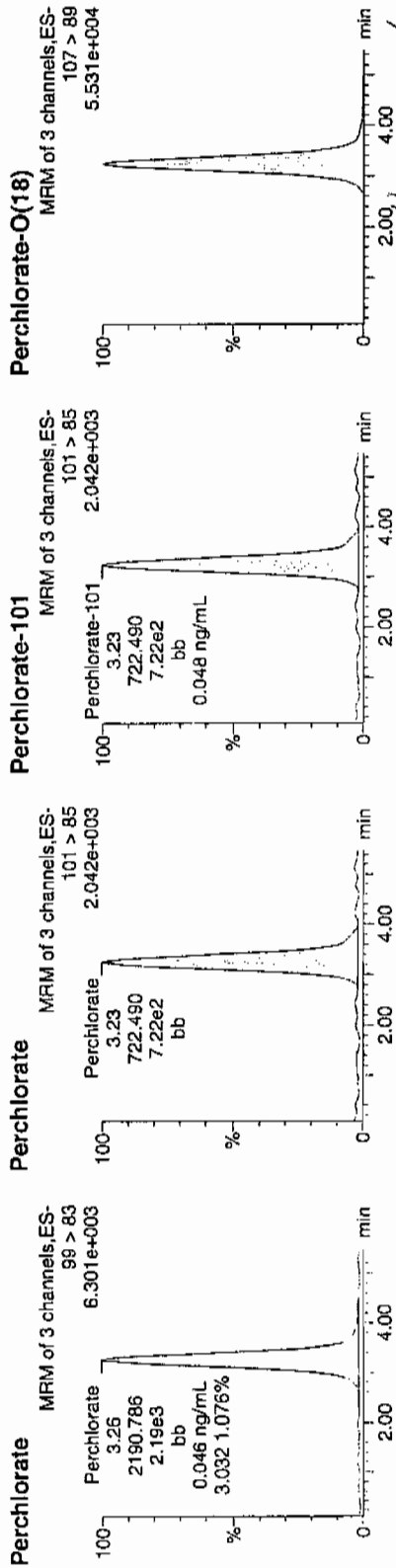
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charles W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Perchlorate
Sample Name: per0302068a
Date: 03-Mar-2010
Time: 04:45:01
ID: WCL100227-07CRI
Vial: 1:2,B

Perchlorate
03-03-10



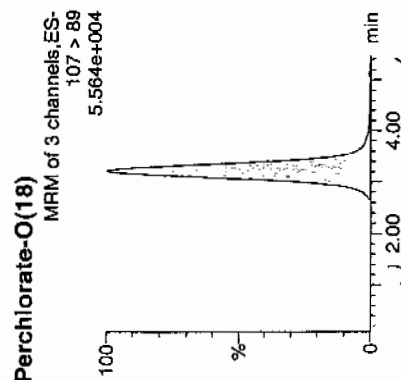
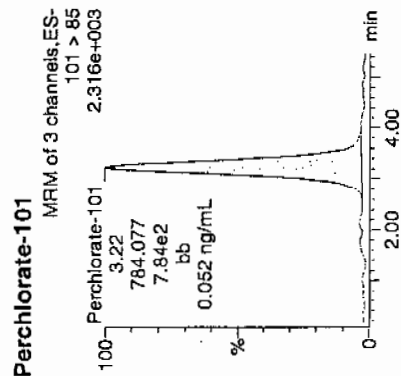
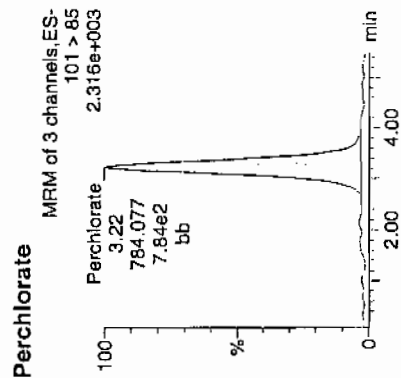
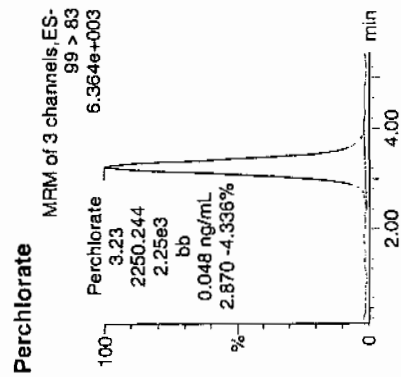
ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.26	2190.786	2190.786	bb			0.0463	92.68	-7.32	121.827	3.03
WCL100227-07CRI	Perchlorate-101	101 > 85	3.23	722.490	722.490	bb			0.0483	96.57	-3.43	261.092	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.23	19786.176	19786.176	bb			0.4786	95.72	-4.28	5949.0...	

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Perchlorate
Name: per0302079a
Date: 03-Mar-2010
Time: 06:19:47
ID: WCL100227-07CRI
Al: 1:2,B

Perchlorate
03-03-10



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.23	2250.244	2250.244	bb			0.0476	95.20	-4.80	808.938	2.87
WCL100227-07CRI	Perchlorate-101	101 > 85	3.22	784.077	784.077	bb			0.0524	104.80	4.80	347.245	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.22	19700.514	19700.514	bb			0.4765	95.31	-4.69	3362.4...	

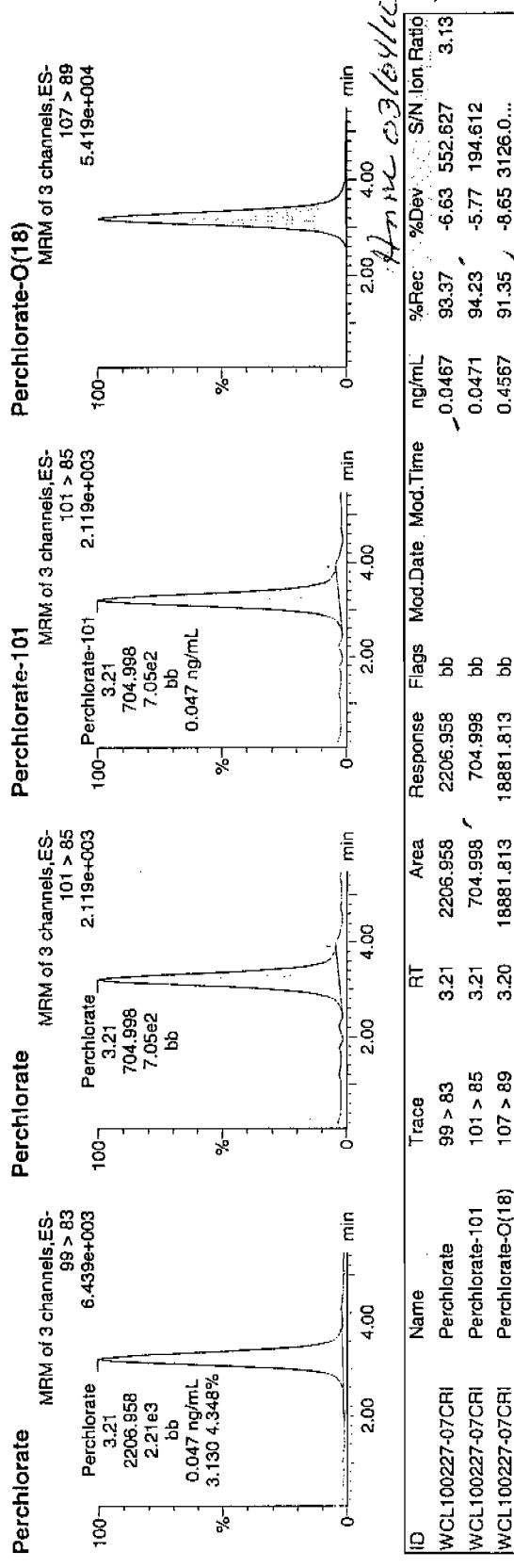
Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

File Name: per0302091a
Date: 03-Mar-2010
Time: 08:02:58
ID: WCL100227-07CRI
Val: 1:2,B

Pass
and
03-03-10



Quantify Sample Report MassLynx 4.0 SP4

The GEL Group, LLC Analyst: Charlers W. Wilson

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Sample Name: per0302102a

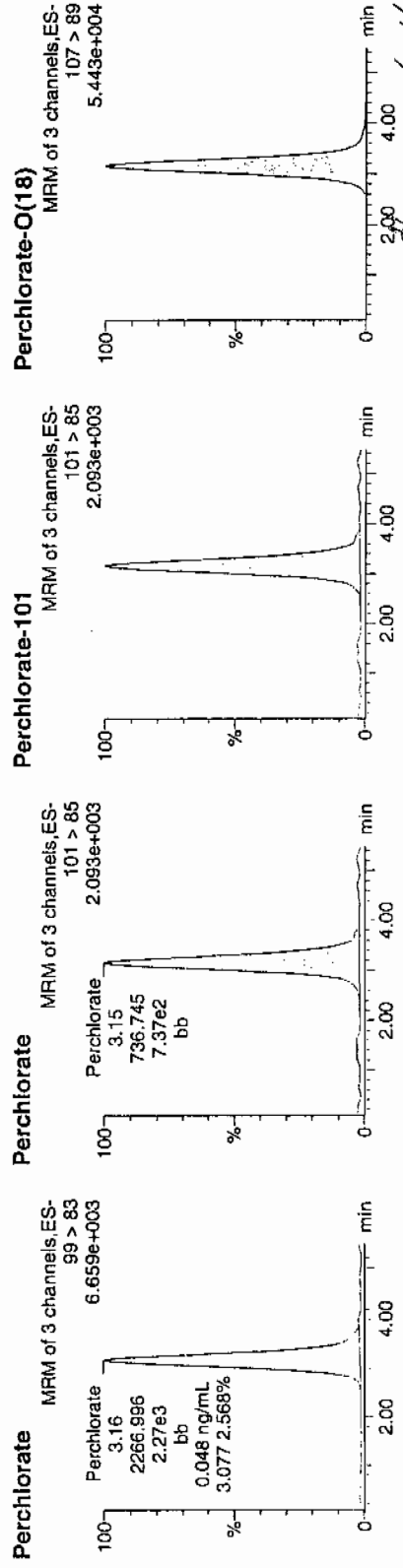
Date: 03-Mar-2010

Time: 09:37:47

NO: WCL100227-07CRI

Vial: 1:2,B

*Per
and
03-03-10*



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	SN	Ion Ratio
WCL100227-07CRI	Perchlorate	99 > 83	3.16	2266.996	2266.996	bb			0.0480	95.91	-4.09	321.710	3.08
WCL100227-07CRI	Perchlorate-101	101 > 85	3.15	736.745	736.745	bb			0.0492	98.48	-1.52	30.340	
WCL100227-07CRI	Perchlorate-O(18)	107 > 89	3.15	19042.449	19042.449	bb			0.4606	92.13	-7.87	8999.0...	

QUALITY CONTROL

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLC
 Lab Code: GEL
 Instrument: LCMSMS
 Method: EPA 6850 Modified
 Matrix: SOIL
 Extraction Batch ID: 957927
 Extraction Type: Solid Prep
 Sample Volume/Weight: 2.00 g
 Concentrated Extract Volume: 20.0
 Client Sample No. MB
 Date Received: 26-FEB-10
 GEL Job No (SDG): 10-1915
 GEL Sample ID: 1202054199
 Date Filtered: 26-FEB-10
 Injection Volume (uL): 20
 %Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	0.500	ug/kg	U	1	03-MAR-10 06:28	per0302080a
	Perchlorate Isotope Ratio						1	03-MAR-10 06:28	per0302080a
14797-73-0	Perchlorate-101	.5	2	0.500	ug/kg	U	1	03-MAR-10 06:28	per0302080a
	Perchlorate-O(18)			4.79	ug/kg		1	03-MAR-10 06:28	per0302080a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

$$\text{Instrument Value} \times \frac{\text{Concentrated Extract Volume}}{\text{Aliquot}} \times \frac{1}{\% \text{Solids}}$$

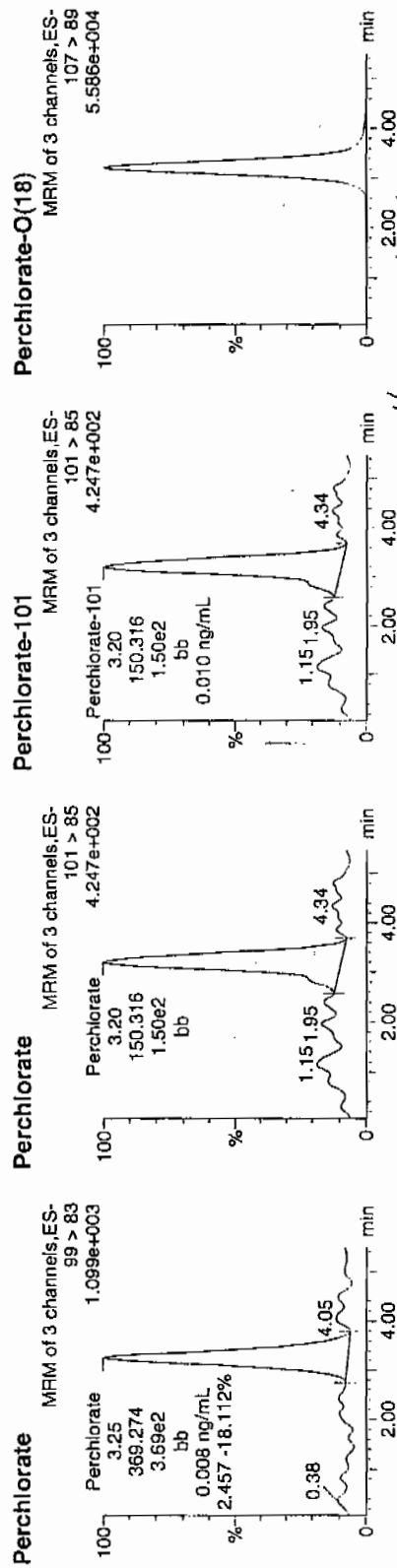
Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302080a
Date: 03-Mar-2010
Time: 06:28:21
ID: 1202054199
Vial: 3:1,A

03-03-10

1622-1957924 | 5070 | M03 | 11



Time 03/04/10

ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202054199	Perchlorate	99 > 83	3.25	369.274	369.274	bb			0.0078			60.268	2.46
1202054199	Perchlorate-101	101 > 85	3.20	150.316	150.316	bb			0.0100			62.753	
1202054199	Perchlorate-O(18)	107 > 89	3.22	19787.299	19787.299	bb			0.4786	95.73	-4.27	5305.1...	

Perchlorate Analysis Data Sheet

Lab Name: GEL Laboratories LLCLab Code: GELInstrument: LCMSMSMethod: EPA 6850 ModifiedMatrix: SOILExtraction Batch ID: 25792ZExtraction Type: Solid PrepSample Volume/Weight: 2.00 gConcentrated Extract Volume: 20.0

Client Sample No.

LCSDate Received: 26-FEB-10GEL Job No (SDG): 10-1915GEL Sample ID: 1202054200Date Filtered: 26-FEB-10Injection Volume (uL): 20%Solids: 100

CAS No.	Analyte [^]	MDL	RL	Conc*	Units	Q	Dilution Factor	Date Analyzed	GEL File ID
14797-73-0	Perchlorate	.5	2	2.46	ug/kg		1	03-MAR-10 06:37	per0302081a
	Perchlorate Isotope Ratio			3.14			1	03-MAR-10 06:37	per0302081a
14797-73-0	Perchlorate-101	.5	2	2.47	ug/kg		1	03-MAR-10 06:37	per0302081a
	Perchlorate-O(18)			5.18	ug/kg		1	03-MAR-10 06:37	per0302081a

[^] When the analyte name is Perchlorate Isotope Ratio the concentration is a unitless value calculated from the ratio of Perchlorate peak area to Perchlorate-101 peak area. The Perchlorate-101 and isotopic ratio results are provided for qualitative purposes only. The results are used to verify the presence and quantitation of Perchlorate.

*Concentration =

Instrument Value X Concentrated Extract Volume X 1
Aliquot %Solids

Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

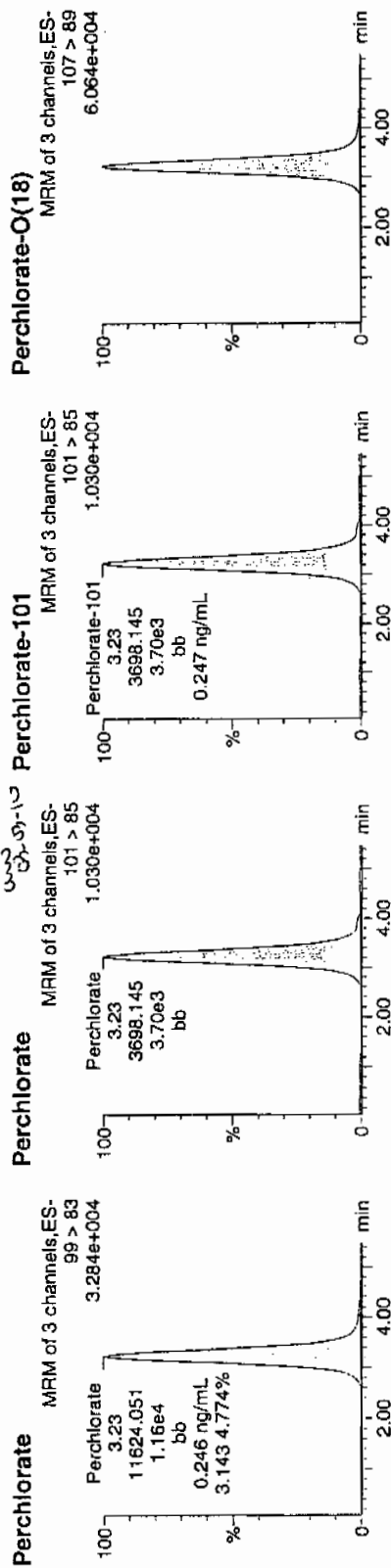
Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302081a
Date: 03-Mar-2010
Time: 06:37:13
ID: 1202054200
Vial: 3:1,B

03-03-10

LANC | 957929 | 5010 | 11



ID	Name	Trace	RT	Area	Response	Flags	Mod.Date	Mod.Time	ng/mL	%Rec	%Dev	S/N	Ion Ratio
1202054200	Perchlorate	99 > 83	3.23	11624.051	11624.051	bb			0.2459	122.94	22.94	1310.3...	3.14
1202054200	Perchlorate-101	101 > 85	3.23	3698.145	3698.145	bb			0.2472	123.58	23.58	573.420	
1202054200	Perchlorate-O(18)	107 > 89	3.22	21424.080	21424.080	bb			0.5182	103.65	3.65	2840.9...	

$$\frac{11624.051}{47275} = 0.2459$$

4/11/10

MISCELLANEOUS DATA

Isotope Ratio Criteria

Isotope Ratio $^{35}\text{Cl}/^{37}\text{Cl}$

2.31-3.85

Tune Criteria

The tuning solution is introduced directly into the mass spectrometer using the ESI interface in the positive ion mode. The mass range scanned is 20 to 1100 amu using at least six scans. The observed mass for the target compound in the daily calibration standards must be within 0.2 amu of the expected value. If it is greater than 0.2 amu, then a mass calibration is performed and the instrument is re-calibrated.

Prep LogBook

Analyst: JXS5
 Batch: 957927
 Lab SOP: GL-OA-E-067 REV# 6

Verified by:

Sample Type	Sample ID	Parent Sample ID	Method	Prep Date	Initial Wt.	Final Volume	Prep Factor	Spike Amount	Spike Units
MB	1202054199		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
LCS	1202054200		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347001		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347002		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
MS	1202054201	247347002	SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
MSD	1202054202	247347002	SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347003		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347004		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347005		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347006		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347007		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247347008		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247359001		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247359002		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247359003		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247359004		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463001		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463002		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463003		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463004		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463005		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247463006		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247784002		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
SAMPLE	247855002		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		
ICS	1202054203		SW846 6850 Modified	26-FEB-2010 17:46	2 g	20 mL	10		

Comments Desalting cartridges used: B10003K0402 & B10005J0812

GEL ORGANIC RUN LOG

INSTRUMENT ID: LCMSMS#2

Date: 03/02/10

Extr. Injection Volume: 20uL

Sequence Number: per030210a

Initial Calibration Date: 03/02/10

Method: EPA 6850-Modified

Int. Std.: UCL100126-01

Mobile Phase Lot#: 1269535, 1271949

Standard-Samp Reagent Lot#: 1271949

Reviewed BY: *thine*

Date: 03/04/10

SOP: GL-OA-E-067 Rev.6

Alt Check Std. ID: WCL100227-06

DataFile	Sample	Analyst	Injection Date	Batch	SDG	Dilution	Client	Comments	QC_Flag
per0302001a	IPB001	CWW	3/2/2010 19:10			1		USE	B
per0302002a	IPB001	CWW	3/2/2010 19:18			1		USE	B
per0302003a	WCLICAL-01	CWW	3/2/2010 19:27			1		USE	I
per0302004a	WCLICAL-02	CWW	3/2/2010 19:35			1		USE	I
per0302005a	WCLICAL-03	CWW	3/2/2010 19:44			1		USE	I
per0302006a	WCLICAL-04	CWW	3/2/2010 19:53			1		USE	I
per0302007a	WCLICAL-05	CWW	3/2/2010 20:01			1		USE	I
per0302008a	IPB002	CWW	3/2/2010 20:10			1		USE	B
per0302009a	WCLICV	CWW	3/2/2010 20:18			1		USE	C
per0302010a	IPB003	CWW	3/2/2010 20:27			1		USE	B
per0302011a	WCLCRI	CWW	3/2/2010 20:35			1		USE	C
per0302012a	1202042225	CWW	3/2/2010 20:44	952820	VARIOUS	1	LANL	USE	S
per0302013a	1202042226	CWW	3/2/2010 20:52	952820	VARIOUS	1	LANL	USE	S
per0302014a	1202042229	CWW	3/2/2010 21:01	952820	VARIOUS	1	LANL	USE	S
per0302015a	246325001	CWW	3/2/2010 21:10	952820	10-1603	1	LANL	USE	S
per0302016a	246325002	CWW	3/2/2010 21:18	952820	10-1603	1	LANL	USE	S
per0302017a	246325003	CWW	3/2/2010 21:27	952820	10-1603	1	LANL	USE	S
per0302018a	246325004	CWW	3/2/2010 21:35	952820	10-1603	1	LANL	USE	S
per0302019a	246325005	CWW	3/2/2010 21:44	952820	10-1603	1	LANL	USE	S
per0302020a	246325006	CWW	3/2/2010 21:52	952820	10-1603	1	LANL	USE	S
per0302021a	WCLCCV	CWW	3/2/2010 22:01			1		USE	C
per0302022a	IPB004	CWW	3/2/2010 22:09			1		USE	B
per0302023a	WCLCRI	CWW	3/2/2010 22:18			1		USE	C
per0302024a	246437001	CWW	3/2/2010 22:27	952820	10-1621-1	1	LANL	USE	S
per0302025a	1202042227	CWW	3/2/2010 22:35	952820	10-1621-1	1	LANL	USE	S
per0302026a	1202042228	CWW	3/2/2010 22:44	952820	10-1621-1	1	LANL	USE	S
per0302027a	246437002	CWW	3/2/2010 22:52	952820	10-1621-1	1	LANL	USE	S
per0302028a	246437003	CWW	3/2/2010 23:01	952820	10-1621-1	1	LANL	USE	S
per0302029a	246437004	CWW	3/2/2010 23:10	952820	10-1621-1	1	LANL	USE	S

per0302030a	246437005	CWW	3/2/2010 23:18	952820	10-1621-1	1	LANL	USE	S
per0302031a	246437006	CWW	3/2/2010 23:27	952820	10-1621-1	1	LANL	USE	S
per0302032a	WCLCCV	CWW	3/2/2010 23:35			1		USE	C
per0302033a	IPB005	CWW	3/2/2010 23:44			1		USE	B
per0302034a	WCLCRI	CWW	3/2/2010 23:52			1		USE	C
per0302035a	246437007	CWW	3/3/2010 0:01	952820	10-1621-1	1	LANL	USE	S
per0302036a	246437008	CWW	3/3/2010 0:09	952820	10-1621-1	1	LANL	USE	S
per0302037a	246437009	CWW	3/3/2010 0:18	952820	10-1621-1	1	LANL	USE	S
per0302038a	246437010	CWW	3/3/2010 0:27	952820	10-1621-1	1	LANL	USE	S
per0302039a	246437011	CWW	3/3/2010 0:35	952820	10-1621-1	1	LANL	USE	S
per0302040a	246437012	CWW	3/3/2010 0:44	952820	10-1621-1	1	LANL	USE	S
per0302041a	246437013	CWW	3/3/2010 0:52	952820	10-1621-1	1	LANL	USE	S
per0302042a	246437014	CWW	3/3/2010 1:01	952820	10-1621-1	1	LANL	USE	S
per0302043a	WCLCCV	CWW	3/3/2010 1:09			1		USE	C
per0302044a	IPB006	CWW	3/3/2010 1:18			1		USE	B
per0302045a	WCLCRI	CWW	3/3/2010 1:27			1		USE	C
per0302046a	1202058256	CWW	3/3/2010 1:35	959704	VARIOUS	1	LANL	USE	S
per0302047a	1202058257	CWW	3/3/2010 1:44	959704	VARIOUS	1	LANL	USE	S
per0302048a	1202058262	CWW	3/3/2010 1:53	959704	VARIOUS	1	LANL	USE	S
per0302049a	246574002	CWW	3/3/2010 2:01	959704	10-1679	2	LANL	USE	S
per0302050a	246598002	CWW	3/3/2010 2:10	959704	10-1696	2	LANL	USE	S
per0302051a	246690002	CWW	3/3/2010 2:18	959704	10-1722	1	LANL	USE	S
per0302052a	1202058258	CWW	3/3/2010 2:27	959704	10-1722	1	LANL	USE	S
per0302053a	1202058259	CWW	3/3/2010 2:36	959704	10-1722	1	LANL	USE	S
per0302054a	246690003	CWW	3/3/2010 2:44	959704	10-1722	1	LANL	USE	S
per0302055a	WCLCCV	CWW	3/3/2010 2:53			1		USE	C
per0302056a	IPB007	CWW	3/3/2010 3:01			1		USE	B
per0302057a	WCLCRI	CWW	3/3/2010 3:10			1		USE	C
per0302058a	246853001	CWW	3/3/2010 3:19	959704	10-1753	1	LANL	USE	S
per0302059a	246860001	CWW	3/3/2010 3:27	959704	10-1756	1	LANL	USE	S
per0302060a	246862001	CWW	3/3/2010 3:36	959704	10-1780	1	LANL	USE	S
per0302061a	246871001	CWW	3/3/2010 3:44	959704	10-1759	1	LANL	USE	S
per0302062a	246877001	CWW	3/3/2010 3:53	959704	10-1774	1	LANL	USE	S
per0302063a	246877004	CWW	3/3/2010 4:01	959704	10-1774	2	LANL	USE	S
per0302064a	246882001	CWW	3/3/2010 4:10	959704	10-1770	1	LANL	USE	S
per0302065a	246882002	CWW	3/3/2010 4:19	959704	10-1770	1	LANL	USE	S
per0302066a	WCLCCV	CWW	3/3/2010 4:27			1		USE	C

per0302067a	IPB008	CWW	3/3/2010 4:36			1		USE	B
per0302068a	WCLCRI	CWW	3/3/2010 4:45			1		USE	C
per0302069a	246883001	CWW	3/3/2010 4:53	959704	10-1767-1	1	LANL	USE	S
per0302070a	1202058260	CWW	3/3/2010 5:02	959704	10-1767-1	1	LANL	USE	S
per0302071a	1202058261	CWW	3/3/2010 5:10	959704	10-1767-1	1	LANL	USE	S
per0302072a	246883002	CWW	3/3/2010 5:19	959704	10-1767-1	1	LANL	USE	S
per0302073a	246883003	CWW	3/3/2010 5:28	959704	10-1767-1	1	LANL	USE	S
per0302074a	246883004	CWW	3/3/2010 5:36	959704	10-1767-1	1	LANL	USE	S
per0302075a	246886002	CWW	3/3/2010 5:45	959704	10-1777	1	LANL	USE	S
per0302076a	246886004	CWW	3/3/2010 5:53	959704	10-1777	1	LANL	USE	S
per0302077a	WCLCCV	CWW	3/3/2010 6:02			1		USE	C
per0302078a	IPB009	CWW	3/3/2010 6:11			1		USE	B
per0302079a	WCLCRI	CWW	3/3/2010 6:19			1		USE	C
per0302080a	1202054199	CWW	3/3/2010 6:28	957929	VARIOUS	1	LANL	USE	S
per0302081a	1202054200	CWW	3/3/2010 6:37	957929	VARIOUS	1	LANL	USE	S
per0302082a	1202054203	CWW	3/3/2010 6:45	957929	VARIOUS	1	LANL	USE	S
per0302083a	247347001	CWW	3/3/2010 6:54	957929	10-1912	1	LANL	USE	S
per0302084a	247347002	CWW	3/3/2010 7:02	957929	10-1912	1	LANL	USE	S
per0302085a	1202054201	CWW	3/3/2010 7:11	957929	10-1912	1	LANL	USE	S
per0302086a	1202054202	CWW	3/3/2010 7:19	957929	10-1912	1	LANL	USE	S
per0302087a	247347003	CWW	3/3/2010 7:28	957929	10-1912	1	LANL	USE	S
per0302088a	247347004	CWW	3/3/2010 7:37	957929	10-1912	1	LANL	USE	S
per0302089a	WCLCCV	CWW	3/3/2010 7:45			1		USE	C
per0302090a	IPB010	CWW	3/3/2010 7:54			1		USE	B
per0302091a	WCLCRI	CWW	3/3/2010 8:02			1		USE	C
per0302092a	247347005	CWW	3/3/2010 8:11	957929	10-1912	1	LANL	USE	S
per0302093a	247347006	CWW	3/3/2010 8:20	957929	10-1912	1	LANL	USE	S
per0302094a	247347007	CWW	3/3/2010 8:28	957929	10-1912	1	LANL	USE	S
per0302095a	247347008	CWW	3/3/2010 8:37	957929	10-1912	1	LANL	USE	S
per0302096a	247359001	CWW	3/3/2010 8:45	957929	10-1915	1	LANL	USE	S
per0302097a	247359002	CWW	3/3/2010 8:54	957929	10-1915	1	LANL	USE	S
per0302098a	247359003	CWW	3/3/2010 9:03	957929	10-1915	1	LANL	USE	S
per0302099a	247359004	CWW	3/3/2010 9:11	957929	10-1915	1	LANL	USE	S
per0302100a	WCLCCV	CWW	3/3/2010 9:20			1		USE	C
per0302101a	IPB011	CWW	3/3/2010 9:29			1		USE	B
per0302102a	WCLCRI	CWW	3/3/2010 9:37			1		USE	C
per0302103a	247463001	CWW	3/3/2010 9:46	957929	10-1941	1	LANL	USE	S

per0302104a	247463002	CWW	3/3/2010 9:55	957929	10-1941	1	LANL	USE	S
per0302105a	247463003	CWW	3/3/2010 10:03	957929	10-1941	1	LANL	USE	S
per0302106a	247463004	CWW	3/3/2010 10:12	957929	10-1941	1	LANL	USE	S
per0302107a	247463005	CWW	3/3/2010 10:20	957929	10-1941	1	LANL	USE	S
per0302108a	247463006	CWW	3/3/2010 10:29	957929	10-1941	1	LANL	USE	S
per0302109a	247784002	CWW	3/3/2010 10:37	957929	10-1979	1	LANL	USE	S
per0302110a	247855002	CWW	3/3/2010 10:46	957929	10-1978	1	LANL	USE	S
per0302111a	WCLCCV	CWW	3/3/2010 10:54			1		USE	C
per0302112a	IPB012	CWW	3/3/2010 11:03			1		USE	B
per0302113a	WCLCRI	CWW	3/3/2010 11:12			1		USE	C

DATA EXCEPTION REPORT

Mo.Day Yr. 03-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process			
Instrument Type: LC-MS/MS	Test / Method: SW846 6850 Modified	Matrix Type: Solid	Client Code: LANL			
Batch ID: 957929	Sample Numbers: See Below					
Potentially affected work order(s)(SDG): 247347(10-1912),247359(10-1915),247463(10-1941),247784(10-1979),247855(10-1978)						
Application Issues: Failed Recovery for MSD/PSD						
Specification and Requirements Exception Description:		DER Disposition:				
1. High recovery for Perchlorate-101 was observed in 1202054202 (MS). The recovery was 127% and the acceptance range is 75-125%.		1. The high recovery may be the result of the spike standard or extraction procedure since a similar, but passing recovery, was observed for the LCS.				

Originator's Name:

Charles Wilson

03-MAR-10

Data Validator/Group Leader:

Herbert Maier

04-MAR-10

Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time

Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302085a

Date: 03-Mar-2010

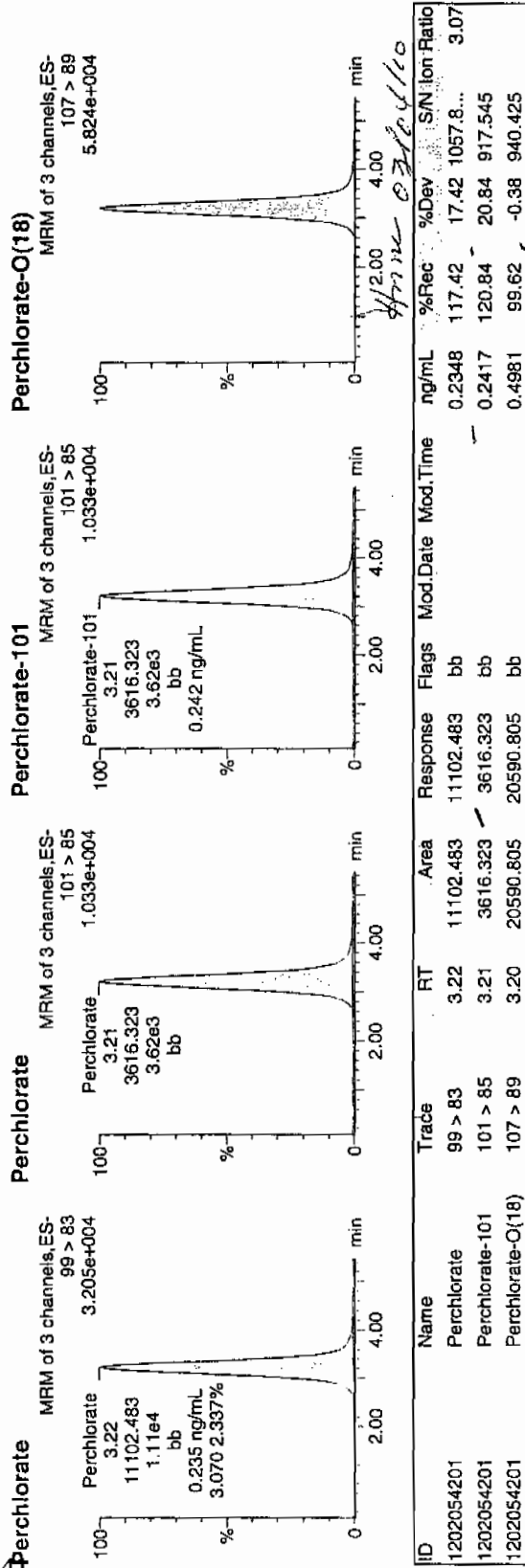
Time: 07:11:25

ID: 1202054201

Vial: 3:1,F

03-03-10

1202054201 | 3020 | MS | 11



Quantify Sample Report MassLynx 4.0 SP4
The GEL Group, LLC Analyst: Charlers W. Wilson

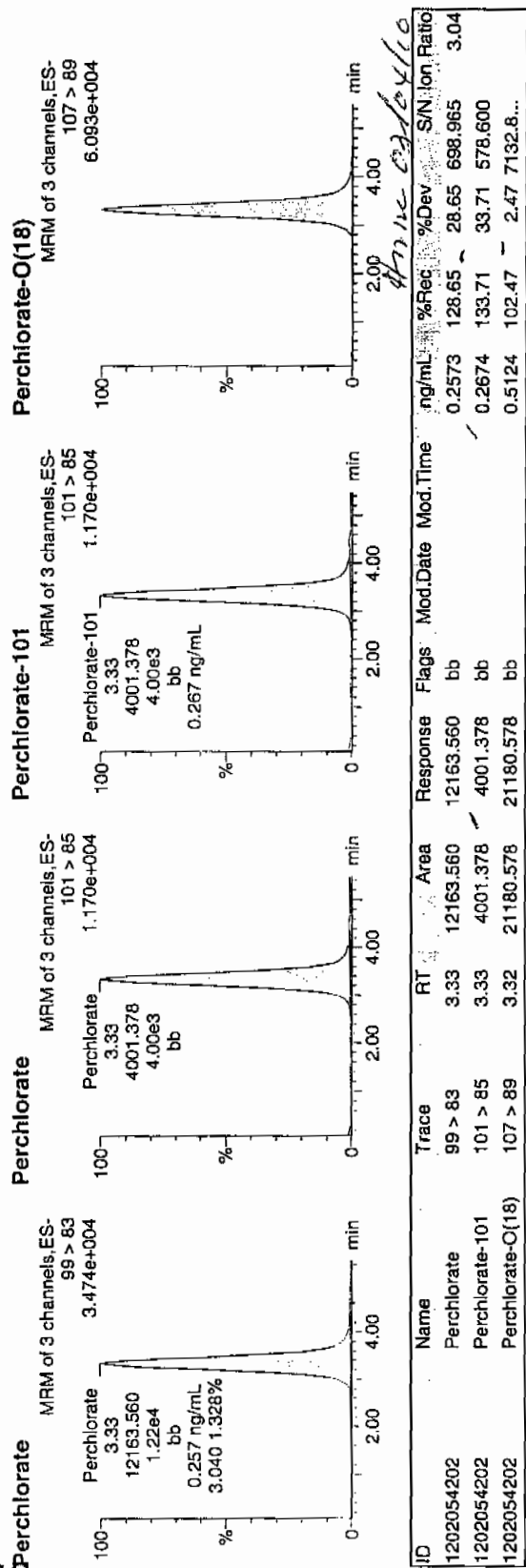
Dataset: C:\MassLynx\Perchlorate.PRO\per030210a.qld

Last Altered: Wednesday, March 03, 2010 11:30:21 AM Eastern Standard Time
Printed: Wednesday, March 03, 2010 11:43:13 AM Eastern Standard Time

Name: per0302086a
Date: 03-Mar-2010
Time: 07:19:56
ID: 1202054202
Vial: 3:2,A

03-03-10

12722 | 957424 | 5020 | MSO | 11



Metals Analysis

Case Narrative

**Metals Fractional Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1915**

Sample Analysis

Sample ID	Client ID
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424
1202047737	Method Blank (MB) ICP
1202047742	Laboratory Control Sample (LCS)
1202047739	247321001(RE46-10-12942L) Serial Dilution (SD)
1202047738	247321001(RE46-10-12942D) Sample Duplicate (DUP)
1202047740	247321001(RE46-10-12942S) Matrix Spike (MS)
1202047741	247321001(RE46-10-12942SD) Matrix Spike Duplicate (MSD)
1202047743	Method Blank (MB) ICP-MS
1202047748	Laboratory Control Sample (LCS)
1202047745	247321001(RE46-10-12942L) Serial Dilution (SD)
1202047744	247321001(RE46-10-12942D) Sample Duplicate (DUP)
1202047746	247321001(RE46-10-12942S) Matrix Spike (MS)
1202047747	247321001(RE46-10-12942SD) Matrix Spike Duplicate (MSD)
1202055944	Method Blank (MB) CVAA
1202055945	Laboratory Control Sample (LCS)
1202055948	247359001(RE36-10-7427L) Serial Dilution (SD)
1202055946	247359001(RE36-10-7427D) Sample Duplicate (DUP)

1202055947	247359001(RE36-10-7427S) Matrix Spike (MS)
1202055949	247359001(RE36-10-7427SD) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on a "dry weight" basis.

Method/Analysis Information

Analytical Batch:	955145, 955147 and 958641
Prep Batch :	955144, 955146 and 958639
Standard Operating Procedures:	GL-MA-E-013 REV# 20, GL-MA-E-009 REV# 19, GL-MA-E-014 REV# 21 and GL-MA-E-010 REV# 23
Analytical Method:	SW846 3050B/6010B, SW846 3050B/6020 and SW846 7471A
Prep Method :	SW846 3050B and SW846 7471A Prep

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

System Configuration

The Metals analysis-ICP was performed on a P E 4300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis-ICP was performed on a P E 5300 Optima radial/axial-viewing inductively coupled plasma atomic emission spectrometer. The instrument is equipped with a Burgener nebulizer, cyclonic spray chamber, and yttrium or scandium internal standard. Operating conditions for the ICP are set at a power level of 1500 watts. The instrument has a peristaltic pump flow rate of 1.4L/min, argon gas flows of 15 L/min and 0.2 L/min for the torch and auxiliary gases, and a flow setting of 0.65L/min for the nebulizer.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 6100E inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/-7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial

lens voltage of 5.2.

The Metals analysis - ICPMS was performed on a Perkin Elmer ELAN 9000 inductively coupled plasma mass spectrometer (ICP-MS). The instrument is equipped with a cross-flow nebulizer, quadrupole mass spectrometer, and dual mode electron multiplier detector. Internal standards of scandium, germanium, indium, tantalum, and/or lutetium were utilized to cover the mass spectrum. Operating conditions are set at 1400W power and combined argon pressures of 360+/- 7 kPa for the plasma and auxiliary gases, and 0.85 L/min carrier gas flow, and an initial lens voltage of 5.2.

The Metals analysis-Mercury was performed on a Perkin-Elmer Flow Injection Mercury System (FIMS-100) automated mercury analyzer. The instrument consists of a cold vapor atomic absorption spectrometer set to detect mercury at a wavelength of 253.7 nm. Sample introduction through the flow injection system is performed via a peristaltic pump at 9 mL/min and nitrogen carrier gas rate of 80 mL/min.

Calibration Information

Instrument Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

CRDL Requirements

All CRDL standard(s) met the referenced advisory control limits with the exceptions of potassium and magnesium, which recovered outside of the advisory limits of 70-130%.

ICSA/ICSAB Statement

All interference check samples (ICSA and ICSAB) associated with this SDG met the established acceptance criteria.

Continuing Calibration Blank (CCB) Requirements

All continuing calibration blanks (CCB) bracketing this batch met the established acceptance criteria.

Continuing Calibration Verification (CCV) Requirements

All continuing calibration verification (CCV) bracketing this SDG met the established acceptance criteria.

Quality Control (QC) Information

Method Blank (MB) Statement

The MBs analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Quality Control (QC) Sample Statement

The following samples were selected as the quality control (QC) samples for this SDG: 247321001 (RE46-10-12942) and 247359001 (RE36-10-7427).

Matrix Spike (MS) Recovery Statement

The percent recoveries (%R) obtained from the MS analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MS met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of aluminum, potassium and sodium, as indicated by the "N" qualifiers.

Matrix Spike Duplicate (MSD) Recovery Statement

The percent recovery (%R) obtained from the MSD analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The MSD met the recommended quality control acceptance criteria for percent recoveries for all applicable analytes with the exceptions of aluminum, potassium and sodium, as indicated by the "N" qualifiers.

MS/MSD Relative Percent Difference (RPD) Statement

The RPD(s) between the MS and MSD met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The relative percent difference (RPD) obtained from the designated sample duplicate (DUP) is evaluated based on acceptance criteria of 20% when the sample is 5X the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the contract required detection limit (RL), a control of +/-RL is used to evaluate the DUP results. All applicable analytes met these requirements with the exceptions of chromium, magnesium and vanadium, as indicated by the "*" qualifiers.

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations that are 25X the IDL/MDL for CVAA, 50X the IDL/MDL for ICP, and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. All applicable analytes met the acceptance criteria of less than 10% difference (%D).

Technical Information**Holding Time Specifications**

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection of sample receipt. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Sample Dilutions

Dilutions are performed to minimize matrix interferences resulting from elevated mineral element concentrations present in solid samples and/or to bring over range target analyte concentrations into the linear calibration range of the instrument. The samples in this SDG were diluted the standard 2x for solids on the ICPMS. Per the SOP, sample 247359004 (RE36-10-7424) required dilutions for beryllium and nickel due to relatively high native sample concentration of an internal standard.

Preparation Information

The samples in this SDG were prepared exactly according to the cited SOP.

Miscellaneous Information**Electronic Packaging Comment**

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Data Exception (DER) Documentation

Data exception reports are generated to document any procedural anomalies that may deviate from referenced SOP or contractual documents. The following DER was generated for this SDG: 805459. A copy is included in the Miscellaneous Data section of this package.

Additional Comments

Additional comments were not required for this SDG.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer: Kristen Anson Date: 3/19/10

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359001

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7427

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 64

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	3820000	ug/Kg		9660	28400	28400	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-36-0	Antimony	1420	ug/Kg	U	469	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-38-2	Arsenic	1.9	mg/kg		0.303	1.51	1.51	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-39-3	Barium	62200	ug/Kg		142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-41-7	Beryllium	0.471	mg/kg		0.0303	0.151	0.151	2	MS	BAJ	03/16/10 18:41	100316-5	955147
7440-43-9	Cadmium	189	ug/Kg	J	142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-70-2	Calcium	3100000	ug/Kg		11400	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-47-3	Chromium	5010	ug/Kg		213	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-48-4	Cobalt	1830	ug/Kg		213	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-50-8	Copper	5940	ug/Kg		426	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-89-6	Iron	6000000	ug/Kg		11400	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-92-1	Lead	10100	ug/Kg		355	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-95-4	Magnesium	1050000	ug/Kg		12100	42600	42600	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-96-5	Manganese	288000	ug/Kg		284	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145
7439-97-6	Mercury	71.6	ug/kg		5.89	17.3	17.3	1	AV	JXL1	03/04/10 11:18	030410S1-6	958641
7440-02-0	Nickel	4.85	mg/kg		0.151	0.605	0.605	2	MS	BAJ	03/16/10 18:41	100316-5	955147
7440-09-7	Potassium	927000	ug/Kg		9090	35500	35500	1	P	HSC	03/17/10 06:15	031610-2	955145
7782-49-2	Selenium	1.51	mg/kg	U	0.757	1.51	1.51	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-22-4	Silver	710	ug/Kg	U	142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-23-5	Sodium	42700	ug/Kg		9940	35500	35500	1	P	HSC	03/17/10 11:58	031710C-1	955145
7440-28-0	Thallium	0.103	mg/kg	J	0.0908	0.303	0.303	2	MS	BAJ	03/16/10 02:25	100315-4	955147
7440-61-1	Uranium	2.97	mg/kg		0.02	0.0605	0.0605	2	MS	PRB	03/17/10 23:46	100317-3	955147
7440-62-2	Vanadium	8130	ug/Kg		142	710	710	1	P	HSC	03/17/10 06:15	031610-2	955145
7440-66-6	Zinc	34200	ug/Kg		469	1420	1420	1	P	HSC	03/17/10 06:15	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.554	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.52	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.545	g	30	mL	03/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359002

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7423

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 49

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4070000	ug/Kg		13100	38600	38600	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-36-0	Antimony	675	ug/Kg	J	636	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-38-2	Arsenic	1.56	mg/kg	J	0.406	2.03	2.03	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-39-3	Barium	113000	ug/Kg		193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-41-7	Beryllium	0.359	mg/kg		0.0406	0.203	0.203	2	MS	BAJ	03/16/10 18:43	100316-5	955147
7440-43-9	Cadmium	302	ug/Kg	J	193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-70-2	Calcium	5770000	ug/Kg		15400	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-47-3	Chromium	9900	ug/Kg		289	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-48-4	Cobalt	2310	ug/Kg		289	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-50-8	Copper	7790	ug/Kg		578	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-89-6	Iron	5730000	ug/Kg		15400	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-92-1	Lead	18200	ug/Kg		482	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-95-4	Magnesium	1250000	ug/Kg		16400	57800	57800	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-96-5	Manganese	342000	ug/Kg		386	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145
7439-97-6	Mercury	86.2	ug/kg		7.9	23.2	23.2	1	AV	JXLI	03/04/10 11:28	030410S1-6	958641
7440-02-0	Nickel	4.16	mg/kg		0.203	0.811	0.811	2	MS	BAJ	03/16/10 18:43	100316-5	955147
7440-09-7	Potassium	1240000	ug/Kg		12300	48200	48200	1	P	HSC	03/17/10 06:22	031610-2	955145
7782-49-2	Selenium	2.03	mg/kg	U	1.01	2.03	2.03	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-22-4	Silver	964	ug/Kg	U	193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-23-5	Sodium	64100	ug/Kg		13500	48200	48200	1	P	HSC	03/17/10 12:01	031710C-1	955145
7440-28-0	Thallium	0.406	mg/kg	U	0.122	0.406	0.406	2	MS	BAJ	03/16/10 02:29	100315-4	955147
7440-61-1	Uranium	4.63	mg/kg		0.0268	0.0811	0.0811	2	MS	PRB	03/17/10 23:48	100317-3	955147
7440-62-2	Vanadium	9630	ug/Kg		193	964	964	1	P	HSC	03/17/10 06:22	031610-2	955145
7440-66-6	Zinc	32700	ug/Kg		636	1930	1930	1	P	HSC	03/17/10 06:22	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.53	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.504	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.528	g	30	mL	03/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359003

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7428

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 91.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	4750000	ug/Kg		6960	20500	20500	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-36-0	Antimony	1020	ug/Kg	U	338	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-38-2	Arsenic	1.19	mg/kg		0.208	1.04	1.04	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-39-3	Barium	64200	ug/Kg		102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-41-7	Beryllium	0.598	mg/kg		0.0208	0.104	0.104	2	MS	BAJ	03/16/10 18:45	100316-5	955147
7440-43-9	Cadmium	102	ug/Kg	J	102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-70-2	Calcium	1740000	ug/Kg		8180	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-47-3	Chromium	15600	ug/Kg		153	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-48-4	Cobalt	2580	ug/Kg		153	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-50-8	Copper	3610	ug/Kg		307	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-89-6	Iron	9360000	ug/Kg		8180	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-92-1	Lead	6320	ug/Kg		256	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-95-4	Magnesium	1000000	ug/Kg		8690	30700	30700	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-96-5	Manganese	274000	ug/Kg		205	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145
7439-97-6	Mercury	5.98	ug/kg	J	4.05	11.9	11.9	1	AV	JXL1	03/04/10 11:30	030410S1-6	958641
7440-02-0	Nickel	5.14	mg/kg		0.104	0.416	0.416	2	MS	BAJ	03/16/10 18:45	100316-5	955147
7440-09-7	Potassium	1000000	ug/Kg		6550	25600	25600	1	P	HSC	03/17/10 06:29	031610-2	955145
7782-49-2	Selenium	1.04	mg/kg	U	0.52	1.04	1.04	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-22-4	Silver	124	ug/Kg	J	102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-23-5	Sodium	62500	ug/Kg		7160	25600	25600	1	P	HSC	03/17/10 12:05	031710C-1	955145
7440-28-0	Thallium	0.0963	mg/kg	J	0.0624	0.208	0.208	2	MS	BAJ	03/16/10 02:33	100315-4	955147
7440-61-1	Uranium	0.593	mg/kg		0.0137	0.0416	0.0416	2	MS	PRB	03/17/10 23:49	100317-3	955147
7440-62-2	Vanadium	12400	ug/Kg		102	511	511	1	P	HSC	03/17/10 06:29	031610-2	955145
7440-66-6	Zinc	35200	ug/Kg		338	1020	1020	1	P	HSC	03/17/10 06:29	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.535	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.526	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.551	g	30	mL	03/03/10	TXB3

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 10-1915

CONTRACT: LANL01004

METHOD TYPE: SW846

SAMPLE ID: 247359004

BASIS: Dry Weight

DATE COLLECTED 12-FEB-10

CLIENT ID: RE36-10-7424

LEVEL: Low

DATE RECEIVED 18-FEB-10

MATRIX: SOIL

%SOLIDS: 91.4

CAS No.	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7429-90-5	Aluminum	11000000	ug/Kg		7190	21200	21200	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-36-0	Antimony	1060	ug/Kg	U	349	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-38-2	Arsenic	3.2	mg/kg		0.201	1.01	1.01	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-39-3	Barium	153000	ug/Kg		106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-41-7	Beryllium	0.921	mg/kg		0.101	0.504	0.504	10	MS	BAJ	03/16/10 19:32	100316-5	955147
7440-43-9	Cadmium	160	ug/Kg	J	106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-70-2	Calcium	6350000	ug/Kg		8460	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-47-3	Chromium	13200	ug/Kg		159	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-48-4	Cobalt	5340	ug/Kg		159	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-50-8	Copper	7320	ug/Kg		317	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-89-6	Iron	13200000	ug/Kg		8460	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-92-1	Lead	10200	ug/Kg		265	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-95-4	Magnesium	2590000	ug/Kg		8990	31700	31700	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-96-5	Manganese	336000	ug/Kg		212	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145
7439-97-6	Mercury	17.4	ug/kg		4.32	12.7	12.7	1	AV	JXLI	03/04/10 11:36	030410S1-6	958641
7440-02-0	Nickel	9.22	mg/kg		0.504	2.01	2.01	10	MS	BAJ	03/16/10 19:32	100316-5	955147
7440-09-7	Potassium	2200000	ug/Kg		6770	26500	26500	1	P	HSC	03/17/10 06:36	031610-2	955145
7782-49-2	Selenium	1.01	mg/kg	U	0.504	1.01	1.01	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-22-4	Silver	529	ug/Kg	U	106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-23-5	Sodium	103000	ug/Kg		7410	26500	26500	1	P	HSC	03/17/10 12:08	031710C-1	955145
7440-28-0	Thallium	0.174	mg/kg	J	0.0604	0.201	0.201	2	MS	BAJ	03/16/10 02:36	100315-4	955147
7440-61-1	Uranium	0.197	mg/kg		0.0133	0.0403	0.0403	2	MS	PRB	03/17/10 23:51	100317-3	955147
7440-62-2	Vanadium	26200	ug/Kg		106	529	529	1	P	HSC	03/17/10 06:36	031610-2	955145
7440-66-6	Zinc	31600	ug/Kg		349	1060	1060	1	P	HSC	03/17/10 06:36	031610-2	955145

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
955145	955144	SW846 3050B	0.517	g	50	mL	02/25/10	AXG2
955147	955146	SW846 3050B	0.543	g	50	mL	02/25/10	AXG2
958641	958639	SW846 7471A Prep	0.517	g	30	mL	03/03/10	TXB3

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.18	ug/L	5	ug/L	103.6	90.0 – 110.0	AV	04-MAR-10 10:15	030410S1-6
	Arsenic	51	ug/L	50	ug/L	102.1	90.0 – 110.0	MS	16-MAR-10 01:05	100315-4
	Selenium	53.3	ug/L	50	ug/L	106.5	90.0 – 110.0	MS	16-MAR-10 01:05	100315-4
	Thallium	54.1	ug/L	50	ug/L	108.3	90.0 – 110.0	MS	16-MAR-10 01:05	100315-4
	Aluminum	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Antimony	527	ug/L	500	ug/L	105.4	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Barium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Cadmium	500	ug/L	500	ug/L	100	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Calcium	4980	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Chromium	491	ug/L	500	ug/L	98.1	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Copper	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Iron	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Lead	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Magnesium	5400	ug/L	5000	ug/L	108	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Manganese	520	ug/L	500	ug/L	104	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Potassium	2480	ug/L	2500	ug/L	99.4	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Silver	259	ug/L	250	ug/L	103.5	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Vanadium	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Zinc	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	16-MAR-10 15:22	031610-2
	Beryllium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16-MAR-10 18:03	100316-5
	Nickel	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	16-MAR-10 18:03	100316-5
	Sodium	2350	ug/L	2500	ug/L	93.8	90.0 – 110.0	P	17-MAR-10 07:07	031710C-1
	Uranium	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	17-MAR-10 23:18	100317-3
CCV01										
	Mercury	5.26	ug/L	5	ug/L	105.2	80.0 – 120.0	AV	04-MAR-10 10:20	030410S1-6
	Arsenic	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	16-MAR-10 01:23	100315-4
	Selenium	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	16-MAR-10 01:23	100315-4
	Thallium	53.1	ug/L	50	ug/L	106.2	90.0 – 110.0	MS	16-MAR-10 01:23	100315-4
	Aluminum	5040	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	16-MAR-10 16:17	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Antimony	520	ug/L	500	ug/L	104	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Barium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Cadmium	511	ug/L	500	ug/L	102.1	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Calcium	5150	ug/L	5000	ug/L	102.9	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Chromium	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Cobalt	519	ug/L	500	ug/L	103.8	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Copper	505	ug/L	500	ug/L	101	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Iron	5210	ug/L	5000	ug/L	104.2	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Lead	510	ug/L	500	ug/L	102	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Magnesium	5360	ug/L	5000	ug/L	107.2	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Manganese	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Potassium	5280	ug/L	5000	ug/L	105.5	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Silver	510	ug/L	500	ug/L	102	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Vanadium	514	ug/L	500	ug/L	102.9	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Zinc	515	ug/L	500	ug/L	102.9	90.0 - 110.0	P	16-MAR-10 16:17	031610-2
	Beryllium	53.3	ug/L	50	ug/L	106.7	90.0 - 110.0	MS	16-MAR-10 18:12	100316-5
	Nickel	52.8	ug/L	50	ug/L	105.7	90.0 - 110.0	MS	16-MAR-10 18:12	100316-5
	Sodium	9680	ug/L	10000	ug/L	96.8	90.0 - 110.0	P	17-MAR-10 07:29	031710C-1
	Uranium	52.6	ug/L	50	ug/L	105.2	90.0 - 110.0	MS	17-MAR-10 23:27	100317-3
CCV02	Mercury	5.14	ug/L	5	ug/L	102.8	80.0 - 120.0	AV	04-MAR-10 10:44	030410S1-6
	Arsenic	51.6	ug/L	50	ug/L	103.2	90.0 - 110.0	MS	16-MAR-10 02:00	100315-4
	Selenium	52.1	ug/L	50	ug/L	104.2	90.0 - 110.0	MS	16-MAR-10 02:00	100315-4
	Thallium	54.3	ug/L	50	ug/L	108.5	90.0 - 110.0	MS	16-MAR-10 02:00	100315-4
	Aluminum	4970	ug/L	5000	ug/L	99.3	90.0 - 110.0	P	16-MAR-10 16:37	031610-2
	Antimony	504	ug/L	500	ug/L	100.7	90.0 - 110.0	P	16-MAR-10 16:37	031610-2
	Barium	500	ug/L	500	ug/L	100.1	90.0 - 110.0	P	16-MAR-10 16:37	031610-2
	Cadmium	499	ug/L	500	ug/L	99.7	90.0 - 110.0	P	16-MAR-10 16:37	031610-2
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 - 110.0	P	16-MAR-10 16:37	031610-2
	Chromium	501	ug/L	500	ug/L	100.1	90.0 - 110.0	P	16-MAR-10 16:37	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Copper	494	ug/L	500	ug/L	98.7	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Iron	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Lead	498	ug/L	500	ug/L	99.5	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Magnesium	5170	ug/L	5000	ug/L	103.4	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Manganese	490	ug/L	500	ug/L	98.1	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Potassium	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Silver	501	ug/L	500	ug/L	100.2	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Vanadium	504	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Zinc	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	16-MAR-10 16:37	031610-2
	Beryllium	52.2	ug/L	50	ug/L	104.5	90.0 – 110.0	MS	16-MAR-10 18:29	100316-5
	Nickel	52.6	ug/L	50	ug/L	105.2	90.0 – 110.0	MS	16-MAR-10 18:29	100316-5
	Sodium	9760	ug/L	10000	ug/L	97.6	90.0 – 110.0	P	17-MAR-10 07:40	031710C-1
	Uranium	51.7	ug/L	50	ug/L	103.4	90.0 – 110.0	MS	17-MAR-10 23:42	100317-3
CCV03										
	Mercury	5.34	ug/L	5	ug/L	106.9	80.0 – 120.0	AV	04-MAR-10 11:08	030410S1-6
	Arsenic	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	16-MAR-10 02:40	100315-4
	Selenium	52	ug/L	50	ug/L	104.1	90.0 – 110.0	MS	16-MAR-10 02:40	100315-4
	Thallium	52.8	ug/L	50	ug/L	105.6	90.0 – 110.0	MS	16-MAR-10 02:40	100315-4
	Aluminum	4970	ug/L	5000	ug/L	99.5	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Antimony	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Barium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Cadmium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Calcium	5070	ug/L	5000	ug/L	101.4	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Chromium	506	ug/L	500	ug/L	101.2	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Cobalt	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Copper	498	ug/L	500	ug/L	99.7	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Iron	5090	ug/L	5000	ug/L	101.7	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Lead	505	ug/L	500	ug/L	100.9	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Magnesium	5310	ug/L	5000	ug/L	106.3	90.0 – 110.0	P	16-MAR-10 17:06	031610-2

METALS
--2a--
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	495	ug/L	500	ug/L	99	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Potassium	5190	ug/L	5000	ug/L	103.8	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Silver	505	ug/L	500	ug/L	101	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Vanadium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Zinc	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	16-MAR-10 17:06	031610-2
	Beryllium	47.8	ug/L	50	ug/L	95.6	90.0 – 110.0	MS	16-MAR-10 18:48	100316-5
	Nickel	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	16-MAR-10 18:48	100316-5
	Sodium	9830	ug/L	10000	ug/L	98.3	90.0 – 110.0	P	17-MAR-10 08:20	031710C-1
	Uranium	52	ug/L	50	ug/L	104	90.0 – 110.0	MS	17-MAR-10 23:53	100317-3
CCV04										
	Mercury	5.28	ug/L	5	ug/L	105.6	80.0 – 120.0	AV	04-MAR-10 11:32	030410S1-6
	Aluminum	5210	ug/L	5000	ug/L	104.2	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Antimony	529	ug/L	500	ug/L	105.7	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Barium	516	ug/L	500	ug/L	103.1	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Cadmium	515	ug/L	500	ug/L	103	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Calcium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Chromium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Cobalt	523	ug/L	500	ug/L	104.6	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Copper	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Iron	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Lead	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Magnesium	5400	ug/L	5000	ug/L	107.9	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Manganese	522	ug/L	500	ug/L	104.3	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Potassium	5360	ug/L	5000	ug/L	107.2	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Silver	517	ug/L	500	ug/L	103.5	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Vanadium	521	ug/L	500	ug/L	104.3	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Zinc	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	16-MAR-10 18:29	031610-2
	Beryllium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	16-MAR-10 19:07	100316-5
	Nickel	48.8	ug/L	50	ug/L	97.6	90.0 – 110.0	MS	16-MAR-10 19:07	100316-5
	Sodium	10100	ug/L	10000	ug/L	100.5	90.0 – 110.0	P	17-MAR-10 09:00	031710C-1

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV05										
	Mercury	5.32	ug/L	5	ug/L	106.4	80.0 – 120.0	AV	04-MAR-10 11:56	030410S1-6
	Aluminum	5110	ug/L	5000	ug/L	102.3	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Antimony	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Barium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Cadmium	506	ug/L	500	ug/L	101.1	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Calcium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Chromium	509	ug/L	500	ug/L	101.7	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Cobalt	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Copper	500	ug/L	500	ug/L	100.1	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Iron	5350	ug/L	5000	ug/L	107	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Lead	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Magnesium	5400	ug/L	5000	ug/L	108	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Manganese	497	ug/L	500	ug/L	99.3	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Potassium	5270	ug/L	5000	ug/L	105.5	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Silver	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Vanadium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Zinc	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 18:49	031610-2
	Beryllium	49.3	ug/L	50	ug/L	98.6	90.0 – 110.0	MS	16-MAR-10 19:26	100316-5
	Nickel	47.9	ug/L	50	ug/L	95.8	90.0 – 110.0	MS	16-MAR-10 19:26	100316-5
	Sodium	9590	ug/L	10000	ug/L	95.9	90.0 – 110.0	P	17-MAR-10 09:39	031710C-1
CCV06										
	Beryllium	48.5	ug/L	50	ug/L	97	90.0 – 110.0	MS	16-MAR-10 19:34	100316-5
	Nickel	47.9	ug/L	50	ug/L	95.8	90.0 – 110.0	MS	16-MAR-10 19:34	100316-5
	Aluminum	5200	ug/L	5000	ug/L	103.9	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Antimony	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Barium	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Calcium	5250	ug/L	5000	ug/L	105	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Chromium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Cobalt	518	ug/L	500	ug/L	103.5	90.0 – 110.0	P	16-MAR-10 19:47	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (% R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Iron	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Lead	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Magnesium	5450	ug/L	5000	ug/L	109.1	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Manganese	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Potassium	5340	ug/L	5000	ug/L	106.8	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Silver	510	ug/L	500	ug/L	102	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Vanadium	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Zinc	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	16-MAR-10 19:47	031610-2
	Sodium	9620	ug/L	10000	ug/L	96.2	90.0 – 110.0	P	17-MAR-10 10:20	031710C-1
CCV07	Aluminum	5240	ug/L	5000	ug/L	104.9	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Antimony	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Barium	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Cadmium	504	ug/L	500	ug/L	100.9	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Calcium	5230	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Chromium	505	ug/L	500	ug/L	101	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Cobalt	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Copper	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Iron	5220	ug/L	5000	ug/L	104.4	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Lead	497	ug/L	500	ug/L	99.4	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Magnesium	5370	ug/L	5000	ug/L	107.5	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Manganese	495	ug/L	500	ug/L	98.9	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Potassium	5330	ug/L	5000	ug/L	106.7	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Silver	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Vanadium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Zinc	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 20:57	031610-2
	Sodium	10100	ug/L	10000	ug/L	101.1	90.0 – 110.0	P	17-MAR-10 10:57	031710C-1
CCV08	Aluminum	5180	ug/L	5000	ug/L	103.5	90.0 – 110.0	P	16-MAR-10 22:01	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3, ICPMS5, MER536, OPTIMA1, OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Antimony	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Barium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Cadmium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Calcium	5300	ug/L	5000	ug/L	106.1	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Chromium	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Cobalt	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Copper	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Iron	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Magnesium	5510	ug/L	5000	ug/L	110.3	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Manganese	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Potassium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Silver	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Zinc	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	16-MAR-10 22:01	031610-2
	Sodium	9440	ug/L	10000	ug/L	94.4	90.0 – 110.0	P	17-MAR-10 11:36	031710C-1
CCV09	Aluminum	5060	ug/L	5000	ug/L	101.2	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Antimony	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Cadmium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Calcium	5110	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Chromium	511	ug/L	500	ug/L	102.2	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Cobalt	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Copper	503	ug/L	500	ug/L	100.7	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Iron	5080	ug/L	5000	ug/L	101.6	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Lead	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Magnesium	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Manganese	505	ug/L	500	ug/L	101.1	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Potassium	5100	ug/L	5000	ug/L	101.9	90.0 – 110.0	P	16-MAR-10 22:50	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Vanadium	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Zinc	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 22:50	031610-2
	Sodium	9500	ug/L	10000	ug/L	95	90.0 – 110.0	P	17-MAR-10 12:12	031710C-1
CCV10										
	Aluminum	5230	ug/L	5000	ug/L	104.6	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Antimony	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Barium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Cadmium	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Calcium	5280	ug/L	5000	ug/L	105.6	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Chromium	510	ug/L	500	ug/L	102	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Cobalt	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Iron	5290	ug/L	5000	ug/L	105.8	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Lead	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Magnesium	5520	ug/L	5000	ug/L	110.4	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Manganese	499	ug/L	500	ug/L	99.8	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Potassium	5320	ug/L	5000	ug/L	106.4	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Silver	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Vanadium	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
	Zinc	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	16-MAR-10 23:53	031610-2
CCV11										
	Aluminum	5090	ug/L	5000	ug/L	101.8	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Antimony	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Barium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Cadmium	511	ug/L	500	ug/L	102.3	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Calcium	5070	ug/L	5000	ug/L	101.3	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Chromium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Cobalt	519	ug/L	500	ug/L	103.9	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Copper	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	17-MAR-10 00:50	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Iron	5050	ug/L	5000	ug/L	101.1	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Lead	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Magnesium	5220	ug/L	5000	ug/L	104.3	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Manganese	509	ug/L	500	ug/L	101.9	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Potassium	5130	ug/L	5000	ug/L	102.6	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Silver	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Vanadium	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
	Zinc	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	17-MAR-10 00:50	031610-2
CCV12	Aluminum	5240	ug/L	5000	ug/L	104.8	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Antimony	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Barium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Cadmium	512	ug/L	500	ug/L	102.4	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Calcium	5350	ug/L	5000	ug/L	107	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Chromium	514	ug/L	500	ug/L	102.9	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Cobalt	520	ug/L	500	ug/L	104	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Copper	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Iron	5490	ug/L	5000	ug/L	109.7	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Lead	508	ug/L	500	ug/L	101.5	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Magnesium	5660	ug/L	5000	ug/L	113.1	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Manganese	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Potassium	5330	ug/L	5000	ug/L	106.6	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Silver	513	ug/L	500	ug/L	102.6	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Vanadium	518	ug/L	500	ug/L	103.6	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
	Zinc	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	17-MAR-10 01:47	031610-2
CCV13	Aluminum	5720	ug/L	5000	ug/L	114.5	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Antimony	551	ug/L	500	ug/L	110.1	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Barium	550	ug/L	500	ug/L	110	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Cadmium	550	ug/L	500	ug/L	110	90.0 – 110.0	P	17-MAR-10 03:04	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Calcium	5710	ug/L	5000	ug/L	114.3	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Chromium	553	ug/L	500	ug/L	110.6	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Cobalt	558	ug/L	500	ug/L	111.6	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Copper	546	ug/L	500	ug/L	109.2	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Iron	5710	ug/L	5000	ug/L	114.1	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Lead	542	ug/L	500	ug/L	108.4	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Magnesium	5870	ug/L	5000	ug/L	117.5	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Manganese	539	ug/L	500	ug/L	107.8	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Potassium	5820	ug/L	5000	ug/L	116.3	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Silver	550	ug/L	500	ug/L	109.9	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Vanadium	555	ug/L	500	ug/L	111	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
	Zinc	554	ug/L	500	ug/L	110.7	90.0 – 110.0	P	17-MAR-10 03:04	031610-2
CCV14	Aluminum	5410	ug/L	5000	ug/L	108.2	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Antimony	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Barium	507	ug/L	500	ug/L	101.5	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Cadmium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Calcium	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Chromium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Cobalt	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Copper	502	ug/L	500	ug/L	100.4	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Iron	5250	ug/L	5000	ug/L	105.1	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Lead	510	ug/L	500	ug/L	102	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Magnesium	5490	ug/L	5000	ug/L	109.7	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Manganese	512	ug/L	500	ug/L	102.5	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Potassium	5480	ug/L	5000	ug/L	109.7	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Silver	508	ug/L	500	ug/L	101.7	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Vanadium	513	ug/L	500	ug/L	102.5	90.0 – 110.0	P	17-MAR-10 04:15	031610-2
	Zinc	510	ug/L	500	ug/L	102	90.0 – 110.0	P	17-MAR-10 04:15	031610-2

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV15										
	Aluminum	5230	ug/L	5000	ug/L	104.5	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Antimony	514	ug/L	500	ug/L	102.8	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Barium	515	ug/L	500	ug/L	102.9	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Cadmium	513	ug/L	500	ug/L	102.7	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Calcium	5300	ug/L	5000	ug/L	106	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Chromium	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Cobalt	522	ug/L	500	ug/L	104.4	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Copper	510	ug/L	500	ug/L	102.1	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Iron	5310	ug/L	5000	ug/L	106.2	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Lead	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Magnesium	5520	ug/L	5000	ug/L	110.3	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Manganese	504	ug/L	500	ug/L	100.8	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Potassium	5340	ug/L	5000	ug/L	106.8	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Silver	516	ug/L	500	ug/L	103.2	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Vanadium	520	ug/L	500	ug/L	104	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
	Zinc	517	ug/L	500	ug/L	103.4	90.0 – 110.0	P	17-MAR-10 05:32	031610-2
CCV16										
	Aluminum	5110	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Antimony	515	ug/L	500	ug/L	103.1	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Barium	508	ug/L	500	ug/L	101.6	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Cadmium	507	ug/L	500	ug/L	101.4	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Calcium	5100	ug/L	5000	ug/L	102.1	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Chromium	509	ug/L	500	ug/L	101.8	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Cobalt	515	ug/L	500	ug/L	103	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Copper	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Iron	5030	ug/L	5000	ug/L	100.7	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Lead	506	ug/L	500	ug/L	101.3	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Magnesium	5240	ug/L	5000	ug/L	104.7	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Manganese	503	ug/L	500	ug/L	100.6	90.0 – 110.0	P	17-MAR-10 06:43	031610-2
	Potassium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	P	17-MAR-10 06:43	031610-2

METALS

-2a-

Initial and Continuing Calibration Verification

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

Initial Calibration Source: Solutions Plus

Continuing Calibration Source: O2Si

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Silver	509	ug/L	500	ug/L	101.8	90.0 - 110.0	P	17-MAR-10 06:43	031610-2
	Vanadium	513	ug/L	500	ug/L	102.6	90.0 - 110.0	P	17-MAR-10 06:43	031610-2
	Zinc	511	ug/L	500	ug/L	102.2	90.0 - 110.0	P	17-MAR-10 06:43	031610-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source: SPEX

ICP CRDL Standard Source Solutions Plus

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01										
	Mercury	.193	ug/L	.2	ug/L	96.5	70.0 – 130.0	AV	04-MAR-10 10:18	030410S1-6
	Thallium	1.25	ug/L	1	ug/L	125.1	70.0 – 130.0	MS	16-MAR-10 01:12	100315-4
	Selenium	6.2	ug/L	5	ug/L	123.9	70.0 – 130.0	MS	16-MAR-10 01:12	100315-4
	Arsenic	5.84	ug/L	5	ug/L	116.9	70.0 – 130.0	MS	16-MAR-10 01:12	100315-4
	Nickel	2.14	ug/L	2	ug/L	106.8	70.0 – 130.0	MS	16-MAR-10 18:07	100316-5
	Beryllium	.538	ug/L	.5	ug/L	107.6	70.0 – 130.0	MS	16-MAR-10 18:07	100316-5
	Uranium	.224	ug/L	.2	ug/L	112	70.0 – 130.0	MS	17-MAR-10 23:22	100317-3
PQL01										
	Antimony	10.9	ug/L	10	ug/L	108.7	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Barium	5.09	ug/L	5	ug/L	101.8	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Cadmium	5.13	ug/L	5	ug/L	102.6	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Chromium	4.9	ug/L	5	ug/L	98	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Cobalt	4.91	ug/L	5	ug/L	98.3	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Copper	9.7	ug/L	10	ug/L	97	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Vanadium	5.3	ug/L	5	ug/L	105.9	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Zinc	12.7	ug/L	10	ug/L	126.8	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Calcium	211	ug/L	200	ug/L	105.4	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Silver	4.82	ug/L	5	ug/L	96.4	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Potassium	198	ug/L	150	ug/L	131.7	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Manganese	10.4	ug/L	10	ug/L	103.8	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Magnesium	405	ug/L	300	ug/L	134.8	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Lead	9.35	ug/L	10	ug/L	93.5	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Iron	127	ug/L	100	ug/L	127.1	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Aluminum	226	ug/L	200	ug/L	113	70.0 – 130.0	P	16-MAR-10 15:37	031610-2
	Sodium	307	ug/L	300	ug/L	102.2	70.0 – 130.0	P	17-MAR-10 07:14	031710C-1
PQL02										
	Aluminum	209	ug/L	200	ug/L	104.7	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Iron	112	ug/L	100	ug/L	111.6	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Lead	11.3	ug/L	10	ug/L	113.3	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Magnesium	414	ug/L	300	ug/L	138	70.0 – 130.0	P	16-MAR-10 17:13	031610-2

METALS
-2b-
CRDL Standard for AA & ICP

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

AA CRDL Standard Source:

ICP CRDL Standard Source

Instrument ID: ICPMS3,ICPMS5,MER536,OPTIMA1,OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Manganese	10.5	ug/L	10	ug/L	105.1	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Potassium	228	ug/L	150	ug/L	151.8	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Silver	5.07	ug/L	5	ug/L	101.5	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Antimony	11.7	ug/L	10	ug/L	117.2	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Barium	5.29	ug/L	5	ug/L	105.9	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Cadmium	5.4	ug/L	5	ug/L	108	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Chromium	5.16	ug/L	5	ug/L	103.3	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Cobalt	4.96	ug/L	5	ug/L	99.3	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Copper	10.1	ug/L	10	ug/L	101.4	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Vanadium	4.91	ug/L	5	ug/L	98.3	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Zinc	14	ug/L	10	ug/L	140.3	70.0 – 130.0	P	16-MAR-10 17:13	031610-2
	Calcium	208	ug/L	200	ug/L	104.1	70.0 – 130.0	P	16-MAR-10 17:13	031610-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01	Mercury	-0.092	+/- .2	J	0.068	0.2	SOL	AV	04-MAR-10 10:16	030410S1-6
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	16-MAR-10 01:09	100315-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	16-MAR-10 01:09	100315-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	16-MAR-10 01:09	100315-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 15:29	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 15:29	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 15:29	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 15:29	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 15:29	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 15:29	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 15:29	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 15:29	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 15:29	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 15:29	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 15:29	031610-2
	Beryllium	0.1	+/- .5	U	0.1	0.5	SOL	MS	16-MAR-10 18:05	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 18:05	100316-5
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 07:10	031710C-1
	Uranium	0.13	+/- .2	J	0.066	0.2	SOL	MS	17-MAR-10 23:20	100317-3
CCB01	Mercury	0.068	+/- .2	U	0.068	0.2	SOL	AV	04-MAR-10 10:22	030410S1-6
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	16-MAR-10 01:27	100315-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	16-MAR-10 01:27	100315-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	16-MAR-10 01:27	100315-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 16:24	031610-2
	Antimony	4.61	+/-10	J	3.3	10.0	SOL	P	16-MAR-10 16:24	031610-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 16:24	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 16:24	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 16:24	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 16:24	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 16:24	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 16:24	031610-2
	Potassium	83.14	+/-250	J	64.0	250	SOL	P	16-MAR-10 16:24	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:24	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 16:24	031610-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 18:14	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 18:14	100316-5
	Sodium	87.67	+/-250	J	70.0	250	SOL	P	17-MAR-10 07:33	031710C-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-MAR-10 23:28	100317-3
CCB02	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-MAR-10 10:46	030410S1-6
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	16-MAR-10 02:03	100315-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	16-MAR-10 02:03	100315-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	16-MAR-10 02:03	100315-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 16:44	031610-2
	Antimony	4.0	+/-10	J	3.3	10.0	SOL	P	16-MAR-10 16:44	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 16:44	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 16:44	031610-2

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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 16:44	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 16:44	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 16:44	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 16:44	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 16:44	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 16:44	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 16:44	031610-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 18:31	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 18:31	100316-5
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 07:44	031710C-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-MAR-10 23:44	100317-3
CCB03										
	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-MAR-10 11:11	030410S1-6
	Arsenic	1.0	+/-5	U	1.0	5.0	SOL	MS	16-MAR-10 02:44	100315-4
	Selenium	2.5	+/-5	U	2.5	5.0	SOL	MS	16-MAR-10 02:44	100315-4
	Thallium	0.3	+/-1	U	0.3	1.0	SOL	MS	16-MAR-10 02:44	100315-4
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 17:19	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 17:19	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 17:19	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 17:19	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 17:19	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 17:19	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 17:19	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 17:19	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 17:19	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 17:19	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 17:19	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 17:19	031610-2
	Potassium	78.47	+/-250	J	64.0	250	SOL	P	16-MAR-10 17:19	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 17:19	031610-2

Metals
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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 17:19	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 17:19	031610-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 18:50	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 18:50	100316-5
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 08:24	031710C-1
	Uranium	0.066	+/-2	U	0.066	0.2	SOL	MS	17-MAR-10 23:55	100317-3
CCB04	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-MAR-10 11:34	030410S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 18:36	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 18:36	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 18:36	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 18:36	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 18:36	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 18:36	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 18:36	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 18:36	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 18:36	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:36	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 18:36	031610-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 19:09	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 19:09	100316-5
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 09:04	031710C-1
CCB05	Mercury	0.068	+/-2	U	0.068	0.2	SOL	AV	04-MAR-10 11:58	030410S1-6
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 18:56	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 18:56	031610-2

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SDG No.: 10-1915

Contract: LANL01004

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<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 18:56	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 18:56	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 18:56	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 18:56	031610-2
	Magnesium	112.92	+/-300	J	85.0	300	SOL	P	16-MAR-10 18:56	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 18:56	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 18:56	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 18:56	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 18:56	031610-2
	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 19:28	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 19:28	100316-5
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 09:43	031710C-1
CCB06	Beryllium	0.1	+/-5	U	0.1	0.5	SOL	MS	16-MAR-10 19:36	100316-5
	Nickel	0.5	+/-2	U	0.5	2.0	SOL	MS	16-MAR-10 19:36	100316-5
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 19:54	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 19:54	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 19:54	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 19:54	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 19:54	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 19:54	031610-2
	Magnesium	137.73	+/-300	J	85.0	300	SOL	P	16-MAR-10 19:54	031610-2

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Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

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<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 19:54	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 19:54	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 19:54	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 19:54	031610-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 10:24	031710C-1
CCB07	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 21:04	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 21:04	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 21:04	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 21:04	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 21:04	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 21:04	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	16-MAR-10 21:04	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 21:04	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 21:04	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 21:04	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 21:04	031610-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 11:00	031710C-1
CCB08	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 22:08	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 22:08	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:08	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:08	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 22:08	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 22:08	031610-2

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<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis Date/Time</u>	<u>Run</u>
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 22:08	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 22:08	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 22:08	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 22:08	031610-2
	Magnesium	145.11	+/-300	J	85.0	300	SOL	P	16-MAR-10 22:08	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 22:08	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 22:08	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:08	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:08	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 22:08	031610-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 11:40	031710C-1
CCB09	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	16-MAR-10 22:57	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 22:57	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 22:57	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	16-MAR-10 22:57	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	16-MAR-10 22:57	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	16-MAR-10 22:57	031610-2
	Magnesium	90.64	+/-300	J	85.0	300	SOL	P	16-MAR-10 22:57	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	16-MAR-10 22:57	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	16-MAR-10 22:57	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	16-MAR-10 22:57	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	16-MAR-10 22:57	031610-2
	Sodium	70.0	+/-250	U	70.0	250	SOL	P	17-MAR-10 12:16	031710C-1
CCB10	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 00:00	031610-2

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<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB11	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 00:00	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 00:00	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 00:00	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 00:00	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 00:00	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 00:00	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 00:00	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 00:00	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:00	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 00:00	031610-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 00:57	031610-2
CCB11	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 00:57	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:57	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:57	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 00:57	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 00:57	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 00:57	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 00:57	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 00:57	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 00:57	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 00:57	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 00:57	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 00:57	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:57	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 00:57	031610-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB12	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 00:57	031610-2
	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 01:54	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 01:54	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 01:54	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 01:54	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 01:54	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 01:54	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 01:54	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 01:54	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 01:54	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 01:54	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 01:54	031610-2
CCB13	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 03:11	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 03:11	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 03:11	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 03:11	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 03:11	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 03:11	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 03:11	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 03:11	031610-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 03:11	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 03:11	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 03:11	031610-2
CCB14	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 04:22	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 04:22	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 04:22	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 04:22	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 04:22	031610-2
	Lead	-2.6	+/-10	J	2.5	10.0	SOL	P	17-MAR-10 04:22	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 04:22	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 04:22	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 04:22	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 04:22	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 04:22	031610-2
CCB15	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 05:39	031610-2
	Antimony	3.69	+/-10	J	3.3	10.0	SOL	P	17-MAR-10 05:39	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 05:39	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 05:39	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 05:39	031610-2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 05:39	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 05:39	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 05:39	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 05:39	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 05:39	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 05:39	031610-2
CCB16	Aluminum	68.0	+/-200	U	68.0	200	SOL	P	17-MAR-10 06:50	031610-2
	Antimony	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 06:50	031610-2
	Barium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Cadmium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Calcium	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 06:50	031610-2
	Chromium	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Cobalt	1.5	+/-5	U	1.5	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Copper	3.0	+/-10	U	3.0	10.0	SOL	P	17-MAR-10 06:50	031610-2
	Iron	80.0	+/-250	U	80.0	250	SOL	P	17-MAR-10 06:50	031610-2
	Lead	2.5	+/-10	U	2.5	10.0	SOL	P	17-MAR-10 06:50	031610-2
	Magnesium	85.0	+/-300	U	85.0	300	SOL	P	17-MAR-10 06:50	031610-2
	Manganese	2.0	+/-10	U	2.0	10.0	SOL	P	17-MAR-10 06:50	031610-2
	Potassium	64.0	+/-250	U	64.0	250	SOL	P	17-MAR-10 06:50	031610-2
	Silver	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Vanadium	1.0	+/-5	U	1.0	5.0	SOL	P	17-MAR-10 06:50	031610-2
	Zinc	3.3	+/-10	U	3.3	10.0	SOL	P	17-MAR-10 06:50	031610-2

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 10-1915
Contract: LANL01004
Matrix: SOIL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M</u>	<u>MDL</u>	<u>RDL</u>
1202047737								
	Calcium	7680	ug/Kg	+/-24000	U	P	7680	24000
	Chromium	144	ug/Kg	+/-480	U	P	144	480
	Cobalt	144	ug/Kg	+/-480	U	P	144	480
	Copper	288	ug/Kg	+/-960	U	P	288	960
	Iron	7680	ug/Kg	+/-24000	U	P	7680	24000
	Lead	240	ug/Kg	+/-960	U	P	240	960
	Magnesium	11700	ug/Kg	+/-28800	J	P	8160	28800
	Manganese	192	ug/Kg	+/-960	U	P	192	960
	Potassium	6140	ug/Kg	+/-24000	U	P	6140	24000
	Barium	96	ug/Kg	+/-480	U	P	96	480
	Antimony	317	ug/Kg	+/-960	U	P	317	960
	Aluminum	6530	ug/Kg	+/-19200	U	P	6530	19200
	Cadmium	96	ug/Kg	+/-480	U	P	96	480
	Silver	96	ug/Kg	+/-480	U	P	96	480
	Sodium	6720	ug/Kg	+/-24000	U	P	6720	24000
	Vanadium	96	ug/Kg	+/-480	U	P	96	480
	Zinc	317	ug/Kg	+/-960	U	P	317	960
1202047743								
	Arsenic	0.195	mg/kg	+/-0.973	U	MS	0.195	0.973
	Beryllium	0.0195	mg/kg	+/-0.0973	U	MS	0.0195	0.0973
	Nickel	0.0973	mg/kg	+/-0.389	U	MS	0.0973	0.389
	Selenium	0.486	mg/kg	+/-0.973	U	MS	0.486	0.973
	Thallium	0.0584	mg/kg	+/-0.195	U	MS	0.0584	0.195
	Uranium	0.0128	mg/kg	+/-0.0389	U	MS	0.0128	0.0389
1202055944								
	Mercury	-4.52	ug/kg	+/-10.2	J	AV	3.45	10.2

METALS
-4-
Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA1

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Sodium	7.6	ug/L					17-MAR-10 07:17	031710C-1
ICSAB01	Sodium	5020	ug/L	5000	ug/L	100	80.0 - 120.0	17-MAR-10 07:20	031710C-1

METALS
-4-
Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: OPTIMA3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Aluminum	523000	ug/L	500000	ug/L	105	80.0 – 120.0	16-MAR-10 15:44	031610-2
	Antimony	3.94	ug/L					16-MAR-10 15:44	031610-2
	Barium	0.433	ug/L					16-MAR-10 15:44	031610-2
	Cadmium	1.16	ug/L					16-MAR-10 15:44	031610-2
	Calcium	484000	ug/L	500000	ug/L	96.8	80.0 – 120.0	16-MAR-10 15:44	031610-2
	Chromium	0.242	ug/L					16-MAR-10 15:44	031610-2
	Cobalt	-1.49	ug/L					16-MAR-10 15:44	031610-2
	Copper	2.91	ug/L					16-MAR-10 15:44	031610-2
	Iron	187000	ug/L	200000	ug/L	93.3	80.0 – 120.0	16-MAR-10 15:44	031610-2
	Lead	-9.77	ug/L					16-MAR-10 15:44	031610-2
	Magnesium	489000	ug/L	500000	ug/L	97.9	80.0 – 120.0	16-MAR-10 15:44	031610-2
	Manganese	-2.58	ug/L					16-MAR-10 15:44	031610-2
	Potassium	-170.0	ug/L					16-MAR-10 15:44	031610-2
	Silver	-1.16	ug/L					16-MAR-10 15:44	031610-2
	Vanadium	-2.55	ug/L					16-MAR-10 15:44	031610-2
	Zinc	0.843	ug/L					16-MAR-10 15:44	031610-2
ICSAB01									
	Aluminum	521000	ug/L	500000	ug/L	104	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Antimony	549	ug/L	500	ug/L	110	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Barium	500	ug/L	500	ug/L	100	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Cadmium	469	ug/L	500	ug/L	93.9	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Calcium	481000	ug/L	500000	ug/L	96.2	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Chromium	495	ug/L	500	ug/L	98.9	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Cobalt	452	ug/L	500	ug/L	90.5	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Copper	558	ug/L	500	ug/L	112	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Iron	186000	ug/L	200000	ug/L	93.2	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Lead	462	ug/L	500	ug/L	92.3	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Magnesium	495000	ug/L	500000	ug/L	98.9	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Manganese	484	ug/L	500	ug/L	96.8	80.0 – 120.0	16-MAR-10 15:50	031610-2

METALS
-4-
Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS:

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Potassium	5350	ug/L	5000	ug/L	107	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Silver	276	ug/L	250	ug/L	110	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Vanadium	520	ug/L	500	ug/L	104	80.0 – 120.0	16-MAR-10 15:50	031610-2
	Zinc	499	ug/L	500	ug/L	99.8	80.0 – 120.0	16-MAR-10 15:50	031610-2

METALS

-4-

Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS3

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Uranium	0.02	ug/L					17-MAR-10 23:23	100317-3
ICSAB01	Uranium	23.3	ug/L	20	ug/L	117	80.0 - 120.0	17-MAR-10 23:25	100317-3

METALS

-4-

Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Arsenic	0.176	ug/L					16-MAR-10 01:16	100315-4
	Selenium	-1.34	ug/L					16-MAR-10 01:16	100315-4
	Thallium	0.031	ug/L					16-MAR-10 01:16	100315-4
ICSAB01	Arsenic	22.4	ug/L	20	ug/L	112	80.0 - 120.0	16-MAR-10 01:19	100315-4
	Selenium	20.5	ug/L	20	ug/L	103	80.0 - 120.0	16-MAR-10 01:19	100315-4
	Thallium	22.9	ug/L	20	ug/L	114	80.0 - 120.0	16-MAR-10 01:19	100315-4

METALS

-4-

Interference Check Sample

SDG No: 10-1915

Contract: LANL01004

Lab Code: GEL

ICS: O2Si

Instrument: ICPMS5

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Beryllium	0.082	ug/L					16-MAR-10 18:08	100316-5
	Nickel	3.17	ug/L					16-MAR-10 18:08	100316-5
ICSAB01	Beryllium	20.3	ug/L	20	ug/L	102	80.0 - 120.0	16-MAR-10 18:10	100316-5
	Nickel	23.4	ug/L	23.31	ug/L	100	80.0 - 120.0	16-MAR-10 18:10	100316-5

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1915

Client ID RE46-10-12942S

Contract: LANL01004

Level: Low

Matrix: SOIL

% Solids: 94.8

Sample ID: 247321001

Spike ID: 1202047740

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	2950000		1370000		512000	307	N	P
Antimony	ug/Kg	75-125	52200		347	U	51200	102		P
Barium	ug/Kg	75-125	80500		28700		51200	101		P
Cadmium	ug/Kg	75-125	51600		105	U	51200	101		P
Calcium	ug/Kg	75-125	1470000		851000		512000	121		P
Chromium	ug/Kg	75-125	55400		1700		51200	105		P
Cobalt	ug/Kg	75-125	52200		405	J	51200	101		P
Copper	ug/Kg	75-125	56700		1050		51200	109		P
Iron	ug/Kg		6170000		5020000		512000	225	N/A	P
Lead	ug/Kg	75-125	56700		2890		51200	105		P
Magnesium	ug/Kg	75-125	754000		143000		512000	119		P
Manganese	ug/Kg		293000		236000		51200	112	N/A	P
Potassium	ug/Kg	75-125	1470000		595000		512000	171	N	P
Silver	ug/Kg	75-125	52300		178	J	51200	102		P
Sodium	ug/Kg	75-125	1470000		571000		512000	176	N	P
Vanadium	ug/Kg	75-125	53800		1440		51200	102		P
Zinc	ug/Kg	75-125	82900		27300		51200	108		P

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1915 Client ID RE46-10-12942SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 94.8

Sample ID: 247321001 Spike ID: 1202047741

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/Kg	75-125	2840000		1370000		500000	295	N	P
Antimony	ug/Kg	75-125	49600		347	U	50000	99.3		P
Barium	ug/Kg	75-125	84400		28700		50000	112		P
Cadmium	ug/Kg	75-125	48800		105	U	50000	97.7		P
Calcium	ug/Kg	75-125	1480000		851000		500000	125		P
Chromium	ug/Kg	75-125	52600		1700		50000	102		P
Cobalt	ug/Kg	75-125	49400		405	J	50000	98		P
Copper	ug/Kg	75-125	54200		1050		50000	106		P
Iron	ug/Kg		6350000		5020000		500000	265	N/A	P
Lead	ug/Kg	75-125	54000		2890		50000	102		P
Magnesium	ug/Kg	75-125	755000		143000		500000	122		P
Manganese	ug/Kg		298000		236000		50000	123	N/A	P
Potassium	ug/Kg	75-125	1380000		595000		500000	158	N	P
Silver	ug/Kg	75-125	49700		178	J	50000	99.1		P
Sodium	ug/Kg	75-125	1370000		571000		500000	160	N	P
Vanadium	ug/Kg	75-125	51800		1440		50000	101		P
Zinc	ug/Kg	75-125	80900		27300		50000	107		P

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1915 Client ID RE46-10-12942S

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 94.8

Sample ID: 247321001 Spike ID: 1202047746

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.91		0.626	J	8.09	102		MS
Beryllium	mg/kg	75-125	4.91		0.198		5.05	93.2		MS
Nickel	mg/kg	75-125	6.58		1.79		5.05	94.6		MS
Selenium	mg/kg	75-125	2.03		0.525	U	2.02	92.3		MS
Thallium	mg/kg	75-125	11.1		0.0743	J	10.1	109		MS
Uranium	mg/kg	75-125	6.5		0.733		5.05	114		MS

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1915 Client ID RE46-10-12942SD

Contract: LANL01004 Level: Low

Matrix: SOIL % Solids: 94.8

Sample ID: 247321001 Spike ID: 1202047747

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	mg/kg	75-125	8.76		0.626	J	8.04	101		MS
Beryllium	mg/kg	75-125	4.85		0.198		5.03	92.5		MS
Nickel	mg/kg	75-125	6.71		1.79		5.03	97.7		MS
Selenium	mg/kg	75-125	2.04		0.525	U	2.01	92.9		MS
Thallium	mg/kg	75-125	11		0.0743	J	10.1	109		MS
Uranium	mg/kg	75-125	6.33		0.733		5.03	111		MS

METALS

-5a-

Matrix Spike Summary

SDG NO. 10-1915 **Client ID** RE36-10-7427S**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 64**Sample ID:** 247359001 **Spike ID:** 1202055947

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M</u>
Mercury	ug/kg	75-125	258		71.6		166	112		AV

METALS

-5a-

Matrix Spike Duplicate Summary

SDG NO. 10-1915 **Client ID** RE36-10-7427SD**Contract:** LANL01004 **Level:** Low**Matrix:** SOIL **% Solids:** 64**Sample ID:** 247359001 **Spike ID:** 1202055949

Analyte	Units	Acceptance Limit	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/kg	75-125	238		71.6		162	103		AV

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12942D

Sample ID: 247321001

Duplicate ID: 1202047738

Percent Solids for Dup: 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20%	1370000		1650000		18.2		P
Antimony	ug/Kg		347 U		344 U				P
Barium	ug/Kg	+/-20%	28700		30900		7.22		P
Cadmium	ug/Kg		105 U		104 U				P
Calcium	ug/Kg	+/-20%	851000		881000		3.55		P
Chromium	ug/Kg	+/-521	1700		7170		123	*	P
Cobalt	ug/Kg	+/-521	405 J		458 J		12.1		P
Copper	ug/Kg	+/-1040	1050		1260		17.7		P
Iron	ug/Kg	+/-20%	5020000		5650000		11.9		P
Lead	ug/Kg	+/-1040	2890		2930		1.29		P
Magnesium	ug/Kg	+/-31300	143000		223000		43.7	*	P
Manganese	ug/Kg	+/-20%	236000		231000		2.04		P
Potassium	ug/Kg	+/-20%	595000		604000		1.51		P
Silver	ug/Kg	+/-521	178 J		186 J		4.31		P
Sodium	ug/Kg	+/-20%	571000		531000		7.3		P
Vanadium	ug/Kg	+/-521	1440		2100		37.3	*	P
Zinc	ug/Kg	+/-20%	27300		28000		2.41		P

Metals
-6-
Duplicate Sample Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12942SD

Sample ID: 1202047740

Duplicate ID: 1202047741

Percent Solids for Dup: 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/Kg	+/-20	2950000		2840000		3.51		P
Antimony	ug/Kg	+/-20	52200		49600		5.17		P
Barium	ug/Kg	+/-20	80500		84400		4.81		P
Cadmium	ug/Kg	+/-20	51600		48800		5.59		P
Calcium	ug/Kg	+/-20	1470000		1480000		.543		P
Chromium	ug/Kg	+/-20	55400		52600		5.21		P
Cobalt	ug/Kg	+/-20	52200		49400		5.62		P
Copper	ug/Kg	+/-20	56700		54200		4.56		P
Iron	ug/Kg	+/-20	6170000		6350000		2.76		P
Lead	ug/Kg	+/-20	56700		54000		4.93		P
Magnesium	ug/Kg	+/-20	754000		755000		.0757		P
Manganese	ug/Kg	+/-20	293000		298000		1.44		P
Potassium	ug/Kg	+/-20	1470000		1380000		6.07		P
Silver	ug/Kg	+/-20	52300		49700		5.15		P
Sodium	ug/Kg	+/-20	1470000		1370000		7.4		P
Vanadium	ug/Kg	+/-20	53800		51800		3.86		P
Zinc	ug/Kg	+/-20	82900		80900		2.43		P

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46-10-12942D

Sample ID: 247321001

Duplicate ID: 1202047744

Percent Solids for Dup: 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-1.04	0.626 J		0.747 J		17.6		MS
Beryllium	mg/kg	+/- .104	0.198		0.196		1.43		MS
Nickel	mg/kg	+/- .416	1.79		2.14		17.5		MS
Selenium	mg/kg		0.525 U		0.52 U				MS
Thallium	mg/kg	+/- .208	0.0743 J		0.0768 J		3.36		MS
Uranium	mg/kg	+/-20%	0.733		0.747		1.86		MS

Metals
–6–
Duplicate Sample Summary

SDG No.: 10–1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE46–10–12942SD

Sample ID: 1202047746

Duplicate ID: 1202047747

Percent Solids for Dup: 94.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Arsenic	mg/kg	+/-20	8.91		8.76		1.7		MS
Beryllium	mg/kg	+/-20	4.91		4.85		1.35		MS
Nickel	mg/kg	+/-20	6.58		6.71		1.96		MS
Selenium	mg/kg	+/-20	2.03		2.04		.0608		MS
Thallium	mg/kg	+/-20	11.1		11		.906		MS
Uranium	mg/kg	+/-20	6.5		6.33		2.65		MS

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7427D

Sample ID: 247359001

Duplicate ID: 1202055946

Percent Solids for Dup: 64

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-18.6	71.6		62		14.3		AV

Metals

-6-

Duplicate Sample Summary

SDG No.: 10-1915

Contract: LANL01004

Lab Code: GEL

Matrix: SOLID

Level: Low

Client ID: RE36-10-7427SD

Sample ID: 1202055947

Duplicate ID: 1202055949

Percent Solids for Dup: 64

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/kg	+/-20	258		238		8.18		AV

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1915

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202047742								
	Aluminum	ug/Kg	10500000	8960000		85.3	56-144	P
	Antimony	ug/Kg	173000	126000		72.8	71-130	P
	Barium	ug/Kg	198000	194000		98.1	80-120	P
	Cadmium	ug/Kg	60700	61000		100	81-120	P
	Calcium	ug/Kg	9870000	9950000		101	83-117	P
	Chromium	ug/Kg	236000	260000		110	80-120	P
	Cobalt	ug/Kg	91200	96300		106	81-120	P
	Copper	ug/Kg	174000	191000		110	81-118	P
	Iron	ug/Kg	18000000	17400000		96.6	51-149	P
	Lead	ug/Kg	86000	82700		96.2	79-121	P
	Magnesium	ug/Kg	4000000	3740000		93.5	79-122	P
	Manganese	ug/Kg	558000	545000		97.7	81-119	P
	Potassium	ug/Kg	4300000	4110000		95.7	74-127	P
	Silver	ug/Kg	30100	31800		106	66-134	P
	Sodium	ug/Kg	1020000	1040000		102	74-127	P
	Vanadium	ug/Kg	115000	126000		110	79-121	P
	Zinc	ug/Kg	594000	597000		100	80-121	P

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1915

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202047748								
	Arsenic	mg/kg	104	115		111	78-123	MS
	Beryllium	mg/kg	77.6	86.7		112	84-116	MS
	Nickel	mg/kg	134	157		117	78-123	MS
	Selenium	mg/kg	286	315		110	77-123	MS
	Thallium	mg/kg	121	147		121	78-122	MS
	Uranium	mg/kg	2.13	2.02		95	73-127	MS

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 10-1915

Contract: LANL01004

Aqueous LCS Source:

Solid LCS Source: ERA

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M</u>
1202055945	Mercury	ug/kg	5150	6280		122	71.6-128.3	AV

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1915 Client ID RE46-10-12942L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 247321001 Serial Dilution ID: 1202047739

Analyte	Initial Value ug/L	C	Serial Value ug/L	C	% Difference	Qual	Acceptance Limit	M
Aluminum	13000		13100		.769		10	P
Antimony	3.3	U	16.5	U				P
Barium	273		280		2.56		10	P
Cadmium	1	U	5	U				P
Calcium	8090		8050		.494		10	P
Chromium	16.2		15.9	J	1.85			P
Cobalt	3.86	J	7.5	U	100			P
Copper	10		15	U	100			P
Iron	47800		48500		1.36		10	P
Lead	27.5		22	J	20.2			P
Magnesium	1360		1680		23.2			P
Manganese	2250		2340		3.78		10	P
Potassium	5660		5700		.707		10	P
Silver	1.69	J	5	U	100			P
Sodium	5440		5300		2.57		10	P
Vanadium	13.7		14.4	J	5.11			P
Zinc	260		264		1.54		10	P

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1915 Client ID RE46-10-12942L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 247321001 Serial Dilution ID: 1202047745

Analyte	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Arsenic	2.98	J	5	U	100			MS
Beryllium	.946		1.02	J	7.82			MS
Nickel	8.55		8.8	J	2.92			MS
Selenium	2.5	U	12.5	U				MS
Thallium	.354	J	1.5	U	100			MS
Uranium	3.49		3.76		7.59			MS

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 10-1915 Client ID RE36-10-7427L

Contract: LANL01004

Matrix: SOLID Level: Low

Sample ID: 247359001 Serial Dilution ID: 1202055948

<u>Analyte</u>	<u>Initial Value ug/L</u>	<u>C</u>	<u>Serial Value ug/L</u>	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M</u>
Mercury	.826		.34	U	100			AV

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1915

Method Type: P

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	955144						
1202047737	MB for batch 955144	MB	S	25-FEB-10	.521g	50mL	
1202047742	LCS for batch 955144	LCS	S	25-FEB-10	.513g	50mL	
1202047740	RE46-10-12942S	MS	S	25-FEB-10	.515g	50mL	
1202047741	RE46-10-12942SD	MSD	S	25-FEB-10	.528g	50mL	
1202047738	RE46-10-12942D	DUP	S	25-FEB-10	.506g	50mL	
247359001	RE36-10-7427	SAMPLE	S	25-FEB-10	.554g	50mL	
247359002	RE36-10-7423	SAMPLE	S	25-FEB-10	.53g	50mL	
247359003	RE36-10-7428	SAMPLE	S	25-FEB-10	.535g	50mL	
247359004	RE36-10-7424	SAMPLE	S	25-FEB-10	.517g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1915

Method Type: MS

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	955146						
1202047743	MB for batch 955146	MB	S	25-FEB-10	.514g	50mL	
1202047748	LCS for batch 955146	LCS	S	25-FEB-10	.524g	50mL	
1202047746	RE46-10-12942S	MS	S	25-FEB-10	.522g	50mL	
1202047747	RE46-10-12942SD	MSD	S	25-FEB-10	.525g	50mL	
1202047744	RE46-10-12942D	DUP	S	25-FEB-10	.507g	50mL	
247359001	RE36-10-7427	SAMPLE	S	25-FEB-10	.52g	50mL	
247359002	RE36-10-7423	SAMPLE	S	25-FEB-10	.504g	50mL	
247359003	RE36-10-7428	SAMPLE	S	25-FEB-10	.526g	50mL	
247359004	RE36-10-7424	SAMPLE	S	25-FEB-10	.543g	50mL	

SW846

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 10-1915

Method Type: AV

Contract: LANL01004

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	958639						
1202055944	MB for batch 958639	MB	S	03-MAR-10	.591g	30mL	
1202055945	LCS for batch 958639	LCS	S	03-MAR-10	.204g	30mL	
1202055947	RE36-10-7427S	MS	S	03-MAR-10	.569g	30mL	
1202055949	RE36-10-7427SD	MSD	S	03-MAR-10	.584g	30mL	
1202055946	RE36-10-7427D	DUP	S	03-MAR-10	.507g	30mL	
247359001	RE36-10-7427	SAMPLE	S	03-MAR-10	.545g	30mL	
247359002	RE36-10-7423	SAMPLE	S	03-MAR-10	.528g	30mL	
247359003	RE36-10-7428	SAMPLE	S	03-MAR-10	.551g	30mL	
247359004	RE36-10-7424	SAMPLE	S	03-MAR-10	.517g	30mL	

SW846

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 16-MAR-10

End Date: 16-MAR-10

Client Sdg: 10-1915

Method MS

Data File: 100315-4

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	00:54			X															X			X			
S10	1	00:58			X															X			X			
S100	1	01:01			X															X			X			
ICV01	1	01:05			X															X			X			
ICB01	1	01:09			X															X			X			
CRDL01	1	01:12			X															X			X			
ICSA01	1	01:16			X															X			X			
ICSAB01	1	01:19			X															X			X			
CCV01	1	01:23			X															X			X			
CCB01	1	01:27			X															X			X			
1202047743	2	01:30			X															X			X			
1202047748	40	01:34			X															X			X			
ZZZZZZ	2	01:38																								
1202047744	2	01:41			X															X			X			
1202047746	2	01:45			X															X			X			
1202047747	2	01:49			X															X			X			
1202047745	10	01:52			X															X			X			
ZZZZZZ	2	01:56																								
CCV02	1	02:00			X															X			X			
CCB02	1	02:03			X															X			X			
ZZZZZZ	2	02:07																								
ZZZZZZ	2	02:11																								
ZZZZZZ	2	02:14																								
ZZZZZZ	2	02:18																								
ZZZZZZ	2	02:22																								
247359001	2	02:25			X															X			X			
247359002	2	02:29			X															X			X			
247359003	2	02:33			X															X			X			
247359004	2	02:36			X															X			X			
CCV03	1	02:40			X															X			X			
CCB03	1	02:44			X															X			X			

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS5

Start Date: 16-MAR-10

End Date: 16-MAR-10

Client Sdg: 10-1915

Method MS

Data File: 100316-5

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Ti	U	V	Zn
S0.0	1	17:58					X											X								
S10	1	18:00					X											X								
S100	1	18:02					X											X								
ICV01	1	18:03					X											X								
ICB01	1	18:05					X											X								
CRDL01	1	18:07					X											X								
ICSA01	1	18:08					X											X								
ICSAB01	1	18:10					X											X								
CCV01	1	18:12					X											X								
CCB01	1	18:14					X											X								
1202047743	2	18:15					X											X								
1202047748	40	18:17					X											X								
ZZZZZZ	2	18:19																								
1202047744	2	18:20					X											X								
1202047746	2	18:22					X											X								
1202047747	2	18:24					X											X								
1202047745	10	18:26					X											X								
ZZZZZZ	2	18:27																								
CCV02	1	18:29					X											X								
CCB02	1	18:31					X											X								
ZZZZZZ	2	18:33																								
ZZZZZZ	2	18:34																								
ZZZZZZ	2	18:36																								
ZZZZZZ	2	18:38																								
ZZZZZZ	2	18:40																								
247359001	2	18:41					X											X								
247359002	2	18:43					X											X								
247359003	2	18:45					X											X								
ZZZZZZ	2	18:47																								
CCV03	1	18:48					X											X								
CCB03	1	18:50					X											X								
ZZZZZZ	2	18:52																								
ZZZZZZ	40	18:54																								
ZZZZZZ	2	18:55																								
ZZZZZZ	2	18:57																								
ZZZZZZ	2	18:59																								
ZZZZZZ	2	19:00																								
ZZZZZZ	10	19:02																								
ZZZZZZ	2	19:04																								
ZZZZZZ	2	19:05																								

[illegible]

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA3

Start Date: 16-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-1915

Method P

Data File: 031610-2

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	14:49	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
S0.1	1	14:57		X		X		X		X	X	X		X		X			X		X				X	X
S0.5	1	15:03	X	X		X		X	X	X	X	X		X	X	X			X		X				X	X
SCAL	1	15:10	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
S10	1	15:17	X					X					X		X											
ICV01	1	15:22	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ICB01	1	15:29	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
PQL01	1	15:37	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ICSA01	1	15:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ICSAB01	1	15:50	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
LR01	1	15:56	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
LR02	1	16:03	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	16:10																								
CCV01	1	16:17	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB01	1	16:24	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
LR03	1	16:30	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCV02	1	16:37	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB02	1	16:44	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	16:52																								
ZZZZZZ	5	16:59																								
CCV03	1	17:06	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
PQL02	1	17:13	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB03	1	17:19	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	17:39																								
ZZZZZZ	1	17:47																								
ZZZZZZ	1	17:54																								
ZZZZZZ	1	18:01																								
ZZZZZZ	1	18:08																								
ZZZZZZ	5	18:15																								
ZZZZZZ	1	18:22																								
CCV04	1	18:29	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB04	1	18:36	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCV05	1	18:49	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB05	1	18:56	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	19:04																								
ZZZZZZ	1	19:11																								
ZZZZZZ	1	19:18																								
ZZZZZZ	1	19:25																								
ZZZZZZ	1	19:32																								
ZZZZZZ	1	19:40																								

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																				
CCV06	1	19:47	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
CCB06	1	19:54	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
ZZZZZZ	1	20:02																				
ZZZZZZ	1	20:08																				
ZZZZZZ	1	20:16																				
ZZZZZZ	1	20:23																				
ZZZZZZ	1	20:30																				
ZZZZZZ	1	20:37																				
ZZZZZZ	5	20:44																				
ZZZZZZ	1	20:50																				
CCV07	1	20:57	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
CCB07	1	21:04	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
ZZZZZZ	1	21:12																				
ZZZZZZ	1	21:19																				
ZZZZZZ	1	21:26																				
ZZZZZZ	1	21:33																				
ZZZZZZ	1	21:40																				
ZZZZZZ	1	21:47																				
ZZZZZZ	5	21:54																				
CCV08	1	22:01	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
CCB08	1	22:08	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
ZZZZZZ	1	22:15																				
ZZZZZZ	1	22:22																				
ZZZZZZ	1	22:29																				
ZZZZZZ	1	22:36																				
ZZZZZZ	1	22:43																				
CCV09	1	22:50	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
CCB09	1	22:57	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
ZZZZZZ	1	23:04																				
ZZZZZZ	1	23:10																				
ZZZZZZ	1	23:18																				
ZZZZZZ	1	23:25																				
ZZZZZZ	1	23:32																				
ZZZZZZ	1	23:39																				
ZZZZZZ	5	23:46																				
CCV10	1	23:53	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
CCB10	1	00:00	X	X		X		X	X	X	X	X	X	X	X		X	X			X	X
ZZZZZZ	1	00:07																				
ZZZZZZ	1	00:14																				
ZZZZZZ	1	00:21																				

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
ZZZZZZ	1	00:29																								
ZZZZZZ	1	00:36																								
ZZZZZZ	1	00:43																								
CCV11	1	00:50	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB11	1	00:57	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	01:04																								
ZZZZZZ	1	01:11																								
ZZZZZZ	1	01:19																								
ZZZZZZ	1	01:26																								
ZZZZZZ	1	01:33																								
ZZZZZZ	1	01:40																								
CCV12	1	01:47	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB12	1	01:54	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	02:01																								
ZZZZZZ	1	02:07																								
ZZZZZZ	1	02:15																								
ZZZZZZ	1	02:22																								
ZZZZZZ	1	02:29																								
ZZZZZZ	1	02:36																								
ZZZZZZ	5	02:43																								
ZZZZZZ	1	02:50																								
ZZZZZZ	1	02:57																								
CCV13	1	03:04	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB13	1	03:11	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	03:18																								
ZZZZZZ	1	03:25																								
ZZZZZZ	1	03:32																								
ZZZZZZ	1	03:40																								
ZZZZZZ	1	03:47																								
ZZZZZZ	1	03:54																								
ZZZZZZ	1	04:01																								
ZZZZZZ	1	04:08																								
CCV14	1	04:15	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
CCB14	1	04:22	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
1202047737	1	04:29	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
1202047742	1	04:36	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
ZZZZZZ	1	04:43																								
1202047738	1	04:50	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
1202047740	1	04:57	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X
1202047741	1	05:04	X	X		X		X	X	X	X	X	X	X	X	X			X		X				X	X

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time																								
1202047739	5	05:11	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
ZZZZZZ	1	05:18																								
ZZZZZZ	1	05:25																								
CCV15	1	05:32	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
CCB15	1	05:39	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
ZZZZZZ	1	05:47																								
ZZZZZZ	1	05:54																								
ZZZZZZ	1	06:01																								
ZZZZZZ	1	06:08																								
247359001	1	06:15	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
247359002	1	06:22	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
247359003	1	06:29	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
247359004	1	06:36	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
CCV16	1	06:43	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	
CCB16	1	06:50	X	X		X		X	X	X	X	X	X	X	X			X	X					X	X	

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: MER536

Start Date: 04-MAR-10

End Date: 04-MAR-10

Client Sdg: 10-1915

Method: AV

Data File: 030410S1-6

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	10:03															X									
S0.2	1	10:04															X									
S0.5	1	10:06															X									
S2.0	1	10:08															X									
S5.0	1	10:10															X									
S10	1	10:12															X									
ICV01	1	10:15															X									
ICB01	1	10:16															X									
CRDL01	1	10:18															X									
CCV01	1	10:20															X									
CCB01	1	10:22															X									
ZZZZZZ	1	10:25																								
ZZZZZZ	10	10:27																								
ZZZZZZ	1	10:29																								
ZZZZZZ	1	10:31																								
ZZZZZZ	1	10:33																								
ZZZZZZ	1	10:35																								
ZZZZZZ	5	10:37																								
ZZZZZZ	1	10:38																								
ZZZZZZ	1	10:40																								
ZZZZZZ	1	10:42																								
CCV02	1	10:44															X									
CCB02	1	10:46															X									
ZZZZZZ	1	10:48																								
ZZZZZZ	1	10:50																								
ZZZZZZ	1	10:52																								
ZZZZZZ	1	10:54																								
ZZZZZZ	1	10:56																								
ZZZZZZ	1	10:58																								
ZZZZZZ	1	11:00																								
ZZZZZZ	1	11:02																								
ZZZZZZ	1	11:04																								
ZZZZZZ	1	11:06																								
CCV03	1	11:08															X									
CCB03	1	11:11															X									
ZZZZZZ	1	11:13																								
1202055944	1	11:14															X									
1202055945	10	11:16															X									
247359001	1	11:18															X									
1202055946	1	11:20															X									

Samp No.	D/F	Run Time
1202055947	1	11:22
1202055949	1	11:24
1202055948	5	11:26
247359002	1	11:28
247359003	1	11:30
CCV04	1	11:32
CCB04	1	11:34
247359004	1	11:36
ZZZZZZ	1	11:38
ZZZZZZ	1	11:40
ZZZZZZ	1	11:42
ZZZZZZ	1	11:44
ZZZZZZ	1	11:46
ZZZZZZ	1	11:48
ZZZZZZ	1	11:50
ZZZZZZ	1	11:52
ZZZZZZ	1	11:54
CCV05	1	11:56
CCB05	1	11:58

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: ICPMS3

Start Date: 17-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-1915

Method MS

Data File: 100317-3

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	23:13																						X		
S10	1	23:15																						X		
S100	1	23:17																						X		
ICV01	1	23:18																						X		
ICB01	1	23:20																						X		
CRDL01	1	23:22																						X		
ICSA01	1	23:23																						X		
ICSAB01	1	23:25																						X		
CCV01	1	23:27																						X		
CCB01	1	23:28																						X		
1202047743	2	23:30																						X		
1202047748	40	23:32																						X		
ZZZZZZ	2	23:34																								
1202047744	2	23:35																						X		
1202047746	2	23:37																						X		
1202047747	2	23:39																						X		
1202047745	10	23:41																						X		
CCV02	1	23:42																						X		
CCB02	1	23:44																						X		
247359001	2	23:46																						X		
247359002	2	23:48																						X		
247359003	2	23:49																						X		
247359004	2	23:51																						X		
CCV03	1	23:53																						X		
CCB03	1	23:55																						X		

Metals
-14-
Analysis Run Log

Contract: LANL01004

Lab Code: GEL

Inst Name: OPTIMA1

Start Date: 17-MAR-10

End Date: 17-MAR-10

Client Sdg: 10-1915

Method P

Data File: 031710C-1

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
S0.0	1	06:51																				X				
S0.1	1	06:55																								
S0.5	1	06:57																								
SCAL	1	07:01																				X				
S10	1	07:04																				X				
ICV01	1	07:07																				X				
ICB01	1	07:10																				X				
PQL01	1	07:14																				X				
ICSA01	1	07:17																				X				
ICSAB01	1	07:20																				X				
LR01	1	07:23																				X				
LR02	1	07:26																				X				
CCV01	1	07:29																				X				
CCB01	1	07:33																				X				
LR03	1	07:37																				X				
CCV02	1	07:40																				X				
CCB02	1	07:44																				X				
ZZZZZZ	1	07:47																								
ZZZZZZ	1	07:51																								
ZZZZZZ	1	07:55																								
ZZZZZZ	1	07:58																								
ZZZZZZ	1	08:02																								
ZZZZZZ	1	08:05																								
ZZZZZZ	5	08:09																								
ZZZZZZ	1	08:13																								
ZZZZZZ	1	08:16																								
CCV03	1	08:20																				X				
CCB03	1	08:24																				X				
ZZZZZZ	1	08:27																								
ZZZZZZ	1	08:31																								
ZZZZZZ	1	08:34																								
ZZZZZZ	1	08:38																								
ZZZZZZ	1	08:42																								
ZZZZZZ	1	08:45																								
ZZZZZZ	1	08:49																								
ZZZZZZ	1	08:53																								
ZZZZZZ	1	08:56																								
CCV04	1	09:00																				X				
CCB04	1	09:04																				X				
ZZZZZZ	1	09:07																								

Samp No.	D/F	Run Time
ZZZZZZ	1	09:11
ZZZZZZ	1	09:14
ZZZZZZ	1	09:18
ZZZZZZ	1	09:21
ZZZZZZ	5	09:25
ZZZZZZ	1	09:29
ZZZZZZ	1	09:32
ZZZZZZ	1	09:36
CCV05	1	09:39
CCB05	1	09:43
ZZZZZZ	1	09:48
ZZZZZZ	1	09:51
ZZZZZZ	1	09:55
ZZZZZZ	1	09:58
ZZZZZZ	1	10:02
ZZZZZZ	1	10:06
ZZZZZZ	5	10:09
ZZZZZZ	1	10:13
ZZZZZZ	1	10:17
CCV06	1	10:20
CCB06	1	10:24
ZZZZZZ	1	10:27
ZZZZZZ	1	10:31
ZZZZZZ	1	10:35
ZZZZZZ	1	10:38
ZZZZZZ	1	10:42
ZZZZZZ	1	10:46
ZZZZZZ	1	10:49
ZZZZZZ	1	10:53
CCV07	1	10:57
CCB07	1	11:00
I202047737	1	11:04
I202047742	1	11:07
ZZZZZZ	1	11:11
I202047738	1	11:15
I202047740	1	11:18
I202047741	1	11:22
I202047739	5	11:26
ZZZZZZ	1	11:29
ZZZZZZ	1	11:33

Metals
-14-
Analysis Run Log

Samp No.	D/F	Run Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	U	V	Zn
CCV08	1	11:36																				X				
CCB08	1	11:40																				X				
ZZZZZZ	1	11:44																								
ZZZZZZ	1	11:47																								
ZZZZZZ	1	11:51																								
ZZZZZZ	1	11:54																								
247359001	1	11:58																				X				
247359002	1	12:01																				X				
247359003	1	12:05																				X				
247359004	1	12:08																				X				
CCV09	1	12:12																				X				
CCB09	1	12:16																				X				

Standards

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP/MS	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum		15.0	50
	Antimony		0.5	3
	Arsenic		1.0	5
	Barium		0.5	2
	Beryllium		0.1	.5
	Cadmium		0.1	1
	Calcium		33.0	100
	Chromium		1.0	3
	Cobalt		0.3	1
	Copper		0.33	1
	Iron		25.0	100
	Lead		0.5	2
	Magnesium		7.5	25
	Manganese		1.0	5
	Nickel		0.5	2
	Potassium		80.0	300
	Selenium		2.5	5
	Silver		0.2	1
	Sodium		80.0	250
	Thallium		0.3	1
	Uranium		0.066	.2
	Vanadium		2.0	10
	Zinc		2.0	10

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 15-JUN-09

	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u> <u>ug/L</u>	<u>RDL</u> <u>ug/L</u>
MERCURY				
SOLID	Mercury		0.068	.2

METALS
-10-
Instrument Detection Limits

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

MDL Effective Date: 01-JUL-09

ICP	<u>Analyte</u>	<u>Wavelength</u> <u>(nm)</u>	<u>MDL</u>	<u>RDL</u>
			<u>ug/L</u>	<u>ug/L</u>
SOLID	Aluminum	396.153	68.0	200
	Antimony	206.836	3.3	10
	Arsenic	188.979	5.0	30
	Barium	233.527	1.0	5
	Beryllium	313.107	1.0	5
	Cadmium	226.502	1.0	5
	Calcium	317.933	80.0	250
	Chromium	267.716	1.5	5
	Cobalt	228.616	1.5	5
	Copper	324.752	3.0	10
	Iron	238.204	80.0	250
	Lead	220.353	2.5	10
	Magnesium	279.077	85.0	300
	Manganese	257.61	2.0	10
	Nickel	231.604	1.5	5
	Potassium	766.49	64.0	250
	Selenium	196.026	5.0	30
	Silver	328.068	1.0	5
	Sodium	589.592	70.0	250
	Thallium	190.801	5.0	20
	Uranium	409.014	10.0	50
	Vanadium	292.402	1.0	5
	Zinc	213.857	3.3	10

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Aluminum	Antimony	Arsenic	Barium	Beryllium
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.02697	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	-0.48147	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.21356	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.05186	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.18741	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	2.85580	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.44491	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-29.9151	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.57616
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.60374	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	198.62
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	4.37985	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.36147	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	2.23785	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.36818	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.35273

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Iron	Lead	Magnesium	Manganese	Molybdenum
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	48.4946
Antimony	206.836	-0.02515	0.00000	0.00000	0.00000	-20.5057
Arsenic	188.979	-0.23424	0.00000	0.00000	0.00000	2.41902
Barium	233.527	-0.03042	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.16240	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.10329	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	-0.01944	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.01444	0.00000	0.00000	0.00000	-2.33100
Copper	324.752	-0.05293	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.09554	0.00000	0.00000	0.00000	-2.48774
Magnesium	279.077	1.04597	0.00000	0.00000	0.00000	-10.4683
Manganese	257.61	-0.09877	0.00000	0.04089	0.00000	0.00000
Molybdenum	202.031	-0.07763	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.80543	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.39429	1.18725
Selenium	196.026	-3.27508	0.00000	0.00000	0.00000	-3.07287
Silica	251.611	0.00000	0.00000	0.00000	0.00000	27.2377
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	12.3082
Silver	328.068	-0.32385	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-4.77918	0.00000
Tin	189.927	-0.01682	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.08168	0.00000	0.00000
Uranium	409.014	0.11400	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.14564	0.00000	-0.01931	0.00000	-14.1293
Zinc	213.857	0.09701	0.00000	0.00000	0.00000	0.00000

METALS
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Interement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: **01-FEB-10**

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Potassium	Selenium	Silica
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-0.84443	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.63547	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	6.37026	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1915

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Silicon	Silver	Strontium	Sulfur	Thallium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1915

Contract: LANL01004

Instrument: OPTIMA3

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Tin	Titanium	Uranium	Vanadium	Zinc
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	-15.4932	3.30431	0.00000	-2.81282	0.00000
Arsenic	188.979	0.00000	-8.66313	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	-2.20293	0.00000
Beryllium	313.107	0.00000	-2.27027	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	-0.19473	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.39645	-1.41250	0.00000
Cobalt	228.616	0.00000	2.09497	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.55360	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-9.37529	0.00000	0.00000	0.00000	0.00000
Potassium	766.49	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silica	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.81635	-4.04400	0.00000
Strontium	421.552	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	-8.29801	0.00000	1.88584	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.43915	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	1.05947	-1.91382	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Aluminum	Antimony	Arsenic	Barium	Beryllium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	-0.05500	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	-0.28800	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.04600	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
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Interement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Boron	Cadmium	Chromium	Cobalt	Copper
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	11.3250	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	-1.59900	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	-21.2250	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.68400
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	1.19100	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	105.59
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	3.36300	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	-2.30400	0.00000	0.00000
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	1.61100

METALS
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Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Iron	Lead	Magnesium	Manganese	Molybdenum
Parmname	Wavelength					
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	20.5430
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	-16.3320
Arsenic	188.979	-0.05800	0.00000	0.00000	0.00000	1.97700
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.13300	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	-0.90500
Copper	324.752	-0.13900	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.03800	-2.87600	0.00000	0.00000	0.00000
Magnesium	279.077	1.07300	0.00000	0.00000	0.00000	-16.8110
Manganese	257.61	-0.13900	0.00000	0.04000	0.00000	0.00000
Molybdenum	202.031	-0.03800	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	-0.01300	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.81200	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	-0.88200	0.00000	0.28200	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	-0.06300	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	-0.03900	0.00000	0.00000	-4.11700	0.00000
Tin	189.927	-0.09200	0.00000	-0.19600	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.07900	0.00000	0.00000
Uranium	409.014	0.13900	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	-0.05300	0.00000	0.00000	0.00000	-7.71400
Zinc	213.857	0.14460	0.00000	0.02030	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GELGEL Job No: **10-1915**

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: **01-FEB-10**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Nickel	Phosphorous	Selenium	Silicon	Silver
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.00000	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	-0.99900	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	0.00000	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	0.00000	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	0.00000	0.00000
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	0.00000
Zinc	213.857	4.41600	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interement Correction Factors

Lab Code: GEL

GEL Job No: 10-1915

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interement Correction Factors (apparent ppb analyte/ppm interferent)

Parmname	Wavelength	Sulfur	Thallium	Tin	Titanium	Uranium
Aluminum	396.153	0.00000	0.00000	0.00000	0.00000	0.00000
Antimony	206.836	0.00000	0.00000	0.00000	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000	0.00000	0.00000	0.00000
Barium	233.527	0.00000	0.00000	0.00000	0.00000	0.00000
Beryllium	313.107	0.00000	0.00000	0.00000	0.38100	0.00000
Boron	249.677	0.00000	0.00000	0.00000	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000	0.00000	0.00000	0.00000
Chromium	267.716	0.00000	0.00000	0.00000	0.00000	0.00000
Cobalt	228.616	0.00000	0.00000	0.00000	2.08700	0.00000
Copper	324.752	0.00000	0.00000	0.00000	0.00000	0.00000
Iron	238.204	0.00000	0.00000	0.00000	0.00000	0.00000
Lead	220.353	0.00000	0.00000	0.00000	0.00000	1.04000
Magnesium	279.077	0.00000	0.00000	0.00000	0.00000	0.00000
Manganese	257.61	0.00000	0.00000	0.00000	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000	0.00000	0.00000	0.00000
Nickel	231.604	0.00000	0.00000	0.00000	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000	-14.8110	0.00000	0.00000
Selenium	196.026	0.00000	0.00000	0.00000	0.00000	0.00000
Silicon	251.611	0.00000	0.00000	0.00000	0.00000	0.00000
Silver	328.068	0.00000	0.00000	0.00000	0.00000	0.00000
Sulfur	181.975	0.00000	0.00000	0.00000	0.00000	0.00000
Thallium	190.801	0.00000	0.00000	0.00000	-8.68900	-1.22400
Tin	189.927	0.00000	0.00000	0.00000	0.00000	0.00000
Titanium	334.94	0.00000	0.00000	0.00000	0.00000	0.00000
Uranium	409.014	0.00000	0.00000	0.00000	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000	0.00000	0.00000	-1.03900
Zinc	213.857	0.00000	0.00000	0.00000	0.00000	0.00000

METALS
-11-
Interelement Correction Factors

Lab Code: GEL

GEL Job No: 10-1915

Contract: LANL01004

Instrument: OPTIMA1

Effective Dates: 01-FEB-10

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

		Vanadium	Zinc
Parmname	Wavelength		
Aluminum	396.153	0.00000	0.00000
Antimony	206.836	0.00000	0.00000
Arsenic	188.979	0.00000	0.00000
Barium	233.527	-1.80500	0.00000
Beryllium	313.107	0.00000	0.00000
Boron	249.677	0.00000	0.00000
Cadmium	226.502	0.00000	0.00000
Chromium	267.716	-0.63000	0.00000
Cobalt	228.616	0.00000	0.00000
Copper	324.752	0.00000	0.00000
Iron	238.204	0.00000	0.00000
Lead	220.353	0.00000	0.00000
Magnesium	279.077	0.00000	0.00000
Manganese	257.61	0.00000	0.00000
Molybdenum	202.031	0.00000	0.00000
Nickel	231.604	0.00000	0.00000
Phosphorous	214.914	0.00000	0.00000
Selenium	196.026	0.00000	0.00000
Silicon	251.611	0.00000	0.00000
Silver	328.068	-6.59800	0.00000
Sulfur	181.975	0.00000	0.00000
Thallium	190.801	0.00000	0.00000
Tin	189.927	0.00000	0.00000
Titanium	334.94	0.00000	0.00000
Uranium	409.014	0.00000	0.00000
Vanadium	292.402	0.00000	0.00000
Zinc	213.857	0.00000	0.00000

METALS
-12-
Linear Ranges

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS5

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA3

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

Instrument ID ICPMS3

<u>Analyte</u>	<u>Integration Time (msec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Silver	1000	250	ug/L	01-FEB-10
Sodium	1	50000	ug/L	01-FEB-10
Thallium	1000	500	ug/L	01-FEB-10
Uranium	1000	5000	ug/L	01-FEB-10
Vanadium	1000	100	ug/L	01-FEB-10
Zinc	1000	2500	ug/L	01-FEB-10
Aluminum	1	50000	ug/L	01-FEB-10
Antimony	1000	250	ug/L	01-FEB-10
Arsenic	1000	1000	ug/L	01-FEB-10
Barium	1000	1000	ug/L	01-FEB-10
Beryllium	1000	1000	ug/L	01-FEB-10
Cadmium	1000	1000	ug/L	01-FEB-10
Calcium	500	50000	ug/L	01-FEB-10
Chromium	1000	1000	ug/L	01-FEB-10
Cobalt	1000	1000	ug/L	01-FEB-10
Copper	1000	1000	ug/L	01-FEB-10
Iron	500	50000	ug/L	01-FEB-10
Lead	1000	5000	ug/L	01-FEB-10
Magnesium	1	50000	ug/L	01-FEB-10
Manganese	1000	1000	ug/L	01-FEB-10
Nickel	1000	1000	ug/L	01-FEB-10
Potassium	1	50000	ug/L	01-FEB-10
Selenium	1000	500	ug/L	01-FEB-10

METALS
-12-
Linear Ranges

SDG NO. 10-1915

Contract: LANL01004

Lab Code: GEL

Instrument ID OPTIMA1

<u>Analyte</u>	<u>Integration Time (sec)</u>	<u>LDR</u>	<u>Units</u>	<u>Effective Date</u>
Aluminum	20	500000	ug/L	01-FEB-10
Antimony	20	10000	ug/L	01-FEB-10
Arsenic	20	10000	ug/L	01-FEB-10
Barium	20	15000	ug/L	01-FEB-10
Beryllium	20	3000	ug/L	01-FEB-10
Cadmium	20	10000	ug/L	01-FEB-10
Calcium	20	500000	ug/L	01-FEB-10
Chromium	20	25000	ug/L	01-FEB-10
Cobalt	20	10000	ug/L	01-FEB-10
Copper	20	20000	ug/L	01-FEB-10
Iron	20	500000	ug/L	01-FEB-10
Lead	20	25000	ug/L	01-FEB-10
Magnesium	20	500000	ug/L	01-FEB-10
Manganese	20	10000	ug/L	01-FEB-10
Nickel	20	10000	ug/L	01-FEB-10
Potassium	20	300000	ug/L	01-FEB-10
Selenium	20	10000	ug/L	01-FEB-10
Silver	20	1000	ug/L	01-FEB-10
Sodium	20	500000	ug/L	01-FEB-10
Thallium	20	10000	ug/L	01-FEB-10
Uranium	20	15000	ug/L	01-FEB-10
Vanadium	20	10000	ug/L	01-FEB-10
Zinc	20	15000	ug/L	01-FEB-10

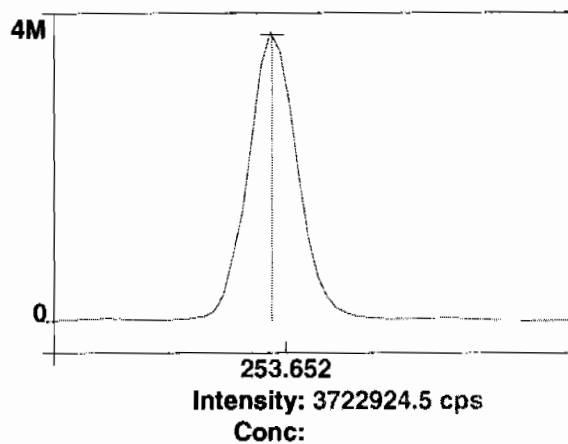
Raw Data

Method: Hg_ReAlign
Result: 031910C

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

2	B 249.677†	321.5	321.4	[0.00]	µg/L	06:53:59
2	Ba 233.527†	-15.9	-15.9	[0.00]	µg/L	06:54:20
2	Be 313.107†	-1324.1	-1323.5	[0.00]	µg/L	06:53:59
2	Cd 226.502†	-163.6	-163.5	[0.00]	µg/L	06:54:20
2	Co 228.616†	35.8	35.8	[0.00]	µg/L	06:54:20
2	Cr 267.716†	100.7	100.7	[0.00]	µg/L	06:53:59
2	Cu 324.752†	4054.4	4052.5	[0.00]	µg/L	06:53:59
2	Mn 257.610†	-717.5	-717.2	[0.00]	µg/L	06:54:20
2	Mo 202.031†	5.0	5.0	[0.00]	µg/L	06:54:20
2	Ni 231.604†	357.1	356.9	[0.00]	µg/L	06:54:20
2	P 214.914†	289.6	289.5	[0.00]	µg/L	06:54:20
2	Pb 220.353†	29.2	29.2	[0.00]	µg/L	06:54:20
2	S 181.975 Axial†	20.7	20.7	[0.00]	µg/L	06:54:20
2	Sb 206.836†	28.8	28.8	[0.00]	µg/L	06:54:20
2	Se 196.026†	21.6	21.6	[0.00]	µg/L	06:54:20
2	SiO2†	2630.1	2628.8	[0.00]	µg/L	06:53:59
2	Si 251.611†	406.1	405.9	[0.00]	µg/L	06:54:20
2	Sn 189.927†	-2.0	-2.0	[0.00]	µg/L	06:54:20
2	Ti 334.940†	-612.5	-612.2	[0.00]	µg/L	06:53:59
2	Tl 190.801†	-31.7	-31.7	[0.00]	µg/L	06:54:20
2	U 409.014†	-45.1	-45.1	[0.00]	µg/L	06:53:59
2	V 292.402†	168.2	168.1	[0.00]	µg/L	06:53:59
2	Zn 213.857†	543.0	542.7	[0.00]	µg/L	06:54:20
3	Sc RADIAL	85548.8	85548.8	99.7	%	06:52:51
3	Al 396.153Radial†	-108.2	-108.4	[0.00]	µg/L	06:52:51
3	Ca 317.933Radial†	320.8	321.6	[0.00]	µg/L	06:53:11
3	Fe 238.204 Radial†	13.0	13.0	[0.00]	µg/L	06:53:11
3	K 766.490 Radial†	79.9	80.1	[0.00]	µg/L	06:52:51
3	Mg 279.077 IEC†	8.1	8.2	[0.00]	µg/L	06:53:11
3	Na 589.592 Radial†	185.1	185.6	[0.00]	µg/L	06:52:51
3	Sr 421.552†	103.8	104.0	[0.00]	µg/L	06:52:51
3	Sc 361.383	1848751.4	1848751.4	100.36	%	06:54:26
3	Y 371.029	1286003.8	1286003.8	100.44	%	06:54:26
3	Ag 328.068†	-557.9	-555.9	[0.00]	µg/L	06:54:31
3	As 188.979†	-4.0	-4.0	[0.00]	µg/L	06:54:52
3	B 249.677†	315.0	313.9	[0.00]	µg/L	06:54:31
3	Ba 233.527†	-23.7	-23.6	[0.00]	µg/L	06:54:52
3	Be 313.107†	-1339.2	-1334.5	[0.00]	µg/L	06:54:31
3	Cd 226.502†	-166.4	-165.8	[0.00]	µg/L	06:54:52
3	Co 228.616†	21.6	21.5	[0.00]	µg/L	06:54:52
3	Cr 267.716†	87.3	87.0	[0.00]	µg/L	06:54:31
3	Cu 324.752†	4126.0	4111.3	[0.00]	µg/L	06:54:31
3	Mn 257.610†	-716.9	-714.4	[0.00]	µg/L	06:54:52
3	Mo 202.031†	4.8	4.8	[0.00]	µg/L	06:54:52
3	Ni 231.604†	357.6	356.4	[0.00]	µg/L	06:54:52
3	P 214.914†	283.5	282.5	[0.00]	µg/L	06:54:52
3	Pb 220.353†	32.5	32.4	[0.00]	µg/L	06:54:52
3	S 181.975 Axial†	26.5	26.4	[0.00]	µg/L	06:54:52
3	Sb 206.836†	26.2	26.1	[0.00]	µg/L	06:54:52
3	Se 196.026†	17.2	17.1	[0.00]	µg/L	06:54:52
3	SiO2†	2635.7	2626.3	[0.00]	µg/L	06:54:31
3	Si 251.611†	395.2	393.8	[0.00]	µg/L	06:54:52
3	Sn 189.927†	-4.5	-4.5	[0.00]	µg/L	06:54:52
3	Ti 334.940†	-621.4	-619.2	[0.00]	µg/L	06:54:31
3	Tl 190.801†	-31.8	-31.7	[0.00]	µg/L	06:54:52
3	U 409.014†	-17.4	-17.4	[0.00]	µg/L	06:54:31
3	V 292.402†	131.6	131.1	[0.00]	µg/L	06:54:31
3	Zn 213.857†	544.6	542.6	[0.00]	µg/L	06:54:52

Mean Data: S0

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1842159.9	7068.72	0.38%	100.00 %
Sc RADIAL	85768.0	213.73	0.25%	100 %
Y 371.029	1280385.3	6188.93	0.48%	100.00 %
Ag 328.068†	-513.8	55.91	10.88%	[0.00] µg/L
Al 396.153Radial†	-106.2	21.44	20.20%	[0.00] µg/L
As 188.979†	-1.7	2.24	134.16%	[0.00] µg/L
B 249.677†	332.7	26.32	7.91%	[0.00] µg/L
Ba 233.527†	-19.4	3.93	20.28%	[0.00] µg/L

Be 313.107†	-1343.4	25.48	1.90%	[0.00]	µg/L
Ca 317.933Radial†	320.6	5.83	1.82%	[0.00]	µg/L
Cd 226.502†	-165.8	2.30	1.39%	[0.00]	µg/L
Co 228.616†	30.5	7.85	25.72%	[0.00]	µg/L
Cr 267.716†	90.5	8.91	9.84%	[0.00]	µg/L
Cu 324.752†	4104.5	48.99	1.19%	[0.00]	µg/L
Fe 238.204 Radial†	12.8	1.27	9.92%	[0.00]	µg/L
K 766.490 Radial†	120.3	54.75	45.51%	[0.00]	µg/L
Mg 279.077 IEC†	9.2	2.53	27.51%	[0.00]	µg/L
Mn 257.610†	-721.2	9.59	1.33%	[0.00]	µg/L
Mo 202.031†	10.5	9.76	92.73%	[0.00]	µg/L
Na 589.592 Radial†	161.3	24.77	15.35%	[0.00]	µg/L
Ni 231.604†	356.8	0.35	0.10%	[0.00]	µg/L
P 214.914†	288.1	5.08	1.76%	[0.00]	µg/L
Pb 220.353†	33.9	5.69	16.78%	[0.00]	µg/L
S 181.975 Axial†	22.6	3.27	14.46%	[0.00]	µg/L
Sb 206.836†	26.3	2.44	9.30%	[0.00]	µg/L
Se 196.026†	20.0	2.51	12.56%	[0.00]	µg/L
SiO2†	2648.5	36.27	1.37%	[0.00]	µg/L
Si 251.611†	395.8	9.16	2.31%	[0.00]	µg/L
Sn 189.927†	-3.7	1.46	39.36%	[0.00]	µg/L
Sr 421.552†	119.9	13.78	11.50%	[0.00]	µg/L
Ti 334.940†	-642.2	46.03	7.17%	[0.00]	µg/L
Tl 190.801†	-30.6	1.93	6.32%	[0.00]	µg/L
U 409.014†	-19.4	24.78	127.70%	[0.00]	µg/L
V 292.402†	131.4	36.63	27.89%	[0.00]	µg/L
Zn 213.857†	546.0	5.71	1.05%	[0.00]	µg/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/17/2010 06:55:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	87599.9	87599.9	102 %		06:55:33
1	K 766.490 Radial†	2524.1	2351.0	[1000] µg/L		06:55:33
1	Sr 421.552†	17399.2	16915.4	[100] µg/L		06:55:33
1	Sc 361.383	1851595.4	1851595.4	100.51 %		06:55:55
1	Y 371.029	1289118.5	1289118.5	100.68 %		06:55:55
1	Ag 328.068†	12098.5	12550.6	[100] µg/L		06:56:00
1	As 188.979†	69.1	70.4	[100] µg/L		06:56:21
1	B 249.677†	2475.8	2130.5	[100] µg/L		06:56:00
1	Ba 233.527†	4605.8	4601.7	[100] µg/L		06:56:21
1	Be 313.107†	170179.7	170655.9	[100] µg/L		06:55:55
1	Cd 226.502†	4059.0	4204.1	[100] µg/L		06:56:21
1	Co 228.616†	2409.9	2367.1	[100] µg/L		06:56:21
1	Cr 267.716†	4769.6	4654.8	[100] µg/L		06:56:00
1	Cu 324.752†	19813.7	15608.2	[100] µg/L		06:56:00
1	Mn 257.610†	32745.5	33299.8	[100] µg/L		06:56:00
1	Mo 202.031†	1088.4	1072.3	[100] µg/L		06:56:21
1	Ni 231.604†	2184.0	1816.1	[100] µg/L		06:56:21
1	P 214.914†	611.7	320.4	[500] µg/L		06:56:21
1	Pb 220.353†	442.2	406.0	[100] µg/L		06:56:21
1	S 181.975 Axial†	85.4	62.4	[200] µg/L		06:56:21
1	Sb 206.836†	144.6	117.6	[100] µg/L		06:56:21
1	Se 196.026†	136.6	116.0	[100] µg/L		06:56:21
1	SiO2†	8536.5	5844.5	[1069.5] µg/L		06:56:00
1	Si 251.611†	7788.5	7352.9	[500] µg/L		06:56:00
1	Sn 189.927†	267.0	269.3	[100] µg/L		06:56:21
1	Ti 334.940†	41780.9	42210.1	[100] µg/L		06:56:00
1	Tl 190.801†	68.2	98.4	[100] µg/L		06:56:21
1	U 409.014†	1179.7	1193.1	[100] µg/L		06:56:00
1	V 292.402†	8638.1	8462.7	[100] µg/L		06:56:00
1	Zn 213.857†	4988.0	4416.6	[100] µg/L		06:56:21
2	Sc RADIAL	87951.2	87951.2	103 %		06:55:39
2	K 766.490 Radial†	2598.1	2413.3	[1000] µg/L		06:55:39
2	Sr 421.552†	17477.4	16923.7	[100] µg/L		06:55:39
2	Sc 361.383	1837215.6	1837215.6	99.732 %		06:56:27
2	Y 371.029	1277798.6	1277798.6	99.798 %		06:56:27
2	Ag 328.068†	12198.4	12745.0	[100] µg/L		06:56:33
2	As 188.979†	70.1	72.0	[100] µg/L		06:56:54
2	B 249.677†	2486.2	2160.2	[100] µg/L		06:56:33
2	Ba 233.527†	4585.1	4616.8	[100] µg/L		06:56:54
2	Be 313.107†	169030.1	170828.3	[100] µg/L		06:56:27
2	Cd 226.502†	4045.1	4221.8	[100] µg/L		06:56:54
2	Co 228.616†	2422.1	2398.1	[100] µg/L		06:56:54
2	Cr 267.716†	4759.8	4682.1	[100] µg/L		06:56:33
2	Cu 324.752†	19887.5	15836.5	[100] µg/L		06:56:33
2	Mn 257.610†	32940.8	33750.7	[100] µg/L		06:56:33
2	Mo 202.031†	1081.2	1073.6	[100] µg/L		06:56:54
2	Ni 231.604†	2181.2	1830.3	[100] µg/L		06:56:54
2	P 214.914†	605.2	318.7	[500] µg/L		06:56:54
2	Pb 220.353†	432.8	400.0	[100] µg/L		06:56:54
2	S 181.975 Axial†	84.1	61.7	[200] µg/L		06:56:54
2	Sb 206.836†	138.6	112.7	[100] µg/L		06:56:54
2	Se 196.026†	127.0	107.3	[100] µg/L		06:56:54
2	SiO2†	8571.7	5946.3	[1069.5] µg/L		06:56:33
2	Si 251.611†	7871.7	7497.0	[500] µg/L		06:56:33
2	Sn 189.927†	269.7	274.1	[100] µg/L		06:56:54
2	Ti 334.940†	42035.3	42790.6	[100] µg/L		06:56:33
2	Tl 190.801†	76.6	107.4	[100] µg/L		06:56:54
2	U 409.014†	1151.2	1173.7	[100] µg/L		06:56:33
2	V 292.402†	8594.2	8486.0	[100] µg/L		06:56:33

2	Zn 213.857†	4978.5	4445.9	[100] µg/L	06:56:54
3	Sc RADIAL	87428.7	87428.7	102 %	06:55:44
3	K 766.490 Radial†	2600.3	2430.6	[1000] µg/L	06:55:44
3	Sr 421.552†	17503.0	17050.6	[100] µg/L	06:55:44
3	Sc 361.383	1851124.1	1851124.1	100.49 %	06:57:00
3	Y 371.029	1286563.5	1286563.5	100.48 %	06:57:00
3	Ag 328.068†	12148.4	12603.4	[100] µg/L	06:57:05
3	As 188.979†	67.3	68.7	[100] µg/L	06:57:26
3	B 249.677†	2507.2	2162.4	[100] µg/L	06:57:05
3	Ba 233.527†	4589.5	4586.6	[100] µg/L	06:57:26
3	Be 313.107†	169759.0	170280.3	[100] µg/L	06:57:00
3	Cd 226.502†	4072.6	4218.7	[100] µg/L	06:57:26
3	Co 228.616†	2411.3	2369.1	[100] µg/L	06:57:26
3	Cr 267.716†	4781.2	4667.5	[100] µg/L	06:57:05
3	Cu 324.752†	19913.3	15712.3	[100] µg/L	06:57:05
3	Mn 257.610†	33020.8	33582.2	[100] µg/L	06:57:05
3	Mo 202.031†	1079.5	1063.7	[100] µg/L	06:57:26
3	Ni 231.604†	2192.1	1824.8	[100] µg/L	06:57:26
3	P 214.914†	604.2	313.1	[500] µg/L	06:57:26
3	Pb 220.353†	448.8	412.7	[100] µg/L	06:57:26
3	S 181.975 Axial†	87.2	64.1	[200] µg/L	06:57:26
3	Sb 206.836†	140.0	113.1	[100] µg/L	06:57:26
3	Se 196.026†	144.8	124.1	[100] µg/L	06:57:26
3	SiO2†	8619.3	5929.0	[1069.5] µg/L	06:57:05
3	Si 251.611†	7867.0	7433.0	[500] µg/L	06:57:05
3	Sn 189.927†	265.6	268.0	[100] µg/L	06:57:26
3	Ti 334.940†	42098.7	42537.0	[100] µg/L	06:57:05
3	Tl 190.801†	71.1	101.3	[100] µg/L	06:57:26
3	U 409.014†	1156.2	1170.0	[100] µg/L	06:57:05
3	V 292.402†	8628.0	8454.9	[100] µg/L	06:57:05
3	Zn 213.857†	4986.3	4416.1	[100] µg/L	06:57:26

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1846645.0	8169.54	0.44%	100.24 %
Sc RADIAL	87660.0	266.37	0.30%	102 %
Y 371.029	1284493.5	5937.07	0.46%	100.32 %
Ag 328.068†	12633.0	100.53	0.80%	[100] µg/L
As 188.979†	70.4	1.67	2.37%	[100] µg/L
B 249.677†	2151.0	17.80	0.83%	[100] µg/L
Ba 233.527†	4601.7	15.08	0.33%	[100] µg/L
Be 313.107†	170588.2	280.24	0.16%	[100] µg/L
Cd 226.502†	4214.9	9.42	0.22%	[100] µg/L
Co 228.616†	2378.1	17.33	0.73%	[100] µg/L
Cr 267.716†	4668.1	13.68	0.29%	[100] µg/L
Cu 324.752†	15719.0	114.30	0.73%	[100] µg/L
K 766.490 Radial†	2398.3	41.89	1.75%	[1000] µg/L
Mn 257.610†	33544.2	227.83	0.68%	[100] µg/L
Mo 202.031†	1069.9	5.34	0.50%	[100] µg/L
Ni 231.604†	1823.7	7.16	0.39%	[100] µg/L
P 214.914†	317.4	3.81	1.20%	[500] µg/L
Pb 220.353†	406.3	6.33	1.56%	[100] µg/L
S 181.975 Axial†	62.7	1.26	2.01%	[200] µg/L
Sb 206.836†	114.4	2.72	2.37%	[100] µg/L
Se 196.026†	115.8	8.41	7.26%	[100] µg/L
SiO2†	5906.6	54.48	0.92%	[1069.5] µg/L
Si 251.611†	7427.7	72.19	0.97%	[500] µg/L
Sn 189.927†	270.5	3.19	1.18%	[100] µg/L
Sr 421.552†	16963.2	75.78	0.45%	[100] µg/L
Ti 334.940†	42512.6	291.03	0.68%	[100] µg/L
Tl 190.801†	102.4	4.55	4.45%	[100] µg/L
U 409.014†	1178.9	12.43	1.05%	[100] µg/L
V 292.402†	8467.9	16.20	0.19%	[100] µg/L
Zn 213.857†	4426.2	17.07	0.39%	[100] µg/L

Sequence No.: 3
 Sample ID: S0.5
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 3
 Date Collected: 3/17/2010 06:57:36
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	87315.6	87315.6	102 %	06:58:06
1	Al 396.153Radial†	10074.3	10001.9	[5000] µg/L	06:58:06
1	Ca 317.933Radial†	13563.5	13002.5	[5000] µg/L	06:58:06
1	K 766.490 Radial†	10709.6	10399.5	[5000] µg/L	06:58:06
1	Mg 279.077 IEC†	378.2	362.2	[5000] µg/L	06:58:26
1	Sr 421.552†	82592.9	81009.1	[500] µg/L	06:58:06
1	Sc 361.383	1848111.4	1848111.4	100.32 %	06:59:30
1	Y 371.029	1278981.3	1278981.3	99.890 %	06:59:30
1	Ag 328.068†	59290.0	59612.9	[500] µg/L	06:59:36
1	As 188.979†	333.9	334.4	[500] µg/L	06:59:56
1	B 249.677†	10834.8	10467.3	[500] µg/L	06:59:36
1	Ba 233.527†	22187.5	22135.4	[500] µg/L	06:59:36
1	Be 313.107†	814579.7	813299.8	[500] µg/L	06:59:30
1	Cd 226.502†	19951.4	20053.0	[500] µg/L	06:59:36
1	Co 228.616†	11380.6	11313.4	[500] µg/L	06:59:36
1	Cr 267.716†	22284.8	22122.5	[500] µg/L	06:59:36
1	Cu 324.752†	79237.5	74877.8	[500] µg/L	06:59:36
1	Mn 257.610†	159416.0	159623.9	[500] µg/L	06:59:30
1	Mo 202.031†	5098.7	5071.7	[500] µg/L	06:59:56
1	Ni 231.604†	9084.7	8698.7	[500] µg/L	06:59:36
1	P 214.914†	1780.5	1486.7	[2500] µg/L	06:59:56
1	Pb 220.353†	1921.7	1881.6	[500] µg/L	06:59:56
1	S 181.975 Axial†	334.5	310.8	[1000] µg/L	06:59:56
1	Sb 206.836†	580.6	552.5	[500] µg/L	06:59:56
1	Se 196.026†	543.7	521.9	[500] µg/L	06:59:56
1	SiO2†	31408.4	28658.7	[5347.5] µg/L	06:59:36
1	Si 251.611†	36267.4	35754.7	[2500] µg/L	06:59:36
1	Sn 189.927†	1274.7	1274.3	[500] µg/L	06:59:56
1	Ti 334.940†	205883.2	205862.3	[500] µg/L	06:59:30
1	Tl 190.801†	474.9	503.9	[500] µg/L	06:59:56
1	U 409.014†	5401.7	5403.7	[500] µg/L	06:59:36
1	V 292.402†	40827.9	40565.0	[500] µg/L	06:59:36
1	Zn 213.857†	22183.4	21566.0	[500] µg/L	06:59:36
2	Sc RADIAL	87097.9	87097.9	102 %	06:58:32
2	Al 396.153Radial†	10098.6	10050.5	[5000] µg/L	06:58:32
2	Ca 317.933Radial†	13540.1	13012.7	[5000] µg/L	06:58:32
2	K 766.490 Radial†	10507.7	10226.9	[5000] µg/L	06:58:32
2	Mg 279.077 IEC†	375.7	360.7	[5000] µg/L	06:58:52
2	Sr 421.552†	82464.9	81085.8	[500] µg/L	06:58:32
2	Sc 361.383	1849917.5	1849917.5	100.42 %	07:00:03
2	Y 371.029	1280767.9	1280767.9	100.03 %	07:00:03
2	Ag 328.068†	59563.1	59827.2	[500] µg/L	07:00:09
2	As 188.979†	327.8	328.1	[500] µg/L	07:00:30
2	B 249.677†	10872.7	10494.4	[500] µg/L	07:00:09
2	Ba 233.527†	22228.4	22154.6	[500] µg/L	07:00:09
2	Be 313.107†	816949.5	814867.0	[500] µg/L	07:00:03
2	Cd 226.502†	20025.6	20107.4	[500] µg/L	07:00:09
2	Co 228.616†	11432.8	11354.3	[500] µg/L	07:00:09
2	Cr 267.716†	22447.8	22263.1	[500] µg/L	07:00:09
2	Cu 324.752†	79390.7	74953.3	[500] µg/L	07:00:09
2	Mn 257.610†	159821.4	159872.4	[500] µg/L	07:00:03
2	Mo 202.031†	5000.9	4969.4	[500] µg/L	07:00:30
2	Ni 231.604†	9108.6	8713.6	[500] µg/L	07:00:09
2	P 214.914†	1755.5	1460.0	[2500] µg/L	07:00:30
2	Pb 220.353†	1899.5	1857.6	[500] µg/L	07:00:30
2	S 181.975 Axial†	330.1	306.1	[1000] µg/L	07:00:30
2	Sb 206.836†	573.7	545.1	[500] µg/L	07:00:30
2	Se 196.026†	539.6	517.4	[500] µg/L	07:00:30
2	SiO2†	31626.7	28845.6	[5347.5] µg/L	07:00:09

2	Si 251.611†	36454.2	35905.4	[2500]	µg/L	07:00:09
2	Sn 189.927†	1242.7	1241.2	[500]	µg/L	07:00:30
2	Ti 334.940†	205785.1	205564.3	[500]	µg/L	07:00:03
2	Tl 190.801†	468.3	496.9	[500]	µg/L	07:00:30
2	U 409.014†	5408.0	5404.7	[500]	µg/L	07:00:09
2	V 292.402†	41085.5	40781.9	[500]	µg/L	07:00:09
2	Zn 213.857†	22263.1	21623.8	[500]	µg/L	07:00:09
3	Sc RADIAL	87292.4	87292.4	102	%	06:58:58
3	Al 396.153Radial†	10144.7	10073.7	[5000]	µg/L	06:58:58
3	Ca 317.933Radial†	13556.4	12999.0	[5000]	µg/L	06:58:58
3	K 766.490 Radial†	10603.9	10298.5	[5000]	µg/L	06:58:58
3	Mg 279.077 IEC†	377.7	361.9	[5000]	µg/L	06:59:18
3	Sr 421.552†	82821.2	81255.0	[500]	µg/L	06:58:58
3	Sc 361.383	1859873.1	1859873.1	100.96	%	07:00:37
3	Y 371.029	1287656.6	1287656.6	100.57	%	07:00:37
3	Ag 328.068†	55425.4	55411.4	[500]	µg/L	07:00:42
3	As 188.979†	273.8	272.9	[500]	µg/L	07:01:03
3	B 249.677†	10071.3	9642.7	[500]	µg/L	07:00:42
3	Ba 233.527†	20022.7	19851.4	[500]	µg/L	07:00:42
3	Be 313.107†	756246.4	750387.3	[500]	µg/L	07:00:37
3	Cd 226.502†	17961.1	17955.9	[500]	µg/L	07:00:42
3	Co 228.616†	10190.9	10063.3	[500]	µg/L	07:00:42
3	Cr 267.716†	19398.5	19123.2	[500]	µg/L	07:00:42
3	Cu 324.752†	71075.3	66293.9	[500]	µg/L	07:00:42
3	Mn 257.610†	148746.2	148050.8	[500]	µg/L	07:00:37
3	Mo 202.031†	4143.5	4093.5	[500]	µg/L	07:01:03
3	Ni 231.604†	8095.6	7661.7	[500]	µg/L	07:00:42
3	P 214.914†	1525.8	1223.1	[2500]	µg/L	07:01:03
3	Pb 220.353†	1644.4	1594.8	[500]	µg/L	07:01:03
3	S 181.975 Axial†	294.5	269.0	[1000]	µg/L	07:01:03
3	Sb 206.836†	486.2	455.3	[500]	µg/L	07:01:03
3	Se 196.026†	470.2	445.7	[500]	µg/L	07:01:03
3	SiO2†	29002.1	26077.4	[5347.5]	µg/L	07:00:42
3	Si 251.611†	33281.6	32568.8	[2500]	µg/L	07:00:42
3	Sn 189.927†	1007.1	1001.2	[500]	µg/L	07:01:03
3	Ti 334.940†	189322.1	188161.2	[500]	µg/L	07:00:37
3	Tl 190.801†	416.8	443.4	[500]	µg/L	07:01:03
3	U 409.014†	4726.5	4700.9	[500]	µg/L	07:00:42
3	V 292.402†	36339.2	35861.8	[500]	µg/L	07:00:42
3	Zn 213.857†	19883.6	19148.2	[500]	µg/L	07:00:42

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1852634.0	6333.94	0.34%	100.57	%
Sc RADIAL	87235.3	119.53	0.14%	102	%
Y 371.029	1282468.6	4580.90	0.36%	100.16	%
Ag 328.068†	58283.8	2489.91	4.27%	[500]	µg/L
Al 396.153Radial†	10042.0	36.66	0.37%	[5000]	µg/L
As 188.979†	311.8	33.88	10.87%	[500]	µg/L
B 249.677†	10201.5	484.06	4.75%	[500]	µg/L
Ba 233.527†	21380.5	1324.25	6.19%	[500]	µg/L
Be 313.107†	792851.4	36783.27	4.64%	[500]	µg/L
Ca 317.933Radial†	13004.7	7.13	0.05%	[5000]	µg/L
Cd 226.502†	19372.1	1226.79	6.33%	[500]	µg/L
Co 228.616†	10910.4	733.83	6.73%	[500]	µg/L
Cr 267.716†	21169.6	1773.64	8.38%	[500]	µg/L
Cu 324.752†	72041.7	4977.87	6.91%	[500]	µg/L
K 766.490 Radial†	10308.3	86.73	0.84%	[5000]	µg/L
Mg 279.077 IEC†	361.6	0.79	0.22%	[5000]	µg/L
Mn 257.610†	155849.0	6754.57	4.33%	[500]	µg/L
Mo 202.031†	4711.5	537.69	11.41%	[500]	µg/L
Ni 231.604†	8358.0	603.03	7.22%	[500]	µg/L
P 214.914†	1389.9	145.08	10.44%	[2500]	µg/L
Pb 220.353†	1778.0	159.10	8.95%	[500]	µg/L
S 181.975 Axial†	295.3	22.88	7.75%	[1000]	µg/L
Sb 206.836†	517.6	54.12	10.46%	[500]	µg/L
Se 196.026†	495.0	42.74	8.64%	[500]	µg/L
SiO2†	27860.6	1547.09	5.55%	[5347.5]	µg/L
Si 251.611†	34743.0	1884.42	5.42%	[2500]	µg/L

Sn 189.927†	1172.2	149.04	12.71%	[500]	µg/L
Sr 421.552†	81116.6	125.82	0.16%	[500]	µg/L
Ti 334.940†	199862.6	10134.80	5.07%	[500]	µg/L
Tl 190.801†	481.4	33.09	6.87%	[500]	µg/L
U 409.014†	5169.8	406.09	7.86%	[500]	µg/L
V 292.402†	39069.6	2780.15	7.12%	[500]	µg/L
Zn 213.857†	20779.3	1412.89	6.80%	[500]	µg/L

Sequence No.: 4
 Sample ID: SCAL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 3/17/2010 07:01:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc RADIAL	87618.1	87618.1	102	%	07:01:43
1	Al 396.153Radial†	20081.8	19764.0	[10000]	µg/L	07:01:43
1	Ca 317.933Radial†	26421.4	25542.9	[10000]	µg/L	07:01:43
1	Fe 238.204 Radial†	811.9	782.0	[10000]	µg/L	07:02:03
1	K 766.490 Radial†	20601.9	20046.5	[10000]	µg/L	07:01:43
1	Mg 279.077 IEC†	738.0	713.2	[10000]	µg/L	07:02:03
1	Na 589.592 Radial†	19900.0	19318.4	[10000]	µg/L	07:01:43
1	Sr 421.552†	162275.1	158728.6	[1000]	µg/L	07:01:43
1	Sc 361.383	1859834.8	1859834.8	100.96	%	07:03:07
1	Y 371.029	1287714.4	1287714.4	100.57	%	07:03:07
1	Ag 328.068†	119397.6	118776.7	[1000]	µg/L	07:03:13
1	As 188.979†	665.8	661.1	[1000]	µg/L	07:03:34
1	B 249.677†	21355.6	20820.0	[1000]	µg/L	07:03:13
1	Ba 233.527†	43831.2	43434.0	[1000]	µg/L	07:03:13
1	Be 313.107†	1612768.2	1598784.5	[1000]	µg/L	07:03:07
1	Cd 226.502†	39560.8	39350.6	[1000]	µg/L	07:03:13
1	Co 228.616†	22423.3	22179.7	[1000]	µg/L	07:03:13
1	Cr 267.716†	44297.3	43785.8	[1000]	µg/L	07:03:13
1	Cu 324.752†	153448.9	147886.1	[1000]	µg/L	07:03:13
1	Mn 257.610†	313169.9	310915.0	[1000]	µg/L	07:03:13
1	Mo 202.031†	10119.7	10013.0	[1000]	µg/L	07:03:34
1	Ni 231.604†	17522.6	16999.4	[1000]	µg/L	07:03:13
1	P 214.914†	3247.6	2928.6	[5000]	µg/L	07:03:34
1	Pb 220.353†	3779.7	3709.9	[1000]	µg/L	07:03:34
1	S 181.975 Axial†	635.7	607.0	[2000]	µg/L	07:03:34
1	Sb 206.836†	1131.8	1094.8	[1000]	µg/L	07:03:34
1	Se 196.026†	1056.8	1026.7	[1000]	µg/L	07:03:34
1	SiO2†	59563.8	56349.3	[10695]	µg/L	07:03:13
1	Si 251.611†	71109.1	70037.4	[5000]	µg/L	07:03:13
1	Sn 189.927†	2539.2	2518.8	[1000]	µg/L	07:03:34
1	Ti 334.940†	409859.0	406606.1	[1000]	µg/L	07:03:07
1	Tl 190.801†	952.4	974.0	[1000]	µg/L	07:03:34
1	U 409.014†	10924.0	10839.6	[1000]	µg/L	07:03:13
1	V 292.402†	81334.7	80430.4	[1000]	µg/L	07:03:13
1	Zn 213.857†	42491.7	41541.9	[1000]	µg/L	07:03:13
2	Sc RADIAL	87408.6	87408.6	102	%	07:02:09
2	Al 396.153Radial†	20103.2	19832.1	[10000]	µg/L	07:02:09
2	Ca 317.933Radial†	26414.4	25597.9	[10000]	µg/L	07:02:09
2	Fe 238.204 Radial†	808.6	780.7	[10000]	µg/L	07:02:29
2	K 766.490 Radial†	20624.2	20116.8	[10000]	µg/L	07:02:09
2	Mg 279.077 IEC†	736.5	713.5	[10000]	µg/L	07:02:29
2	Na 589.592 Radial†	19922.8	19387.5	[10000]	µg/L	07:02:09
2	Sr 421.552†	162622.6	159450.4	[1000]	µg/L	07:02:09
2	Sc 361.383	1851640.1	1851640.1	100.51	%	07:03:40
2	Y 371.029	1281970.2	1281970.2	100.12	%	07:03:40
2	Ag 328.068†	119386.8	119289.4	[1000]	µg/L	07:03:46
2	As 188.979†	656.1	654.4	[1000]	µg/L	07:04:07
2	B 249.677†	21380.0	20937.8	[1000]	µg/L	07:03:46
2	Ba 233.527†	43786.6	43581.8	[1000]	µg/L	07:03:46
2	Be 313.107†	1603508.6	1596642.2	[1000]	µg/L	07:03:40
2	Cd 226.502†	39564.9	39528.1	[1000]	µg/L	07:03:46
2	Co 228.616†	22439.0	22293.6	[1000]	µg/L	07:03:46
2	Cr 267.716†	44246.3	43929.2	[1000]	µg/L	07:03:46
2	Cu 324.752†	153708.4	148816.9	[1000]	µg/L	07:03:46
2	Mn 257.610†	313693.0	312808.2	[1000]	µg/L	07:03:46
2	Mo 202.031†	9881.2	9820.1	[1000]	µg/L	07:04:07
2	Ni 231.604†	17501.1	17054.7	[1000]	µg/L	07:03:46
2	P 214.914†	3208.2	2903.6	[5000]	µg/L	07:04:07
2	Pb 220.353†	3716.5	3663.6	[1000]	µg/L	07:04:07

2	S 181.975 Axial†	632.4	606.5	[2000]	µg/L	07:04:07
2	Sb 206.836†	1116.8	1084.8	[1000]	µg/L	07:04:07
2	Se 196.026†	1045.7	1020.4	[1000]	µg/L	07:04:07
2	SiO2†	59721.3	56767.0	[10695]	µg/L	07:03:46
2	Si 251.611†	71278.2	70517.4	[5000]	µg/L	07:03:46
2	Sn 189.927†	2457.6	2448.7	[1000]	µg/L	07:04:07
2	Ti 334.940†	407889.2	406443.0	[1000]	µg/L	07:03:40
2	Tl 190.801†	948.8	974.5	[1000]	µg/L	07:04:07
2	U 409.014†	10844.9	10808.8	[1000]	µg/L	07:03:46
2	V 292.402†	81444.8	80896.4	[1000]	µg/L	07:03:46
2	Zn 213.857†	42519.3	41755.6	[1000]	µg/L	07:03:46
3	Sc RADIAL	87433.0	87433.0	102	%	07:02:35
3	Al 396.153Radial†	20107.7	19831.0	[10000]	µg/L	07:02:35
3	Ca 317.933Radial†	26419.3	25595.5	[10000]	µg/L	07:02:35
3	Fe 238.204 Radial†	815.3	787.0	[10000]	µg/L	07:02:55
3	K 766.490 Radial†	20577.0	20064.8	[10000]	µg/L	07:02:35
3	Mg 279.077 IEC†	741.3	718.0	[10000]	µg/L	07:02:55
3	Na 589.592 Radial†	19975.2	19433.4	[10000]	µg/L	07:02:35
3	Sr 421.552†	162683.5	159465.5	[1000]	µg/L	07:02:35
3	Sc 361.383	1849834.6	1849834.6	100.42	%	07:04:13
3	Y 371.029	1279144.4	1279144.4	99.903	%	07:04:13
3	Ag 328.068†	110440.3	110496.0	[1000]	µg/L	07:04:19
3	As 188.979†	551.6	551.0	[1000]	µg/L	07:04:40
3	B 249.677†	19605.1	19191.1	[1000]	µg/L	07:04:19
3	Ba 233.527†	39229.8	39086.5	[1000]	µg/L	07:04:19
3	Be 313.107†	1461351.1	1456631.5	[1000]	µg/L	07:04:13
3	Cd 226.502†	35216.2	35235.9	[1000]	µg/L	07:04:19
3	Co 228.616†	19722.0	19609.7	[1000]	µg/L	07:04:19
3	Cr 267.716†	37733.3	37486.2	[1000]	µg/L	07:04:19
3	Cu 324.752†	135923.4	131254.9	[1000]	µg/L	07:04:19
3	Mn 257.610†	276077.8	275653.7	[1000]	µg/L	07:04:19
3	Mo 202.031†	8090.8	8046.7	[1000]	µg/L	07:04:40
3	Ni 231.604†	15522.5	15101.4	[1000]	µg/L	07:04:19
3	P 214.914†	2712.7	2413.4	[5000]	µg/L	07:04:40
3	Pb 220.353†	3162.0	3114.9	[1000]	µg/L	07:04:40
3	S 181.975 Axial†	543.5	518.6	[2000]	µg/L	07:04:40
3	Sb 206.836†	940.6	910.5	[1000]	µg/L	07:04:40
3	Se 196.026†	907.8	884.0	[1000]	µg/L	07:04:40
3	SiO2†	54399.5	51525.3	[10695]	µg/L	07:04:19
3	Si 251.611†	64704.4	64040.1	[5000]	µg/L	07:04:19
3	Sn 189.927†	1994.1	1989.5	[1000]	µg/L	07:04:40
3	Ti 334.940†	369120.0	368230.8	[1000]	µg/L	07:04:13
3	Tl 190.801†	824.7	851.9	[1000]	µg/L	07:04:40
3	U 409.014†	9383.7	9364.2	[1000]	µg/L	07:04:19
3	V 292.402†	71016.5	70590.5	[1000]	µg/L	07:04:19
3	Zn 213.857†	37534.6	36832.9	[1000]	µg/L	07:04:19

Mean Data: SCAL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1853769.8	5329.45	0.29%	100.63	%
Sc RADIAL	87486.6	114.58	0.13%	102	%
Y 371.029	1282943.0	4367.05	0.34%	100.20	%
Ag 328.068†	116187.4	4935.57	4.25%	[1000]	µg/L
Al 396.153Radial†	19809.0	39.01	0.20%	[10000]	µg/L
As 188.979†	622.2	61.73	9.92%	[1000]	µg/L
B 249.677†	20316.3	976.27	4.81%	[1000]	µg/L
Ba 233.527†	42034.1	2553.80	6.08%	[1000]	µg/L
Be 313.107†	1550686.1	81460.68	5.25%	[1000]	µg/L
Ca 317.933Radial†	25578.8	31.11	0.12%	[10000]	µg/L
Cd 226.502†	38038.2	2428.49	6.38%	[1000]	µg/L
Co 228.616†	21361.0	1517.76	7.11%	[1000]	µg/L
Cr 267.716†	41733.7	3679.18	8.82%	[1000]	µg/L
Cu 324.752†	142652.6	9881.66	6.93%	[1000]	µg/L
Fe 238.204 Radial†	783.2	3.34	0.43%	[10000]	µg/L
K 766.490 Radial†	20076.1	36.47	0.18%	[10000]	µg/L
Mg 279.077 IEC†	714.9	2.70	0.38%	[10000]	µg/L
Mn 257.610†	299792.3	20926.06	6.98%	[1000]	µg/L
Mo 202.031†	9293.3	1083.83	11.66%	[1000]	µg/L
Na 589.592 Radial†	19379.8	57.89	0.30%	[10000]	µg/L

Ni 231.604†	16385.1	1112.13	6.79%	[1000]	µg/L
P 214.914†	2748.5	290.53	10.57%	[5000]	µg/L
Pb 220.353†	3496.1	330.92	9.47%	[1000]	µg/L
S 181.975 Axial†	577.4	50.88	8.81%	[2000]	µg/L
Sb 206.836†	1030.0	103.66	10.06%	[1000]	µg/L
Se 196.026†	977.0	80.63	8.25%	[1000]	µg/L
SiO2†	54880.5	2913.23	5.31%	[10695]	µg/L
Si 251.611†	68198.3	3609.10	5.29%	[5000]	µg/L
Sn 189.927†	2319.0	287.48	12.40%	[1000]	µg/L
Sr 421.552†	159214.8	421.12	0.26%	[1000]	µg/L
Ti 334.940†	393760.0	22109.08	5.61%	[1000]	µg/L
Tl 190.801†	933.5	70.64	7.57%	[1000]	µg/L
U 409.014†	10337.5	843.08	8.16%	[1000]	µg/L
V 292.402†	77305.8	5820.28	7.53%	[1000]	µg/L
Zn 213.857†	40043.5	2782.47	6.95%	[1000]	µg/L

Sequence No.: 5
 Sample ID: S10
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 3/17/2010 07:04:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc RADIAL	90093.6	90093.6	105 %	07:05:20
1	Al 396.153Radial†	100211.3	95506.1	[50000] µg/L	07:05:20
1	Ca 317.933Radial†	131490.3	124856.5	[50000] µg/L	07:05:20
1	Fe 238.204 Radial†	1693.9	1599.8	[20000] µg/L	07:05:40
1	Mg 279.077 IEC†	3731.5	3543.1	[50000] µg/L	07:05:40
1	Na 589.592 Radial†	43144.3	40911.5	[20000] µg/L	07:05:20
1	Sc 361.383	1865920.2	1865920.2	101.29 %	07:06:44
1	Y 371.029	1285647.5	1285647.5	100.41 %	07:06:44
2	Sc RADIAL	90042.6	90042.6	105 %	07:05:46
2	Al 396.153Radial†	99635.4	95011.6	[50000] µg/L	07:05:46
2	Ca 317.933Radial†	130864.2	124331.1	[50000] µg/L	07:05:46
2	Fe 238.204 Radial†	1704.4	1610.7	[20000] µg/L	07:06:06
2	Mg 279.077 IEC†	3733.2	3546.8	[50000] µg/L	07:06:06
2	Na 589.592 Radial†	43028.9	40824.9	[20000] µg/L	07:05:46
2	Sc 361.383	1855019.0	1855019.0	100.70 %	07:06:52
2	Y 371.029	1277882.2	1277882.2	99.805 %	07:06:52
3	Sc RADIAL	89641.7	89641.7	105 %	07:06:11
3	Al 396.153Radial†	99114.0	94937.2	[50000] µg/L	07:06:11
3	Ca 317.933Radial†	130581.0	124617.5	[50000] µg/L	07:06:11
3	Fe 238.204 Radial†	1698.8	1612.6	[20000] µg/L	07:06:32
3	Mg 279.077 IEC†	3741.3	3570.4	[50000] µg/L	07:06:32
3	Na 589.592 Radial†	42877.5	40863.3	[20000] µg/L	07:06:11
3	Sc 361.383	1855081.8	1855081.8	100.70 %	07:06:59
3	Y 371.029	1277943.3	1277943.3	99.809 %	07:06:59

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	1858673.7	6275.72	0.34%	100.90 %
Sc RADIAL	89925.9	247.49	0.28%	105 %
Y 371.029	1280491.0	4465.80	0.35%	100.01 %
Al 396.153Radial†	95151.6	309.23	0.32%	[50000] µg/L
Ca 317.933Radial†	124601.7	263.09	0.21%	[50000] µg/L
Fe 238.204 Radial†	1607.7	6.91	0.43%	[20000] µg/L
Mg 279.077 IEC†	3553.4	14.80	0.42%	[50000] µg/L
Na 589.592 Radial†	40866.5	43.39	0.11%	[20000] µg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	116.3	0.00000	0.999970	
Al 396.153Radial	3	Lin Thru 0	0.0	1.907	0.00000	0.999956	
As 188.979	3	Lin Thru 0	0.0	0.6231	0.00000	0.999933	
B 249.677	3	Lin Thru 0	0.0	20.34	0.00000	0.999985	
Ba 233.527	3	Lin Thru 0	0.0	42.21	0.00000	0.999944	
Be 313.107	3	Lin Thru 0	0.0	1559	0.00000	0.999924	
Ca 317.933Radial	3	Lin Thru 0	0.0	2.496	0.00000	0.999979	
Cd 226.502	3	Lin Thru 0	0.0	38.21	0.00000	0.999930	
Co 228.616	3	Lin Thru 0	0.0	21.47	0.00000	0.999917	
Cr 267.716	3	Lin Thru 0	0.0	41.89	0.00000	0.999931	
Cu 324.752	3	Lin Thru 0	0.0	143.1	0.00000	0.999953	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0800	0.00000	0.999947	
K 766.490 Radial	3	Lin Thru 0	0.0	2.021	0.00000	0.999804	
Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0711	0.00000	0.999998	
Mn 257.610	3	Lin Thru 0	0.0	302.4	0.00000	0.999829	
Mo 202.031	3	Lin Thru 0	0.0	9.330	0.00000	0.999899	
Na 589.592 Radia	2	Lin Thru 0	0.0	2.022	0.00000	0.999783	

Ni 231.604	3	Lin Thru 0	0.0	16.47	0.00000	0.999922
P 214.914	3	Lin Thru 0	0.0	0.5516	0.00000	0.999899
Pb 220.353	3	Lin Thru 0	0.0	3.513	0.00000	0.999879
S 181.975 Axial	3	Lin Thru 0	0.0	0.2902	0.00000	0.999933
Sb 206.836	3	Lin Thru 0	0.0	1.032	0.00000	0.999950
Se 196.026	3	Lin Thru 0	0.0	0.9810	0.00000	0.999856
SiO2	3	Lin Thru 0	0.0	5.150	0.00000	0.999961
Si 251.611	3	Lin Thru 0	0.0	13.70	0.00000	0.999944
Sn 189.927	3	Lin Thru 0	0.0	2.327	0.00000	0.999885
Sr 421.552	3	Lin Thru 0	0.0	159.9	0.00000	0.999957
Ti 334.940	3	Lin Thru 0	0.0	395.2	0.00000	0.999959
Tl 190.801	3	Lin Thru 0	0.0	0.9400	0.00000	0.999891
U 409.014	3	Lin Thru 0	0.0	10.35	0.00000	0.999923
V 292.402	3	Lin Thru 0	0.0	77.53	0.00000	0.999957
Zn 213.857	3	Lin Thru 0	0.0	40.38	0.00000	0.999851

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/17/2010 07:07:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87606.5	87606.5	102 %		07:07:39
1	Al 396.153Radial†	10013.1	9909.1	5184.3 µg/L	5184.3 ppb	07:07:39
1	Ca 317.933Radial†	13321.4	12721.2	5097.5 µg/L	5097.5 ppb	07:07:39
1	Fe 238.204 Radial†	416.5	394.9	4949.6 µg/L	4949.6 ppb	07:08:00
1	K 766.490 Radial†	5397.6	5164.0	2554.6 µg/L	2554.6 ppb	07:07:39
1	Mg 279.077 IEC†	387.0	369.7	5203.9 µg/L	5203.9 ppb	07:08:00
1	Na 589.592 Radial†	5001.1	4734.8	2341.4 µg/L	2341.4 ppb	07:07:39
1	Sr 421.552†	85110.5	83204.5	520.36 µg/L	520.36 ppb	07:07:39
1	Sc 361.383	1861109.8	1861109.8	101.03 %		07:09:04
1	Y 371.029	1290920.7	1290920.7	100.82 %		07:09:04
1	Ag 328.068†	30315.1	30520.3	266.24 µg/L	266.24 ppb	07:09:09
1	As 188.979†	311.8	310.3	495.57 µg/L	495.57 ppb	07:09:30
1	B 249.677†	11239.1	10792.0	528.75 µg/L	528.75 ppb	07:09:09
1	Ba 233.527†	22289.8	22082.2	524.12 µg/L	524.12 ppb	07:09:09
1	Be 313.107†	432013.1	428957.6	274.98 µg/L	274.98 ppb	07:09:04
1	Cd 226.502†	19732.4	19697.3	515.46 µg/L	515.46 ppb	07:09:09
1	Co 228.616†	11452.8	11305.7	525.99 µg/L	525.99 ppb	07:09:09
1	Cr 267.716†	21810.0	21497.4	513.49 µg/L	513.49 ppb	07:09:09
1	Cu 324.752†	79511.7	74597.6	522.40 µg/L	522.40 ppb	07:09:09
1	Mn 257.610†	164126.4	163176.5	539.48 µg/L	539.48 ppb	07:09:04
1	Mo 202.031†	5468.2	5402.0	579.17 µg/L	579.17 ppb	07:09:30
1	Ni 231.604†	9075.3	8626.1	523.33 µg/L	523.33 ppb	07:09:09
1	P 214.914†	1763.8	1457.7	2593.7 µg/L	2593.7 ppb	07:09:30
1	Pb 220.353†	1889.3	1836.1	523.46 µg/L	523.46 ppb	07:09:30
1	S 181.975 Axial†	797.2	766.4	2641.1 µg/L	2641.1 ppb	07:09:30
1	Sb 206.836†	583.2	551.0	537.54 µg/L	537.54 ppb	07:09:30
1	Se 196.026†	2578.9	2532.6	2592.9 µg/L	2592.9 ppb	07:09:30
1	SiO2†	58032.8	54793.4	10639 µg/L	10639 ppb	07:09:09
1	Si 251.611†	69138.1	68038.2	4966.1 µg/L	4966.1 ppb	07:09:09
1	Sn 189.927†	1378.6	1368.3	588.49 µg/L	588.49 ppb	07:09:30
1	Ti 334.940†	205720.2	204267.7	516.55 µg/L	516.55 ppb	07:09:04
1	Tl 190.801†	492.7	518.2	556.93 µg/L	556.93 ppb	07:09:30
1	U 409.014†	5383.4	5348.0	515.75 µg/L	515.75 ppb	07:09:09
1	V 292.402†	42047.7	41488.2	540.59 µg/L	540.59 ppb	07:09:09
1	Zn 213.857†	22042.1	21271.7	523.14 µg/L	523.14 ppb	07:09:09
2	Sc RADIAL	87322.6	87322.6	102 %		07:08:05
2	Al 396.153Radial†	10072.5	9999.3	5231.6 µg/L	5231.6 ppb	07:08:05
2	Ca 317.933Radial†	13286.5	12729.4	5100.8 µg/L	5100.8 ppb	07:08:05
2	Fe 238.204 Radial†	413.3	393.2	4927.6 µg/L	4927.6 ppb	07:08:26
2	K 766.490 Radial†	5410.8	5194.2	2569.5 µg/L	2569.5 ppb	07:08:05
2	Mg 279.077 IEC†	387.8	371.7	5232.1 µg/L	5232.1 ppb	07:08:26
2	Na 589.592 Radial†	5014.4	4763.7	2355.7 µg/L	2355.7 ppb	07:08:05
2	Sr 421.552†	85289.2	83650.9	523.16 µg/L	523.16 ppb	07:08:05
2	Sc 361.383	1853582.8	1853582.8	100.62 %		07:09:37
2	Y 371.029	1284881.3	1284881.3	100.35 %		07:09:37
2	Ag 328.068†	30100.3	30428.6	265.43 µg/L	265.43 ppb	07:09:43
2	As 188.979†	313.5	313.3	500.39 µg/L	500.39 ppb	07:10:03
2	B 249.677†	11140.6	10739.2	526.16 µg/L	526.16 ppb	07:09:43
2	Ba 233.527†	22102.0	21985.2	521.82 µg/L	521.82 ppb	07:09:43
2	Be 313.107†	430197.8	428890.0	274.93 µg/L	274.93 ppb	07:09:37
2	Cd 226.502†	19542.3	19587.7	512.59 µg/L	512.59 ppb	07:09:43
2	Co 228.616†	11347.6	11247.1	523.26 µg/L	523.26 ppb	07:09:43
2	Cr 267.716†	21605.9	21382.2	510.73 µg/L	510.73 ppb	07:09:43
2	Cu 324.752†	79236.5	74643.6	522.72 µg/L	522.72 ppb	07:09:43
2	Mn 257.610†	163219.8	162935.2	538.68 µg/L	538.68 ppb	07:09:37
2	Mo 202.031†	5443.1	5399.0	578.85 µg/L	578.85 ppb	07:10:03
2	Ni 231.604†	9030.7	8618.3	522.86 µg/L	522.86 ppb	07:09:43
2	P 214.914†	1766.3	1467.3	2611.0 µg/L	2611.0 ppb	07:10:03
2	Pb 220.353†	1888.1	1842.5	525.29 µg/L	525.29 ppb	07:10:03

2	S 181.975 Axial†	792.4	764.8	2635.6 µg/L	2635.6 ppb	07:10:03
2	Sb 206.836†	582.8	552.9	539.41 µg/L	539.41 ppb	07:10:03
2	Se 196.026†	2557.8	2522.1	2582.1 µg/L	2582.1 ppb	07:10:03
2	SiO2†	57806.5	54801.8	10641 µg/L	10641 ppb	07:09:43
2	Si 251.611†	69064.6	68243.2	4981.1 µg/L	4981.1 ppb	07:09:43
2	Sn 189.927†	1358.5	1353.8	582.27 µg/L	582.27 ppb	07:10:03
2	Ti 334.940†	205262.8	204640.1	517.49 µg/L	517.49 ppb	07:09:37
2	Tl 190.801†	485.8	513.4	551.79 µg/L	551.79 ppb	07:10:03
2	U 409.014†	5405.0	5391.1	519.92 µg/L	519.92 ppb	07:09:43
2	V 292.402†	41691.4	41303.1	538.20 µg/L	538.20 ppb	07:09:43
2	Zn 213.857†	21965.9	21284.5	523.46 µg/L	523.46 ppb	07:09:43
3	Sc RADIAL	87859.9	87859.9	102 %		07:08:31
3	Al 396.153Radial†	10055.2	9922.0	5192.0 µg/L	5192.0 ppb	07:08:31
3	Ca 317.933Radial†	13282.4	12645.5	5067.2 µg/L	5067.2 ppb	07:08:31
3	Fe 238.204 Radial†	420.4	397.6	4982.2 µg/L	4982.2 ppb	07:08:52
3	K 766.490 Radial†	5376.2	5127.9	2536.8 µg/L	2536.8 ppb	07:08:31
3	Mg 279.077 IEC†	384.1	365.7	5147.9 µg/L	5147.9 ppb	07:08:52
3	Na 589.592 Radial†	5009.3	4728.7	2338.3 µg/L	2338.3 ppb	07:08:31
3	Sr 421.552†	85270.9	83120.7	519.84 µg/L	519.84 ppb	07:08:31
3	Sc 361.383	1860563.1	1860563.1	101.00 %		07:10:10
3	Y 371.029	1290012.0	1290012.0	100.75 %		07:10:10
3	Ag 328.068†	29459.3	29681.7	258.85 µg/L	258.85 ppb	07:10:16
3	As 188.979†	295.1	293.8	469.24 µg/L	469.24 ppb	07:10:36
3	B 249.677†	10881.3	10441.0	511.42 µg/L	511.42 ppb	07:10:16
3	Ba 233.527†	21226.3	21035.7	499.27 µg/L	499.27 ppb	07:10:16
3	Be 313.107†	417681.9	414893.9	265.96 µg/L	265.96 ppb	07:10:10
3	Cd 226.502†	18865.8	18845.0	493.12 µg/L	493.12 ppb	07:10:16
3	Co 228.616†	10825.3	10687.7	497.20 µg/L	497.20 ppb	07:10:16
3	Cr 267.716†	20386.1	20093.9	479.97 µg/L	479.97 ppb	07:10:16
3	Cu 324.752†	75722.0	70868.5	496.34 µg/L	496.34 ppb	07:10:16
3	Mn 257.610†	158920.6	158069.9	522.60 µg/L	522.60 ppb	07:10:10
3	Mo 202.031†	5005.0	4945.0	530.19 µg/L	530.19 ppb	07:10:36
3	Ni 231.604†	8617.3	8175.3	495.99 µg/L	495.99 ppb	07:10:16
3	P 214.914†	1668.3	1363.6	2425.1 µg/L	2425.1 ppb	07:10:36
3	Pb 220.353†	1771.3	1719.8	490.28 µg/L	490.28 ppb	07:10:36
3	S 181.975 Axial†	756.6	726.5	2503.4 µg/L	2503.4 ppb	07:10:36
3	Sb 206.836†	545.6	514.0	501.19 µg/L	501.19 ppb	07:10:36
3	Se 196.026†	2420.5	2376.6	2434.0 µg/L	2434.0 ppb	07:10:36
3	SiO2†	56113.0	52909.4	10273 µg/L	10273 ppb	07:10:16
3	Si 251.611†	66750.9	65694.8	4795.1 µg/L	4795.1 ppb	07:10:16
3	Sn 189.927†	1246.3	1237.6	532.34 µg/L	532.34 ppb	07:10:36
3	Ti 334.940†	199094.6	197767.5	500.11 µg/L	500.11 ppb	07:10:10
3	Tl 190.801†	454.4	480.5	516.61 µg/L	516.61 ppb	07:10:36
3	U 409.014†	5116.8	5085.6	490.38 µg/L	490.38 ppb	07:10:16
3	V 292.402†	39805.7	39280.6	511.64 µg/L	511.64 ppb	07:10:16
3	Zn 213.857†	21004.8	20251.1	498.02 µg/L	498.02 ppb	07:10:16

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1858418.6	100.88 %	0.228			0.23%
Sc RADIAL	87596.3	102 %	0.3			0.31%
Y 371.029	1288604.7	100.64 %	0.254			0.25%
Ag 328.068†	30210.2	263.51 µg/L	4.056	263.51 ppb	4.056	1.54%
QC value within limits for Ag 328.068 Recovery = 105.40%						
Al 396.153Radial†	9943.5	5202.6 µg/L	25.38	5202.6 ppb	25.38	0.49%
QC value within limits for Al 396.153Radial Recovery = 104.05%						
As 188.979†	305.8	488.40 µg/L	16.768	488.40 ppb	16.768	3.43%
QC value within limits for As 188.979 Recovery = 97.68%						
B 249.677†	10657.4	522.11 µg/L	9.347	522.11 ppb	9.347	1.79%
QC value within limits for B 249.677 Recovery = 104.42%						
Ba 233.527†	21701.1	515.07 µg/L	13.727	515.07 ppb	13.727	2.67%
QC value within limits for Ba 233.527 Recovery = 103.01%						
Be 313.107†	424247.2	271.96 µg/L	5.193	271.96 ppb	5.193	1.91%
QC value within limits for Be 313.107 Recovery = 108.78%						
Ca 317.933Radial†	12698.7	5088.5 µg/L	18.53	5088.5 ppb	18.53	0.36%
QC value within limits for Ca 317.933Radial Recovery = 101.77%						
Cd 226.502†	19376.7	507.05 µg/L	12.153	507.05 ppb	12.153	2.40%
QC value within limits for Cd 226.502 Recovery = 101.41%						
Co 228.616†	11080.2	515.48 µg/L	15.894	515.48 ppb	15.894	3.08%

Cr 267.716†	20991.2	501.40 µg/L	18.609	501.40 ppb	18.609	3.71%
QC value within limits for Cr 267.716 Recovery = 100.28%						
Cu 324.752†	73369.9	513.82 µg/L	15.139	513.82 ppb	15.139	2.95%
QC value within limits for Cu 324.752 Recovery = 102.76%						
Fe 238.204 Radial†	395.2	4953.1 µg/L	27.45	4953.1 ppb	27.45	0.55%
QC value within limits for Fe 238.204 Radial Recovery = 99.06%						
K 766.490 Radial†	5162.0	2553.6 µg/L	16.42	2553.6 ppb	16.42	0.64%
QC value within limits for K 766.490 Radial Recovery = 102.15%						
Mg 279.077 IEC†	369.0	5194.6 µg/L	42.85	5194.6 ppb	42.85	0.82%
QC value within limits for Mg 279.077 IEC Recovery = 103.89%						
Mn 257.610†	161393.9	533.59 µg/L	9.522	533.59 ppb	9.522	1.78%
QC value within limits for Mn 257.610 Recovery = 106.72%						
Mo 202.031†	5248.7	562.74 µg/L	28.188	562.74 ppb	28.188	5.01%
QC value greater than the upper limit for Mo 202.031 Recovery = 112.55%						
Na 589.592 Radial†	4742.4	2345.1 µg/L	9.26	2345.1 ppb	9.26	0.39%
QC value within limits for Na 589.592 Radial Recovery = 93.80%						
Ni 231.604†	8473.3	514.06 µg/L	15.652	514.06 ppb	15.652	3.04%
QC value within limits for Ni 231.604 Recovery = 102.81%						
P 214.914†	1429.6	2543.3 µg/L	102.72	2543.3 ppb	102.72	4.04%
QC value within limits for P 214.914 Recovery = 101.73%						
Pb 220.353†	1799.5	513.01 µg/L	19.707	513.01 ppb	19.707	3.84%
QC value within limits for Pb 220.353 Recovery = 102.60%						
S 181.975 Axial†	752.6	2593.4 µg/L	77.98	2593.4 ppb	77.98	3.01%
QC value within limits for S 181.975 Axial Recovery = 103.73%						
Sb 206.836†	539.3	526.05 µg/L	21.550	526.05 ppb	21.550	4.10%
QC value within limits for Sb 206.836 Recovery = 105.21%						
Se 196.026†	2477.1	2536.4 µg/L	88.77	2536.4 ppb	88.77	3.50%
QC value within limits for Se 196.026 Recovery = 101.45%						
SiO2†	54168.2	10518 µg/L	211.7	10518 ppb	211.7	2.01%
QC value within limits for SiO2 Recovery = 98.34%						
Si 251.611†	67325.4	4914.1 µg/L	103.34	4914.1 ppb	103.34	2.10%
QC value within limits for Si 251.611 Recovery = 98.28%						
Sn 189.927†	1319.9	567.70 µg/L	30.779	567.70 ppb	30.779	5.42%
QC value greater than the upper limit for Sn 189.927 Recovery = 113.54%						
Sr 421.552†	83325.4	521.12 µg/L	1.783	521.12 ppb	1.783	0.34%
QC value within limits for Sr 421.552 Recovery = 104.22%						
Ti 334.940†	202225.1	511.38 µg/L	9.777	511.38 ppb	9.777	1.91%
QC value within limits for Ti 334.940 Recovery = 102.28%						
Tl 190.801†	504.0	541.78 µg/L	21.949	541.78 ppb	21.949	4.05%
QC value within limits for Tl 190.801 Recovery = 108.36%						
U 409.014†	5274.9	508.68 µg/L	15.983	508.68 ppb	15.983	3.14%
QC value within limits for U 409.014 Recovery = 101.74%						
V 292.402†	40690.7	530.14 µg/L	16.071	530.14 ppb	16.071	3.03%
QC value within limits for V 292.402 Recovery = 106.03%						
Zn 213.857†	20935.8	514.87 µg/L	14.591	514.87 ppb	14.591	2.83%
QC value within limits for Zn 213.857 Recovery = 102.97%						
QC Failed. Continue with analysis.						

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/17/2010 07:10:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86136.0	86136.0	100 %		07:11:16
1	Al 396.153Radial†	-96.2	10.4	5.4387 µg/L	5.4387 ppb	07:11:16
1	Ca 317.933Radial†	321.7	-0.3	-0.1177 µg/L	-0.1177 ppb	07:11:36
1	Fe 238.204 Radial†	14.3	1.5	18.228 µg/L	18.228 ppb	07:11:36
1	K 766.490 Radial†	191.2	70.1	34.663 µg/L	34.663 ppb	07:11:16
1	Mg 279.077 IEC†	9.3	0.0	0.3422 µg/L	0.3422 ppb	07:11:36
1	Na 589.592 Radial†	179.1	16.9	8.3798 µg/L	8.3798 ppb	07:11:16
1	Sr 421.552†	132.6	12.1	0.0758 µg/L	0.0758 ppb	07:11:16
1	Sc 361.383	1855497.0	1855497.0	100.72 %		07:12:38
1	Y 371.029	1292595.6	1292595.6	100.95 %		07:12:38
1	Ag 328.068†	-462.0	55.1	0.4700 µg/L	0.4700 ppb	07:12:44
1	As 188.979†	-4.5	-2.8	-4.5577 µg/L	-4.5577 ppb	07:13:05
1	B 249.677†	330.5	-4.6	-0.2349 µg/L	-0.2349 ppb	07:12:44
1	Ba 233.527†	-16.0	3.5	0.0809 µg/L	0.0809 ppb	07:13:05
1	Be 313.107†	-1255.3	97.0	0.0622 µg/L	0.0622 ppb	07:12:44
1	Cd 226.502†	-156.7	10.2	0.2659 µg/L	0.2659 ppb	07:13:05
1	Co 228.616†	32.4	1.6	0.0762 µg/L	0.0762 ppb	07:13:05
1	Cr 267.716†	78.7	-12.4	-0.2967 µg/L	-0.2967 ppb	07:12:44
1	Cu 324.752†	4084.9	-49.0	-0.3392 µg/L	-0.3392 ppb	07:12:44
1	Mn 257.610†	-717.4	9.0	0.0309 µg/L	0.0309 ppb	07:13:05
1	Mo 202.031†	20.5	9.8	1.0520 µg/L	1.0520 ppb	07:13:05
1	Ni 231.604†	363.8	4.5	0.2704 µg/L	0.2704 ppb	07:13:05
1	P 214.914†	278.3	-11.9	-21.441 µg/L	-21.441 ppb	07:13:05
1	Pb 220.353†	41.4	7.2	2.0453 µg/L	2.0453 ppb	07:13:05
1	S 181.975 Axial†	24.1	1.3	4.3972 µg/L	4.3972 ppb	07:13:05
1	Sb 206.836†	24.6	-1.8	-1.7076 µg/L	-1.7076 ppb	07:13:05
1	Se 196.026†	26.6	6.4	6.5993 µg/L	6.5993 ppb	07:13:05
1	SiO2†	2673.7	6.0	1.1663 µg/L	1.1663 ppb	07:12:44
1	Si 251.611†	433.7	34.7	2.5339 µg/L	2.5339 ppb	07:13:05
1	Sn 189.927†	2.0	5.7	2.4681 µg/L	2.4681 ppb	07:13:05
1	Ti 334.940†	-586.0	60.4	0.1528 µg/L	0.1528 ppb	07:12:44
1	Tl 190.801†	-27.1	3.7	3.9437 µg/L	3.9437 ppb	07:13:05
1	U 409.014†	42.9	62.0	5.9918 µg/L	5.9918 ppb	07:12:44
1	V 292.402†	73.9	-58.0	-0.7371 µg/L	-0.7371 ppb	07:12:44
1	Zn 213.857†	509.1	-40.5	-1.0043 µg/L	-1.0043 ppb	07:13:05
2	Sc RADIAL	86192.1	86192.1	100 %		07:11:42
2	Al 396.153Radial†	-133.7	-26.9	-14.135 µg/L	-14.135 ppb	07:11:42
2	Ca 317.933Radial†	315.2	-7.0	-2.8047 µg/L	-2.8047 ppb	07:12:02
2	Fe 238.204 Radial†	14.3	1.5	18.547 µg/L	18.547 ppb	07:12:02
2	K 766.490 Radial†	78.7	-42.0	-20.772 µg/L	-20.772 ppb	07:11:42
2	Mg 279.077 IEC†	9.0	-0.2	-3.2550 µg/L	-3.2550 ppb	07:12:02
2	Na 589.592 Radial†	173.6	11.4	5.6187 µg/L	5.6187 ppb	07:11:42
2	Sr 421.552†	125.8	5.3	0.0332 µg/L	0.0332 ppb	07:11:42
2	Sc 361.383	1865527.7	1865527.7	101.27 %		07:13:11
2	Y 371.029	1299091.7	1299091.7	101.46 %		07:13:11
2	Ag 328.068†	-483.0	36.8	0.3135 µg/L	0.3135 ppb	07:13:16
2	As 188.979†	-1.0	0.7	1.0533 µg/L	1.0533 ppb	07:13:37
2	B 249.677†	350.0	12.9	0.6266 µg/L	0.6266 ppb	07:13:16
2	Ba 233.527†	-13.7	5.8	0.1371 µg/L	0.1371 ppb	07:13:37
2	Be 313.107†	-1227.5	131.2	0.0842 µg/L	0.0842 ppb	07:13:16
2	Cd 226.502†	-164.4	3.5	0.0885 µg/L	0.0885 ppb	07:13:37
2	Co 228.616†	42.6	11.6	0.5412 µg/L	0.5412 ppb	07:13:37
2	Cr 267.716†	95.7	4.0	0.0954 µg/L	0.0954 ppb	07:13:16
2	Cu 324.752†	4100.7	-55.2	-0.3821 µg/L	-0.3821 ppb	07:13:16
2	Mn 257.610†	-708.9	21.2	0.0714 µg/L	0.0714 ppb	07:13:37
2	Mo 202.031†	22.2	11.4	1.2205 µg/L	1.2205 ppb	07:13:37
2	Ni 231.604†	361.9	0.6	0.0342 µg/L	0.0342 ppb	07:13:37
2	P 214.914†	276.5	-15.1	-27.393 µg/L	-27.393 ppb	07:13:37
2	Pb 220.353†	46.3	11.8	3.3465 µg/L	3.3465 ppb	07:13:37

2	S 181.975 Axial†	18.5	-4.3	-14.974 µg/L	-14.974 ppb	07:13:37
2	Sb 206.836†	27.3	0.7	0.6677 µg/L	0.6677 ppb	07:13:37
2	Se 196.026†	28.5	8.2	8.4164 µg/L	8.4164 ppb	07:13:37
2	SiO2†	2668.7	-13.2	-2.5646 µg/L	-2.5646 ppb	07:13:16
2	Si 251.611†	443.4	42.0	3.0635 µg/L	3.0635 ppb	07:13:37
2	Sn 189.927†	-5.3	-1.5	-0.6500 µg/L	-0.6500 ppb	07:13:37
2	Ti 334.940†	-664.1	-13.6	-0.0343 µg/L	-0.0343 ppb	07:13:16
2	Tl 190.801†	-30.8	0.1	0.1645 µg/L	0.1645 ppb	07:13:37
2	U 409.014†	33.8	52.8	5.0953 µg/L	5.0953 ppb	07:13:16
2	V 292.402†	79.5	-52.8	-0.6689 µg/L	-0.6689 ppb	07:13:16
2	Zn 213.857†	501.5	-50.8	-1.2576 µg/L	-1.2576 ppb	07:13:37
3	Sc RADIAL	86839.6	86839.6	101 %		07:12:08
3	Al 396.153Radial†	-118.7	-11.1	-5.8248 µg/L	-5.8248 ppb	07:12:08
3	Ca 317.933Radial†	322.8	-1.8	-0.7375 µg/L	-0.7375 ppb	07:12:28
3	Fe 238.204 Radial†	12.3	-0.6	-7.7481 µg/L	-7.7481 ppb	07:12:28
3	K 766.490 Radial†	223.8	100.8	49.857 µg/L	49.857 ppb	07:12:08
3	Mg 279.077 IEC†	7.9	-1.4	-20.190 µg/L	-20.190 ppb	07:12:28
3	Na 589.592 Radial†	208.1	44.1	21.829 µg/L	21.829 ppb	07:12:08
3	Sr 421.552†	100.2	-20.9	-0.1308 µg/L	-0.1308 ppb	07:12:08
3	Sc 361.383	1865125.4	1865125.4	101.25 %		07:13:43
3	Y 371.029	1297254.6	1297254.6	101.32 %		07:13:43
3	Ag 328.068†	-508.1	12.0	0.0987 µg/L	0.0987 ppb	07:13:48
3	As 188.979†	0.2	1.9	2.9995 µg/L	2.9995 ppb	07:14:09
3	B 249.677†	322.7	-14.0	-0.6826 µg/L	-0.6826 ppb	07:13:48
3	Ba 233.527†	-11.3	8.2	0.1930 µg/L	0.1930 ppb	07:14:09
3	Be 313.107†	-1306.0	53.4	0.0342 µg/L	0.0342 ppb	07:13:48
3	Cd 226.502†	-173.1	-5.1	-0.1334 µg/L	-0.1334 ppb	07:14:09
3	Co 228.616†	33.0	2.1	0.0978 µg/L	0.0978 ppb	07:14:09
3	Cr 267.716†	78.9	-12.6	-0.3022 µg/L	-0.3022 ppb	07:13:48
3	Cu 324.752†	4116.5	-38.7	-0.2721 µg/L	-0.2721 ppb	07:13:48
3	Mn 257.610†	-702.0	27.8	0.0930 µg/L	0.0930 ppb	07:14:09
3	Mo 202.031†	16.3	5.5	0.5939 µg/L	0.5939 ppb	07:14:09
3	Ni 231.604†	358.4	-2.8	-0.1684 µg/L	-0.1684 ppb	07:14:09
3	P 214.914†	287.8	-3.9	-7.0014 µg/L	-7.0014 ppb	07:14:09
3	Pb 220.353†	42.5	8.0	2.2902 µg/L	2.2902 ppb	07:14:09
3	S 181.975 Axial†	20.2	-2.7	-9.3678 µg/L	-9.3678 ppb	07:14:09
3	Sb 206.836†	29.2	2.6	2.5512 µg/L	2.5512 ppb	07:14:09
3	Se 196.026†	16.4	-3.8	-3.8684 µg/L	-3.8684 ppb	07:14:09
3	SiO2†	2664.8	-16.5	-3.2061 µg/L	-3.2061 ppb	07:13:48
3	Si 251.611†	428.4	27.2	1.9888 µg/L	1.9888 ppb	07:14:09
3	Sn 189.927†	-5.8	-2.0	-0.8459 µg/L	-0.8459 ppb	07:14:09
3	Ti 334.940†	-590.0	59.4	0.1519 µg/L	0.1519 ppb	07:13:48
3	Tl 190.801†	-29.7	1.3	1.3687 µg/L	1.3687 ppb	07:14:09
3	U 409.014†	-54.8	-34.8	-3.3587 µg/L	-3.3587 ppb	07:13:48
3	V 292.402†	85.7	-46.7	-0.6013 µg/L	-0.6013 ppb	07:13:48
3	Zn 213.857†	513.7	-38.6	-0.9524 µg/L	-0.9524 ppb	07:14:09

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1862050.0	101.08 %	0.308			0.30%
Sc RADIAL	86389.3	101 %	0.5			0.45%
Y 371.029	1296314.0	101.24 %	0.262			0.26%
Ag 328.068†	34.6	0.2941 µg/L	0.18638	0.2941 ppb	0.18638	63.38%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-9.2	-4.8403 µg/L	9.82385	-4.8403 ppb	9.82385	202.96%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.1	-0.1683 µg/L	3.92391	-0.1683 ppb	3.92391	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-1.9	-0.0970 µg/L	0.66543	-0.0970 ppb	0.66543	686.01%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.8	0.1370 µg/L	0.05602	0.1370 ppb	0.05602	40.89%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	93.9	0.0602 µg/L	0.02504	0.0602 ppb	0.02504	41.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.0	-1.2200 µg/L	1.40699	-1.2200 ppb	1.40699	115.33%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	2.9	0.0737 µg/L	0.20004	0.0737 ppb	0.20004	271.45%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.1	0.2384 µg/L	0.26248	0.2384 ppb	0.26248	110.11%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated		
	-7.0	-0.1678 µg/L	0.22795	-0.1678 ppb
			0.22795	135.82%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated		
	-47.6	-0.3311 µg/L	0.05542	-0.3311 ppb
			0.05542	16.74%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated		
	0.8	9.6755 µg/L	15.09013	9.6755 ppb
			15.09013	155.96%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
	43.0	21.249 µg/L	37.1758	21.249 ppb
			37.1758	174.95%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated		
	-0.5	-7.7009 µg/L	10.96425	-7.7009 ppb
			10.96425	142.38%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
	19.3	0.0651 µg/L	0.03152	0.0651 ppb
			0.03152	48.44%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated		
	8.9	0.9555 µg/L	0.32427	0.9555 ppb
			0.32427	33.94%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated		
	24.2	11.942 µg/L	8.6724	11.942 ppb
			8.6724	72.62%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
	0.7	0.0454 µg/L	0.21964	0.0454 ppb
			0.21964	483.89%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated		
	-10.3	-18.612 µg/L	10.4860	-18.612 ppb
			10.4860	56.34%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated		
	9.0	2.5607 µg/L	0.69146	2.5607 ppb
			0.69146	27.00%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated		
	-1.9	-6.6482 µg/L	9.96778	-6.6482 ppb
			9.96778	149.93%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated		
	0.5	0.5038 µg/L	2.13415	0.5038 ppb
			2.13415	423.64%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated		
	3.6	3.7158 µg/L	6.63065	3.7158 ppb
			6.63065	178.45%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated		
	-7.9	-1.5348 µg/L	2.36113	-1.5348 ppb
			2.36113	153.84%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated		
	34.6	2.5288 µg/L	0.53740	2.5288 ppb
			0.53740	21.25%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated		
	0.8	0.3241 µg/L	1.85939	0.3241 ppb
			1.85939	573.75%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated		
	-1.2	-0.0073 µg/L	0.10906	-0.0073 ppb
			0.10906	>999.9%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated		
	35.4	0.0901 µg/L	0.10774	0.0901 ppb
			0.10774	119.54%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated		
	1.7	1.8256 µg/L	1.93059	1.8256 ppb
			1.93059	105.75%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated		
	26.7	2.5762 µg/L	5.15922	2.5762 ppb
			5.15922	200.27%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated		
	-52.5	-0.6691 µg/L	0.06793	-0.6691 ppb
			0.06793	10.15%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated		
	-43.3	-1.0714 µg/L	0.16329	-1.0714 ppb
			0.16329	15.24%

QC value within limits for Zn 213.857 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/17/2010 07:14:18

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86120.2	86120.2	100 %		07:14:49
1	Al 396.153Radial†	287.3	392.3	205.50 µg/L	205.50 ppb	07:14:49
1	Ca 317.933Radial†	848.7	524.6	210.19 µg/L	210.19 ppb	07:15:09
1	Fe 238.204 Radial†	20.5	7.6	95.193 µg/L	95.193 ppb	07:15:09
1	K 766.490 Radial†	394.7	272.8	134.97 µg/L	134.97 ppb	07:14:49
1	Mg 279.077 IEC†	29.0	19.7	277.25 µg/L	277.25 ppb	07:15:09
1	Na 589.592 Radial†	778.9	614.4	303.82 µg/L	303.82 ppb	07:14:49
1	Sr 421.552†	943.1	819.4	5.1244 µg/L	5.1244 ppb	07:14:49
1	Sc 361.383	1869598.4	1869598.4	101.49 %		07:16:11
1	Y 371.029	1301555.1	1301555.1	101.65 %		07:16:11
1	Ag 328.068†	116.6	628.7	5.4423 µg/L	5.4423 ppb	07:16:16
1	As 188.979†	15.9	17.4	27.824 µg/L	27.824 ppb	07:16:37
1	B 249.677†	1329.7	977.5	48.011 µg/L	48.011 ppb	07:16:37
1	Ba 233.527†	200.7	217.1	5.1520 µg/L	5.1520 ppb	07:16:37
1	Be 313.107†	6765.2	8009.3	5.1360 µg/L	5.1360 ppb	07:16:16
1	Cd 226.502†	16.9	182.5	4.7711 µg/L	4.7711 ppb	07:16:37
1	Co 228.616†	133.9	101.4	4.7242 µg/L	4.7242 ppb	07:16:37
1	Cr 267.716†	306.2	211.2	5.0433 µg/L	5.0433 ppb	07:16:37
1	Cu 324.752†	5603.5	1416.7	9.9215 µg/L	9.9215 ppb	07:16:16
1	Mn 257.610†	2497.8	3182.4	10.509 µg/L	10.509 ppb	07:16:37
1	Mo 202.031†	116.6	104.4	11.194 µg/L	11.194 ppb	07:16:37
1	Ni 231.604†	459.6	96.1	5.8308 µg/L	5.8308 ppb	07:16:37
1	P 214.914†	370.2	76.6	138.06 µg/L	138.06 ppb	07:16:37
1	Pb 220.353†	84.5	49.3	14.027 µg/L	14.027 ppb	07:16:37
1	S 181.975 Axial†	54.2	30.8	105.99 µg/L	105.99 ppb	07:16:37
1	Sb 206.836†	35.1	8.3	8.1712 µg/L	8.1712 ppb	07:16:37
1	Se 196.026†	61.9	41.0	41.918 µg/L	41.918 ppb	07:16:37
1	SiO2†	3761.6	1057.9	205.41 µg/L	205.41 ppb	07:16:37
1	Si 251.611†	1812.2	1389.7	101.44 µg/L	101.44 ppb	07:16:37
1	Sn 189.927†	25.3	28.7	12.337 µg/L	12.337 ppb	07:16:37
1	Ti 334.940†	1357.8	1980.1	4.9918 µg/L	4.9918 ppb	07:16:16
1	Tl 190.801†	-16.9	14.0	14.968 µg/L	14.968 ppb	07:16:37
1	U 409.014†	514.2	526.0	50.799 µg/L	50.799 ppb	07:16:16
1	V 292.402†	501.8	363.1	4.8215 µg/L	4.8215 ppb	07:16:16
1	Zn 213.857†	1058.6	497.1	12.248 µg/L	12.248 ppb	07:16:37
2	Sc RADIAL	86202.0	86202.0	101 %		07:15:14
2	Al 396.153Radial†	307.5	412.1	215.86 µg/L	215.86 ppb	07:15:14
2	Ca 317.933Radial†	845.0	520.1	208.41 µg/L	208.41 ppb	07:15:35
2	Fe 238.204 Radial†	19.2	6.3	79.275 µg/L	79.275 ppb	07:15:35
2	K 766.490 Radial†	428.9	306.5	151.60 µg/L	151.60 ppb	07:15:14
2	Mg 279.077 IEC†	30.8	21.4	301.56 µg/L	301.56 ppb	07:15:35
2	Na 589.592 Radial†	784.6	619.3	306.24 µg/L	306.24 ppb	07:15:14
2	Sr 421.552†	978.8	853.9	5.3405 µg/L	5.3405 ppb	07:15:14
2	Sc 361.383	1868477.8	1868477.8	101.43 %		07:16:43
2	Y 371.029	1299562.0	1299562.0	101.50 %		07:16:43
2	Ag 328.068†	93.6	606.1	5.2422 µg/L	5.2422 ppb	07:16:49
2	As 188.979†	14.9	16.4	26.189 µg/L	26.189 ppb	07:17:09
2	B 249.677†	1328.2	976.8	47.982 µg/L	47.982 ppb	07:17:09
2	Ba 233.527†	212.2	228.6	5.4235 µg/L	5.4235 ppb	07:17:09
2	Be 313.107†	6785.7	8033.5	5.1515 µg/L	5.1515 ppb	07:16:49
2	Cd 226.502†	23.4	188.9	4.9387 µg/L	4.9387 ppb	07:17:09
2	Co 228.616†	132.4	100.0	4.6567 µg/L	4.6567 ppb	07:17:09
2	Cr 267.716†	315.4	220.4	5.2644 µg/L	5.2644 ppb	07:17:09
2	Cu 324.752†	5560.9	1378.1	9.6485 µg/L	9.6485 ppb	07:16:49
2	Mn 257.610†	2484.7	3170.9	10.469 µg/L	10.469 ppb	07:17:09
2	Mo 202.031†	114.4	102.2	10.960 µg/L	10.960 ppb	07:17:09
2	Ni 231.604†	437.5	74.6	4.5237 µg/L	4.5237 ppb	07:17:09
2	P 214.914†	372.7	79.4	143.00 µg/L	143.00 ppb	07:17:09
2	Pb 220.353†	79.9	44.9	12.751 µg/L	12.751 ppb	07:17:09

2	S 181.975 Axial†	56.0	32.5	112.11 µg/L	112.11 ppb	07:17:09
2	Sb 206.836†	35.1	8.4	8.2079 µg/L	8.2079 ppb	07:17:09
2	Se 196.026†	52.1	31.4	32.031 µg/L	32.031 ppb	07:17:09
2	SiO2†	3713.9	1013.1	196.71 µg/L	196.71 ppb	07:17:09
2	Si 251.611†	1774.5	1353.7	98.808 µg/L	98.808 ppb	07:17:09
2	Sn 189.927†	18.5	22.0	9.4627 µg/L	9.4627 ppb	07:17:09
2	Ti 334.940†	1415.5	2037.8	5.1358 µg/L	5.1358 ppb	07:16:49
2	Tl 190.801†	-12.8	18.0	19.256 µg/L	19.256 ppb	07:17:09
2	U 409.014†	563.1	574.5	55.489 µg/L	55.489 ppb	07:16:49
2	V 292.402†	445.7	308.1	4.1173 µg/L	4.1173 ppb	07:16:49
2	Zn 213.857†	1047.3	486.6	11.995 µg/L	11.995 ppb	07:17:09
3	Sc RADIAL	87453.1	87453.1	102 %		07:15:40
3	Al 396.153Radial†	299.2	399.6	209.35 µg/L	209.35 ppb	07:15:40
3	Ca 317.933Radial†	858.7	521.5	208.96 µg/L	208.96 ppb	07:16:01
3	Fe 238.204 Radial†	20.3	7.1	89.129 µg/L	89.129 ppb	07:16:01
3	K 766.490 Radial†	436.7	307.9	152.34 µg/L	152.34 ppb	07:15:40
3	Mg 279.077 IEC†	34.2	24.3	341.73 µg/L	341.73 ppb	07:16:01
3	Na 589.592 Radial†	803.1	626.3	309.70 µg/L	309.70 ppb	07:15:40
3	Sr 421.552†	971.5	832.9	5.2090 µg/L	5.2090 ppb	07:15:40
3	Sc 361.383	1859133.7	1859133.7	100.92 %		07:17:15
3	Y 371.029	1292608.5	1292608.5	100.95 %		07:17:15
3	Ag 328.068†	8.4	522.2	4.5238 µg/L	4.5238 ppb	07:17:21
3	As 188.979†	10.6	12.1	19.435 µg/L	19.435 ppb	07:17:42
3	B 249.677†	1196.0	852.4	41.860 µg/L	41.860 ppb	07:17:42
3	Ba 233.527†	168.6	186.4	4.4239 µg/L	4.4239 ppb	07:17:42
3	Be 313.107†	6134.9	7422.2	4.7594 µg/L	4.7594 ppb	07:17:21
3	Cd 226.502†	-7.9	158.0	4.1289 µg/L	4.1289 ppb	07:17:42
3	Co 228.616†	128.9	97.3	4.5271 µg/L	4.5271 ppb	07:17:42
3	Cr 267.716†	266.9	173.9	4.1535 µg/L	4.1535 ppb	07:17:42
3	Cu 324.752†	5471.4	1316.9	9.2228 µg/L	9.2228 ppb	07:17:21
3	Mn 257.610†	2010.2	2713.1	8.9530 µg/L	8.9530 ppb	07:17:42
3	Mo 202.031†	92.8	81.5	8.7349 µg/L	8.7349 ppb	07:17:42
3	Ni 231.604†	436.3	75.6	4.5861 µg/L	4.5861 ppb	07:17:42
3	P 214.914†	366.9	75.4	135.76 µg/L	135.76 ppb	07:17:42
3	Pb 220.353†	80.4	45.7	12.984 µg/L	12.984 ppb	07:17:42
3	S 181.975 Axial†	46.3	23.3	80.231 µg/L	80.231 ppb	07:17:42
3	Sb 206.836†	29.0	2.5	2.4702 µg/L	2.4702 ppb	07:17:42
3	Se 196.026†	42.0	21.6	22.020 µg/L	22.020 ppb	07:17:42
3	SiO2†	3574.0	892.9	173.37 µg/L	173.37 ppb	07:17:42
3	Si 251.611†	1619.8	1209.2	88.259 µg/L	88.259 ppb	07:17:42
3	Sn 189.927†	14.0	17.6	7.5797 µg/L	7.5797 ppb	07:17:42
3	Ti 334.940†	1309.1	1939.3	4.8835 µg/L	4.8835 ppb	07:17:21
3	Tl 190.801†	-17.7	13.0	13.966 µg/L	13.966 ppb	07:17:42
3	U 409.014†	497.5	512.3	49.478 µg/L	49.478 ppb	07:17:21
3	V 292.402†	475.0	339.3	4.4924 µg/L	4.4924 ppb	07:17:21
3	Zn 213.857†	970.9	416.1	10.246 µg/L	10.246 ppb	07:17:42

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1865736.7	101.28 %	0.312			0.31%
Sc RADIAL	86591.8	101 %	0.9			0.86%
Y 371.029	1297908.5	101.37 %	0.367			0.36%
Ag 328.068†	585.7	5.0694 µg/L	0.48301	5.0694 ppb	0.48301	9.53%
QC value within limits for Ag 328.068 Recovery = 101.39%						
Al 396.153Radial†	401.3	210.24 µg/L	5.234	210.24 ppb	5.234	2.49%
QC value within limits for Al 396.153Radial Recovery = 105.12%						
As 188.979†	15.3	24.483 µg/L	4.4468	24.483 ppb	4.4468	18.16%
QC value within limits for As 188.979 Recovery = 81.61%						
B 249.677†	935.6	45.951 µg/L	3.5431	45.951 ppb	3.5431	7.71%
QC value within limits for B 249.677 Recovery = 91.90%						
Ba 233.527†	210.7	4.9998 µg/L	0.51685	4.9998 ppb	0.51685	10.34%
QC value within limits for Ba 233.527 Recovery = 100.00%						
Be 313.107†	7821.7	5.0156 µg/L	0.22200	5.0156 ppb	0.22200	4.43%
QC value within limits for Be 313.107 Recovery = 100.31%						
Ca 317.933Radial†	522.0	209.19 µg/L	0.912	209.19 ppb	0.912	0.44%
QC value within limits for Ca 317.933Radial Recovery = 104.59%						
Cd 226.502†	176.5	4.6129 µg/L	0.42744	4.6129 ppb	0.42744	9.27%
QC value within limits for Cd 226.502 Recovery = 92.26%						
Co 228.616†	99.6	4.6360 µg/L	0.10012	4.6360 ppb	0.10012	2.16%

QC value within limits for Co 228.616	Recovery = 92.72%			
Cr 267.716†	201.8	4.8204 µg/L	0.58804	4.8204 ppb
QC value within limits for Cr 267.716	Recovery = 96.41%			
Cu 324.752†	1370.6	9.5976 µg/L	0.35210	9.5976 ppb
QC value within limits for Cu 324.752	Recovery = 95.98%			
Fe 238.204 Radial†	7.0	87.866 µg/L	8.0341	87.866 ppb
QC value within limits for Fe 238.204 Radial	Recovery = 87.87%			
K 766.490 Radial†	295.7	146.30 µg/L	9.821	146.30 ppb
QC value within limits for K 766.490 Radial	Recovery = 97.54%			
Mg 279.077 IEC†	21.8	306.85 µg/L	32.563	306.85 ppb
QC value within limits for Mg 279.077 IEC	Recovery = 102.28%			
Mn 257.610†	3022.1	9.9771 µg/L	0.88709	9.9771 ppb
QC value within limits for Mn 257.610	Recovery = 99.77%			
Mo 202.031†	96.0	10.296 µg/L	1.3571	10.296 ppb
QC value within limits for Mo 202.031	Recovery = 102.96%			
Na 589.592 Radial†	620.0	306.59 µg/L	2.955	306.59 ppb
QC value within limits for Na 589.592 Radial	Recovery = 102.20%			
Ni 231.604†	82.1	4.9802 µg/L	0.73732	4.9802 ppb
QC value within limits for Ni 231.604	Recovery = 99.60%			
P 214.914†	77.1	138.94 µg/L	3.697	138.94 ppb
QC value within limits for P 214.914	Recovery = 92.63%			
Pb 220.353†	46.6	13.254 µg/L	0.6795	13.254 ppb
QC value greater than the upper limit for Pb 220.353	Recovery = 132.54%			
S 181.975 Axial†	28.9	99.444 µg/L	16.9180	99.444 ppb
QC value within limits for S 181.975 Axial	Recovery = 99.44%			
Sb 206.836†	6.4	6.2831 µg/L	3.30213	6.2831 ppb
QC value less than the lower limit for Sb 206.836	Recovery = 62.83%			
Se 196.026†	31.4	31.990 µg/L	9.9491	31.990 ppb
QC value within limits for Se 196.026	Recovery = 106.63%			
SiO2†	987.9	191.83 µg/L	16.568	191.83 ppb
QC value within limits for SiO2	Recovery = 90.06%			
Si 251.611†	1317.5	96.168 µg/L	6.9740	96.168 ppb
QC value within limits for Si 251.611	Recovery = 96.17%			
Sn 189.927†	22.7	9.7930 µg/L	2.39563	9.7930 ppb
QC value within limits for Sn 189.927	Recovery = 97.93%			
Sr 421.552†	835.4	5.2246 µg/L	0.10890	5.2246 ppb
QC value within limits for Sr 421.552	Recovery = 104.49%			
Ti 334.940†	1985.7	5.0037 µg/L	0.12656	5.0037 ppb
QC value within limits for Ti 334.940	Recovery = 100.07%			
Tl 190.801†	15.0	16.063 µg/L	2.8098	16.063 ppb
QC value within limits for Tl 190.801	Recovery = 80.32%			
U 409.014†	537.6	51.922 µg/L	3.1592	51.922 ppb
QC value within limits for U 409.014	Recovery = 103.84%			
V 292.402†	336.8	4.4771 µg/L	0.35232	4.4771 ppb
QC value within limits for V 292.402	Recovery = 89.54%			
Zn 213.857†	466.6	11.497 µg/L	1.0902	11.497 ppb
QC value within limits for Zn 213.857	Recovery = 114.97%			
QC Failed. Continue with analysis.				

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/17/2010 07:17:51

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	84605.3	84605.3	98.6 %		07:18:30
1	Al 396.153Radial†	1014870.3	1028923.1	539550 µg/L	539550 ppb	07:18:24
1	Ca 317.933Radial†	1221724.3	1238192.9	496150 µg/L	496150 ppb	07:18:24
1	Fe 238.204 Radial†	14404.0	14589.2	182430 µg/L	182430 ppb	07:18:30
1	K 766.490 Radial†	40.4	-79.3	-39.239 µg/L	-39.239 ppb	07:18:30
1	Mg 279.077 IEC†	34614.0	35080.5	493230 µg/L	493230 ppb	07:18:30
1	Na 589.592 Radial†	153.2	-6.0	-2.9646 µg/L	-2.9646 ppb	07:18:30
1	Sr 421.552†	725.8	615.9	3.8517 µg/L	3.8517 ppb	07:18:30
1	Sc 361.383	1760373.7	1760373.7	95.560 %		07:19:05
1	Y 371.029	1210935.9	1210935.9	94.576 %		07:19:05
1	Ag 328.068†	-2164.9	-1751.6	-0.8654 µg/L	-0.8654 ppb	07:19:26
1	As 188.979†	19.9	22.5	-46.916 µg/L	-46.916 ppb	07:19:26
1	B 249.677†	1302.1	1029.9	-44.566 µg/L	-44.566 ppb	07:19:05
1	Ba 233.527†	269.4	301.3	7.1829 µg/L	7.1829 ppb	07:19:26
1	Be 313.107†	-1904.0	-649.1	-0.4280 µg/L	-0.4280 ppb	07:19:05
1	Cd 226.502†	775.9	977.7	4.9698 µg/L	4.9698 ppb	07:19:26
1	Co 228.616†	86.5	60.0	2.7248 µg/L	2.7248 ppb	07:19:26
1	Cr 267.716†	11.4	-78.6	-1.8599 µg/L	-1.8599 ppb	07:19:26
1	Cu 324.752†	-1145.9	-5303.7	-2.7787 µg/L	-2.7787 ppb	07:19:26
1	Mn 257.610†	5814.0	6805.3	0.0448 µg/L	0.0448 ppb	07:19:05
1	Mo 202.031†	-55.2	-68.3	-0.3850 µg/L	-0.3850 ppb	07:19:26
1	Ni 231.604†	294.7	-48.3	-0.5665 µg/L	-0.5665 ppb	07:19:26
1	P 214.914†	292.8	18.3	43.623 µg/L	43.623 ppb	07:19:26
1	Pb 220.353†	-96.4	-134.8	5.1404 µg/L	5.1404 ppb	07:19:26
1	S 181.975 Axial†	-15.1	-38.5	-132.60 µg/L	-132.60 ppb	07:19:26
1	Sb 206.836†	23.2	-2.0	-9.4716 µg/L	-9.4716 ppb	07:19:26
1	Se 196.026†	-153.2	-180.3	-14.488 µg/L	-14.488 ppb	07:19:26
1	SiO2†	2417.2	-119.0	-23.097 µg/L	-23.097 ppb	07:19:26
1	Si 251.611†	494.8	121.9	8.8985 µg/L	8.8985 ppb	07:19:26
1	Sn 189.927†	-104.0	-105.1	5.6428 µg/L	5.6428 ppb	07:19:26
1	Ti 334.940†	10875.3	12022.7	-0.7187 µg/L	-0.7187 ppb	07:19:05
1	Tl 190.801†	-23.2	6.3	-32.484 µg/L	-32.484 ppb	07:19:26
1	U 409.014†	2.9	22.4	-53.458 µg/L	-53.458 ppb	07:19:05
1	V 292.402†	1938.6	1897.4	1.2619 µg/L	1.2619 ppb	07:19:26
1	Zn 213.857†	1855.5	1395.7	-2.0032 µg/L	-2.0032 ppb	07:19:26
2	Sc RADIAL	84334.2	84334.2	98.3 %		07:18:41
2	Al 396.153Radial†	1008106.3	1025351.2	537680 µg/L	537680 ppb	07:18:36
2	Ca 317.933Radial†	1215283.2	1235623.2	495120 µg/L	495120 ppb	07:18:36
2	Fe 238.204 Radial†	14355.2	14586.5	182390 µg/L	182390 ppb	07:18:41
2	K 766.490 Radial†	14.9	-105.2	-52.026 µg/L	-52.026 ppb	07:18:41
2	Mg 279.077 IEC†	34366.6	34941.7	491270 µg/L	491270 ppb	07:18:41
2	Na 589.592 Radial†	173.6	15.2	7.5347 µg/L	7.5347 ppb	07:18:41
2	Sr 421.552†	681.8	573.5	3.5867 µg/L	3.5867 ppb	07:18:41
2	Sc 361.383	1763867.6	1763867.6	95.750 %		07:19:34
2	Y 371.029	1214318.3	1214318.3	94.840 %		07:19:34
2	Ag 328.068†	-2180.7	-1763.6	-0.9711 µg/L	-0.9711 ppb	07:19:55
2	As 188.979†	29.5	32.4	-30.762 µg/L	-30.762 ppb	07:19:55
2	B 249.677†	1361.7	1089.5	-41.619 µg/L	-41.619 ppb	07:19:34
2	Ba 233.527†	295.6	328.1	7.8172 µg/L	7.8172 ppb	07:19:55
2	Be 313.107†	-1849.7	-588.4	-0.3891 µg/L	-0.3891 ppb	07:19:34
2	Cd 226.502†	794.3	995.4	5.4369 µg/L	5.4369 ppb	07:19:55
2	Co 228.616†	101.8	75.8	3.4581 µg/L	3.4581 ppb	07:19:55
2	Cr 267.716†	6.3	-83.9	-1.9882 µg/L	-1.9882 ppb	07:19:55
2	Cu 324.752†	-1129.1	-5283.7	-2.6457 µg/L	-2.6457 ppb	07:19:55
2	Mn 257.610†	5910.3	6893.9	0.4671 µg/L	0.4671 ppb	07:19:34
2	Mo 202.031†	-67.6	-81.2	-1.7675 µg/L	-1.7675 ppb	07:19:55
2	Ni 231.604†	293.1	-50.6	-0.7083 µg/L	-0.7083 ppb	07:19:55
2	P 214.914†	302.6	27.9	60.563 µg/L	60.563 ppb	07:19:55
2	Pb 220.353†	-90.1	-128.0	6.9312 µg/L	6.9312 ppb	07:19:55

2	S 181.975 Axial†	-20.5	-44.0	-151.63 µg/L	-151.63 ppb	07:19:55
2	Sb 206.836†	33.7	8.9	1.0948 µg/L	1.0948 ppb	07:19:55
2	Se 196.026†	-153.3	-180.1	-12.878 µg/L	-12.878 ppb	07:19:55
2	SiO2†	2408.2	-133.4	-25.908 µg/L	-25.908 ppb	07:19:55
2	Si 251.611†	491.1	117.1	8.5466 µg/L	8.5466 ppb	07:19:55
2	Sn 189.927†	-90.1	-90.4	11.862 µg/L	11.862 ppb	07:19:55
2	Ti 334.940†	10915.7	12042.4	-0.5308 µg/L	-0.5308 ppb	07:19:34
2	Tl 190.801†	-13.1	16.9	-21.159 µg/L	-21.159 ppb	07:19:55
2	U 409.014†	-92.5	-77.2	-63.011 µg/L	-63.011 ppb	07:19:34
2	V 292.402†	1944.6	1899.6	1.2738 µg/L	1.2738 ppb	07:19:55
2	Zn 213.857†	1853.9	1390.2	-2.0276 µg/L	-2.0276 ppb	07:19:55
3	Sc RADIAL	84493.7	84493.7	98.5 %		07:18:53
3	Al 396.153Radial†	1015093.4	1030508.4	540380 µg/L	540380 ppb	07:18:47
3	Ca 317.933Radial†	1222490.3	1240606.3	497120 µg/L	497120 ppb	07:18:47
3	Fe 238.204 Radial†	14377.0	14581.0	182330 µg/L	182330 ppb	07:18:53
3	K 766.490 Radial†	28.8	-91.0	-45.032 µg/L	-45.032 ppb	07:18:53
3	Mg 279.077 IEC†	34455.0	34965.4	491610 µg/L	491610 ppb	07:18:53
3	Na 589.592 Radial†	195.3	36.9	18.224 µg/L	18.224 ppb	07:18:53
3	Sr 421.552†	720.7	611.6	3.8251 µg/L	3.8251 ppb	07:18:53
3	Sc 361.383	1758500.8	1758500.8	95.459 %		07:20:03
3	Y 371.029	1211610.8	1211610.8	94.629 %		07:20:03
3	Ag 328.068†	-2155.9	-1744.6	-0.8134 µg/L	-0.8134 ppb	07:20:24
3	As 188.979†	26.6	29.6	-35.565 µg/L	-35.565 ppb	07:20:24
3	B 249.677†	1347.3	1078.7	-42.116 µg/L	-42.116 ppb	07:20:03
3	Ba 233.527†	278.1	310.7	7.4048 µg/L	7.4048 ppb	07:20:24
3	Be 313.107†	-1790.1	-531.9	-0.3529 µg/L	-0.3529 ppb	07:20:03
3	Cd 226.502†	787.0	990.3	5.3092 µg/L	5.3092 ppb	07:20:24
3	Co 228.616†	93.2	67.2	3.0554 µg/L	3.0554 ppb	07:20:24
3	Cr 267.716†	12.2	-77.8	-1.8406 µg/L	-1.8406 ppb	07:20:24
3	Cu 324.752†	-1143.8	-5302.7	-2.7913 µg/L	-2.7913 ppb	07:20:24
3	Mn 257.610†	5876.8	6877.6	0.3868 µg/L	0.3868 ppb	07:20:03
3	Mo 202.031†	-71.3	-85.3	-2.2098 µg/L	-2.2098 ppb	07:20:24
3	Ni 231.604†	281.2	-62.2	-1.4116 µg/L	-1.4116 ppb	07:20:24
3	P 214.914†	300.3	26.4	58.757 µg/L	58.757 ppb	07:20:24
3	Pb 220.353†	-103.6	-142.5	3.0099 µg/L	3.0099 ppb	07:20:24
3	S 181.975 Axial†	-22.2	-45.9	-158.09 µg/L	-158.09 ppb	07:20:24
3	Sb 206.836†	30.1	5.2	-2.5086 µg/L	-2.5086 ppb	07:20:24
3	Se 196.026†	-147.0	-173.9	-7.2894 µg/L	-7.2894 ppb	07:20:24
3	SiO2†	2397.7	-136.7	-26.540 µg/L	-26.540 ppb	07:20:24
3	Si 251.611†	489.1	116.5	8.5037 µg/L	8.5037 ppb	07:20:24
3	Sn 189.927†	-101.3	-102.4	6.8822 µg/L	6.8822 ppb	07:20:24
3	Ti 334.940†	11005.7	12171.5	-0.1989 µg/L	-0.1989 ppb	07:20:03
3	Tl 190.801†	-2.6	27.8	-9.7873 µg/L	-9.7873 ppb	07:20:24
3	U 409.014†	-70.4	-54.4	-60.923 µg/L	-60.923 ppb	07:20:03
3	V 292.402†	1931.3	1891.8	1.1812 µg/L	1.1812 ppb	07:20:24
3	Zn 213.857†	1862.8	1405.5	-1.6612 µg/L	-1.6612 ppb	07:20:24

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1760914.0	95.590 %	0.1479			0.15%
Sc RADIAL	84477.8	98.5 %	0.16			0.16%
Y 371.029	1212288.3	94.682 %	0.1398			0.15%
Ag 328.068†	-1753.3	-0.8833 µg/L	0.08037	-0.8833 ppb	0.08037	9.10%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1028260.9	539200 µg/L	1385.2	539200 ppb	1385.2	0.26%
QC value within limits for Al 396.153Radial Recovery = 107.84%						
As 188.979†	28.2	-37.748 µg/L	8.2952	-37.748 ppb	8.2952	21.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	1066.0	-42.767 µg/L	1.5778	-42.767 ppb	1.5778	3.69%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	313.4	7.4683 µg/L	0.32186	7.4683 ppb	0.32186	4.31%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-589.8	-0.3900 µg/L	0.03754	-0.3900 ppb	0.03754	9.62%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	1238140.9	496130 µg/L	998.5	496130 ppb	998.5	0.20%
QC value within limits for Ca 317.933Radial Recovery = 99.23%						
Cd 226.502†	987.8	5.2386 µg/L	0.24139	5.2386 ppb	0.24139	4.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	67.7	3.0794 µg/L	0.36726	3.0794 ppb	0.36726	11.93%

QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-80.1	-1.8962 µg/L	0.08020	-1.8962 ppb	0.08020 4.23%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-5296.7	-2.7385 µg/L	0.08068	-2.7385 ppb	0.08068 2.95%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	14585.6	182380 µg/L	52.3	182380 ppb	52.3 0.03%
QC value within limits for Fe 238.204 Radial Recovery = 91.19%					
K 766.490 Radial†	-91.8	-45.432 µg/L	6.4032	-45.432 ppb	6.4032 14.09%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	34995.8	492030 µg/L	1044.6	492030 ppb	1044.6 0.21%
QC value within limits for Mg 279.077 IEC Recovery = 98.41%					
Mn 257.610†	6858.9	0.2996 µg/L	0.22428	0.2996 ppb	0.22428 74.87%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-78.2	-1.4541 µg/L	0.95194	-1.4541 ppb	0.95194 65.47%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	15.4	7.5982 µg/L	10.59464	7.5982 ppb	10.59464 139.44%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-53.7	-0.8955 µg/L	0.45255	-0.8955 ppb	0.45255 50.54%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	24.2	54.315 µg/L	9.3028	54.315 ppb	9.3028 17.13%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-135.1	5.0271 µg/L	1.96310	5.0271 ppb	1.96310 39.05%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-42.8	-147.44 µg/L	13.252	-147.44 ppb	13.252 8.99%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	4.1	-3.6285 µg/L	5.37148	-3.6285 ppb	5.37148 148.04%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-178.1	-11.552 µg/L	3.7781	-11.552 ppb	3.7781 32.71%
QC value within limits for Se 196.026 Recovery = Not calculated					
SiO2†	-129.7	-25.182 µg/L	1.8331	-25.182 ppb	1.8331 7.28%
QC value within limits for SiO2 Recovery = Not calculated					
Si 251.611†	118.5	8.6496 µg/L	0.21664	8.6496 ppb	0.21664 2.50%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-99.3	8.1290 µg/L	3.29172	8.1290 ppb	3.29172 40.49%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	600.3	3.7545 µg/L	0.14591	3.7545 ppb	0.14591 3.89%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	12078.9	-0.4828 µg/L	0.26319	-0.4828 ppb	0.26319 54.51%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	17.0	-21.143 µg/L	11.3484	-21.143 ppb	11.3484 53.67%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-36.4	-59.131 µg/L	5.0225	-59.131 ppb	5.0225 8.49%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	1896.2	1.2390 µg/L	0.05039	1.2390 ppb	0.05039 4.07%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	1397.1	-1.8973 µg/L	0.20484	-1.8973 ppb	0.20484 10.80%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 104
 Date Collected: 3/17/2010 07:20:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	84526.0	84526.0	98.6 %		07:21:11
1	Al 396.153Radial†	1012914.5	1027903.8	539010 µg/L	539010 ppb	07:21:05
1	Ca 317.933Radial†	1217662.7	1235233.6	494970 µg/L	494970 ppb	07:21:05
1	Fe 238.204 Radial†	14415.3	14614.3	182750 µg/L	182750 ppb	07:21:11
1	K 766.490 Radial†	10409.8	10442.5	5165.9 µg/L	5165.9 ppb	07:21:11
1	Mg 279.077 IEC†	34709.9	35210.7	495070 µg/L	495070 ppb	07:21:11
1	Na 589.592 Radial†	10136.7	10124.3	5006.4 µg/L	5006.4 ppb	07:21:11
1	Sr 421.552†	80672.1	81737.6	511.19 µg/L	511.19 ppb	07:21:05
1	Sc 361.383	1750033.2	1750033.2	94.999 %		07:21:48
1	Y 371.029	1206139.7	1206139.7	94.201 %		07:21:48
1	Ag 328.068†	26823.1	28749.0	264.73 µg/L	264.73 ppb	07:21:48
1	As 188.979†	337.0	356.4	488.08 µg/L	488.08 ppb	07:22:09
1	B 249.677†	11354.5	11619.6	476.61 µg/L	476.61 ppb	07:21:48
1	Ba 233.527†	20102.3	21179.9	502.75 µg/L	502.75 ppb	07:22:09
1	Be 313.107†	361974.3	382373.0	245.08 µg/L	245.08 ppb	07:21:48
1	Cd 226.502†	17539.4	18628.5	467.31 µg/L	467.31 ppb	07:22:09
1	Co 228.616†	9208.5	9662.8	449.35 µg/L	449.35 ppb	07:22:09
1	Cr 267.716†	19433.0	20365.5	486.47 µg/L	486.47 ppb	07:22:09
1	Cu 324.752†	74605.8	74428.8	554.65 µg/L	554.65 ppb	07:21:48
1	Mn 257.610†	145910.4	154312.8	487.67 µg/L	487.67 ppb	07:21:48
1	Mo 202.031†	4489.6	4715.4	512.34 µg/L	512.34 ppb	07:22:09
1	Ni 231.604†	7283.3	7309.9	445.80 µg/L	445.80 ppb	07:22:09
1	P 214.914†	1697.9	1499.1	2676.6 µg/L	2676.6 ppb	07:22:09
1	Pb 220.353†	1535.4	1582.3	493.98 µg/L	493.98 ppb	07:22:09
1	S 181.975 Axial†	719.9	735.1	2533.3 µg/L	2533.3 ppb	07:22:09
1	Sb 206.836†	548.6	551.3	529.51 µg/L	529.51 ppb	07:22:09
1	Se 196.026†	2138.6	2231.2	2443.3 µg/L	2443.3 ppb	07:22:09
1	SiO2†	56397.8	56718.3	11013 µg/L	11013 ppb	07:21:48
1	Si 251.611†	67574.8	70736.3	5163.1 µg/L	5163.1 ppb	07:21:48
1	Sn 189.927†	1044.2	1102.9	524.63 µg/L	524.63 ppb	07:22:09
1	Ti 334.940†	204170.2	215560.4	514.15 µg/L	514.15 ppb	07:21:48
1	Tl 190.801†	409.8	462.0	458.11 µg/L	458.11 ppb	07:22:09
1	U 409.014†	4814.2	5087.0	435.93 µg/L	435.93 ppb	07:21:48
1	V 292.402†	39991.8	41965.7	523.53 µg/L	523.53 ppb	07:21:48
1	Zn 213.857†	20138.7	20652.9	471.93 µg/L	471.93 ppb	07:22:09
2	Sc RADIAL	84392.3	84392.3	98.4 %		07:21:23
2	Al 396.153Radial†	1012988.0	1029606.8	539900 µg/L	539900 ppb	07:21:17
2	Ca 317.933Radial†	1217862.6	1237394.3	495830 µg/L	495830 ppb	07:21:17
2	Fe 238.204 Radial†	14490.0	14713.4	183990 µg/L	183990 ppb	07:21:23
2	K 766.490 Radial†	10592.9	10645.2	5266.2 µg/L	5266.2 ppb	07:21:23
2	Mg 279.077 IEC†	34697.1	35253.5	495670 µg/L	495670 ppb	07:21:23
2	Na 589.592 Radial†	10209.0	10214.0	5050.8 µg/L	5050.8 ppb	07:21:23
2	Sr 421.552†	80700.3	81895.9	512.18 µg/L	512.18 ppb	07:21:17
2	Sc 361.383	1750726.1	1750726.1	95.037 %		07:22:18
2	Y 371.029	1207212.7	1207212.7	94.285 %		07:22:18
2	Ag 328.068†	26667.5	28574.1	263.32 µg/L	263.32 ppb	07:22:18
2	As 188.979†	332.1	351.1	479.35 µg/L	479.35 ppb	07:22:39
2	B 249.677†	11406.6	11669.7	478.42 µg/L	478.42 ppb	07:22:18
2	Ba 233.527†	20045.3	21111.6	501.13 µg/L	501.13 ppb	07:22:39
2	Be 313.107†	362254.7	382517.2	245.17 µg/L	245.17 ppb	07:22:18
2	Cd 226.502†	17515.0	18595.6	466.31 µg/L	466.31 ppb	07:22:39
2	Co 228.616†	9183.0	9632.1	447.91 µg/L	447.91 ppb	07:22:39
2	Cr 267.716†	19360.1	20280.7	484.45 µg/L	484.45 ppb	07:22:39
2	Cu 324.752†	74645.5	74439.4	554.96 µg/L	554.96 ppb	07:22:18
2	Mn 257.610†	146040.2	154388.6	487.95 µg/L	487.95 ppb	07:22:18
2	Mo 202.031†	4490.5	4714.5	512.29 µg/L	512.29 ppb	07:22:39
2	Ni 231.604†	7272.0	7295.0	444.91 µg/L	444.91 ppb	07:22:39
2	P 214.914†	1674.7	1474.1	2630.4 µg/L	2630.4 ppb	07:22:39
2	Pb 220.353†	1528.8	1574.8	491.92 µg/L	491.92 ppb	07:22:39

2	S 181.975 Axial†	723.9	739.1	2546.8 µg/L	2546.8 ppb	07:22:39
2	Sb 206.836†	544.1	546.3	524.70 µg/L	524.70 ppb	07:22:39
2	Se 196.026†	2139.3	2231.0	2446.6 µg/L	2446.6 ppb	07:22:39
2	SiO2†	56512.9	56815.9	11032 µg/L	11032 ppb	07:22:18
2	Si 251.611†	67670.6	70808.9	5168.4 µg/L	5168.4 ppb	07:22:18
2	Sn 189.927†	1037.6	1095.5	521.55 µg/L	521.55 ppb	07:22:39
2	Ti 334.940†	205087.8	216440.9	516.35 µg/L	516.35 ppb	07:22:18
2	Tl 190.801†	408.5	460.5	456.55 µg/L	456.55 ppb	07:22:39
2	U 409.014†	4810.7	5081.3	435.16 µg/L	435.16 ppb	07:22:18
2	V 292.402†	39967.1	41923.1	522.82 µg/L	522.82 ppb	07:22:18
2	Zn 213.857†	20149.1	20655.4	471.91 µg/L	471.91 ppb	07:22:39
3	Sc RADIAL	84794.3	84794.3	98.9 %		07:21:34
3	Al 396.153Radial†	1006724.5	1018390.7	534020 µg/L	534020 ppb	07:21:29
3	Ca 317.933Radial†	1210087.2	1223661.8	490330 µg/L	490330 ppb	07:21:29
3	Fe 238.204 Radial†	14496.4	14650.0	183200 µg/L	183200 ppb	07:21:34
3	K 766.490 Radial†	10502.1	10502.4	5195.5 µg/L	5195.5 ppb	07:21:34
3	Mg 279.077 IEC†	34737.3	35127.0	493890 µg/L	493890 ppb	07:21:34
3	Na 589.592 Radial†	10186.8	10142.4	5015.4 µg/L	5015.4 ppb	07:21:34
3	Sr 421.552†	80276.5	81078.3	507.07 µg/L	507.07 ppb	07:21:29
3	Sc 361.383	1754735.7	1754735.7	95.254 %		07:22:48
3	Y 371.029	1210919.3	1210919.3	94.575 %		07:22:48
3	Ag 328.068†	26858.1	28710.0	264.43 µg/L	264.43 ppb	07:22:48
3	As 188.979†	336.3	354.7	485.96 µg/L	485.96 ppb	07:23:09
3	B 249.677†	11447.2	11684.9	479.58 µg/L	479.58 ppb	07:22:48
3	Ba 233.527†	20036.4	21054.0	499.77 µg/L	499.77 ppb	07:23:09
3	Be 313.107†	362941.5	382367.3	245.08 µg/L	245.08 ppb	07:22:48
3	Cd 226.502†	17536.3	18575.8	465.88 µg/L	465.88 ppb	07:23:09
3	Co 228.616†	9159.0	9584.8	445.72 µg/L	445.72 ppb	07:23:09
3	Cr 267.716†	19387.9	20263.3	484.03 µg/L	484.03 ppb	07:23:09
3	Cu 324.752†	74881.1	74507.3	555.28 µg/L	555.28 ppb	07:22:48
3	Mn 257.610†	146477.0	154496.0	488.38 µg/L	488.38 ppb	07:22:48
3	Mo 202.031†	4498.4	4712.0	511.99 µg/L	511.99 ppb	07:23:09
3	Ni 231.604†	7255.3	7260.0	442.77 µg/L	442.77 ppb	07:23:09
3	P 214.914†	1680.4	1476.0	2632.8 µg/L	2632.8 ppb	07:23:09
3	Pb 220.353†	1535.5	1578.1	492.42 µg/L	492.42 ppb	07:23:09
3	S 181.975 Axial†	716.2	729.2	2512.8 µg/L	2512.8 ppb	07:23:09
3	Sb 206.836†	550.8	552.0	530.29 µg/L	530.29 ppb	07:23:09
3	Se 196.026†	2132.8	2219.1	2433.8 µg/L	2433.8 ppb	07:23:09
3	SiO2†	56645.6	56819.3	11033 µg/L	11033 ppb	07:22:48
3	Si 251.611†	67907.4	70894.9	5174.7 µg/L	5174.7 ppb	07:22:48
3	Sn 189.927†	1043.3	1099.0	522.51 µg/L	522.51 ppb	07:23:09
3	Ti 334.940†	204677.7	215517.3	514.06 µg/L	514.06 ppb	07:22:48
3	Tl 190.801†	408.6	459.5	456.16 µg/L	456.16 ppb	07:23:09
3	U 409.014†	4840.8	5101.4	437.54 µg/L	437.54 ppb	07:22:48
3	V 292.402†	40070.9	41935.9	523.09 µg/L	523.09 ppb	07:22:48
3	Zn 213.857†	20136.0	20593.3	470.52 µg/L	470.52 ppb	07:23:09

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1751831.7	95.097 %	0.1378			0.14%
Sc RADIAL	84570.9	98.6 %	0.24			0.24%
Y 371.029	1208090.6	94.354 %	0.1959			0.21%
Ag 328.068†	28677.7	264.16 µg/L	0.743	264.16 ppb	0.743	0.28%
QC value within limits for Ag 328.068 Recovery = 105.66%						
Al 396.153Radial†	1025300.5	537640 µg/L	3169.5	537640 ppb	3169.5	0.59%
QC value within limits for Al 396.153Radial Recovery = 107.53%						
As 188.979†	354.1	484.47 µg/L	4.554	484.47 ppb	4.554	0.94%
QC value within limits for As 188.979 Recovery = 96.89%						
B 249.677†	11658.0	478.20 µg/L	1.499	478.20 ppb	1.499	0.31%
QC value within limits for B 249.677 Recovery = 95.64%						
Ba 233.527†	21115.2	501.22 µg/L	1.494	501.22 ppb	1.494	0.30%
QC value within limits for Ba 233.527 Recovery = 100.24%						
Be 313.107†	382419.2	245.11 µg/L	0.054	245.11 ppb	0.054	0.02%
QC value within limits for Be 313.107 Recovery = 98.04%						
Ca 317.933Radial†	1232096.6	493710 µg/L	2958.9	493710 ppb	2958.9	0.60%
QC value within limits for Ca 317.933Radial Recovery = 98.74%						
Cd 226.502†	18600.0	466.50 µg/L	0.735	466.50 ppb	0.735	0.16%
QC value within limits for Cd 226.502 Recovery = 93.30%						
Co 228.616†	9626.6	447.66 µg/L	1.829	447.66 ppb	1.829	0.41%

QC value within limits for Co 228.616	Recovery = 89.53%				
Cr 267.716†	20303.1	484.98 µg/L	1.306	484.98 ppb	1.306 0.27%
QC value within limits for Cr 267.716	Recovery = 97.00%				
Cu 324.752†	74458.5	554.96 µg/L	0.316	554.96 ppb	0.316 0.06%
QC value within limits for Cu 324.752	Recovery = 110.99%				
Fe 238.204 Radial†	14659.3	183310 µg/L	627.3	183310 ppb	627.3 0.34%
QC value within limits for Fe 238.204 Radial	Recovery = 91.66%				
K 766.490 Radial†	10530.0	5209.2 µg/L	51.53	5209.2 ppb	51.53 0.99%
QC value within limits for K 766.490 Radial	Recovery = 104.18%				
Mg 279.077 IEC†	35197.1	494870 µg/L	905.0	494870 ppb	905.0 0.18%
QC value within limits for Mg 279.077 IEC	Recovery = 98.97%				
Mn 257.610†	154399.1	488.00 µg/L	0.358	488.00 ppb	0.358 0.07%
QC value within limits for Mn 257.610	Recovery = 97.60%				
Mo 202.031†	4714.0	512.21 µg/L	0.191	512.21 ppb	0.191 0.04%
QC value within limits for Mo 202.031	Recovery = 102.44%				
Na 589.592 Radial†	10160.2	5024.2 µg/L	23.46	5024.2 ppb	23.46 0.47%
QC value within limits for Na 589.592 Radial	Recovery = 100.48%				
Ni 231.604†	7288.3	444.49 µg/L	1.555	444.49 ppb	1.555 0.35%
QC value within limits for Ni 231.604	Recovery = 88.90%				
P 214.914†	1483.1	2646.6 µg/L	26.02	2646.6 ppb	26.02 0.98%
QC value within limits for P 214.914	Recovery = 105.86%				
Pb 220.353†	1578.4	492.77 µg/L	1.071	492.77 ppb	1.071 0.22%
QC value within limits for Pb 220.353	Recovery = 98.55%				
S 181.975 Axial†	734.5	2531.0 µg/L	17.14	2531.0 ppb	17.14 0.68%
QC value within limits for S 181.975 Axial	Recovery = 101.24%				
Sb 206.836†	549.8	528.17 µg/L	3.024	528.17 ppb	3.024 0.57%
QC value within limits for Sb 206.836	Recovery = 105.63%				
Se 196.026†	2227.1	2441.2 µg/L	6.66	2441.2 ppb	6.66 0.27%
QC value within limits for Se 196.026	Recovery = 97.65%				
SiO2†	56784.5	11026 µg/L	11.1	11026 ppb	11.1 0.10%
QC value within limits for SiO2	Recovery = 103.09%				
Si 251.611†	70813.4	5168.7 µg/L	5.80	5168.7 ppb	5.80 0.11%
QC value within limits for Si 251.611	Recovery = 103.37%				
Sn 189.927†	1099.1	522.90 µg/L	1.577	522.90 ppb	1.577 0.30%
QC value within limits for Sn 189.927	Recovery = 104.58%				
Sr 421.552†	81570.6	510.15 µg/L	2.712	510.15 ppb	2.712 0.53%
QC value within limits for Sr 421.552	Recovery = 102.03%				
Ti 334.940†	215839.5	514.85 µg/L	1.293	514.85 ppb	1.293 0.25%
QC value within limits for Ti 334.940	Recovery = 102.97%				
Tl 190.801†	460.7	456.94 µg/L	1.036	456.94 ppb	1.036 0.23%
QC value within limits for Tl 190.801	Recovery = 91.39%				
U 409.014†	5089.9	436.21 µg/L	1.217	436.21 ppb	1.217 0.28%
QC value within limits for U 409.014	Recovery = 87.24%				
V 292.402†	41941.6	523.15 µg/L	0.360	523.15 ppb	0.360 0.07%
QC value within limits for V 292.402	Recovery = 104.63%				
Zn 213.857†	20633.8	471.45 µg/L	0.811	471.45 ppb	0.811 0.17%
QC value within limits for Zn 213.857	Recovery = 94.29%				

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: LR1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 105
 Date Collected: 3/17/2010 07:23:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85034.7	85034.7	99.1 %		07:23:57
1	Al 396.153Radial†	999716.1	1008443.9	528810 µg/L	528810 ppb	07:23:51
1	Ca 317.933Radial†	1205263.9	1215337.5	487000 µg/L	487000 ppb	07:23:51
1	Fe 238.204 Radial†	34473.4	34757.9	434630 µg/L	434630 ppb	07:23:57
1	K 766.490 Radial†	66.9	-52.8	-26.111 µg/L	-26.111 ppb	07:23:57
1	Mg 279.077 IEC†	34308.8	34595.5	486130 µg/L	486130 ppb	07:23:57
1	Na 589.592 Radial†	948500.0	956518.6	473000 µg/L	473000 ppb	07:23:51
1	Sr 421.552†	1998.8	1896.2	11.859 µg/L	11.859 ppb	07:23:57
1	Sc 361.383	1730735.5	1730735.5	93.951 %		07:24:33
1	Y 371.029	1187052.9	1187052.9	92.711 %		07:24:33
1	Ag 328.068†	-4297.2	-4060.1	-1.1667 µg/L	-1.1667 ppb	07:24:33
1	As 188.979†	10.6	13.0	-92.130 µg/L	-92.130 ppb	07:24:54
1	B 249.677†	2604.4	2439.4	-106.86 µg/L	-106.86 ppb	07:24:33
1	Ba 233.527†	605.5	663.8	15.811 µg/L	15.811 ppb	07:24:54
1	Be 313.107†	-8804.8	-8028.3	-5.1644 µg/L	-5.1644 ppb	07:24:33
1	Cd 226.502†	1991.0	2285.0	10.680 µg/L	10.680 ppb	07:24:54
1	Co 228.616†	236.3	221.0	10.196 µg/L	10.196 ppb	07:24:54
1	Cr 267.716†	361.4	294.2	7.0511 µg/L	7.0511 ppb	07:24:54
1	Cu 324.752†	-6985.5	-11539.7	1.0414 µg/L	1.0414 ppb	07:24:54
1	Mn 257.610†	6727.0	7881.3	18.992 µg/L	18.992 ppb	07:24:33
1	Mo 202.031†	-161.8	-182.7	-3.0650 µg/L	-3.0650 ppb	07:24:54
1	Ni 231.604†	227.1	-115.1	-1.3505 µg/L	-1.3505 ppb	07:24:54
1	P 214.914†	453.0	194.1	159.12 µg/L	159.12 ppb	07:24:54
1	Pb 220.353†	-15.0	-49.9	17.057 µg/L	17.057 ppb	07:24:54
1	S 181.975 Axial†	-41.1	-66.4	-228.79 µg/L	-228.79 ppb	07:24:54
1	Sb 206.836†	31.8	7.6	-0.3865 µg/L	-0.3865 ppb	07:24:54
1	Se 196.026†	-350.3	-392.8	576.80 µg/L	576.80 ppb	07:24:54
1	SiO2†	2409.2	-84.2	-16.345 µg/L	-16.345 ppb	07:24:54
1	Si 251.611†	-148.5	-553.9	-40.431 µg/L	-40.431 ppb	07:24:54
1	Sn 189.927†	-88.6	-90.6	9.7443 µg/L	9.7443 ppb	07:24:54
1	Ti 334.940†	13346.6	14848.0	6.8248 µg/L	6.8248 ppb	07:24:33
1	Tl 190.801†	-24.2	4.8	21.252 µg/L	21.252 ppb	07:24:54
1	U 409.014†	147097.5	156587.0	15040 µg/L	15040 ppb	07:24:33
1	V 292.402†	3521.9	3617.3	7.0807 µg/L	7.0807 ppb	07:24:54
1	Zn 213.857†	3237.8	2900.3	23.756 µg/L	23.756 ppb	07:24:54
2	Sc RADIAL	84806.2	84806.2	98.9 %		07:24:09
2	Al 396.153Radial†	1004146.9	1015641.1	532590 µg/L	532590 ppb	07:24:03
2	Ca 317.933Radial†	1210996.1	1224409.4	490630 µg/L	490630 ppb	07:24:03
2	Fe 238.204 Radial†	34364.7	34741.7	434420 µg/L	434420 ppb	07:24:09
2	K 766.490 Radial†	157.5	39.0	19.269 µg/L	19.269 ppb	07:24:09
2	Mg 279.077 IEC†	34212.1	34590.9	486070 µg/L	486070 ppb	07:24:09
2	Na 589.592 Radial†	952900.1	963545.6	476470 µg/L	476470 ppb	07:24:03
2	Sr 421.552†	1951.3	1853.5	11.592 µg/L	11.592 ppb	07:24:09
2	Sc 361.383	1714519.5	1714519.5	93.071 %		07:25:02
2	Y 371.029	1174959.0	1174959.0	91.766 %		07:25:02
2	Ag 328.068†	-4258.1	-4061.3	-1.1888 µg/L	-1.1888 ppb	07:25:02
2	As 188.979†	9.1	11.5	-94.988 µg/L	-94.988 ppb	07:25:23
2	B 249.677†	2509.1	2363.2	-110.50 µg/L	-110.50 ppb	07:25:02
2	Ba 233.527†	605.5	670.0	15.958 µg/L	15.958 ppb	07:25:23
2	Be 313.107†	-8878.1	-8195.6	-5.2717 µg/L	-5.2717 ppb	07:25:02
2	Cd 226.502†	1985.3	2298.9	11.068 µg/L	11.068 ppb	07:25:23
2	Co 228.616†	234.1	221.0	10.197 µg/L	10.197 ppb	07:25:23
2	Cr 267.716†	358.1	294.2	7.0523 µg/L	7.0523 ppb	07:25:23
2	Cu 324.752†	-6992.5	-11617.6	0.4591 µg/L	0.4591 ppb	07:25:23
2	Mn 257.610†	6571.0	7781.4	18.654 µg/L	18.654 ppb	07:25:02
2	Mo 202.031†	-158.8	-181.1	-2.9053 µg/L	-2.9053 ppb	07:25:23
2	Ni 231.604†	244.9	-93.6	-0.0507 µg/L	-0.0507 ppb	07:25:23
2	P 214.914†	456.9	202.7	176.22 µg/L	176.22 ppb	07:25:23
2	Pb 220.353†	-21.4	-56.9	15.330 µg/L	15.330 ppb	07:25:23

2	S 181.975 Axial†	-31.7	-56.7	-195.53 µg/L	-195.53 ppb	07:25:23
2	Sb 206.836†	19.3	-5.5	-13.083 µg/L	-13.083 ppb	07:25:23
2	Se 196.026†	-345.5	-391.2	577.42 µg/L	577.42 ppb	07:25:23
2	SiO2†	2439.4	-27.5	-5.3373 µg/L	-5.3373 ppb	07:25:23
2	Si 251.611†	-138.0	-544.1	-39.712 µg/L	-39.712 ppb	07:25:23
2	Sn 189.927†	-79.4	-81.6	13.942 µg/L	13.942 ppb	07:25:23
2	Ti 334.940†	13215.4	14841.5	6.8707 µg/L	6.8707 ppb	07:25:02
2	Tl 190.801†	-18.9	10.2	26.469 µg/L	26.469 ppb	07:25:23
2	U 409.014†	145845.7	156722.8	15053 µg/L	15053 ppb	07:25:02
2	V 292.402†	3535.1	3666.9	7.7615 µg/L	7.7615 ppb	07:25:23
2	Zn 213.857†	3232.8	2927.5	24.437 µg/L	24.437 ppb	07:25:23
3	Sc RADIAL	85145.3	85145.3	99.3 %		07:24:20
3	Al 396.153Radial†	1004539.7	1011992.4	530670 µg/L	530670 ppb	07:24:15
3	Ca 317.933Radial†	1210297.2	1218827.8	488390 µg/L	488390 ppb	07:24:15
3	Fe 238.204 Radial†	34592.3	34832.5	435560 µg/L	435560 ppb	07:24:20
3	K 766.490 Radial†	115.5	-3.9	-1.9502 µg/L	-1.9502 ppb	07:24:20
3	Mg 279.077 IEC†	34421.2	34663.7	487090 µg/L	487090 ppb	07:24:20
3	Na 589.592 Radial†	953827.4	960641.7	475030 µg/L	475030 ppb	07:24:15
3	Sr 421.552†	2030.3	1925.2	12.040 µg/L	12.040 ppb	07:24:20
3	Sc 361.383	1730615.1	1730615.1	93.945 %		07:25:32
3	Y 371.029	1185936.9	1185936.9	92.623 %		07:25:32
3	Ag 328.068†	-4175.8	-3931.1	0.0194 µg/L	0.0194 ppb	07:25:32
3	As 188.979†	12.0	14.5	-90.044 µg/L	-90.044 ppb	07:25:52
3	B 249.677†	2445.9	2270.9	-115.64 µg/L	-115.64 ppb	07:25:32
3	Ba 233.527†	617.9	677.2	16.128 µg/L	16.128 ppb	07:25:52
3	Be 313.107†	-8763.7	-7985.2	-5.1367 µg/L	-5.1367 ppb	07:25:32
3	Cd 226.502†	2002.8	2297.8	10.909 µg/L	10.909 ppb	07:25:52
3	Co 228.616†	239.5	224.4	10.356 µg/L	10.356 ppb	07:25:52
3	Cr 267.716†	342.8	274.4	6.5803 µg/L	6.5803 ppb	07:25:52
3	Cu 324.752†	-6956.5	-11509.4	1.4290 µg/L	1.4290 ppb	07:25:52
3	Mn 257.610†	6794.0	7953.1	19.220 µg/L	19.220 ppb	07:25:32
3	Mo 202.031†	-164.5	-185.6	-3.3388 µg/L	-3.3388 ppb	07:25:52
3	Ni 231.604†	239.4	-102.0	-0.5431 µg/L	-0.5431 ppb	07:25:52
3	P 214.914†	455.3	196.5	163.19 µg/L	163.19 ppb	07:25:52
3	Pb 220.353†	-8.5	-42.9	19.145 µg/L	19.145 ppb	07:25:52
3	S 181.975 Axial†	-30.8	-55.4	-190.82 µg/L	-190.82 ppb	07:25:52
3	Sb 206.836†	24.2	-0.5	-8.1836 µg/L	-8.1836 ppb	07:25:52
3	Se 196.026†	-357.5	-400.6	571.00 µg/L	571.00 ppb	07:25:52
3	SiO2†	2437.6	-53.8	-10.442 µg/L	-10.442 ppb	07:25:52
3	Si 251.611†	-179.6	-587.0	-42.847 µg/L	-42.847 ppb	07:25:52
3	Sn 189.927†	-104.2	-107.2	2.7304 µg/L	2.7304 ppb	07:25:52
3	Ti 334.940†	13293.4	14792.4	6.6303 µg/L	6.6303 ppb	07:25:32
3	Tl 190.801†	-32.4	-3.9	11.985 µg/L	11.985 ppb	07:25:52
3	U 409.014†	147445.3	156968.2	15076 µg/L	15076 ppb	07:25:32
3	V 292.402†	3584.3	3683.9	7.8568 µg/L	7.8568 ppb	07:25:52
3	Zn 213.857†	3237.6	2900.3	23.653 µg/L	23.653 ppb	07:25:52

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1725290.0	93.656 %	0.5063			0.54%
Sc RADIAL	84995.4	99.1 %	0.20			0.20%
Y 371.029	1182649.6	92.367 %	0.5220			0.57%
Ag 328.068†	-4017.5	-0.7787 µg/L	0.69127	-0.7787 ppb	0.69127	88.77%
Al 396.153Radial†	1012025.8	530690 µg/L	1887.1	530690 ppb	1887.1	0.36%
QC value within limits for Al 396.153Radial Recovery = 106.14%						
As 188.979†	13.0	-92.387 µg/L	2.4823	-92.387 ppb	2.4823	2.69%
B 249.677†	2357.8	-111.00 µg/L	4.408	-111.00 ppb	4.408	3.97%
Ba 233.527†	670.3	15.966 µg/L	0.1585	15.966 ppb	0.1585	0.99%
Be 313.107†	-8069.7	-5.1910 µg/L	0.07132	-5.1910 ppb	0.07132	1.37%
Ca 317.933Radial†	1219524.9	488670 µg/L	1833.6	488670 ppb	1833.6	0.38%
QC value within limits for Ca 317.933Radial Recovery = 97.73%						
Cd 226.502†	2293.9	10.886 µg/L	0.1955	10.886 ppb	0.1955	1.80%
Co 228.616†	222.1	10.249 µg/L	0.0924	10.249 ppb	0.0924	0.90%
Cr 267.716†	287.6	6.8945 µg/L	0.27217	6.8945 ppb	0.27217	3.95%
Cu 324.752†	-11555.6	0.9765 µg/L	0.48821	0.9765 ppb	0.48821	49.99%
Fe 238.204 Radial†	34777.4	434870 µg/L	605.7	434870 ppb	605.7	0.14%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 86.97%						
K 766.490 Radial†	-5.9	-2.9308 µg/L	22.70604	-2.9308 ppb	22.70604	774.73%
Mg 279.077 IEC†	34616.7	486430 µg/L	573.0	486430 ppb	573.0	0.12%

QC value within limits for Mg 279.077 IEC Recovery = 97.29%

Mn 257.610†	7872.0	18.956 µg/L	0.2848	18.956 ppb	0.2848	1.50%
Mo 202.031†	-183.1	-3.1030 µg/L	0.21928	-3.1030 ppb	0.21928	7.07%
Na 589.592 Radial†	960235.3	474830 µg/L	1746.1	474830 ppb	1746.1	0.37%

QC value within limits for Na 589.592 Radial Recovery = 94.97%

Ni 231.604†	-103.6	-0.6481 µg/L	0.65620	-0.6481 ppb	0.65620	101.25%
P 214.914†	197.8	166.18 µg/L	8.932	166.18 ppb	8.932	5.37%
Pb 220.353†	-49.9	17.177 µg/L	1.9103	17.177 ppb	1.9103	11.12%
S 181.975 Axial†	-59.5	-205.05 µg/L	20.695	-205.05 ppb	20.695	10.09%
Sb 206.836†	0.5	-7.2178 µg/L	6.40331	-7.2178 ppb	6.40331	88.72%
Se 196.026†	-394.9	575.07 µg/L	3.544	575.07 ppb	3.544	0.62%
SiO2†	-55.1	-10.708 µg/L	5.5084	-10.708 ppb	5.5084	51.44%
Si 251.611†	-561.7	-40.997 µg/L	1.6423	-40.997 ppb	1.6423	4.01%
Sn 189.927†	-93.2	8.8055 µg/L	5.66436	8.8055 ppb	5.66436	64.33%
Sr 421.552†	1891.6	11.830 µg/L	0.2254	11.830 ppb	0.2254	1.91%
Ti 334.940†	14827.3	6.7753 µg/L	0.12764	6.7753 ppb	0.12764	1.88%
Tl 190.801†	3.7	19.902 µg/L	7.3357	19.902 ppb	7.3357	36.86%
U 409.014†	156759.3	15056 µg/L	18.6	15056 ppb	18.6	0.12%

QC value within limits for U 409.014 Recovery = 100.38%

V 292.402†	3656.0	7.5664 µg/L	0.42326	7.5664 ppb	0.42326	5.59%
Zn 213.857†	2909.4	23.948 µg/L	0.4264	23.948 ppb	0.4264	1.78%

QC Failed. Continue with analysis.

Sequence No.: 12
 Sample ID: LR2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 108
 Date Collected: 3/17/2010 07:26:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87643.8	87643.8	102 %			07:26:41
1	Al 396.153Radial†	799.4	888.5	250.73 µg/L		250.73 ppb	07:26:41
1	Ca 317.933Radial†	482.1	151.2	60.580 µg/L		60.580 ppb	07:27:01
1	Fe 238.204 Radial†	11.3	-1.7	187.99 µg/L		187.99 ppb	07:27:01
1	K 766.490 Radial†	615364.9	602074.1	297850 µg/L		297850 ppb	07:26:35
1	Mg 279.077 IEC†	3.2	-6.0	91.265 µg/L		91.265 ppb	07:27:01
1	Na 589.592 Radial†	1155.3	969.2	479.28 µg/L		479.28 ppb	07:26:41
1	Sr 421.552†	1637026.5	1601869.8	10018 µg/L		10018 ppb	07:26:35
1	Sc 361.383	1844046.3	1844046.3	100.10 %			07:28:30
1	Y 371.029	1265954.7	1265954.7	98.873 %			07:28:30
1	Ag 328.068†	-6589.5	-6069.0	16.262 µg/L		16.262 ppb	07:28:35
1	As 188.979†	6401.3	6396.5	10245 µg/L		10245 ppb	07:28:35
1	B 249.677†	103639.5	103200.8	5113.8 µg/L		5113.8 ppb	07:28:30
1	Ba 233.527†	640548.1	639912.2	15179 µg/L		15179 ppb	07:28:30
1	Be 313.107†	4600332.5	4596969.7	2945.1 µg/L		2945.1 ppb	07:28:30
1	Cd 226.502†	381903.4	381678.5	9998.8 µg/L		9998.8 ppb	07:28:30
1	Co 228.616†	211928.8	211681.5	9847.4 µg/L		9847.4 ppb	07:28:30
1	Cr 267.716†	1068018.2	1066835.1	25472 µg/L		25472 ppb	07:28:30
1	Cu 324.752†	3020874.8	3013679.9	21067 µg/L		21067 ppb	07:28:30
1	Mn 257.610†	2983312.6	2980981.9	9856.5 µg/L		9856.5 ppb	07:28:30
1	Mo 202.031†	97833.0	97722.4	10474 µg/L		10474 ppb	07:28:30
1	Ni 231.604†	167054.6	166526.9	10102 µg/L		10102 ppb	07:28:30
1	P 214.914†	11518.8	11218.9	18276 µg/L		18276 ppb	07:28:35
1	Pb 220.353†	90948.8	90821.8	25852 µg/L		25852 ppb	07:28:30
1	S 181.975 Axial†	15834.4	15795.5	54431 µg/L		54431 ppb	07:28:35
1	Sb 206.836†	11120.9	11083.2	10623 µg/L		10623 ppb	07:28:35
1	Se 196.026†	10151.1	10120.7	10316 µg/L		10316 ppb	07:28:35
1	SiO2†	520541.2	517360.2	100460 µg/L		100460 ppb	07:28:30
1	Si 251.611†	642096.1	641043.4	46790 µg/L		46790 ppb	07:28:30
1	Sn 189.927†	25558.6	25536.1	10973 µg/L		10973 ppb	07:28:35
1	Ti 334.940†	3950534.7	3947135.4	9987.9 µg/L		9987.9 ppb	07:28:30
1	Tl 190.801†	9525.7	9546.5	10251 µg/L		10251 ppb	07:28:35
1	U 409.014†	-1976.2	-1954.8	-188.88 µg/L		-188.88 ppb	07:28:30
1	V 292.402†	805010.1	804055.2	10506 µg/L		10506 ppb	07:28:30
1	Zn 213.857†	610722.0	609551.3	15018 µg/L		15018 ppb	07:28:30
2	Sc RADIAL	87182.7	87182.7	102 %			07:27:13
2	Al 396.153Radial†	782.8	876.3	245.05 µg/L		245.05 ppb	07:27:13
2	Ca 317.933Radial†	501.6	172.8	69.262 µg/L		69.262 ppb	07:27:33
2	Fe 238.204 Radial†	12.2	-0.8	198.92 µg/L		198.92 ppb	07:27:33
2	K 766.490 Radial†	611735.7	601688.8	297650 µg/L		297650 ppb	07:27:07
2	Mg 279.077 IEC†	5.2	-4.1	117.83 µg/L		117.83 ppb	07:27:33
2	Na 589.592 Radial†	951.0	774.2	382.84 µg/L		382.84 ppb	07:27:13
2	Sr 421.552†	1625302.8	1598809.1	9999.0 µg/L		9999.0 ppb	07:27:07
2	Sc 361.383	1855017.1	1855017.1	100.70 %			07:28:52
2	Y 371.029	1275339.0	1275339.0	99.606 %			07:28:52
2	Ag 328.068†	-6395.1	-5837.0	18.182 µg/L		18.182 ppb	07:28:57
2	As 188.979†	6258.1	6216.4	9955.8 µg/L		9955.8 ppb	07:28:57
2	B 249.677†	104389.1	103332.9	5120.1 µg/L		5120.1 ppb	07:28:52
2	Ba 233.527†	643047.5	638609.9	15148 µg/L		15148 ppb	07:28:52
2	Be 313.107†	4618854.5	4588184.4	2939.5 µg/L		2939.5 ppb	07:28:52
2	Cd 226.502†	383866.0	381371.2	9990.8 µg/L		9990.8 ppb	07:28:52
2	Co 228.616†	212628.9	211124.7	9821.5 µg/L		9821.5 ppb	07:28:52
2	Cr 267.716†	1070768.8	1063256.7	25387 µg/L		25387 ppb	07:28:52
2	Cu 324.752†	3032656.8	3007532.8	21024 µg/L		21024 ppb	07:28:52
2	Mn 257.610†	2990656.2	2970649.1	9822.4 µg/L		9822.4 ppb	07:28:52
2	Mo 202.031†	98095.7	97405.3	10440 µg/L		10440 ppb	07:28:52
2	Ni 231.604†	167589.5	166071.2	10074 µg/L		10074 ppb	07:28:52
2	P 214.914†	11126.8	10761.5	17445 µg/L		17445 ppb	07:28:57
2	Pb 220.353†	91432.4	90764.7	25835 µg/L		25835 ppb	07:28:52

2	S 181.975 Axial†	15520.1	15389.9	53033 µg/L	53033 ppb	07:28:57
2	Sb 206.836†	10818.0	10716.7	10268 µg/L	10268 ppb	07:28:57
2	Se 196.026†	9918.9	9830.2	10020 µg/L	10020 ppb	07:28:57
2	SiO2†	524601.5	518317.0	100640 µg/L	100640 ppb	07:28:52
2	Si 251.611†	647466.0	642582.6	46902 µg/L	46902 ppb	07:28:52
2	Sn 189.927†	24676.1	24508.8	10532 µg/L	10532 ppb	07:28:57
2	Ti 334.940†	3964652.1	3937815.1	9964.3 µg/L	9964.3 ppb	07:28:52
2	Tl 190.801†	9466.8	9431.7	10128 µg/L	10128 ppb	07:28:57
2	U 409.014†	-1972.0	-1938.9	-187.34 µg/L	-187.34 ppb	07:28:52
2	V 292.402†	808916.4	803178.4	10494 µg/L	10494 ppb	07:28:52
2	Zn 213.857†	612597.9	607806.0	14975 µg/L	14975 ppb	07:28:52
3	Sc RADIAL	86537.3	86537.3	101 %		07:27:44
3	Al 396.153Radial†	745.8	845.3	246.82 µg/L	246.82 ppb	07:27:44
3	Ca 317.933Radial†	512.8	187.6	75.177 µg/L	75.177 ppb	07:28:05
3	Fe 238.204 Radial†	11.1	-1.8	168.02 µg/L	168.02 ppb	07:28:05
3	K 766.490 Radial†	612111.6	606549.4	300060 µg/L	300060 ppb	07:27:39
3	Mg 279.077 IEC†	4.6	-4.7	95.267 µg/L	95.267 ppb	07:28:05
3	Na 589.592 Radial†	807.7	639.2	316.06 µg/L	316.06 ppb	07:27:44
3	Sr 421.552†	1629279.7	1614675.0	10098 µg/L	10098 ppb	07:27:39
3	Sc 361.383	1829759.4	1829759.4	99.327 %		07:29:14
3	Y 371.029	1259281.2	1259281.2	98.352 %		07:29:14
3	Ag 328.068†	-5632.9	-5157.2	17.981 µg/L	17.981 ppb	07:29:19
3	As 188.979†	5547.8	5587.0	8947.5 µg/L	8947.5 ppb	07:29:19
3	B 249.677†	97484.5	97812.5	4844.5 µg/L	4844.5 ppb	07:29:14
3	Ba 233.527†	585336.7	589322.9	13979 µg/L	13979 ppb	07:29:14
3	Be 313.107†	4169175.5	4198773.7	2690.0 µg/L	2690.0 ppb	07:29:14
3	Cd 226.502†	347771.2	350293.9	9176.6 µg/L	9176.6 ppb	07:29:14
3	Co 228.616†	191117.3	192382.0	8949.5 µg/L	8949.5 ppb	07:29:14
3	Cr 267.716†	943931.2	950237.7	22688 µg/L	22688 ppb	07:29:14
3	Cu 324.752†	2741887.0	2756364.5	19268 µg/L	19268 ppb	07:29:14
3	Mn 257.610†	2701888.5	2720920.7	8996.6 µg/L	8996.6 ppb	07:29:14
3	Mo 202.031†	88635.3	89225.4	9563.1 µg/L	9563.1 ppb	07:29:14
3	Ni 231.604†	150725.8	151390.5	9183.7 µg/L	9183.7 ppb	07:29:14
3	P 214.914†	9685.6	9463.1	15255 µg/L	15255 ppb	07:29:19
3	Pb 220.353†	84151.0	84687.4	24106 µg/L	24106 ppb	07:29:14
3	S 181.975 Axial†	13785.4	13856.2	47748 µg/L	47748 ppb	07:29:19
3	Sb 206.836†	9536.3	9574.7	9177.4 µg/L	9177.4 ppb	07:29:19
3	Se 196.026†	8834.5	8874.4	9045.8 µg/L	9045.8 ppb	07:29:19
3	SiO2†	484367.6	485001.7	94173 µg/L	94173 ppb	07:29:14
3	Si 251.611†	597537.6	601191.3	43881 µg/L	43881 ppb	07:29:14
3	Sn 189.927†	21059.2	21205.7	9112.4 µg/L	9112.4 ppb	07:29:19
3	Ti 334.940†	3581712.8	3606628.5	9126.3 µg/L	9126.3 ppb	07:29:14
3	Tl 190.801†	8688.0	8777.5	9424.4 µg/L	9424.4 ppb	07:29:19
3	U 409.014†	-1776.9	-1769.6	-170.98 µg/L	-170.98 ppb	07:29:14
3	V 292.402†	727382.5	732180.7	9565.6 µg/L	9565.6 ppb	07:29:14
3	Zn 213.857†	554768.6	557982.3	13747 µg/L	13747 ppb	07:29:14

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1842941.0	100.04 %	0.688			0.69%
Sc RADIAL	87121.3	102 %	0.6			0.64%
Y 371.029	1266858.3	98.944 %	0.6300			0.64%
Ag 328.068†	-5687.7	17.475 µg/L	1.0556	17.475 ppb	1.0556	6.04%
Al 396.153Radial†	870.0	247.53 µg/L	2.909	247.53 ppb	2.909	1.18%
As 188.979†	6066.6	9716.0 µg/L	681.05	9716.0 ppb	681.05	7.01%
QC value within limits for As 188.979 Recovery = 97.16%						
B 249.677†	101448.7	5026.1 µg/L	157.36	5026.1 ppb	157.36	3.13%
QC value within limits for B 249.677 Recovery = 100.52%						
Ba 233.527†	622615.0	14769 µg/L	684.2	14769 ppb	684.2	4.63%
QC value within limits for Ba 233.527 Recovery = 98.46%						
Be 313.107†	4461309.2	2858.2 µg/L	145.69	2858.2 ppb	145.69	5.10%
QC value within limits for Be 313.107 Recovery = 95.27%						
Ca 317.933Radial†	170.5	68.340 µg/L	7.3423	68.340 ppb	7.3423	10.74%
Cd 226.502†	371114.6	9722.1 µg/L	472.43	9722.1 ppb	472.43	4.86%
QC value within limits for Cd 226.502 Recovery = 97.22%						
Co 228.616†	205062.7	9539.5 µg/L	511.07	9539.5 ppb	511.07	5.36%
QC value within limits for Co 228.616 Recovery = 95.39%						
Cr 267.716†	1026776.5	24516 µg/L	1583.1	24516 ppb	1583.1	6.46%
QC value within limits for Cr 267.716 Recovery = 98.06%						

Cu 324.752†	2925859.1	20453 µg/L	1026.3	20453 ppb	1026.3	5.02%
QC value within limits for Cu 324.752 Recovery = 102.27%						
Fe 238.204 Radial†	-1.4	184.98 µg/L	15.669	184.98 ppb	15.669	8.47%
K 766.490 Radial†	603437.4	298520 µg/L	1336.6	298520 ppb	1336.6	0.45%
QC value within limits for K 766.490 Radial Recovery = 99.51%						
Mg 279.077 IEC†	-4.9	101.45 µg/L	14.323	101.45 ppb	14.323	14.12%
Mn 257.610†	2890850.5	9558.5 µg/L	486.89	9558.5 ppb	486.89	5.09%
QC value within limits for Mn 257.610 Recovery = 95.59%						
Mo 202.031†	94784.4	10159 µg/L	516.3	10159 ppb	516.3	5.08%
QC value within limits for Mo 202.031 Recovery = 101.59%						
Na 589.592 Radial†	794.2	392.73 µg/L	82.059	392.73 ppb	82.059	20.89%
Ni 231.604†	161329.6	9786.7 µg/L	522.33	9786.7 ppb	522.33	5.34%
QC value within limits for Ni 231.604 Recovery = 97.87%						
P 214.914†	10481.2	16992 µg/L	1560.4	16992 ppb	1560.4	9.18%
QC value greater than the upper limit for P 214.914 Recovery = 113.28%						
Pb 220.353†	88758.0	25264 µg/L	1003.4	25264 ppb	1003.4	3.97%
QC value within limits for Pb 220.353 Recovery = 101.06%						
S 181.975 Axial†	15013.9	51737 µg/L	3524.8	51737 ppb	3524.8	6.81%
QC value within limits for S 181.975 Axial Recovery = 103.47%						
Sb 206.836†	10458.2	10023 µg/L	753.1	10023 ppb	753.1	7.51%
QC value within limits for Sb 206.836 Recovery = 100.23%						
Se 196.026†	9608.4	9794.0 µg/L	664.71	9794.0 ppb	664.71	6.79%
QC value within limits for Se 196.026 Recovery = 97.94%						
SiO2†	506892.9	98424 µg/L	3682.3	98424 ppb	3682.3	3.74%
QC value within limits for SiO2 Recovery = 91.98%						
Si 251.611†	628272.4	45858 µg/L	1712.8	45858 ppb	1712.8	3.73%
QC value within limits for Si 251.611 Recovery = 91.72%						
Sn 189.927†	23750.2	10206 µg/L	972.3	10206 ppb	972.3	9.53%
QC value within limits for Sn 189.927 Recovery = 102.06%						
Sr 421.552†	1605118.0	10038 µg/L	52.6	10038 ppb	52.6	0.52%
QC value within limits for Sr 421.552 Recovery = 100.38%						
Ti 334.940†	3830526.3	9692.8 µg/L	490.79	9692.8 ppb	490.79	5.06%
QC value within limits for Ti 334.940 Recovery = 96.93%						
Tl 190.801†	9251.9	9934.4 µg/L	445.88	9934.4 ppb	445.88	4.49%
QC value within limits for Tl 190.801 Recovery = 99.34%						
U 409.014†	-1887.7	-182.40 µg/L	9.919	-182.40 ppb	9.919	5.44%
V 292.402†	779804.8	10188 µg/L	539.3	10188 ppb	539.3	5.29%
QC value within limits for V 292.402 Recovery = 101.88%						
Zn 213.857†	591779.9	14580 µg/L	721.3	14580 ppb	721.3	4.95%
QC value within limits for Zn 213.857 Recovery = 97.20%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 07:29:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85416.3	85416.3	99.6 %			07:30:01
1	Al 396.153Radial†	9790.2	9936.7	5199.1 µg/L		5199.1 ppb	07:30:01
1	Ca 317.933Radial†	13083.6	12816.8	5135.8 µg/L		5135.8 ppb	07:30:01
1	Fe 238.204 Radial†	400.6	389.4	4880.6 µg/L		4880.6 ppb	07:30:22
1	K 766.490 Radial†	11138.8	11064.3	5473.5 µg/L		5473.5 ppb	07:30:01
1	Mg 279.077 IEC†	363.3	355.6	5005.8 µg/L		5005.8 ppb	07:30:22
1	Na 589.592 Radial†	19758.9	19678.9	9731.2 µg/L		9731.2 ppb	07:30:01
1	Sr 421.552†	79738.1	79946.6	499.99 µg/L		499.99 ppb	07:30:01
1	Sc 361.383	1820967.1	1820967.1	98.850 %			07:31:25
1	Y 371.029	1265496.2	1265496.2	98.837 %			07:31:25
1	Ag 328.068†	57772.1	58958.3	510.55 µg/L		510.55 ppb	07:31:31
1	As 188.979†	329.7	335.2	535.69 µg/L		535.69 ppb	07:31:52
1	B 249.677†	10679.3	10470.9	513.01 µg/L		513.01 ppb	07:31:31
1	Ba 233.527†	21485.5	21754.9	516.33 µg/L		516.33 ppb	07:31:31
1	Be 313.107†	790098.4	800637.1	513.41 µg/L		513.41 ppb	07:31:25
1	Cd 226.502†	19333.5	19724.3	516.16 µg/L		516.16 ppb	07:31:31
1	Co 228.616†	11039.2	11137.1	518.12 µg/L		518.12 ppb	07:31:31
1	Cr 267.716†	21772.1	21935.0	523.92 µg/L		523.92 ppb	07:31:31
1	Cu 324.752†	77819.3	74620.5	522.55 µg/L		522.55 ppb	07:31:31
1	Mn 257.610†	154695.3	157216.9	519.78 µg/L		519.78 ppb	07:31:25
1	Mo 202.031†	5173.4	5223.1	559.99 µg/L		559.99 ppb	07:31:52
1	Ni 231.604†	8802.2	8547.9	518.58 µg/L		518.58 ppb	07:31:31
1	P 214.914†	1753.4	1485.7	2643.8 µg/L		2643.8 ppb	07:31:52
1	Pb 220.353†	1921.4	1909.8	544.37 µg/L		544.37 ppb	07:31:52
1	S 181.975 Axial†	329.2	310.4	1069.5 µg/L		1069.5 ppb	07:31:52
1	Sb 206.836†	590.4	571.1	556.52 µg/L		556.52 ppb	07:31:52
1	Se 196.026†	531.6	517.9	539.17 µg/L		539.17 ppb	07:31:52
1	SiO2†	30967.8	28679.7	5568.7 µg/L		5568.7 ppb	07:31:31
1	Si 251.611†	35650.4	35669.5	2603.5 µg/L		2603.5 ppb	07:31:31
1	Sn 189.927†	1252.4	1270.7	546.56 µg/L		546.56 ppb	07:31:52
1	Ti 334.940†	201115.2	204098.0	516.14 µg/L		516.14 ppb	07:31:25
1	Tl 190.801†	457.4	493.3	530.36 µg/L		530.36 ppb	07:31:52
1	U 409.014†	5315.6	5396.9	520.47 µg/L		520.47 ppb	07:31:31
1	V 292.402†	39755.1	40086.4	522.40 µg/L		522.40 ppb	07:31:31
1	Zn 213.857†	21660.6	21366.7	525.52 µg/L		525.52 ppb	07:31:31
2	Sc RADIAL	85694.8	85694.8	99.9 %			07:30:27
2	Al 396.153Radial†	9842.2	9956.7	5209.9 µg/L		5209.9 ppb	07:30:27
2	Ca 317.933Radial†	13054.3	12744.8	5106.9 µg/L		5106.9 ppb	07:30:27
2	Fe 238.204 Radial†	402.2	389.7	4884.7 µg/L		4884.7 ppb	07:30:48
2	K 766.490 Radial†	11053.5	10942.7	5413.3 µg/L		5413.3 ppb	07:30:27
2	Mg 279.077 IEC†	361.8	352.9	4968.2 µg/L		4968.2 ppb	07:30:48
2	Na 589.592 Radial†	19628.4	19483.9	9634.7 µg/L		9634.7 ppb	07:30:27
2	Sr 421.552†	79607.0	79555.1	497.54 µg/L		497.54 ppb	07:30:27
2	Sc 361.383	1814590.8	1814590.8	98.503 %			07:31:59
2	Y 371.029	1257894.6	1257894.6	98.243 %			07:31:59
2	Ag 328.068†	58176.3	59574.0	515.89 µg/L		515.89 ppb	07:32:04
2	As 188.979†	330.2	336.9	538.32 µg/L		538.32 ppb	07:32:25
2	B 249.677†	10740.9	10571.4	517.97 µg/L		517.97 ppb	07:32:04
2	Ba 233.527†	21682.1	22030.9	522.88 µg/L		522.88 ppb	07:32:04
2	Be 313.107†	805010.1	818584.0	524.91 µg/L		524.91 ppb	07:31:59
2	Cd 226.502†	19564.8	20027.9	524.12 µg/L		524.12 ppb	07:32:04
2	Co 228.616†	11146.7	11285.5	525.00 µg/L		525.00 ppb	07:32:04
2	Cr 267.716†	22063.8	22308.5	532.84 µg/L		532.84 ppb	07:32:04
2	Cu 324.752†	78586.5	75676.0	529.93 µg/L		529.93 ppb	07:32:04
2	Mn 257.610†	157674.6	160791.4	531.61 µg/L		531.61 ppb	07:31:59
2	Mo 202.031†	5034.7	5100.7	546.87 µg/L		546.87 ppb	07:32:25
2	Ni 231.604†	8923.2	8702.0	527.94 µg/L		527.94 ppb	07:32:04
2	P 214.914†	1721.9	1459.9	2596.2 µg/L		2596.2 ppb	07:32:25
2	Pb 220.353†	1864.9	1859.3	529.95 µg/L		529.95 ppb	07:32:25

2	S 181.975 Axial†	325.5	307.8	1060.7 µg/L	1060.7 ppb	07:32:25
2	Sb 206.836†	580.2	562.8	548.16 µg/L	548.16 ppb	07:32:25
2	Se 196.026†	527.9	516.0	537.31 µg/L	537.31 ppb	07:32:25
2	SiO2†	31218.0	29043.8	5639.4 µg/L	5639.4 ppb	07:32:04
2	Si 251.611†	35988.5	36139.4	2637.8 µg/L	2637.8 ppb	07:32:04
2	Sn 189.927†	1222.1	1244.4	535.23 µg/L	535.23 ppb	07:32:25
2	Ti 334.940†	204724.7	208477.2	527.22 µg/L	527.22 ppb	07:31:59
2	Tl 190.801†	453.3	490.8	527.77 µg/L	527.77 ppb	07:32:25
2	U 409.014†	5417.8	5519.6	532.33 µg/L	532.33 ppb	07:32:04
2	V 292.402†	40226.2	40706.0	530.32 µg/L	530.32 ppb	07:32:04
2	Zn 213.857†	21882.6	21669.1	532.96 µg/L	532.96 ppb	07:32:04
3	Sc RADIAL	85272.5	85272.5	99.4 %		07:30:53
3	Al 396.153Radial†	9722.3	9885.0	5174.0 µg/L	5174.0 ppb	07:30:53
3	Ca 317.933Radial†	13000.8	12755.7	5111.3 µg/L	5111.3 ppb	07:30:53
3	Fe 238.204 Radial†	402.9	392.5	4917.7 µg/L	4917.7 ppb	07:31:14
3	K 766.490 Radial†	10881.0	10823.9	5354.6 µg/L	5354.6 ppb	07:30:53
3	Mg 279.077 IEC†	369.1	362.0	5094.4 µg/L	5094.4 ppb	07:31:14
3	Na 589.592 Radial†	19619.0	19571.7	9678.1 µg/L	9678.1 ppb	07:30:53
3	Sr 421.552†	79490.4	79832.4	499.28 µg/L	499.28 ppb	07:30:53
3	Sc 361.383	1790795.6	1790795.6	97.212 %		07:32:32
3	Y 371.029	1242291.1	1242291.1	97.025 %		07:32:32
3	Ag 328.068†	54589.6	56669.2	490.59 µg/L	490.59 ppb	07:32:38
3	As 188.979†	276.9	286.5	457.72 µg/L	457.72 ppb	07:32:58
3	B 249.677†	10024.3	9979.2	488.74 µg/L	488.74 ppb	07:32:38
3	Ba 233.527†	19698.0	20282.4	481.37 µg/L	481.37 ppb	07:32:38
3	Be 313.107†	737142.5	759628.8	487.11 µg/L	487.11 ppb	07:32:32
3	Cd 226.502†	17623.1	18294.4	478.69 µg/L	478.69 ppb	07:32:38
3	Co 228.616†	9926.6	10180.8	473.56 µg/L	473.56 ppb	07:32:38
3	Cr 267.716†	19169.1	19628.4	468.83 µg/L	468.83 ppb	07:32:38
3	Cu 324.752†	71183.3	69120.5	484.11 µg/L	484.11 ppb	07:32:38
3	Mn 257.610†	144984.2	149864.0	495.47 µg/L	495.47 ppb	07:32:32
3	Mo 202.031†	4198.2	4308.1	461.92 µg/L	461.92 ppb	07:32:58
3	Ni 231.604†	7960.7	7832.3	475.18 µg/L	475.18 ppb	07:32:38
3	P 214.914†	1509.1	1264.3	2245.0 µg/L	2245.0 ppb	07:32:58
3	Pb 220.353†	1609.8	1622.1	462.30 µg/L	462.30 ppb	07:32:58
3	S 181.975 Axial†	282.9	268.4	924.90 µg/L	924.90 ppb	07:32:58
3	Sb 206.836†	506.5	494.8	481.61 µg/L	481.61 ppb	07:32:58
3	Se 196.026†	469.3	462.7	483.05 µg/L	483.05 ppb	07:32:58
3	SiO2†	29091.5	27277.4	5296.5 µg/L	5296.5 ppb	07:32:38
3	Si 251.611†	33340.2	33900.6	2474.4 µg/L	2474.4 ppb	07:32:38
3	Sn 189.927†	1005.3	1037.8	446.48 µg/L	446.48 ppb	07:32:58
3	Ti 334.940†	186828.6	192829.5	487.62 µg/L	487.62 ppb	07:32:32
3	Tl 190.801†	405.1	447.3	481.10 µg/L	481.10 ppb	07:32:58
3	U 409.014†	4749.6	4905.2	472.96 µg/L	472.96 ppb	07:32:38
3	V 292.402†	35831.9	36728.3	478.16 µg/L	478.16 ppb	07:32:38
3	Zn 213.857†	19635.6	19652.8	483.32 µg/L	483.32 ppb	07:32:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1808784.5	98.188 %	0.8632			0.88%
Sc RADIAL	85461.2	99.6 %	0.25			0.25%
Y 371.029	1255227.3	98.035 %	0.9240			0.94%
Ag 328.068†	58400.5	505.68 µg/L	13.336	505.68 ppb	13.336	2.64%
QC value within limits for Ag 328.068 Recovery = 101.14%						
Al 396.153Radial†	9926.1	5194.4 µg/L	18.41	5194.4 ppb	18.41	0.35%
QC value within limits for Al 396.153Radial Recovery = 103.89%						
As 188.979†	319.6	510.58 µg/L	45.794	510.58 ppb	45.794	8.97%
QC value within limits for As 188.979 Recovery = 102.12%						
B 249.677†	10340.5	506.57 µg/L	15.644	506.57 ppb	15.644	3.09%
QC value within limits for B 249.677 Recovery = 101.31%						
Ba 233.527†	21356.1	506.86 µg/L	22.320	506.86 ppb	22.320	4.40%
QC value within limits for Ba 233.527 Recovery = 101.37%						
Be 313.107†	792950.0	508.48 µg/L	19.378	508.48 ppb	19.378	3.81%
QC value within limits for Be 313.107 Recovery = 101.70%						
Ca 317.933Radial†	12772.4	5118.0 µg/L	15.55	5118.0 ppb	15.55	0.30%
QC value within limits for Ca 317.933Radial Recovery = 102.36%						
Cd 226.502†	19348.9	506.33 µg/L	24.257	506.33 ppb	24.257	4.79%
QC value within limits for Cd 226.502 Recovery = 101.27%						
Co 228.616†	10867.8	505.56 µg/L	27.928	505.56 ppb	27.928	5.52%

QC value within limits for Co 228.616 Recovery = 101.11%							
Cr 267.716†	21290.6	508.53 µg/L	34.667	508.53 ppb	34.667	6.82%	
QC value within limits for Cr 267.716 Recovery = 101.71%							
Cu 324.752†	73139.0	512.19 µg/L	24.602	512.19 ppb	24.602	4.80%	
QC value within limits for Cu 324.752 Recovery = 102.44%							
Fe 238.204 Radial†	390.5	4894.3 µg/L	20.32	4894.3 ppb	20.32	0.42%	
QC value within limits for Fe 238.204 Radial Recovery = 97.89%							
K 766.490 Radial†	10943.6	5413.8 µg/L	59.48	5413.8 ppb	59.48	1.10%	
QC value within limits for K 766.490 Radial Recovery = 108.28%							
Mg 279.077 IEC†	356.9	5022.8 µg/L	64.80	5022.8 ppb	64.80	1.29%	
QC value within limits for Mg 279.077 IEC Recovery = 100.46%							
Mn 257.610†	155957.4	515.62 µg/L	18.425	515.62 ppb	18.425	3.57%	
QC value within limits for Mn 257.610 Recovery = 103.12%							
Mo 202.031†	4877.3	522.93 µg/L	53.238	522.93 ppb	53.238	10.18%	
QC value within limits for Mo 202.031 Recovery = 104.59%							
Na 589.592 Radial†	19578.2	9681.3 µg/L	48.31	9681.3 ppb	48.31	0.50%	
QC value within limits for Na 589.592 Radial Recovery = 96.81%							
Ni 231.604†	8360.7	507.23 µg/L	28.151	507.23 ppb	28.151	5.55%	
QC value within limits for Ni 231.604 Recovery = 101.45%							
P 214.914†	1403.3	2495.0 µg/L	217.80	2495.0 ppb	217.80	8.73%	
QC value within limits for P 214.914 Recovery = 99.80%							
Pb 220.353†	1797.1	512.21 µg/L	43.819	512.21 ppb	43.819	8.55%	
QC value within limits for Pb 220.353 Recovery = 102.44%							
S 181.975 Axial†	295.5	1018.3 µg/L	81.05	1018.3 ppb	81.05	7.96%	
QC value within limits for S 181.975 Axial Recovery = 101.83%							
Sb 206.836†	542.9	528.76 µg/L	41.049	528.76 ppb	41.049	7.76%	
QC value within limits for Sb 206.836 Recovery = 105.75%							
Se 196.026†	498.9	519.84 µg/L	31.878	519.84 ppb	31.878	6.13%	
QC value within limits for Se 196.026 Recovery = 103.97%							
SiO2†	28333.6	5501.5 µg/L	181.10	5501.5 ppb	181.10	3.29%	
QC value within limits for SiO2 Recovery = 102.88%							
Si 251.611†	35236.5	2571.9 µg/L	86.17	2571.9 ppb	86.17	3.35%	
QC value within limits for Si 251.611 Recovery = 102.88%							
Sn 189.927†	1184.3	509.42 µg/L	54.802	509.42 ppb	54.802	10.76%	
QC value within limits for Sn 189.927 Recovery = 101.88%							
Sr 421.552†	79778.0	498.94 µg/L	1.259	498.94 ppb	1.259	0.25%	
QC value within limits for Sr 421.552 Recovery = 99.79%							
Ti 334.940†	201801.6	510.33 µg/L	20.432	510.33 ppb	20.432	4.00%	
QC value within limits for Ti 334.940 Recovery = 102.07%							
Tl 190.801†	477.1	513.08 µg/L	27.726	513.08 ppb	27.726	5.40%	
QC value within limits for Tl 190.801 Recovery = 102.62%							
U 409.014†	5273.9	508.59 µg/L	31.417	508.59 ppb	31.417	6.18%	
QC value within limits for U 409.014 Recovery = 101.72%							
V 292.402†	39173.6	510.29 µg/L	28.110	510.29 ppb	28.110	5.51%	
QC value within limits for V 292.402 Recovery = 102.06%							
Zn 213.857†	20896.2	513.94 µg/L	26.771	513.94 ppb	26.771	5.21%	
QC value within limits for Zn 213.857 Recovery = 102.79%							
All analyte(s) passed QC.							

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 07:33:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	83574.7	83574.7	97.4 %		07:33:38
1	Al 396.153Radial†	-96.0	7.6	3.9440 µg/L	3.9440 ppb	07:33:38
1	Ca 317.933Radial†	340.9	29.2	11.711 µg/L	11.711 ppb	07:33:58
1	Fe 238.204 Radial†	15.5	3.1	38.561 µg/L	38.561 ppb	07:33:58
1	K 766.490 Radial†	376.8	266.3	131.76 µg/L	131.76 ppb	07:33:38
1	Mg 279.077 IEC†	11.2	2.3	31.963 µg/L	31.963 ppb	07:33:58
1	Na 589.592 Radial†	353.1	201.0	99.389 µg/L	99.389 ppb	07:33:38
1	Sr 421.552†	139.2	22.9	0.1434 µg/L	0.1434 ppb	07:33:38
1	Sc 361.383	1799425.0	1799425.0	97.680 %		07:35:00
1	Y 371.029	1253461.7	1253461.7	97.897 %		07:35:00
1	Ag 328.068†	-479.4	23.0	0.2021 µg/L	0.2021 ppb	07:35:06
1	As 188.979†	-3.8	-2.2	-3.5310 µg/L	-3.5310 ppb	07:35:26
1	B 249.677†	383.6	60.0	2.9286 µg/L	2.9286 ppb	07:35:06
1	Ba 233.527†	-5.1	14.1	0.3346 µg/L	0.3346 ppb	07:35:26
1	Be 313.107†	-1114.1	202.8	0.1298 µg/L	0.1298 ppb	07:35:06
1	Cd 226.502†	-164.6	-2.7	-0.0760 µg/L	-0.0760 ppb	07:35:26
1	Co 228.616†	33.4	3.7	0.1707 µg/L	0.1707 ppb	07:35:26
1	Cr 267.716†	87.2	-1.2	-0.0290 µg/L	-0.0290 ppb	07:35:06
1	Cu 324.752†	4665.3	671.6	4.7022 µg/L	4.7022 ppb	07:35:06
1	Mn 257.610†	-667.9	37.5	0.1242 µg/L	0.1242 ppb	07:35:26
1	Mo 202.031†	30.4	20.6	2.2115 µg/L	2.2115 ppb	07:35:26
1	Ni 231.604†	350.0	1.5	0.0921 µg/L	0.0921 ppb	07:35:26
1	P 214.914†	280.0	-1.4	-3.0781 µg/L	-3.0781 ppb	07:35:26
1	Pb 220.353†	45.1	12.3	3.4985 µg/L	3.4985 ppb	07:35:26
1	S 181.975 Axial†	23.3	1.2	4.2134 µg/L	4.2134 ppb	07:35:26
1	Sb 206.836†	33.9	8.4	8.1875 µg/L	8.1875 ppb	07:35:26
1	Se 196.026†	22.4	3.0	3.1565 µg/L	3.1565 ppb	07:35:26
1	SiO2†	2652.0	66.5	12.904 µg/L	12.904 ppb	07:35:06
1	Si 251.611†	482.4	98.0	7.1505 µg/L	7.1505 ppb	07:35:26
1	Sn 189.927†	6.3	10.2	4.3900 µg/L	4.3900 ppb	07:35:26
1	Ti 334.940†	-368.4	265.0	0.6682 µg/L	0.6682 ppb	07:35:06
1	Tl 190.801†	-35.9	-6.1	-6.5014 µg/L	-6.5014 ppb	07:35:26
1	U 409.014†	-19.7	-0.8	-0.0807 µg/L	-0.0807 ppb	07:35:06
1	V 292.402†	140.2	12.2	0.1696 µg/L	0.1696 ppb	07:35:06
1	Zn 213.857†	596.2	64.3	1.5820 µg/L	1.5820 ppb	07:35:26
2	Sc RADIAL	84176.9	84176.9	98.1 %		07:34:04
2	Al 396.153Radial†	-78.3	26.3	13.767 µg/L	13.767 ppb	07:34:04
2	Ca 317.933Radial†	343.6	29.4	11.796 µg/L	11.796 ppb	07:34:24
2	Fe 238.204 Radial†	15.3	2.8	35.468 µg/L	35.468 ppb	07:34:24
2	K 766.490 Radial†	410.7	298.1	147.48 µg/L	147.48 ppb	07:34:04
2	Mg 279.077 IEC†	11.3	2.3	31.718 µg/L	31.718 ppb	07:34:24
2	Na 589.592 Radial†	317.6	162.3	80.251 µg/L	80.251 ppb	07:34:04
2	Sr 421.552†	105.3	-12.7	-0.0792 µg/L	-0.0792 ppb	07:34:04
2	Sc 361.383	1806121.7	1806121.7	98.044 %		07:35:32
2	Y 371.029	1257936.6	1257936.6	98.247 %		07:35:32
2	Ag 328.068†	-582.8	-80.6	-0.6939 µg/L	-0.6939 ppb	07:35:38
2	As 188.979†	1.6	3.3	5.3049 µg/L	5.3049 ppb	07:35:58
2	B 249.677†	400.0	75.4	3.6840 µg/L	3.6840 ppb	07:35:38
2	Ba 233.527†	-5.8	13.5	0.3179 µg/L	0.3179 ppb	07:35:58
2	Be 313.107†	-1212.0	107.2	0.0684 µg/L	0.0684 ppb	07:35:38
2	Cd 226.502†	-154.3	8.4	0.2164 µg/L	0.2164 ppb	07:35:58
2	Co 228.616†	31.5	1.6	0.0763 µg/L	0.0763 ppb	07:35:58
2	Cr 267.716†	48.0	-41.5	-0.9919 µg/L	-0.9919 ppb	07:35:38
2	Cu 324.752†	4664.6	653.1	4.5724 µg/L	4.5724 ppb	07:35:38
2	Mn 257.610†	-652.9	55.3	0.1829 µg/L	0.1829 ppb	07:35:58
2	Mo 202.031†	31.3	21.4	2.2922 µg/L	2.2922 ppb	07:35:58
2	Ni 231.604†	356.1	6.4	0.3897 µg/L	0.3897 ppb	07:35:58
2	P 214.914†	272.4	-10.3	-19.235 µg/L	-19.235 ppb	07:35:58
2	Pb 220.353†	48.0	15.1	4.2890 µg/L	4.2890 ppb	07:35:58

2	S 181.975 Axial†	20.8	-1.4	-4.7763 µg/L	-4.7763 ppb	07:35:58
2	Sb 206.836†	28.0	2.3	2.3221 µg/L	2.3221 ppb	07:35:58
2	Se 196.026†	24.6	5.1	5.2903 µg/L	5.2903 ppb	07:35:58
2	SiO2†	2692.7	97.9	19.016 µg/L	19.016 ppb	07:35:38
2	Si 251.611†	486.6	100.4	7.3313 µg/L	7.3313 ppb	07:35:58
2	Sn 189.927†	-2.8	0.9	0.3791 µg/L	0.3791 ppb	07:35:58
2	Ti 334.940†	-283.9	352.6	0.8899 µg/L	0.8899 ppb	07:35:38
2	Tl 190.801†	-31.6	-1.7	-1.7513 µg/L	-1.7513 ppb	07:35:58
2	U 409.014†	-49.8	-31.4	-3.0366 µg/L	-3.0366 ppb	07:35:38
2	V 292.402†	81.0	-48.8	-0.6212 µg/L	-0.6212 ppb	07:35:38
2	Zn 213.857†	597.8	63.7	1.5654 µg/L	1.5654 ppb	07:35:58
3	Sc RADIAL	83709.2	83709.2	97.6 %		07:34:29
3	Al 396.153Radial†	-112.2	-8.8	-4.6305 µg/L	-4.6305 ppb	07:34:29
3	Ca 317.933Radial†	341.8	29.6	11.844 µg/L	11.844 ppb	07:34:50
3	Fe 238.204 Radial†	13.4	1.0	11.984 µg/L	11.984 ppb	07:34:50
3	K 766.490 Radial†	367.6	256.4	126.83 µg/L	126.83 ppb	07:34:29
3	Mg 279.077 IEC†	10.7	1.7	24.122 µg/L	24.122 ppb	07:34:50
3	Na 589.592 Radial†	322.0	168.6	83.378 µg/L	83.378 ppb	07:34:29
3	Sr 421.552†	138.5	22.0	0.1374 µg/L	0.1374 ppb	07:34:29
3	Sc 361.383	1818183.3	1818183.3	98.698 %		07:36:04
3	Y 371.029	1264214.0	1264214.0	98.737 %		07:36:04
3	Ag 328.068†	-540.7	-34.0	-0.2949 µg/L	-0.2949 ppb	07:36:10
3	As 188.979†	-1.0	0.6	0.9983 µg/L	0.9983 ppb	07:36:30
3	B 249.677†	360.5	32.6	1.5950 µg/L	1.5950 ppb	07:36:10
3	Ba 233.527†	-21.1	-2.0	-0.0472 µg/L	-0.0472 ppb	07:36:30
3	Be 313.107†	-1184.8	142.9	0.0913 µg/L	0.0913 ppb	07:36:10
3	Cd 226.502†	-152.0	11.8	0.3068 µg/L	0.3068 ppb	07:36:30
3	Co 228.616†	35.7	5.6	0.2622 µg/L	0.2622 ppb	07:36:30
3	Cr 267.716†	100.4	11.2	0.2675 µg/L	0.2675 ppb	07:36:10
3	Cu 324.752†	4623.3	579.7	4.0548 µg/L	4.0548 ppb	07:36:10
3	Mn 257.610†	-681.4	30.8	0.1011 µg/L	0.1011 ppb	07:36:30
3	Mo 202.031†	28.0	17.9	1.9163 µg/L	1.9163 ppb	07:36:30
3	Ni 231.604†	360.1	8.1	0.4911 µg/L	0.4911 ppb	07:36:30
3	P 214.914†	285.5	1.1	1.5771 µg/L	1.5771 ppb	07:36:30
3	Pb 220.353†	49.1	15.8	4.4879 µg/L	4.4879 ppb	07:36:30
3	S 181.975 Axial†	22.1	-0.3	-1.0185 µg/L	-1.0185 ppb	07:36:30
3	Sb 206.836†	33.4	7.6	7.3993 µg/L	7.3993 ppb	07:36:30
3	Se 196.026†	21.6	1.9	2.0028 µg/L	2.0028 ppb	07:36:30
3	SiO2†	2662.5	49.1	9.5373 µg/L	9.5373 ppb	07:36:10
3	Si 251.611†	467.7	78.1	5.6970 µg/L	5.6970 ppb	07:36:30
3	Sn 189.927†	-2.7	0.9	0.4056 µg/L	0.4056 ppb	07:36:30
3	Ti 334.940†	-247.4	391.5	0.9889 µg/L	0.9889 ppb	07:36:10
3	Tl 190.801†	-26.8	3.4	3.6591 µg/L	3.6591 ppb	07:36:30
3	U 409.014†	92.4	113.0	10.916 µg/L	10.916 ppb	07:36:10
3	V 292.402†	92.4	-37.8	-0.4618 µg/L	-0.4618 ppb	07:36:10
3	Zn 213.857†	588.4	50.2	1.2316 µg/L	1.2316 ppb	07:36:30

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1807910.0	98.141 %	0.5160			0.53%
Sc RADIAL	83820.3	97.7 %	0.37			0.38%
Y 371.029	1258537.4	98.294 %	0.4218			0.43%
Ag 328.068†	-30.5	-0.2622 µg/L	0.44887	-0.2622 ppb	0.44887	171.17%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.4	4.3603 µg/L	9.20602	4.3603 ppb	9.20602	211.13%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.6	0.9241 µg/L	4.41842	0.9241 ppb	4.41842	478.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	56.0	2.7359 µg/L	1.05777	2.7359 ppb	1.05777	38.66%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	8.5	0.2018 µg/L	0.21579	0.2018 ppb	0.21579	106.93%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	151.0	0.0965 µg/L	0.03102	0.0965 ppb	0.03102	32.14%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	29.4	11.784 µg/L	0.0675	11.784 ppb	0.0675	0.57%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	5.8	0.1491 µg/L	0.20009	0.1491 ppb	0.20009	134.20%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	3.6	0.1697 µg/L	0.09294	0.1697 ppb	0.09294	54.76%

Cr	267.716†	-10.5	-0.2511 µg/L	0.65842	-0.2511 ppb	0.65842	262.21%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	634.8	4.4431 µg/L	0.34250	4.4431 ppb	0.34250	7.71%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	2.3	28.671 µg/L	14.5341	28.671 ppb	14.5341	50.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	273.6	135.36 µg/L	10.780	135.36 ppb	10.780	7.96%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	2.1	29.268 µg/L	4.4580	29.268 ppb	4.4580	15.23%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	41.2	0.1361 µg/L	0.04218	0.1361 ppb	0.04218	31.00%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	20.0	2.1400 µg/L	0.19791	2.1400 ppb	0.19791	9.25%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	177.3	87.673 µg/L	10.2665	87.673 ppb	10.2665	11.71%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	5.3	0.3243 µg/L	0.20739	0.3243 ppb	0.20739	63.95%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-3.6	-6.9121 µg/L	10.92309	-6.9121 ppb	10.92309	158.03%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	14.4	4.0918 µg/L	0.52335	4.0918 ppb	0.52335	12.79%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-0.2	-0.5271 µg/L	4.51493	-0.5271 ppb	4.51493	856.53%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	6.1	5.9696 µg/L	3.18333	5.9696 ppb	3.18333	53.33%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	3.3	3.4832 µg/L	1.66793	3.4832 ppb	1.66793	47.89%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		71.2	13.819 µg/L	4.8050	13.819 ppb	4.8050	34.77%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	92.2	6.7263 µg/L	0.89596	6.7263 ppb	0.89596	13.32%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	4.0	1.7249 µg/L	2.30808	1.7249 ppb	2.30808	133.81%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	10.7	0.0672 µg/L	0.12681	0.0672 ppb	0.12681	188.65%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	336.4	0.8490 µg/L	0.16418	0.8490 ppb	0.16418	19.34%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-1.5	-1.5312 µg/L	5.08382	-1.5312 ppb	5.08382	332.01%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	27.0	2.5994 µg/L	7.35215	2.5994 ppb	7.35215	282.84%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-24.8	-0.3045 µg/L	0.41818	-0.3045 ppb	0.41818	137.35%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	59.4	1.4597 µg/L	0.19769	1.4597 ppb	0.19769	13.54%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/17/2010 07:37:06

Plasma On Time: 3/12/2010 12:50:39

Logged In Analyst: optima

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\031710A.sif

Batch ID:

Results Data Set: 031710C

Results Library: c:\pe\optimal\Results\Results.mdb

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Method Loaded

Method Name: Gen Eng fast_new Si

Method Last Saved: 3/17/2010 04:28:41

IEC File: 011510.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc RADIAL	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	No
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc RADIAL	No
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 113

Sample ID: LR1

Date Collected: 3/17/2010 07:37:08

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85091.8	85091.8	99.2 %		07:37:40
1	Al 396.153Radial†	-104.6	0.7	0.7149 µg/L	0.7149 ppb	07:37:40
1	Ca 317.933Radial†	509.0	192.4	77.098 µg/L	77.098 ppb	07:38:00
1	Fe 238.204 Radial†	30866.5	31099.0	388870 µg/L	388870 ppb	07:37:40

1	K 766.490 Radial†	118.3	-1.1	-0.5367 µg/L	-0.5367 ppb	07:37:40
1	Mg 279.077 IEC†	14.2	5.1	-345.30 µg/L	-345.30 ppb	07:38:00
1	Na 589.592 Radial†	249.9	90.6	44.784 µg/L	44.784 ppb	07:37:40
1	Sr 421.552†	187.8	69.4	0.4341 µg/L	0.4341 ppb	07:37:40
1	Sc 361.383	1801519.8	1801519.8	97.794 %		07:39:03
1	Y 371.029	1241858.9	1241858.9	96.991 %		07:39:03
1	Ag 328.068†	-3444.1	-3008.0	4.4133 µg/L	4.4133 ppb	07:39:09
1	As 188.979†	-18.5	-17.2	-75.621 µg/L	-75.621 ppb	07:39:30
1	B 249.677†	2216.6	1934.0	-107.85 µg/L	-107.85 ppb	07:39:09
1	Ba 233.527†	550.3	582.1	13.891 µg/L	13.891 ppb	07:39:30
1	Be 313.107†	-1272.2	42.5	0.0271 µg/L	0.0271 ppb	07:39:09
1	Cd 226.502†	1832.1	2039.3	9.4226 µg/L	9.4226 ppb	07:39:09
1	Co 228.616†	476.4	456.6	21.253 µg/L	21.253 ppb	07:39:30
1	Cr 267.716†	-110.6	-203.6	-4.8252 µg/L	-4.8252 ppb	07:39:30
1	Cu 324.752†	-2633.5	-6797.4	25.591 µg/L	25.591 ppb	07:39:09
1	Mn 257.610†	324.0	1052.5	26.497 µg/L	26.497 ppb	07:39:03
1	Mo 202.031†	-132.7	-146.2	-0.8892 µg/L	-0.8892 ppb	07:39:09
1	Ni 231.604†	287.4	-62.9	1.2126 µg/L	1.2126 ppb	07:39:30
1	P 214.914†	469.7	192.2	37.661 µg/L	37.661 ppb	07:39:30
1	Pb 220.353†	52.8	20.1	12.207 µg/L	12.207 ppb	07:39:30
1	S 181.975 Axial†	-17.2	-40.2	-138.62 µg/L	-138.62 ppb	07:39:30
1	Sb 206.836†	35.0	9.5	9.0077 µg/L	9.0077 ppb	07:39:30
1	Se 196.026†	-273.1	-299.3	931.52 µg/L	931.52 ppb	07:39:30
1	SiO2†	2503.1	-89.0	-17.276 µg/L	-17.276 ppb	07:39:09
1	Si 251.611†	-241.1	-642.3	-46.885 µg/L	-46.885 ppb	07:39:09
1	Sn 189.927†	7.5	11.4	3.0330 µg/L	3.0330 ppb	07:39:30
1	Ti 334.940†	-462.4	169.4	0.4241 µg/L	0.4241 ppb	07:39:09
1	Tl 190.801†	-50.9	-21.4	32.135 µg/L	32.135 ppb	07:39:30
1	U 409.014†	797.8	835.2	26.637 µg/L	26.637 ppb	07:39:09
1	V 292.402†	4307.6	4273.4	5.7190 µg/L	5.7190 ppb	07:39:09
1	Zn 213.857†	2526.5	2037.5	32.078 µg/L	32.078 ppb	07:39:30
2	Sc RADIAL	85584.4	85584.4	99.8 %		07:38:06
2	Al 396.153Radial†	-150.6	-44.8	-23.220 µg/L	-23.220 ppb	07:38:06
2	Ca 317.933Radial†	509.8	190.2	76.225 µg/L	76.225 ppb	07:38:26
2	Fe 238.204 Radial†	31223.0	31277.2	391100 µg/L	391100 ppb	07:38:06
2	K 766.490 Radial†	128.3	8.3	4.0983 µg/L	4.0983 ppb	07:38:06
2	Mg 279.077 IEC†	15.3	6.2	-333.32 µg/L	-333.32 ppb	07:38:26
2	Na 589.592 Radial†	229.8	68.9	34.070 µg/L	34.070 ppb	07:38:06
2	Sr 421.552†	241.0	121.6	0.7604 µg/L	0.7604 ppb	07:38:06
2	Sc 361.383	1798653.7	1798653.7	97.638 %		07:39:36
2	Y 371.029	1240399.3	1240399.3	96.877 %		07:39:36
2	Ag 328.068†	-3383.2	-2951.2	5.0756 µg/L	5.0756 ppb	07:39:42
2	As 188.979†	-14.6	-13.3	-69.573 µg/L	-69.573 ppb	07:40:02
2	B 249.677†	2259.3	1981.2	-106.69 µg/L	-106.69 ppb	07:39:42
2	Ba 233.527†	518.6	550.6	13.144 µg/L	13.144 ppb	07:40:02
2	Be 313.107†	-1269.9	42.7	0.0272 µg/L	0.0272 ppb	07:39:42
2	Cd 226.502†	1779.5	1988.3	7.8364 µg/L	7.8364 ppb	07:39:42
2	Co 228.616†	477.3	458.3	21.333 µg/L	21.333 ppb	07:40:02
2	Cr 267.716†	-135.0	-228.8	-5.4259 µg/L	-5.4259 ppb	07:40:02
2	Cu 324.752†	-2727.0	-6897.5	25.311 µg/L	25.311 ppb	07:39:42
2	Mn 257.610†	336.2	1065.5	26.670 µg/L	26.670 ppb	07:39:36
2	Mo 202.031†	-110.3	-123.5	1.6295 µg/L	1.6295 ppb	07:39:42
2	Ni 231.604†	268.9	-81.3	0.1204 µg/L	0.1204 ppb	07:40:02
2	P 214.914†	463.6	186.7	26.003 µg/L	26.003 ppb	07:40:02
2	Pb 220.353†	49.7	17.0	11.354 µg/L	11.354 ppb	07:40:02
2	S 181.975 Axial†	-7.7	-30.6	-105.29 µg/L	-105.29 ppb	07:40:02
2	Sb 206.836†	24.9	-0.8	-0.8915 µg/L	-0.8915 ppb	07:40:02
2	Se 196.026†	-280.4	-307.2	930.52 µg/L	930.52 ppb	07:40:02
2	SiO2†	2438.0	-151.5	-29.423 µg/L	-29.423 ppb	07:39:42
2	Si 251.611†	-226.1	-627.4	-45.797 µg/L	-45.797 ppb	07:39:42
2	Sn 189.927†	8.6	12.5	3.5073 µg/L	3.5073 ppb	07:40:02
2	Ti 334.940†	-395.9	236.7	0.5932 µg/L	0.5932 ppb	07:39:42
2	Tl 190.801†	-58.1	-28.9	24.531 µg/L	24.531 ppb	07:40:02
2	U 409.014†	797.5	836.2	26.430 µg/L	26.430 ppb	07:39:42
2	V 292.402†	4334.0	4307.5	5.8936 µg/L	5.8936 ppb	07:39:42
2	Zn 213.857†	2514.8	2029.7	31.785 µg/L	31.785 ppb	07:40:02
3	Sc RADIAL	85611.8	85611.8	99.8 %		07:38:32
3	Al 396.153Radial†	-84.6	21.4	11.448 µg/L	11.448 ppb	07:38:32
3	Ca 317.933Radial†	508.9	189.2	75.805 µg/L	75.805 ppb	07:38:52
3	Fe 238.204 Radial†	31320.9	31365.2	392200 µg/L	392200 ppb	07:38:32
3	K 766.490 Radial†	116.0	-4.1	-2.0364 µg/L	-2.0364 ppb	07:38:32

3	Mg 279.077 IEC†	15.1	5.9	-337.41 µg/L	-337.41 ppb	07:38:52
3	Na 589.592 Radial†	284.8	124.0	61.304 µg/L	61.304 ppb	07:38:32
3	Sr 421.552†	267.0	147.5	0.9228 µg/L	0.9228 ppb	07:38:32
3	Sc 361.383	1795134.0	1795134.0	97.447 %		07:40:09
3	Y 371.029	1240331.2	1240331.2	96.872 %		07:40:09
3	Ag 328.068†	-3229.3	-2800.0	6.4296 µg/L	6.4296 ppb	07:40:14
3	As 188.979†	-12.6	-11.3	-66.546 µg/L	-66.546 ppb	07:40:35
3	B 249.677†	2114.3	1837.0	-114.36 µg/L	-114.36 ppb	07:40:14
3	Ba 233.527†	448.4	479.5	11.452 µg/L	11.452 ppb	07:40:35
3	Be 313.107†	-1354.6	-46.7	-0.0301 µg/L	-0.0301 ppb	07:40:14
3	Cd 226.502†	1606.1	1814.0	3.1513 µg/L	3.1513 ppb	07:40:14
3	Co 228.616†	420.7	401.2	18.674 µg/L	18.674 ppb	07:40:35
3	Cr 267.716†	-98.3	-191.4	-4.5373 µg/L	-4.5373 ppb	07:40:35
3	Cu 324.752†	-2170.2	-6331.5	29.474 µg/L	29.474 ppb	07:40:14
3	Mn 257.610†	323.5	1053.3	26.695 µg/L	26.695 ppb	07:40:09
3	Mo 202.031†	-87.0	-99.8	4.2025 µg/L	4.2025 ppb	07:40:14
3	Ni 231.604†	294.4	-54.6	1.7592 µg/L	1.7592 ppb	07:40:35
3	P 214.914†	448.6	172.2	-1.5805 µg/L	-1.5805 ppb	07:40:35
3	Pb 220.353†	43.3	10.5	9.5473 µg/L	9.5473 ppb	07:40:35
3	S 181.975 Axial†	-1.1	-23.7	-81.752 µg/L	-81.752 ppb	07:40:35
3	Sb 206.836†	31.0	5.6	5.2696 µg/L	5.2696 ppb	07:40:35
3	Se 196.026†	-234.4	-260.6	981.53 µg/L	981.53 ppb	07:40:35
3	SiO2†	2511.4	-71.3	-13.844 µg/L	-13.844 ppb	07:40:14
3	Si 251.611†	-186.7	-587.4	-42.875 µg/L	-42.875 ppb	07:40:14
3	Sn 189.927†	7.0	10.9	2.8339 µg/L	2.8339 ppb	07:40:35
3	Ti 334.940†	-475.6	154.2	0.3847 µg/L	0.3847 ppb	07:40:14
3	Tl 190.801†	-55.6	-26.5	27.267 µg/L	27.267 ppb	07:40:35
3	U 409.014†	722.8	761.2	19.025 µg/L	19.025 ppb	07:40:14
3	V 292.402†	3976.2	3949.0	1.1443 µg/L	1.1443 ppb	07:40:14
3	Zn 213.857†	2214.7	1726.8	24.217 µg/L	24.217 ppb	07:40:35

Mean Data: LRI

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1798435.8	97.626 %	0.1736			0.18%
Sc RADIAL	85429.3	99.6 %	0.34			0.34%
Y 371.029	1240863.1	96.913 %	0.0674			0.07%
Ag 328.068†	-2919.8	5.3062 µg/L	1.02771	5.3062 ppb	1.02771	19.37%
Al 396.153Radial†	-7.5	-3.6858 µg/L	17.74794	-3.6858 ppb	17.74794	481.52%
As 188.979†	-13.9	-70.580 µg/L	4.6208	-70.580 ppb	4.6208	6.55%
B 249.677†	1917.4	-109.64 µg/L	4.131	-109.64 ppb	4.131	3.77%
Ba 233.527†	537.4	12.829 µg/L	1.2498	12.829 ppb	1.2498	9.74%
Be 313.107†	12.8	0.0080 µg/L	0.03305	0.0080 ppb	0.03305	410.84%
Ca 317.933Radial†	190.6	76.376 µg/L	0.6597	76.376 ppb	0.6597	0.86%
Cd 226.502†	1947.2	6.8035 µg/L	3.26075	6.8035 ppb	3.26075	47.93%
Co 228.616†	438.7	20.420 µg/L	1.5123	20.420 ppb	1.5123	7.41%
Cr 267.716†	-207.9	-4.9295 µg/L	0.45337	-4.9295 ppb	0.45337	9.20%
Cu 324.752†	-6675.5	26.792 µg/L	2.3268	26.792 ppb	2.3268	8.68%
Fe 238.204 Radial†	31247.1	390730 µg/L	1696.3	390730 ppb	1696.3	0.43%
K 766.490 Radial†	1.0	0.5084 µg/L	3.19808	0.5084 ppb	3.19808	629.07%
Mg 279.077 IEC†	5.7	-338.67 µg/L	6.089	-338.67 ppb	6.089	1.80%
Mn 257.610†	1057.1	26.621 µg/L	0.1083	26.621 ppb	0.1083	0.41%
Mo 202.031†	-123.2	1.6476 µg/L	2.54587	1.6476 ppb	2.54587	154.52%
Na 589.592 Radial†	94.5	46.719 µg/L	13.7193	46.719 ppb	13.7193	29.37%
Ni 231.604†	-66.3	1.0308 µg/L	0.83440	1.0308 ppb	0.83440	80.95%
P 214.914†	183.7	20.695 µg/L	20.1521	20.695 ppb	20.1521	97.38%
Pb 220.353†	15.9	11.036 µg/L	1.3580	11.036 ppb	1.3580	12.30%
S 181.975 Axial†	-31.5	-108.55 µg/L	28.576	-108.55 ppb	28.576	26.32%
Sb 206.836†	4.8	4.4619 µg/L	4.99879	4.4619 ppb	4.99879	112.03%
Se 196.026†	-289.0	947.86 µg/L	29.167	947.86 ppb	29.167	3.08%
SiO2†	-103.9	-20.181 µg/L	8.1856	-20.181 ppb	8.1856	40.56%
Si 251.611†	-619.1	-45.185 µg/L	2.0739	-45.185 ppb	2.0739	4.59%
Sn 189.927†	11.6	3.1247 µg/L	0.34591	3.1247 ppb	0.34591	11.07%
Sr 421.552†	112.8	0.7058 µg/L	0.24885	0.7058 ppb	0.24885	35.26%
Ti 334.940†	186.7	0.4673 µg/L	0.11077	0.4673 ppb	0.11077	23.70%
Tl 190.801†	-25.6	27.978 µg/L	3.8515	27.978 ppb	3.8515	13.77%
U 409.014†	810.8	24.031 µg/L	4.3362	24.031 ppb	4.3362	18.04%
V 292.402†	4176.7	4.2523 µg/L	2.69307	4.2523 ppb	2.69307	63.33%
Zn 213.857†	1931.3	29.360 µg/L	4.4562	29.360 ppb	4.4562	15.18%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 07:40:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85052.9	85052.9	99.2 %		07:41:16
1	Al 396.153Radial†	9930.7	10120.3	5295.7 µg/L	5295.7 ppb	07:41:16
1	Ca 317.933Radial†	13242.3	13033.0	5222.4 µg/L	5222.4 ppb	07:41:16
1	Fe 238.204 Radial†	408.7	399.4	5005.1 µg/L	5005.1 ppb	07:41:36
1	K 766.490 Radial†	10430.9	10398.3	5144.0 µg/L	5144.0 ppb	07:41:16
1	Mg 279.077 IEC†	371.7	365.6	5145.9 µg/L	5145.9 ppb	07:41:36
1	Na 589.592 Radial†	19704.9	19709.2	9746.1 µg/L	9746.1 ppb	07:41:16
1	Sr 421.552†	80720.0	81278.8	508.32 µg/L	508.32 ppb	07:41:16
1	Sc 361.383	1801817.3	1801817.3	97.810 %		07:42:40
1	Y 371.029	1251058.0	1251058.0	97.709 %		07:42:40
1	Ag 328.068†	58623.0	60449.4	523.46 µg/L	523.46 ppb	07:42:46
1	As 188.979†	330.3	339.4	542.30 µg/L	542.30 ppb	07:43:06
1	B 249.677†	10731.4	10639.0	521.23 µg/L	521.23 ppb	07:42:46
1	Ba 233.527†	21822.4	22330.4	529.99 µg/L	529.99 ppb	07:42:46
1	Be 313.107†	798143.3	817357.0	524.13 µg/L	524.13 ppb	07:42:40
1	Cd 226.502†	19632.1	20237.4	529.60 µg/L	529.60 ppb	07:42:46
1	Co 228.616†	11193.0	11413.1	530.95 µg/L	530.95 ppb	07:42:46
1	Cr 267.716†	22044.1	22447.1	536.15 µg/L	536.15 ppb	07:42:46
1	Cu 324.752†	78707.2	76365.0	534.77 µg/L	534.77 ppb	07:42:46
1	Mn 257.610†	156178.8	160396.9	530.30 µg/L	530.30 ppb	07:42:40
1	Mo 202.031†	4998.6	5100.0	546.81 µg/L	546.81 ppb	07:43:06
1	Ni 231.604†	8982.1	8826.5	535.49 µg/L	535.49 ppb	07:42:46
1	P 214.914†	1739.1	1489.9	2650.2 µg/L	2650.2 ppb	07:43:06
1	Pb 220.353†	1883.1	1891.4	539.06 µg/L	539.06 ppb	07:43:06
1	S 181.975 Axial†	319.7	304.2	1048.3 µg/L	1048.3 ppb	07:43:06
1	Sb 206.836†	566.5	553.0	538.61 µg/L	538.61 ppb	07:43:06
1	Se 196.026†	530.4	522.3	543.97 µg/L	543.97 ppb	07:43:06
1	SiO2†	31096.2	29144.0	5658.9 µg/L	5658.9 ppb	07:42:46
1	Si 251.611†	35865.6	36272.8	2647.6 µg/L	2647.6 ppb	07:42:46
1	Sn 189.927†	1238.5	1270.0	546.25 µg/L	546.25 ppb	07:43:06
1	Ti 334.940†	201633.9	206790.6	522.94 µg/L	522.94 ppb	07:42:40
1	Tl 190.801†	459.7	500.6	538.16 µg/L	538.16 ppb	07:43:06
1	U 409.014†	5441.8	5583.1	538.44 µg/L	538.44 ppb	07:42:46
1	V 292.402†	40355.9	41128.1	535.76 µg/L	535.76 ppb	07:42:46
1	Zn 213.857†	21908.8	21853.4	537.47 µg/L	537.47 ppb	07:42:46
2	Sc RADIAL	84847.0	84847.0	98.9 %		07:41:42
2	Al 396.153Radial†	9903.0	10116.7	5294.1 µg/L	5294.1 ppb	07:41:42
2	Ca 317.933Radial†	13180.0	13002.4	5210.2 µg/L	5210.2 ppb	07:41:42
2	Fe 238.204 Radial†	411.7	403.4	5055.6 µg/L	5055.6 ppb	07:42:02
2	K 766.490 Radial†	10433.4	10426.4	5157.9 µg/L	5157.9 ppb	07:41:42
2	Mg 279.077 IEC†	369.4	364.2	5126.3 µg/L	5126.3 ppb	07:42:02
2	Na 589.592 Radial†	19696.2	19748.7	9765.7 µg/L	9765.7 ppb	07:41:42
2	Sr 421.552†	80511.6	81265.7	508.24 µg/L	508.24 ppb	07:41:42
2	Sc 361.383	1815749.6	1815749.6	98.566 %		07:43:14
2	Y 371.029	1260592.4	1260592.4	98.454 %		07:43:14
2	Ag 328.068†	58569.8	59935.5	519.03 µg/L	519.03 ppb	07:43:19
2	As 188.979†	324.7	331.1	529.00 µg/L	529.00 ppb	07:43:40
2	B 249.677†	10730.7	10554.1	517.03 µg/L	517.03 ppb	07:43:19
2	Ba 233.527†	21798.7	22135.2	525.36 µg/L	525.36 ppb	07:43:19
2	Be 313.107†	803621.6	816653.7	523.68 µg/L	523.68 ppb	07:43:14
2	Cd 226.502†	19675.6	20127.6	526.71 µg/L	526.71 ppb	07:43:19
2	Co 228.616†	11190.1	11322.3	526.71 µg/L	526.71 ppb	07:43:19
2	Cr 267.716†	22147.2	22378.8	534.52 µg/L	534.52 ppb	07:43:19
2	Cu 324.752†	78578.3	75616.7	529.54 µg/L	529.54 ppb	07:43:19
2	Mn 257.610†	157199.6	160207.3	529.67 µg/L	529.67 ppb	07:43:14
2	Mo 202.031†	4917.6	4978.7	533.80 µg/L	533.80 ppb	07:43:40
2	Ni 231.604†	8910.7	8683.6	526.82 µg/L	526.82 ppb	07:43:19
2	P 214.914†	1720.4	1457.2	2591.3 µg/L	2591.3 ppb	07:43:40
2	Pb 220.353†	1867.1	1860.4	530.21 µg/L	530.21 ppb	07:43:40

2	S 181.975 Axial†	323.7	305.7	1053.6 µg/L	1053.6 ppb	07:43:40
2	Sb 206.836†	561.7	543.6	529.33 µg/L	529.33 ppb	07:43:40
2	Se 196.026†	537.8	525.6	547.56 µg/L	547.56 ppb	07:43:40
2	SiO2†	31153.1	28957.8	5622.7 µg/L	5622.7 ppb	07:43:19
2	Si 251.611†	35880.8	36006.8	2628.2 µg/L	2628.2 ppb	07:43:19
2	Sn 189.927†	1220.2	1241.7	534.10 µg/L	534.10 ppb	07:43:40
2	Ti 334.940†	203104.0	206700.4	522.71 µg/L	522.71 ppb	07:43:14
2	Tl 190.801†	463.0	500.3	537.88 µg/L	537.88 ppb	07:43:40
2	U 409.014†	5393.9	5491.8	529.62 µg/L	529.62 ppb	07:43:19
2	V 292.402†	40475.8	40933.2	533.13 µg/L	533.13 ppb	07:43:19
2	Zn 213.857†	21859.7	21631.7	532.02 µg/L	532.02 ppb	07:43:19
3	Sc RADIAL	84885.5	84885.5	99.0 %		07:42:08
3	Al 396.153Radial†	9894.3	10103.4	5289.0 µg/L	5289.0 ppb	07:42:08
3	Ca 317.933Radial†	13230.2	13047.1	5228.1 µg/L	5228.1 ppb	07:42:08
3	Fe 238.204 Radial†	413.1	404.6	5069.1 µg/L	5069.1 ppb	07:42:29
3	K 766.490 Radial†	10460.7	10449.2	5169.2 µg/L	5169.2 ppb	07:42:08
3	Mg 279.077 IEC†	370.2	364.8	5133.4 µg/L	5133.4 ppb	07:42:29
3	Na 589.592 Radial†	19696.0	19739.4	9761.1 µg/L	9761.1 ppb	07:42:08
3	Sr 421.552†	80543.8	81261.3	508.21 µg/L	508.21 ppb	07:42:08
3	Sc 361.383	1811075.1	1811075.1	98.313 %		07:43:47
3	Y 371.029	1256192.9	1256192.9	98.111 %		07:43:47
3	Ag 328.068†	54573.8	56024.3	485.02 µg/L	485.02 ppb	07:43:53
3	As 188.979†	271.5	277.9	443.82 µg/L	443.82 ppb	07:44:13
3	B 249.677†	9968.4	9806.8	480.17 µg/L	480.17 ppb	07:43:53
3	Ba 233.527†	19694.2	20051.6	475.89 µg/L	475.89 ppb	07:43:53
3	Be 313.107†	741997.9	756076.7	484.83 µg/L	484.83 ppb	07:43:47
3	Cd 226.502†	17592.6	18060.4	472.55 µg/L	472.55 ppb	07:43:53
3	Co 228.616†	9983.3	10124.2	470.91 µg/L	470.91 ppb	07:43:53
3	Cr 267.716†	19052.4	19288.8	460.72 µg/L	460.72 ppb	07:43:53
3	Cu 324.752†	70827.1	67938.2	475.87 µg/L	475.87 ppb	07:43:53
3	Mn 257.610†	145814.3	149038.3	492.74 µg/L	492.74 ppb	07:43:47
3	Mo 202.031†	4056.8	4115.9	441.33 µg/L	441.33 ppb	07:44:13
3	Ni 231.604†	7994.9	7775.4	471.73 µg/L	471.73 ppb	07:43:53
3	P 214.914†	1498.3	1235.9	2194.2 µg/L	2194.2 ppb	07:44:13
3	Pb 220.353†	1607.3	1601.0	456.25 µg/L	456.25 ppb	07:44:13
3	S 181.975 Axial†	279.8	262.0	902.82 µg/L	902.82 ppb	07:44:13
3	Sb 206.836†	481.4	463.4	450.95 µg/L	450.95 ppb	07:44:13
3	Se 196.026†	462.4	450.3	470.85 µg/L	470.85 ppb	07:44:13
3	SiO2†	28711.3	26555.6	5156.3 µg/L	5156.3 ppb	07:43:53
3	Si 251.611†	32862.7	33030.9	2410.9 µg/L	2410.9 ppb	07:43:53
3	Sn 189.927†	994.7	1015.5	436.88 µg/L	436.88 ppb	07:44:13
3	Ti 334.940†	186517.2	190360.7	481.37 µg/L	481.37 ppb	07:43:47
3	Tl 190.801†	403.3	440.8	474.19 µg/L	474.19 ppb	07:44:13
3	U 409.014†	4765.4	4866.6	469.20 µg/L	469.20 ppb	07:43:53
3	V 292.402†	35811.5	36294.9	472.37 µg/L	472.37 ppb	07:43:53
3	Zn 213.857†	19638.6	19429.7	477.82 µg/L	477.82 ppb	07:43:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1809547.3	98.230 %	0.3849			0.39%
Sc RADIAL	84928.5	99.0 %	0.13			0.13%
Y 371.029	1255947.8	98.091 %	0.3727			0.38%
Ag 328.068†	58803.0	509.17 µg/L	21.032	509.17 ppb	21.032	4.13%
QC value within limits for Ag 328.068 Recovery = 101.83%						
Al 396.153Radial†	10113.5	5292.9 µg/L	3.51	5292.9 ppb	3.51	0.07%
QC value within limits for Al 396.153Radial Recovery = 105.86%						
As 188.979†	316.1	505.04 µg/L	53.430	505.04 ppb	53.430	10.58%
QC value within limits for As 188.979 Recovery = 101.01%						
B 249.677†	10333.3	506.14 µg/L	22.592	506.14 ppb	22.592	4.46%
QC value within limits for B 249.677 Recovery = 101.23%						
Ba 233.527†	21505.7	510.41 µg/L	29.988	510.41 ppb	29.988	5.88%
QC value within limits for Ba 233.527 Recovery = 102.08%						
Be 313.107†	796695.8	510.88 µg/L	22.558	510.88 ppb	22.558	4.42%
QC value within limits for Be 313.107 Recovery = 102.18%						
Ca 317.933Radial†	13027.5	5220.2 µg/L	9.16	5220.2 ppb	9.16	0.18%
QC value within limits for Ca 317.933Radial Recovery = 104.40%						
Cd 226.502†	19475.1	509.62 µg/L	32.134	509.62 ppb	32.134	6.31%
QC value within limits for Cd 226.502 Recovery = 101.92%						
Co 228.616†	10953.2	509.53 µg/L	33.507	509.53 ppb	33.507	6.58%

Cr	267.716†	21371.6	510.47 µg/L	43.085	510.47 ppb	43.085	8.44%
Cu	324.752†	73306.6	513.39 µg/L	32.600	513.39 ppb	32.600	6.35%
Fe	238.204 Radial†	402.5	5043.3 µg/L	33.76	5043.3 ppb	33.76	0.67%
K	766.490 Radial†	10424.6	5157.0 µg/L	12.61	5157.0 ppb	12.61	0.24%
Mg	279.077 IEC†	364.9	5135.2 µg/L	9.92	5135.2 ppb	9.92	0.19%
Mn	257.610†	156547.5	517.57 µg/L	21.503	517.57 ppb	21.503	4.15%
Mo	202.031†	4731.5	507.31 µg/L	57.509	507.31 ppb	57.509	11.34%
Na	589.592 Radial†	19732.4	9757.6 µg/L	10.21	9757.6 ppb	10.21	0.10%
Ni	231.604†	8428.5	511.35 µg/L	34.583	511.35 ppb	34.583	6.76%
P	214.914†	1394.3	2478.5 µg/L	248.02	2478.5 ppb	248.02	10.01%
Pb	220.353†	1784.2	508.51 µg/L	45.474	508.51 ppb	45.474	8.94%
S	181.975 Axial†	290.7	1001.6 µg/L	85.56	1001.6 ppb	85.56	8.54%
Sb	206.836†	520.0	506.30 µg/L	48.158	506.30 ppb	48.158	9.51%
Se	196.026†	499.4	520.80 µg/L	43.292	520.80 ppb	43.292	8.31%
SiO2†		28219.1	5479.3 µg/L	280.32	5479.3 ppb	280.32	5.12%
Si	251.611†	35103.5	2562.2 µg/L	131.37	2562.2 ppb	131.37	5.13%
Sn	189.927†	1175.7	505.74 µg/L	59.946	505.74 ppb	59.946	11.85%
Sr	421.552†	81268.6	508.26 µg/L	0.057	508.26 ppb	0.057	0.01%
Ti	334.940†	201283.9	509.01 µg/L	23.937	509.01 ppb	23.937	4.70%
Tl	190.801†	480.6	516.74 µg/L	36.852	516.74 ppb	36.852	7.13%
U	409.014†	5313.8	512.42 µg/L	37.686	512.42 ppb	37.686	7.35%
V	292.402†	39452.1	513.75 µg/L	35.865	513.75 ppb	35.865	6.98%
Zn	213.857†	20971.6	515.77 µg/L	32.981	515.77 ppb	32.981	6.39%

QC value within limits for Co 228.616 Recovery = 101.91%
 QC value within limits for Cr 267.716 Recovery = 102.09%
 QC value within limits for Cu 324.752 Recovery = 102.68%
 QC value within limits for Fe 238.204 Radial Recovery = 100.87%
 QC value within limits for K 766.490 Radial Recovery = 103.14%
 QC value within limits for Mg 279.077 IEC Recovery = 102.70%
 QC value within limits for Mn 257.610 Recovery = 103.51%
 QC value within limits for Mo 202.031 Recovery = 101.46%
 QC value within limits for Na 589.592 Radial Recovery = 97.58%
 QC value within limits for Ni 231.604 Recovery = 102.27%
 QC value within limits for P 214.914 Recovery = 99.14%
 QC value within limits for Pb 220.353 Recovery = 101.70%
 QC value within limits for S 181.975 Axial Recovery = 100.16%
 QC value within limits for Sb 206.836 Recovery = 101.26%
 QC value within limits for Se 196.026 Recovery = 104.16%
 QC value within limits for SiO2 Recovery = 102.46%
 QC value within limits for Si 251.611 Recovery = 102.49%
 QC value within limits for Sn 189.927 Recovery = 101.15%
 QC value within limits for Sr 421.552 Recovery = 101.65%
 QC value within limits for Ti 334.940 Recovery = 101.80%
 QC value within limits for Tl 190.801 Recovery = 103.35%
 QC value within limits for U 409.014 Recovery = 102.48%
 QC value within limits for V 292.402 Recovery = 102.75%
 QC value within limits for Zn 213.857 Recovery = 103.15%

All analyte(s) passed QC.

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 07:44:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	81233.7	81233.7	94.7 %		07:44:54
1	Al 396.153Radial†	-46.6	57.0	29.844 µg/L	29.844 ppb	07:44:54
1	Ca 317.933Radial†	311.8	8.6	3.4468 µg/L	3.4468 ppb	07:45:15
1	Fe 238.204 Radial†	13.1	1.1	13.320 µg/L	13.320 ppb	07:45:15
1	K 766.490 Radial†	249.2	142.8	70.644 µg/L	70.644 ppb	07:44:54
1	Mg 279.077 IEC†	7.6	-1.2	-16.298 µg/L	-16.298 ppb	07:45:15
1	Na 589.592 Radial†	214.2	64.8	32.049 µg/L	32.049 ppb	07:44:54
1	Sr 421.552†	119.3	6.1	0.0381 µg/L	0.0381 ppb	07:44:54
1	Sc 361.383	1798670.3	1798670.3	97.639 %		07:46:17
1	Y 371.029	1251174.8	1251174.8	97.719 %		07:46:17
1	Ag 328.068†	-496.6	5.3	0.0410 µg/L	0.0410 ppb	07:46:22
1	As 188.979†	-2.9	-1.3	-2.0549 µg/L	-2.0549 ppb	07:46:43
1	B 249.677†	330.7	6.1	0.2895 µg/L	0.2895 ppb	07:46:22
1	Ba 233.527†	-20.3	-1.4	-0.0358 µg/L	-0.0358 ppb	07:46:43
1	Be 313.107†	-1126.0	190.2	0.1218 µg/L	0.1218 ppb	07:46:22
1	Cd 226.502†	-164.7	-2.9	-0.0768 µg/L	-0.0768 ppb	07:46:43
1	Co 228.616†	40.2	10.6	0.4953 µg/L	0.4953 ppb	07:46:43
1	Cr 267.716†	58.9	-30.2	-0.7223 µg/L	-0.7223 ppb	07:46:22
1	Cu 324.752†	4330.7	330.9	2.3154 µg/L	2.3154 ppb	07:46:22
1	Mn 257.610†	-679.4	25.4	0.0859 µg/L	0.0859 ppb	07:46:43
1	Mo 202.031†	29.5	19.7	2.1118 µg/L	2.1118 ppb	07:46:43
1	Ni 231.604†	346.3	-2.1	-0.1282 µg/L	-0.1282 ppb	07:46:43
1	P 214.914†	277.1	-4.4	-8.1615 µg/L	-8.1615 ppb	07:46:43
1	Pb 220.353†	48.0	15.3	4.3527 µg/L	4.3527 ppb	07:46:43
1	S 181.975 Axial†	16.3	-5.9	-20.373 µg/L	-20.373 ppb	07:46:43
1	Sb 206.836†	29.9	4.4	4.3178 µg/L	4.3178 ppb	07:46:43
1	Se 196.026†	24.3	4.9	5.0558 µg/L	5.0558 ppb	07:46:43
1	SiO2†	2663.0	78.9	15.327 µg/L	15.327 ppb	07:46:22
1	Si 251.611†	436.6	51.4	3.7490 µg/L	3.7490 ppb	07:46:43
1	Sn 189.927†	-5.4	-1.8	-0.7874 µg/L	-0.7874 ppb	07:46:43
1	Ti 334.940†	-479.3	151.3	0.3841 µg/L	0.3841 ppb	07:46:22
1	Tl 190.801†	-36.8	-7.1	-7.5504 µg/L	-7.5504 ppb	07:46:43
1	U 409.014†	-9.8	9.4	0.9042 µg/L	0.9042 ppb	07:46:22
1	V 292.402†	68.9	-60.8	-0.7700 µg/L	-0.7700 ppb	07:46:22
1	Zn 213.857†	571.5	39.3	0.9708 µg/L	0.9708 ppb	07:46:43
2	Sc RADIAL	83384.7	83384.7	97.2 %		07:45:20
2	Al 396.153Radial†	-101.7	1.5	0.7598 µg/L	0.7598 ppb	07:45:20
2	Ca 317.933Radial†	313.6	1.9	0.7519 µg/L	0.7519 ppb	07:45:41
2	Fe 238.204 Radial†	15.2	2.9	35.848 µg/L	35.848 ppb	07:45:41
2	K 766.490 Radial†	263.8	151.0	74.695 µg/L	74.695 ppb	07:45:20
2	Mg 279.077 IEC†	5.6	-3.5	-48.664 µg/L	-48.664 ppb	07:45:41
2	Na 589.592 Radial†	208.9	53.5	26.475 µg/L	26.475 ppb	07:45:20
2	Sr 421.552†	118.7	2.2	0.0139 µg/L	0.0139 ppb	07:45:20
2	Sc 361.383	1780932.4	1780932.4	96.676 %		07:46:49
2	Y 371.029	1240318.3	1240318.3	96.871 %		07:46:49
2	Ag 328.068†	-484.3	12.8	0.1097 µg/L	0.1097 ppb	07:46:54
2	As 188.979†	-0.9	0.7	1.1642 µg/L	1.1642 ppb	07:47:15
2	B 249.677†	338.5	17.4	0.8361 µg/L	0.8361 ppb	07:46:54
2	Ba 233.527†	-14.3	4.6	0.1082 µg/L	0.1082 ppb	07:47:15
2	Be 313.107†	-1238.7	62.1	0.0397 µg/L	0.0397 ppb	07:46:54
2	Cd 226.502†	-166.2	-6.1	-0.1628 µg/L	-0.1628 ppb	07:47:15
2	Co 228.616†	34.5	5.2	0.2442 µg/L	0.2442 ppb	07:47:15
2	Cr 267.716†	46.2	-42.7	-1.0196 µg/L	-1.0196 ppb	07:46:54
2	Cu 324.752†	4269.4	311.7	2.1858 µg/L	2.1858 ppb	07:46:54
2	Mn 257.610†	-690.8	6.7	0.0275 µg/L	0.0275 ppb	07:47:15
2	Mo 202.031†	24.7	15.0	1.6136 µg/L	1.6136 ppb	07:47:15
2	Ni 231.604†	365.0	20.8	1.2649 µg/L	1.2649 ppb	07:47:15
2	P 214.914†	288.1	9.9	17.630 µg/L	17.630 ppb	07:47:15
2	Pb 220.353†	44.3	11.9	3.3904 µg/L	3.3904 ppb	07:47:15

2	S 181.975 Axial†	17.4	-4.6	-15.975 µg/L	-15.975 ppb	07:47:15
2	Sb 206.836†	32.9	7.7	7.5475 µg/L	7.5475 ppb	07:47:15
2	Se 196.026†	24.6	5.5	5.7489 µg/L	5.7489 ppb	07:47:15
2	SiO2†	2636.1	78.2	15.193 µg/L	15.193 ppb	07:46:54
2	Si 251.611†	434.0	53.1	3.8730 µg/L	3.8730 ppb	07:47:15
2	Sn 189.927†	-1.3	2.4	1.0097 µg/L	1.0097 ppb	07:47:15
2	Ti 334.940†	-548.7	74.6	0.1925 µg/L	0.1925 ppb	07:46:54
2	Tl 190.801†	-29.4	0.1	0.1436 µg/L	0.1436 ppb	07:47:15
2	U 409.014†	24.4	44.6	4.3081 µg/L	4.3081 ppb	07:46:54
2	V 292.402†	89.0	-39.3	-0.4966 µg/L	-0.4966 ppb	07:46:54
2	Zn 213.857†	575.9	49.7	1.2235 µg/L	1.2235 ppb	07:47:15
3	Sc RADIAL	83512.5	83512.5	97.4 %		07:45:46
3	Al 396.153Radial†	-51.5	53.3	27.925 µg/L	27.925 ppb	07:45:46
3	Ca 317.933Radial†	314.2	2.1	0.8336 µg/L	0.8336 ppb	07:46:06
3	Fe 238.204 Radial†	11.7	-0.8	-9.3987 µg/L	-9.3987 ppb	07:46:06
3	K 766.490 Radial†	205.4	90.7	44.867 µg/L	44.867 ppb	07:45:46
3	Mg 279.077 IEC†	6.2	-2.9	-40.552 µg/L	-40.552 ppb	07:46:06
3	Na 589.592 Radial†	212.1	56.5	27.925 µg/L	27.925 ppb	07:45:46
3	Sr 421.552†	84.5	-33.1	-0.2069 µg/L	-0.2069 ppb	07:45:46
3	Sc 361.383	1782369.5	1782369.5	96.754 %		07:47:21
3	Y 371.029	1239474.1	1239474.1	96.805 %		07:47:21
3	Ag 328.068†	-596.8	-103.0	-0.8853 µg/L	-0.8853 ppb	07:47:27
3	As 188.979†	-0.6	1.1	1.6865 µg/L	1.6865 ppb	07:47:47
3	B 249.677†	351.5	30.6	1.5082 µg/L	1.5082 ppb	07:47:27
3	Ba 233.527†	-12.1	6.8	0.1622 µg/L	0.1622 ppb	07:47:47
3	Be 313.107†	-1177.2	126.7	0.0811 µg/L	0.0811 ppb	07:47:27
3	Cd 226.502†	-162.7	-2.4	-0.0599 µg/L	-0.0599 ppb	07:47:47
3	Co 228.616†	30.5	1.0	0.0461 µg/L	0.0461 ppb	07:47:47
3	Cr 267.716†	80.6	-7.2	-0.1724 µg/L	-0.1724 ppb	07:47:27
3	Cu 324.752†	4295.7	335.3	2.3422 µg/L	2.3422 ppb	07:47:27
3	Mn 257.610†	-690.3	7.8	0.0280 µg/L	0.0280 ppb	07:47:47
3	Mo 202.031†	20.1	10.2	1.0970 µg/L	1.0970 ppb	07:47:47
3	Ni 231.604†	358.1	13.3	0.8080 µg/L	0.8080 ppb	07:47:47
3	P 214.914†	274.4	-4.5	-8.3516 µg/L	-8.3516 ppb	07:47:47
3	Pb 220.353†	41.1	8.5	2.4265 µg/L	2.4265 ppb	07:47:47
3	S 181.975 Axial†	23.8	1.9	6.6334 µg/L	6.6334 ppb	07:47:47
3	Sb 206.836†	30.3	5.1	4.9468 µg/L	4.9468 ppb	07:47:47
3	Se 196.026†	13.0	-6.6	-6.7166 µg/L	-6.7166 ppb	07:47:47
3	SiO2†	2680.8	122.2	23.731 µg/L	23.731 ppb	07:47:27
3	Si 251.611†	437.1	55.9	4.0779 µg/L	4.0779 ppb	07:47:47
3	Sn 189.927†	0.5	4.3	1.8278 µg/L	1.8278 ppb	07:47:47
3	Ti 334.940†	-466.4	160.1	0.4083 µg/L	0.4083 ppb	07:47:27
3	Tl 190.801†	-31.3	-1.7	-1.8434 µg/L	-1.8434 ppb	07:47:47
3	U 409.014†	63.7	85.2	8.2365 µg/L	8.2365 ppb	07:47:27
3	V 292.402†	136.3	9.6	0.1411 µg/L	0.1411 ppb	07:47:27
3	Zn 213.857†	561.9	34.8	0.8569 µg/L	0.8569 ppb	07:47:47

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1787324.1	97.023 %	0.5348			0.55%
Sc RADIAL	82710.3	96.4 %	1.49			1.55%
Y 371.029	1243655.7	97.131 %	0.5096			0.52%
Ag 328.068†	-28.3	-0.2449 µg/L	0.55568	-0.2449 ppb	0.55568	226.92%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	37.3	19.510 µg/L	16.2662	19.510 ppb	16.2662	83.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.2	0.2652 µg/L	2.02622	0.2652 ppb	2.02622	763.90%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	18.0	0.8779 µg/L	0.61045	0.8779 ppb	0.61045	69.53%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.3	0.0782 µg/L	0.10234	0.0782 ppb	0.10234	130.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	126.3	0.0809 µg/L	0.04106	0.0809 ppb	0.04106	50.75%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	4.2	1.6774 µg/L	1.53286	1.6774 ppb	1.53286	91.38%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-3.8	-0.0998 µg/L	0.05519	-0.0998 ppb	0.05519	55.30%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	5.6	0.2619 µg/L	0.22515	0.2619 ppb	0.22515	85.97%

Cr	267.716†	-26.7	-0.6381 µg/L	0.42980	-0.6381 ppb	0.42980	67.36%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	326.0	2.2811 µg/L	0.08364	2.2811 ppb	0.08364	3.67%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	1.1	13.256 µg/L	22.6232	13.256 ppb	22.6232	170.66%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	128.2	63.402 µg/L	16.1794	63.402 ppb	16.1794	25.52%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.5	-35.171 µg/L	16.8402	-35.171 ppb	16.8402	47.88%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	13.3	0.0471 µg/L	0.03357	0.0471 ppb	0.03357	71.24%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	15.0	1.6075 µg/L	0.50744	1.6075 ppb	0.50744	31.57%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	58.3	28.816 µg/L	2.8918	28.816 ppb	2.8918	10.04%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	10.7	0.6483 µg/L	0.71014	0.6483 ppb	0.71014	109.55%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.3	0.3724 µg/L	14.94602	0.3724 ppb	14.94602	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	11.9	3.3899 µg/L	0.96310	3.3899 ppb	0.96310	28.41%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-2.9	-9.9049 µg/L	14.49054	-9.9049 ppb	14.49054	146.30%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	5.7	5.6040 µg/L	1.71222	5.6040 ppb	1.71222	30.55%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	1.3	1.3627 µg/L	7.00551	1.3627 ppb	7.00551	514.08%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		93.1	18.084 µg/L	4.8909	18.084 ppb	4.8909	27.05%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	53.4	3.9000 µg/L	0.16611	3.9000 ppb	0.16611	4.26%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	1.6	0.6834 µg/L	1.33783	0.6834 ppb	1.33783	195.77%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	-8.3	-0.0516 µg/L	0.13502	-0.0516 ppb	0.13502	261.58%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	128.6	0.3283 µg/L	0.11822	0.3283 ppb	0.11822	36.01%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-2.9	-3.0834 µg/L	3.99406	-3.0834 ppb	3.99406	129.54%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	46.4	4.4829 µg/L	3.66930	4.4829 ppb	3.66930	81.85%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-30.2	-0.3752 µg/L	0.46755	-0.3752 ppb	0.46755	124.62%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	41.3	1.0170 µg/L	0.18763	1.0170 ppb	0.18763	18.45%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 13
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 7
 Date Collected: 3/17/2010 08:20:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85241.9	85241.9	99.4 %		08:20:57
1	Al 396.153Radial†	9847.5	10014.4	5240.5 µg/L	5240.5 ppb	08:20:57
1	Ca 317.933Radial†	13013.7	12773.4	5118.4 µg/L	5118.4 ppb	08:20:57
1	Fe 238.204 Radial†	407.3	397.0	4975.8 µg/L	4975.8 ppb	08:21:18
1	K 766.490 Radial†	10332.8	10276.3	5083.7 µg/L	5083.7 ppb	08:20:57
1	Mg 279.077 IEC†	360.9	353.9	4981.7 µg/L	4981.7 ppb	08:21:18
1	Na 589.592 Radial†	19967.9	19929.8	9855.2 µg/L	9855.2 ppb	08:20:57
1	Sr 421.552†	80815.3	81194.1	507.79 µg/L	507.79 ppb	08:20:57
1	Sc 361.383	1793378.5	1793378.5	97.352 %		08:22:21
1	Y 371.029	1244187.2	1244187.2	97.173 %		08:22:21
1	Ag 328.068†	57245.2	59316.2	513.64 µg/L	513.64 ppb	08:22:27
1	As 188.979†	316.4	326.6	521.92 µg/L	521.92 ppb	08:22:47
1	B 249.677†	10330.5	10278.8	503.52 µg/L	503.52 ppb	08:22:27
1	Ba 233.527†	21089.1	21682.1	514.61 µg/L	514.61 ppb	08:22:27
1	Be 313.107†	777615.6	800110.7	513.07 µg/L	513.07 ppb	08:22:21
1	Cd 226.502†	18850.2	19528.8	511.03 µg/L	511.03 ppb	08:22:27
1	Co 228.616†	10847.9	11112.4	516.95 µg/L	516.95 ppb	08:22:27
1	Cr 267.716†	21318.4	21807.7	520.88 µg/L	520.88 ppb	08:22:27
1	Cu 324.752†	76537.4	74514.8	521.83 µg/L	521.83 ppb	08:22:27
1	Mn 257.610†	152154.4	157014.3	519.12 µg/L	519.12 ppb	08:22:21
1	Mo 202.031†	4850.7	4972.2	533.10 µg/L	533.10 ppb	08:22:47
1	Ni 231.604†	8577.9	8454.5	512.91 µg/L	512.91 ppb	08:22:27
1	P 214.914†	1697.7	1455.7	2589.2 µg/L	2589.2 ppb	08:22:47
1	Pb 220.353†	1832.2	1848.1	526.74 µg/L	526.74 ppb	08:22:47
1	S 181.975 Axial†	324.2	310.4	1069.5 µg/L	1069.5 ppb	08:22:47
1	Sb 206.836†	554.9	543.7	529.58 µg/L	529.58 ppb	08:22:47
1	Se 196.026†	514.4	508.5	529.91 µg/L	529.91 ppb	08:22:47
1	SiO2†	30484.7	28665.4	5566.0 µg/L	5566.0 ppb	08:22:27
1	Si 251.611†	35044.2	35601.5	2598.6 µg/L	2598.6 ppb	08:22:27
1	Sn 189.927†	1187.2	1223.2	526.13 µg/L	526.13 ppb	08:22:47
1	Ti 334.940†	197634.3	203652.3	515.01 µg/L	515.01 ppb	08:22:21
1	Tl 190.801†	446.1	488.8	525.60 µg/L	525.60 ppb	08:22:47
1	U 409.014†	5306.0	5469.7	527.50 µg/L	527.50 ppb	08:22:27
1	V 292.402†	39206.4	40141.5	522.89 µg/L	522.89 ppb	08:22:27
1	Zn 213.857†	21179.4	21209.5	521.65 µg/L	521.65 ppb	08:22:27
2	Sc RADIAL	85200.6	85200.6	99.3 %		08:21:23
2	Al 396.153Radial†	9763.5	9934.7	5198.8 µg/L	5198.8 ppb	08:21:23
2	Ca 317.933Radial†	12928.9	12694.3	5086.7 µg/L	5086.7 ppb	08:21:23
2	Fe 238.204 Radial†	408.1	398.0	4987.4 µg/L	4987.4 ppb	08:21:44
2	K 766.490 Radial†	10104.5	10051.4	4972.4 µg/L	4972.4 ppb	08:21:23
2	Mg 279.077 IEC†	363.4	356.7	5019.9 µg/L	5019.9 ppb	08:21:44
2	Na 589.592 Radial†	19905.2	19876.4	9828.8 µg/L	9828.8 ppb	08:21:23
2	Sr 421.552†	80464.8	80880.7	505.83 µg/L	505.83 ppb	08:21:23
2	Sc 361.383	1812990.5	1812990.5	98.417 %		08:22:54
2	Y 371.029	1257231.2	1257231.2	98.192 %		08:22:54
2	Ag 328.068†	57443.3	58881.3	509.88 µg/L	509.88 ppb	08:23:00
2	As 188.979†	317.1	323.8	517.44 µg/L	517.44 ppb	08:23:21
2	B 249.677†	10445.8	10281.2	503.63 µg/L	503.63 ppb	08:23:00
2	Ba 233.527†	21145.0	21504.6	510.40 µg/L	510.40 ppb	08:23:00
2	Be 313.107†	786508.6	800506.2	513.32 µg/L	513.32 ppb	08:22:54
2	Cd 226.502†	19003.4	19475.0	509.62 µg/L	509.62 ppb	08:23:00
2	Co 228.616†	10872.1	11016.6	512.48 µg/L	512.48 ppb	08:23:00
2	Cr 267.716†	21517.1	21772.7	520.04 µg/L	520.04 ppb	08:23:00
2	Cu 324.752†	76752.7	73883.1	517.41 µg/L	517.41 ppb	08:23:00
2	Mn 257.610†	153815.1	157011.1	519.11 µg/L	519.11 ppb	08:22:54
2	Mo 202.031†	4810.2	4877.1	522.91 µg/L	522.91 ppb	08:23:21
2	Ni 231.604†	8675.2	8458.0	513.14 µg/L	513.14 ppb	08:23:00
2	P 214.914†	1701.1	1440.3	2561.7 µg/L	2561.7 ppb	08:23:21
2	Pb 220.353†	1814.7	1810.0	515.86 µg/L	515.86 ppb	08:23:21

2	S 181.975 Axial†	309.6	291.9	1006.0 µg/L	1006.0 ppb	08:23:21
2	Sb 206.836†	548.0	530.6	516.72 µg/L	516.72 ppb	08:23:21
2	Se 196.026†	527.8	516.3	537.96 µg/L	537.96 ppb	08:23:21
2	SiO2†	30704.8	28550.3	5543.6 µg/L	5543.6 ppb	08:23:00
2	Si 251.611†	35289.0	35461.0	2588.3 µg/L	2588.3 ppb	08:23:00
2	Sn 189.927†	1190.4	1213.3	521.86 µg/L	521.86 ppb	08:23:21
2	Ti 334.940†	199593.3	203446.8	514.49 µg/L	514.49 ppb	08:22:54
2	Tl 190.801†	441.6	479.3	515.44 µg/L	515.44 ppb	08:23:21
2	U 409.014†	5350.7	5456.2	526.19 µg/L	526.19 ppb	08:23:00
2	V 292.402†	39382.9	39885.1	519.50 µg/L	519.50 ppb	08:23:00
2	Zn 213.857†	21304.9	21101.7	518.99 µg/L	518.99 ppb	08:23:00
3	Sc RADIAL	86066.0	86066.0	100 %		08:21:49
3	Al 396.153Radial†	9785.7	9858.0	5160.5 µg/L	5160.5 ppb	08:21:49
3	Ca 317.933Radial†	13094.3	12728.3	5100.3 µg/L	5100.3 ppb	08:21:49
3	Fe 238.204 Radial†	407.1	392.9	4922.9 µg/L	4922.9 ppb	08:22:10
3	K 766.490 Radial†	10284.2	10128.2	5010.4 µg/L	5010.4 ppb	08:21:49
3	Mg 279.077 IEC†	361.1	350.7	4934.5 µg/L	4934.5 ppb	08:22:10
3	Na 589.592 Radial†	20037.7	19807.0	9794.5 µg/L	9794.5 ppb	08:21:49
3	Sr 421.552†	81113.2	80712.5	504.78 µg/L	504.78 ppb	08:21:49
3	Sc 361.383	1816046.8	1816046.8	98.582 %		08:23:28
3	Y 371.029	1262378.7	1262378.7	98.594 %		08:23:28
3	Ag 328.068†	54283.6	55578.0	481.14 µg/L	481.14 ppb	08:23:33
3	As 188.979†	265.5	271.0	432.79 µg/L	432.79 ppb	08:23:54
3	B 249.677†	9802.3	9610.5	470.59 µg/L	470.59 ppb	08:23:33
3	Ba 233.527†	19409.2	19707.7	467.73 µg/L	467.73 ppb	08:23:33
3	Be 313.107†	732820.2	744700.9	477.54 µg/L	477.54 ppb	08:23:28
3	Cd 226.502†	17427.3	17843.7	466.89 µg/L	466.89 ppb	08:23:33
3	Co 228.616†	9869.8	9981.2	464.26 µg/L	464.26 ppb	08:23:33
3	Cr 267.716†	19010.1	19193.0	458.43 µg/L	458.43 ppb	08:23:33
3	Cu 324.752†	70007.4	66909.5	468.65 µg/L	468.65 ppb	08:23:33
3	Mn 257.610†	143696.9	146484.4	484.30 µg/L	484.30 ppb	08:23:28
3	Mo 202.031†	3999.2	4046.1	433.85 µg/L	433.85 ppb	08:23:54
3	Ni 231.604†	7933.5	7690.8	466.60 µg/L	466.60 ppb	08:23:33
3	P 214.914†	1477.3	1210.4	2148.7 µg/L	2148.7 ppb	08:23:54
3	Pb 220.353†	1573.2	1561.9	445.11 µg/L	445.11 ppb	08:23:54
3	S 181.975 Axial†	282.4	263.9	909.22 µg/L	909.22 ppb	08:23:54
3	Sb 206.836†	470.0	450.5	438.34 µg/L	438.34 ppb	08:23:54
3	Se 196.026†	454.6	441.1	461.14 µg/L	461.14 ppb	08:23:54
3	SiO2†	28610.5	26373.3	5120.9 µg/L	5120.9 ppb	08:23:33
3	Si 251.611†	32809.0	32884.9	2400.3 µg/L	2400.3 ppb	08:23:33
3	Sn 189.927†	971.5	989.2	425.58 µg/L	425.58 ppb	08:23:54
3	Ti 334.940†	184820.3	188120.0	475.71 µg/L	475.71 ppb	08:23:28
3	Tl 190.801†	391.0	427.2	459.64 µg/L	459.64 ppb	08:23:54
3	U 409.014†	4699.5	4786.5	461.49 µg/L	461.49 ppb	08:23:33
3	V 292.402†	35519.9	35899.3	467.21 µg/L	467.21 ppb	08:23:33
3	Zn 213.857†	19371.3	19103.9	469.80 µg/L	469.80 ppb	08:23:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1807471.9	98.117 %	0.6677			0.68%
Sc RADIAL	85502.8	99.7 %	0.57			0.57%
Y 371.029	1254599.0	97.986 %	0.7324			0.75%
Ag 328.068†	57925.2	501.55 µg/L	17.776	501.55 ppb	17.776	3.54%
QC value within limits for Ag 328.068 Recovery = 100.31%						
Al 396.153Radial†	9935.7	5199.9 µg/L	40.00	5199.9 ppb	40.00	0.77%
QC value within limits for Al 396.153Radial Recovery = 104.00%						
As 188.979†	307.1	490.72 µg/L	50.213	490.72 ppb	50.213	10.23%
QC value within limits for As 188.979 Recovery = 98.14%						
B 249.677†	10056.8	492.58 µg/L	19.040	492.58 ppb	19.040	3.87%
QC value within limits for B 249.677 Recovery = 98.52%						
Ba 233.527†	20964.8	497.58 µg/L	25.933	497.58 ppb	25.933	5.21%
QC value within limits for Ba 233.527 Recovery = 99.52%						
Be 313.107†	781772.6	501.31 µg/L	20.587	501.31 ppb	20.587	4.11%
QC value within limits for Be 313.107 Recovery = 100.26%						
Ca 317.933Radial†	12732.0	5101.8 µg/L	15.89	5101.8 ppb	15.89	0.31%
QC value within limits for Ca 317.933Radial Recovery = 102.04%						
Cd 226.502†	18949.2	495.85 µg/L	25.086	495.85 ppb	25.086	5.06%
QC value within limits for Cd 226.502 Recovery = 99.17%						
Co 228.616†	10703.4	497.90 µg/L	29.217	497.90 ppb	29.217	5.87%

Cr	267.716†	20924.5	499.79 µg/L	35.816	499.79 ppb	35.816	7.17%
QC value within limits for Cr 267.716 Recovery = 99.96%							
Cu	324.752†	71769.1	502.63 µg/L	29.508	502.63 ppb	29.508	5.87%
QC value within limits for Cu 324.752 Recovery = 100.53%							
Fe	238.204 Radial†	396.0	4962.0 µg/L	34.40	4962.0 ppb	34.40	0.69%
QC value within limits for Fe 238.204 Radial Recovery = 99.24%							
K	766.490 Radial†	10152.0	5022.2 µg/L	56.53	5022.2 ppb	56.53	1.13%
QC value within limits for K 766.490 Radial Recovery = 100.44%							
Mg	279.077 IEC†	353.8	4978.7 µg/L	42.79	4978.7 ppb	42.79	0.86%
QC value within limits for Mg 279.077 IEC Recovery = 99.57%							
Mn	257.610†	153503.3	507.51 µg/L	20.098	507.51 ppb	20.098	3.96%
QC value within limits for Mn 257.610 Recovery = 101.50%							
Mo	202.031†	4631.8	496.62 µg/L	54.599	496.62 ppb	54.599	10.99%
QC value within limits for Mo 202.031 Recovery = 99.32%							
Na	589.592 Radial†	19871.1	9826.2 µg/L	30.46	9826.2 ppb	30.46	0.31%
QC value within limits for Na 589.592 Radial Recovery = 98.26%							
Ni	231.604†	8201.1	497.55 µg/L	26.805	497.55 ppb	26.805	5.39%
QC value within limits for Ni 231.604 Recovery = 99.51%							
P	214.914†	1368.8	2433.2 µg/L	246.76	2433.2 ppb	246.76	10.14%
QC value within limits for P 214.914 Recovery = 97.33%							
Pb	220.353†	1740.0	495.90 µg/L	44.318	495.90 ppb	44.318	8.94%
QC value within limits for Pb 220.353 Recovery = 99.18%							
S	181.975 Axial†	288.7	994.89 µg/L	80.695	994.89 ppb	80.695	8.11%
QC value within limits for S 181.975 Axial Recovery = 99.49%							
Sb	206.836†	508.3	494.88 µg/L	49.390	494.88 ppb	49.390	9.98%
QC value within limits for Sb 206.836 Recovery = 98.98%							
Se	196.026†	488.6	509.67 µg/L	42.223	509.67 ppb	42.223	8.28%
QC value within limits for Se 196.026 Recovery = 101.93%							
SiO2†		27863.0	5410.2 µg/L	250.74	5410.2 ppb	250.74	4.63%
QC value within limits for SiO2 Recovery = 101.17%							
Si	251.611†	34649.1	2529.1 µg/L	111.64	2529.1 ppb	111.64	4.41%
QC value within limits for Si 251.611 Recovery = 101.16%							
Sn	189.927†	1141.9	491.19 µg/L	56.861	491.19 ppb	56.861	11.58%
QC value within limits for Sn 189.927 Recovery = 98.24%							
Sr	421.552†	80929.1	506.13 µg/L	1.529	506.13 ppb	1.529	0.30%
QC value within limits for Sr 421.552 Recovery = 101.23%							
Ti	334.940†	198406.3	501.74 µg/L	22.540	501.74 ppb	22.540	4.49%
QC value within limits for Ti 334.940 Recovery = 100.35%							
Tl	190.801†	465.1	500.23 µg/L	35.513	500.23 ppb	35.513	7.10%
QC value within limits for Tl 190.801 Recovery = 100.05%							
U	409.014†	5237.5	505.06 µg/L	37.738	505.06 ppb	37.738	7.47%
QC value within limits for U 409.014 Recovery = 101.01%							
V	292.402†	38642.0	503.20 µg/L	31.213	503.20 ppb	31.213	6.20%
QC value within limits for V 292.402 Recovery = 100.64%							
Zn	213.857†	20471.7	503.48 µg/L	29.198	503.48 ppb	29.198	5.80%
QC value within limits for Zn 213.857 Recovery = 100.70%							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 08:24:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	83990.6	83990.6	97.9 %			08:24:34
1	Al 396.153Radial†	-118.4	-14.7	-7.7319 µg/L		-7.7319 ppb	08:24:34
1	Ca 317.933Radial†	309.1	-5.0	-1.9971 µg/L		-1.9971 ppb	08:24:54
1	Fe 238.204 Radial†	14.3	1.8	23.095 µg/L		23.095 ppb	08:24:54
1	K 766.490 Radial†	135.5	18.0	8.9280 µg/L		8.9280 ppb	08:24:34
1	Mg 279.077 IEC†	5.1	-4.0	-55.772 µg/L		-55.772 ppb	08:24:54
1	Na 589.592 Radial†	197.6	40.5	20.017 µg/L		20.017 ppb	08:24:34
1	Sr 421.552†	141.0	24.1	0.1505 µg/L		0.1505 ppb	08:24:34
1	Sc 361.383	1808570.7	1808570.7	98.177 %			08:25:56
1	Y 371.029	1260044.6	1260044.6	98.411 %			08:25:56
1	Ag 328.068†	-530.0	-26.0	-0.2273 µg/L		-0.2273 ppb	08:26:02
1	As 188.979†	-5.8	-4.2	-6.7372 µg/L		-6.7372 ppb	08:26:22
1	B 249.677†	301.6	-25.5	-1.2646 µg/L		-1.2646 ppb	08:26:02
1	Ba 233.527†	-14.4	4.8	0.1113 µg/L		0.1113 ppb	08:26:22
1	Be 313.107†	-1141.7	180.5	0.1157 µg/L		0.1157 ppb	08:26:02
1	Cd 226.502†	-167.6	-4.9	-0.1314 µg/L		-0.1314 ppb	08:26:22
1	Co 228.616†	38.7	8.9	0.4156 µg/L		0.4156 ppb	08:26:22
1	Cr 267.716†	53.6	-35.9	-0.8583 µg/L		-0.8583 ppb	08:26:02
1	Cu 324.752†	4064.3	35.3	0.2511 µg/L		0.2511 ppb	08:26:02
1	Mn 257.610†	-667.0	41.9	0.1437 µg/L		0.1437 ppb	08:26:22
1	Mo 202.031†	16.9	6.7	0.7196 µg/L		0.7196 ppb	08:26:22
1	Ni 231.604†	360.1	10.0	0.6061 µg/L		0.6061 ppb	08:26:22
1	P 214.914†	285.8	2.9	5.2563 µg/L		5.2563 ppb	08:26:22
1	Pb 220.353†	36.3	3.0	0.8623 µg/L		0.8623 ppb	08:26:22
1	S 181.975 Axial†	26.2	4.1	14.084 µg/L		14.084 ppb	08:26:22
1	Sb 206.836†	30.0	4.3	4.1751 µg/L		4.1751 ppb	08:26:22
1	Se 196.026†	18.4	-1.2	-1.1167 µg/L		-1.1167 ppb	08:26:22
1	SiO2†	2668.5	69.5	13.498 µg/L		13.498 ppb	08:26:02
1	Si 251.611†	474.3	87.2	6.3672 µg/L		6.3672 ppb	08:26:22
1	Sn 189.927†	-8.2	-4.6	-1.9890 µg/L		-1.9890 ppb	08:26:22
1	Ti 334.940†	-505.8	127.0	0.3257 µg/L		0.3257 ppb	08:26:02
1	Tl 190.801†	-34.5	-4.5	-4.7993 µg/L		-4.7993 ppb	08:26:22
1	U 409.014†	-43.9	-25.3	-2.4520 µg/L		-2.4520 ppb	08:26:02
1	V 292.402†	67.2	-62.9	-0.8129 µg/L		-0.8129 ppb	08:26:02
1	Zn 213.857†	555.9	20.3	0.5010 µg/L		0.5010 ppb	08:26:22
2	Sc RADIAL	83678.9	83678.9	97.6 %			08:25:00
2	Al 396.153Radial†	-100.3	3.4	1.7505 µg/L		1.7505 ppb	08:25:00
2	Ca 317.933Radial†	320.5	7.9	3.1482 µg/L		3.1482 ppb	08:25:20
2	Fe 238.204 Radial†	14.9	2.5	30.768 µg/L		30.768 ppb	08:25:20
2	K 766.490 Radial†	124.8	7.6	3.7539 µg/L		3.7539 ppb	08:25:00
2	Mg 279.077 IEC†	8.6	-0.3	-4.8341 µg/L		-4.8341 ppb	08:25:20
2	Na 589.592 Radial†	224.1	68.4	33.804 µg/L		33.804 ppb	08:25:00
2	Sr 421.552†	122.0	5.2	0.0323 µg/L		0.0323 ppb	08:25:00
2	Sc 361.383	1811187.5	1811187.5	98.319 %			08:26:28
2	Y 371.029	1259109.0	1259109.0	98.338 %			08:26:28
2	Ag 328.068†	-550.2	-45.8	-0.3973 µg/L		-0.3973 ppb	08:26:34
2	As 188.979†	-5.7	-4.1	-6.5960 µg/L		-6.5960 ppb	08:26:54
2	B 249.677†	282.4	-45.5	-2.2528 µg/L		-2.2528 ppb	08:26:34
2	Ba 233.527†	-23.0	-4.0	-0.0955 µg/L		-0.0955 ppb	08:26:54
2	Be 313.107†	-1155.8	167.8	0.1075 µg/L		0.1075 ppb	08:26:34
2	Cd 226.502†	-180.4	-17.7	-0.4662 µg/L		-0.4662 ppb	08:26:54
2	Co 228.616†	22.1	-8.1	-0.3746 µg/L		-0.3746 ppb	08:26:54
2	Cr 267.716†	68.5	-20.9	-0.4984 µg/L		-0.4984 ppb	08:26:34
2	Cu 324.752†	4186.3	153.4	1.0779 µg/L		1.0779 ppb	08:26:34
2	Mn 257.610†	-668.1	41.7	0.1402 µg/L		0.1402 ppb	08:26:54
2	Mo 202.031†	22.6	12.5	1.3400 µg/L		1.3400 ppb	08:26:54
2	Ni 231.604†	354.7	4.0	0.2436 µg/L		0.2436 ppb	08:26:54
2	P 214.914†	277.7	-5.7	-10.410 µg/L		-10.410 ppb	08:26:54
2	Pb 220.353†	32.5	-0.9	-0.2439 µg/L		-0.2439 ppb	08:26:54

2	S 181.975 Axial†	23.0	0.7	2.5048 µg/L	2.5048 ppb	08:26:54
2	Sb 206.836†	27.7	1.9	1.8965 µg/L	1.8965 ppb	08:26:54
2	Se 196.026†	14.1	-5.6	-5.6436 µg/L	-5.6436 ppb	08:26:54
2	SiO2†	2606.8	2.8	0.5533 µg/L	0.5533 ppb	08:26:34
2	Si 251.611†	449.9	61.7	4.5061 µg/L	4.5061 ppb	08:26:54
2	Sn 189.927†	-3.5	0.2	0.0660 µg/L	0.0660 ppb	08:26:54
2	Ti 334.940†	-541.1	91.8	0.2327 µg/L	0.2327 ppb	08:26:34
2	Tl 190.801†	-30.4	-0.3	-0.3083 µg/L	-0.3083 ppb	08:26:54
2	U 409.014†	10.1	29.6	2.8581 µg/L	2.8581 ppb	08:26:34
2	V 292.402†	56.2	-74.2	-0.9489 µg/L	-0.9489 ppb	08:26:34
2	Zn 213.857†	561.7	25.3	0.6230 µg/L	0.6230 ppb	08:26:54
3	Sc RADIAL	83625.6	83625.6	97.5 %		08:25:25
3	Al 396.153Radial†	-111.7	-8.4	-4.3990 µg/L	-4.3990 ppb	08:25:25
3	Ca 317.933Radial†	309.9	-2.8	-1.1104 µg/L	-1.1104 ppb	08:25:46
3	Fe 238.204 Radial†	14.3	1.9	23.304 µg/L	23.304 ppb	08:25:46
3	K 766.490 Radial†	127.1	10.1	4.9853 µg/L	4.9853 ppb	08:25:25
3	Mg 279.077 IEC†	7.2	-1.8	-25.049 µg/L	-25.049 ppb	08:25:46
3	Na 589.592 Radial†	180.2	23.5	11.612 µg/L	11.612 ppb	08:25:25
3	Sr 421.552†	132.1	15.5	0.0971 µg/L	0.0971 ppb	08:25:25
3	Sc 361.383	1816244.4	1816244.4	98.593 %		08:27:00
3	Y 371.029	1260736.7	1260736.7	98.465 %		08:27:00
3	Ag 328.068†	-491.8	15.0	0.1287 µg/L	0.1287 ppb	08:27:06
3	As 188.979†	-3.8	-2.2	-3.5052 µg/L	-3.5052 ppb	08:27:27
3	B 249.677†	315.0	-13.2	-0.6617 µg/L	-0.6617 ppb	08:27:06
3	Ba 233.527†	-14.8	4.4	0.1041 µg/L	0.1041 ppb	08:27:27
3	Be 313.107†	-1176.2	150.4	0.0964 µg/L	0.0964 ppb	08:27:06
3	Cd 226.502†	-159.9	3.7	0.0940 µg/L	0.0940 ppb	08:27:27
3	Co 228.616†	32.5	2.5	0.1157 µg/L	0.1157 ppb	08:27:27
3	Cr 267.716†	70.4	-19.2	-0.4577 µg/L	-0.4577 ppb	08:27:06
3	Cu 324.752†	4081.6	35.4	0.2517 µg/L	0.2517 ppb	08:27:06
3	Mn 257.610†	-682.3	29.2	0.0996 µg/L	0.0996 ppb	08:27:27
3	Mo 202.031†	18.4	8.2	0.8760 µg/L	0.8760 ppb	08:27:27
3	Ni 231.604†	357.6	6.0	0.3638 µg/L	0.3638 ppb	08:27:27
3	P 214.914†	288.7	4.7	8.4985 µg/L	8.4985 ppb	08:27:27
3	Pb 220.353†	32.6	-0.9	-0.2418 µg/L	-0.2418 ppb	08:27:27
3	S 181.975 Axial†	21.6	-0.8	-2.6534 µg/L	-2.6534 ppb	08:27:27
3	Sb 206.836†	27.4	1.5	1.4845 µg/L	1.4845 ppb	08:27:27
3	Se 196.026†	27.2	7.6	7.8823 µg/L	7.8823 ppb	08:27:27
3	SiO2†	2640.0	29.2	5.6640 µg/L	5.6640 ppb	08:27:06
3	Si 251.611†	467.4	78.2	5.7104 µg/L	5.7104 ppb	08:27:27
3	Sn 189.927†	-2.6	1.0	0.4469 µg/L	0.4469 ppb	08:27:27
3	Ti 334.940†	-505.9	129.0	0.3284 µg/L	0.3284 ppb	08:27:06
3	Tl 190.801†	-33.8	-3.7	-3.8951 µg/L	-3.8951 ppb	08:27:27
3	U 409.014†	-14.0	5.2	0.4961 µg/L	0.4961 ppb	08:27:06
3	V 292.402†	106.2	-23.7	-0.3018 µg/L	-0.3018 ppb	08:27:06
3	Zn 213.857†	562.4	24.4	0.6027 µg/L	0.6027 ppb	08:27:27

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1812000.9	98.363 %	0.2118			0.22%
Sc RADIAL	83765.0	97.7 %	0.23			0.24%
Y 371.029	1259963.5	98.405 %	0.0638			0.06%
Ag 328.068†	-18.9	-0.1653 µg/L	0.26841	-0.1653 ppb	0.26841	162.36%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-6.6	-3.4601 µg/L	4.81045	-3.4601 ppb	4.81045	139.03%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.5	-5.6128 µg/L	1.82661	-5.6128 ppb	1.82661	32.54%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-28.0	-1.3930 µg/L	0.80332	-1.3930 ppb	0.80332	57.67%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.7	0.0400 µg/L	0.11740	0.0400 ppb	0.11740	293.85%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	166.2	0.1065 µg/L	0.00970	0.1065 ppb	0.00970	9.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	0.0	0.0136 µg/L	2.75068	0.0136 ppb	2.75068	>999.9%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-6.3	-0.1679 µg/L	0.28183	-0.1679 ppb	0.28183	167.88%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.1	0.0522 µg/L	0.39887	0.0522 ppb	0.39887	763.74%

Cr	267.716†	-25.3	-0.6048 µg/L	0.22047	-0.6048 ppb	0.22047	36.45%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	74.7	0.5269 µg/L	0.47717	0.5269 ppb	0.47717	90.57%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	2.1	25.722 µg/L	4.3712	25.722 ppb	4.3712	16.99%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	11.9	5.8891 µg/L	2.70289	5.8891 ppb	2.70289	45.90%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-2.0	-28.552 µg/L	25.6491	-28.552 ppb	25.6491	89.83%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	37.6	0.1278 µg/L	0.02450	0.1278 ppb	0.02450	19.17%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	9.1	0.9785 µg/L	0.32266	0.9785 ppb	0.32266	32.97%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	44.1	21.811 µg/L	11.2040	21.811 ppb	11.2040	51.37%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	6.7	0.4045 µg/L	0.18465	0.4045 ppb	0.18465	45.65%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	0.7	1.1150 µg/L	10.11156	1.1150 ppb	10.11156	906.88%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	0.4	0.1255 µg/L	0.63803	0.1255 ppb	0.63803	508.21%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	1.3	4.6452 µg/L	8.57155	4.6452 ppb	8.57155	184.53%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	2.6	2.5187 µg/L	1.44921	2.5187 ppb	1.44921	57.54%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.3	0.3740 µg/L	6.88505	0.3740 ppb	6.88505	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		33.8	6.5718 µg/L	6.51998	6.5718 ppb	6.51998	99.21%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	75.7	5.5279 µg/L	0.94391	5.5279 ppb	0.94391	17.08%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	-1.1	-0.4920 µg/L	1.31035	-0.4920 ppb	1.31035	266.31%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	14.9	0.0933 µg/L	0.05917	0.0933 ppb	0.05917	63.42%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	115.9	0.2956 µg/L	0.05453	0.2956 ppb	0.05453	18.44%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-2.8	-3.0009 µg/L	2.37526	-3.0009 ppb	2.37526	79.15%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	3.1	0.3007 µg/L	2.66043	0.3007 ppb	2.66043	884.74%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-53.6	-0.6879 µg/L	0.34116	-0.6879 ppb	0.34116	49.60%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	23.3	0.5756 µg/L	0.06535	0.5756 ppb	0.06535	11.35%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 24

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 09:00:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	84041.3	84041.3	98.0 %		09:00:59
1	Al 396.153Radial†	10208.3	10524.2	5507.2 µg/L	5507.2 ppb	09:00:59
1	Ca 317.933Radial†	13584.1	13542.5	5426.6 µg/L	5426.6 ppb	09:00:59
1	Fe 238.204 Radial†	418.0	413.8	5186.6 µg/L	5186.6 ppb	09:01:19
1	K 766.490 Radial†	10556.1	10652.6	5269.8 µg/L	5269.8 ppb	09:00:59
1	Mg 279.077 IEC†	376.7	375.3	5282.4 µg/L	5282.4 ppb	09:01:19
1	Na 589.592 Radial†	20105.3	20357.1	10067 µg/L	10067 ppb	09:00:59
1	Sr 421.552†	82787.3	84368.4	527.64 µg/L	527.64 ppb	09:00:59
1	Sc 361.383	1800175.3	1800175.3	97.721 %		09:02:23
1	Y 371.029	1246931.3	1246931.3	97.387 %		09:02:23
1	Ag 328.068†	59700.6	61606.8	533.52 µg/L	533.52 ppb	09:02:29
1	As 188.979†	345.0	354.7	566.82 µg/L	566.82 ppb	09:02:49
1	B 249.677†	10883.0	10804.1	529.28 µg/L	529.28 ppb	09:02:29
1	Ba 233.527†	22402.5	22944.4	544.56 µg/L	544.56 ppb	09:02:29
1	Be 313.107†	828647.8	849317.2	544.62 µg/L	544.62 ppb	09:02:23
1	Cd 226.502†	20259.1	20897.4	546.86 µg/L	546.86 ppb	09:02:29
1	Co 228.616†	11563.7	11802.9	549.08 µg/L	549.08 ppb	09:02:29
1	Cr 267.716†	22737.9	23177.7	553.60 µg/L	553.60 ppb	09:02:29
1	Cu 324.752†	79829.1	77586.4	543.34 µg/L	543.34 ppb	09:02:29
1	Mn 257.610†	162332.7	166839.9	551.60 µg/L	551.60 ppb	09:02:23
1	Mo 202.031†	5143.2	5252.6	563.17 µg/L	563.17 ppb	09:02:49
1	Ni 231.604†	9197.3	9055.1	549.35 µg/L	549.35 ppb	09:02:29
1	P 214.914†	1786.0	1539.5	2739.4 µg/L	2739.4 ppb	09:02:49
1	Pb 220.353†	1940.2	1951.5	556.22 µg/L	556.22 ppb	09:02:49
1	S 181.975 Axial†	334.4	319.5	1101.1 µg/L	1101.1 ppb	09:02:49
1	Sb 206.836†	584.9	572.2	557.37 µg/L	557.37 ppb	09:02:49
1	Se 196.026†	545.5	538.2	560.66 µg/L	560.66 ppb	09:02:49
1	SiO2†	32105.0	30205.2	5865.0 µg/L	5865.0 ppb	09:02:29
1	Si 251.611†	37084.4	37553.5	2741.0 µg/L	2741.0 ppb	09:02:29
1	Sn 189.927†	1295.8	1329.8	571.96 µg/L	571.96 ppb	09:02:49
1	Ti 334.940†	209017.6	214534.5	542.53 µg/L	542.53 ppb	09:02:23
1	Tl 190.801†	469.9	511.5	549.96 µg/L	549.96 ppb	09:02:49
1	U 409.014†	5577.0	5726.4	552.26 µg/L	552.26 ppb	09:02:29
1	V 292.402†	41424.8	42259.5	550.51 µg/L	550.51 ppb	09:02:29
1	Zn 213.857†	22512.9	22492.0	553.19 µg/L	553.19 ppb	09:02:29
2	Sc RADIAL	84324.5	84324.5	98.3 %		09:01:25
2	Al 396.153Radial†	10215.2	10496.2	5492.7 µg/L	5492.7 ppb	09:01:25
2	Ca 317.933Radial†	13603.2	13515.4	5415.7 µg/L	5415.7 ppb	09:01:25
2	Fe 238.204 Radial†	419.0	413.3	5180.2 µg/L	5180.2 ppb	09:01:45
2	K 766.490 Radial†	10520.7	10580.5	5234.2 µg/L	5234.2 ppb	09:01:25
2	Mg 279.077 IEC†	375.7	372.9	5248.4 µg/L	5248.4 ppb	09:01:45
2	Na 589.592 Radial†	20127.4	20310.6	10044 µg/L	10044 ppb	09:01:25
2	Sr 421.552†	82865.8	84164.4	526.37 µg/L	526.37 ppb	09:01:25
2	Sc 361.383	1801083.3	1801083.3	97.770 %		09:02:57
2	Y 371.029	1247307.5	1247307.5	97.417 %		09:02:57
2	Ag 328.068†	59801.9	61679.6	534.15 µg/L	534.15 ppb	09:03:02
2	As 188.979†	331.2	340.5	544.01 µg/L	544.01 ppb	09:03:23
2	B 249.677†	10929.9	10846.5	531.37 µg/L	531.37 ppb	09:03:02
2	Ba 233.527†	22473.6	23005.5	546.01 µg/L	546.01 ppb	09:03:02
2	Be 313.107†	828400.2	848636.6	544.19 µg/L	544.19 ppb	09:02:57
2	Cd 226.502†	20205.0	20831.6	545.14 µg/L	545.14 ppb	09:03:02
2	Co 228.616†	11570.5	11803.8	549.11 µg/L	549.11 ppb	09:03:02
2	Cr 267.716†	22761.3	23189.8	553.89 µg/L	553.89 ppb	09:03:02
2	Cu 324.752†	79988.6	77708.4	544.19 µg/L	544.19 ppb	09:03:02
2	Mn 257.610†	162019.8	166436.2	550.27 µg/L	550.27 ppb	09:02:57
2	Mo 202.031†	5038.3	5142.6	551.38 µg/L	551.38 ppb	09:03:23
2	Ni 231.604†	9226.3	9080.0	550.87 µg/L	550.87 ppb	09:03:02
2	P 214.914†	1779.8	1532.3	2726.0 µg/L	2726.0 ppb	09:03:23
2	Pb 220.353†	1914.6	1924.4	548.46 µg/L	548.46 ppb	09:03:23

2	S 181.975 Axial†	334.5	319.4	1100.8 µg/L	1100.8 ppb	09:03:23
2	Sb 206.836†	576.7	563.6	548.78 µg/L	548.78 ppb	09:03:23
2	Se 196.026†	544.5	536.9	559.37 µg/L	559.37 ppb	09:03:23
2	SiO2†	32306.0	30394.3	5901.7 µg/L	5901.7 ppb	09:03:02
2	Si 251.611†	37343.8	37799.7	2759.0 µg/L	2759.0 ppb	09:03:02
2	Sn 189.927†	1264.0	1296.6	557.70 µg/L	557.70 ppb	09:03:23
2	Ti 334.940†	209060.8	214470.9	542.37 µg/L	542.37 ppb	09:02:57
2	Tl 190.801†	463.6	504.8	542.82 µg/L	542.82 ppb	09:03:23
2	U 409.014†	5556.8	5702.9	549.98 µg/L	549.98 ppb	09:03:02
2	V 292.402†	41556.8	42373.2	551.88 µg/L	551.88 ppb	09:03:02
2	Zn 213.857†	22507.0	22474.3	552.75 µg/L	552.75 ppb	09:03:02
3	Sc RADIAL	84536.7	84536.7	98.6 %		09:01:51
3	Al 396.153Radial†	10233.6	10488.8	5490.6 µg/L	5490.6 ppb	09:01:51
3	Ca 317.933Radial†	13646.6	13524.7	5419.5 µg/L	5419.5 ppb	09:01:51
3	Fe 238.204 Radial†	421.3	414.7	5195.5 µg/L	5195.5 ppb	09:02:11
3	K 766.490 Radial†	10583.6	10617.4	5252.4 µg/L	5252.4 ppb	09:01:51
3	Mg 279.077 IEC†	379.6	375.9	5290.0 µg/L	5290.0 ppb	09:02:11
3	Na 589.592 Radial†	20187.1	20319.8	10048 µg/L	10048 ppb	09:01:51
3	Sr 421.552†	83015.0	84104.2	525.99 µg/L	525.99 ppb	09:01:51
3	Sc 361.383	1801560.5	1801560.5	97.796 %		09:03:30
3	Y 371.029	1247412.7	1247412.7	97.425 %		09:03:30
3	Ag 328.068†	56161.2	57940.6	501.63 µg/L	501.63 ppb	09:03:36
3	As 188.979†	284.7	292.7	467.59 µg/L	467.59 ppb	09:03:56
3	B 249.677†	10201.8	10099.0	494.50 µg/L	494.50 ppb	09:03:36
3	Ba 233.527†	20502.0	20983.4	498.00 µg/L	498.00 ppb	09:03:36
3	Be 313.107†	771703.8	790438.0	506.87 µg/L	506.87 ppb	09:03:30
3	Cd 226.502†	18367.7	18947.4	495.77 µg/L	495.77 ppb	09:03:36
3	Co 228.616†	10432.0	10636.6	494.76 µg/L	494.76 ppb	09:03:36
3	Cr 267.716†	19910.1	20268.3	484.12 µg/L	484.12 ppb	09:03:36
3	Cu 324.752†	72614.1	70146.0	491.33 µg/L	491.33 ppb	09:03:36
3	Mn 257.610†	151427.4	155561.2	514.31 µg/L	514.31 ppb	09:03:30
3	Mo 202.031†	4237.5	4322.4	463.47 µg/L	463.47 ppb	09:03:56
3	Ni 231.604†	8305.3	8135.7	493.59 µg/L	493.59 ppb	09:03:36
3	P 214.914†	1551.2	1298.1	2305.5 µg/L	2305.5 ppb	09:03:56
3	Pb 220.353†	1681.2	1685.1	480.26 µg/L	480.26 ppb	09:03:56
3	S 181.975 Axial†	298.2	282.2	972.59 µg/L	972.59 ppb	09:03:56
3	Sb 206.836†	501.3	486.4	473.30 µg/L	473.30 ppb	09:03:56
3	Se 196.026†	469.4	459.9	480.91 µg/L	480.91 ppb	09:03:56
3	SiO2†	30031.9	28060.2	5448.4 µg/L	5448.4 ppb	09:03:36
3	Si 251.611†	34498.5	34880.1	2545.9 µg/L	2545.9 ppb	09:03:36
3	Sn 189.927†	1030.2	1057.2	454.82 µg/L	454.82 ppb	09:03:56
3	Ti 334.940†	193646.5	198652.7	502.34 µg/L	502.34 ppb	09:03:30
3	Tl 190.801†	415.9	455.8	490.37 µg/L	490.37 ppb	09:03:56
3	U 409.014†	4829.6	4957.9	478.00 µg/L	478.00 ppb	09:03:36
3	V 292.402†	37104.2	37809.0	492.11 µg/L	492.11 ppb	09:03:36
3	Zn 213.857†	20355.8	20268.6	498.46 µg/L	498.46 ppb	09:03:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1800939.7	97.762 %	0.0382			0.04%
Sc RADIAL	84300.8	98.3 %	0.29			0.29%
Y 371.029	1247217.2	97.410 %	0.0198			0.02%
Ag 328.068†	60409.0	523.10 µg/L	18.597	523.10 ppb	18.597	3.56%
QC value within limits for Ag 328.068 Recovery = 104.62%						
Al 396.153Radial†	10503.1	5496.8 µg/L	9.00	5496.8 ppb	9.00	0.16%
QC value within limits for Al 396.153Radial Recovery = 109.94%						
As 188.979†	329.3	526.14 µg/L	51.974	526.14 ppb	51.974	9.88%
QC value within limits for As 188.979 Recovery = 105.23%						
B 249.677†	10583.2	518.39 µg/L	20.708	518.39 ppb	20.708	3.99%
QC value within limits for B 249.677 Recovery = 103.68%						
Ba 233.527†	22311.1	529.52 µg/L	27.310	529.52 ppb	27.310	5.16%
QC value within limits for Ba 233.527 Recovery = 105.90%						
Be 313.107†	829463.9	531.89 µg/L	21.673	531.89 ppb	21.673	4.07%
QC value within limits for Be 313.107 Recovery = 106.38%						
Ca 317.933Radial†	13527.5	5420.6 µg/L	5.52	5420.6 ppb	5.52	0.10%
QC value within limits for Ca 317.933Radial Recovery = 108.41%						
Cd 226.502†	20225.5	529.26 µg/L	29.013	529.26 ppb	29.013	5.48%
QC value within limits for Cd 226.502 Recovery = 105.85%						
Co 228.616†	11414.5	530.98 µg/L	31.374	530.98 ppb	31.374	5.91%

QC value within limits for Co 228.616 Recovery = 106.20%						
Cr 267.716†	22211.9	530.54 µg/L	40.201	530.54 ppb	40.201	7.58%
QC value within limits for Cr 267.716 Recovery = 106.11%						
Cu 324.752†	75147.0	526.29 µg/L	30.277	526.29 ppb	30.277	5.75%
QC value within limits for Cu 324.752 Recovery = 105.26%						
Fe 238.204 Radial†	413.9	5187.4 µg/L	7.70	5187.4 ppb	7.70	0.15%
QC value within limits for Fe 238.204 Radial Recovery = 103.75%						
K 766.490 Radial†	10616.9	5252.1 µg/L	17.85	5252.1 ppb	17.85	0.34%
QC value within limits for K 766.490 Radial Recovery = 105.04%						
Mg 279.077 IEC†	374.7	5273.6 µg/L	22.13	5273.6 ppb	22.13	0.42%
QC value within limits for Mg 279.077 IEC Recovery = 105.47%						
Mn 257.610†	162945.8	538.73 µg/L	21.157	538.73 ppb	21.157	3.93%
QC value within limits for Mn 257.610 Recovery = 107.75%						
Mo 202.031†	4905.9	526.01 µg/L	54.476	526.01 ppb	54.476	10.36%
QC value within limits for Mo 202.031 Recovery = 105.20%						
Na 589.592 Radial†	20329.2	10053 µg/L	12.2	10053 ppb	12.2	0.12%
QC value within limits for Na 589.592 Radial Recovery = 100.53%						
Ni 231.604†	8756.9	531.27 µg/L	32.643	531.27 ppb	32.643	6.14%
QC value within limits for Ni 231.604 Recovery = 106.25%						
P 214.914†	1456.6	2590.3 µg/L	246.75	2590.3 ppb	246.75	9.53%
QC value within limits for P 214.914 Recovery = 103.61%						
Pb 220.353†	1853.7	528.31 µg/L	41.794	528.31 ppb	41.794	7.91%
QC value within limits for Pb 220.353 Recovery = 105.66%						
S 181.975 Axial†	307.1	1058.2 µg/L	74.12	1058.2 ppb	74.12	7.00%
QC value within limits for S 181.975 Axial Recovery = 105.82%						
Sb 206.836†	540.7	526.48 µg/L	46.259	526.48 ppb	46.259	8.79%
QC value within limits for Sb 206.836 Recovery = 105.30%						
Se 196.026†	511.7	533.65 µg/L	45.677	533.65 ppb	45.677	8.56%
QC value within limits for Se 196.026 Recovery = 106.73%						
SiO2†	29553.2	5738.4 µg/L	251.74	5738.4 ppb	251.74	4.39%
QC value within limits for SiO2 Recovery = 107.31%						
Si 251.611†	36744.4	2682.0 µg/L	118.19	2682.0 ppb	118.19	4.41%
QC value within limits for Si 251.611 Recovery = 107.28%						
Sn 189.927†	1227.8	528.16 µg/L	63.910	528.16 ppb	63.910	12.10%
QC value within limits for Sn 189.927 Recovery = 105.63%						
Sr 421.552†	84212.3	526.67 µg/L	0.866	526.67 ppb	0.866	0.16%
QC value within limits for Sr 421.552 Recovery = 105.33%						
Ti 334.940†	209219.4	529.08 µg/L	23.157	529.08 ppb	23.157	4.38%
QC value within limits for Ti 334.940 Recovery = 105.82%						
Tl 190.801†	490.7	527.72 µg/L	32.542	527.72 ppb	32.542	6.17%
QC value within limits for Tl 190.801 Recovery = 105.54%						
U 409.014†	5462.4	526.75 µg/L	42.234	526.75 ppb	42.234	8.02%
QC value within limits for U 409.014 Recovery = 105.35%						
V 292.402†	40813.9	531.50 µg/L	34.120	531.50 ppb	34.120	6.42%
QC value within limits for V 292.402 Recovery = 106.30%						
Zn 213.857†	21745.0	534.80 µg/L	31.475	534.80 ppb	31.475	5.89%
QC value within limits for Zn 213.857 Recovery = 106.96%						

All analyte(s) passed QC.

Sequence No.: 25

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 09:04:05

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85069.1	85069.1	99.2 %		09:04:36
1	Al 396.153Radial†	-61.8	43.9	22.986 µg/L	22.986 ppb	09:04:36
1	Ca 317.933Radial†	322.8	4.8	1.9302 µg/L	1.9302 ppb	09:04:56
1	Fe 238.204 Radial†	11.3	-1.4	-17.741 µg/L	-17.741 ppb	09:04:56
1	K 766.490 Radial†	100.2	-19.3	-9.5411 µg/L	-9.5411 ppb	09:04:36
1	Mg 279.077 IEC†	10.8	1.7	23.409 µg/L	23.409 ppb	09:04:56
1	Na 589.592 Radial†	157.4	-2.6	-1.2913 µg/L	-1.2913 ppb	09:04:36
1	Sr 421.552†	125.9	7.1	0.0441 µg/L	0.0441 ppb	09:04:36
1	Sc 361.383	1833743.4	1833743.4	99.543 %		09:05:59
1	Y 371.029	1275518.7	1275518.7	99.620 %		09:05:59
1	Ag 328.068†	-507.3	4.2	0.0319 µg/L	0.0319 ppb	09:06:04
1	As 188.979†	-0.5	1.1	1.7982 µg/L	1.7982 ppb	09:06:25
1	B 249.677†	286.6	-44.7	-2.1906 µg/L	-2.1906 ppb	09:06:04
1	Ba 233.527†	-15.5	3.8	0.0897 µg/L	0.0897 ppb	09:06:25
1	Be 313.107†	-1188.8	149.1	0.0955 µg/L	0.0955 ppb	09:06:04
1	Cd 226.502†	-182.9	-18.0	-0.4684 µg/L	-0.4684 ppb	09:06:25
1	Co 228.616†	34.6	4.2	0.1983 µg/L	0.1983 ppb	09:06:25
1	Cr 267.716†	77.6	-12.6	-0.3004 µg/L	-0.3004 ppb	09:06:04
1	Cu 324.752†	4081.2	-4.6	-0.0352 µg/L	-0.0352 ppb	09:06:04
1	Mn 257.610†	-696.3	21.7	0.0692 µg/L	0.0692 ppb	09:06:25
1	Mo 202.031†	23.8	13.4	1.4354 µg/L	1.4354 ppb	09:06:25
1	Ni 231.604†	345.5	-9.7	-0.5879 µg/L	-0.5879 ppb	09:06:25
1	P 214.914†	279.1	-7.8	-14.058 µg/L	-14.058 ppb	09:06:25
1	Pb 220.353†	45.6	11.9	3.4017 µg/L	3.4017 ppb	09:06:25
1	S 181.975 Axial†	23.8	1.3	4.3323 µg/L	4.3323 ppb	09:06:25
1	Sb 206.836†	29.5	3.4	3.3057 µg/L	3.3057 ppb	09:06:25
1	Se 196.026†	26.7	6.9	6.9352 µg/L	6.9352 ppb	09:06:25
1	SiO2†	2727.1	91.1	17.696 µg/L	17.696 ppb	09:06:04
1	Si 251.611†	500.9	107.3	7.8329 µg/L	7.8329 ppb	09:06:25
1	Sn 189.927†	-2.5	1.2	0.5070 µg/L	0.5070 ppb	09:06:25
1	Ti 334.940†	-479.4	160.5	0.4044 µg/L	0.4044 ppb	09:06:04
1	Tl 190.801†	-33.6	-3.2	-3.3962 µg/L	-3.3962 ppb	09:06:25
1	U 409.014†	-16.0	3.4	0.3262 µg/L	0.3262 ppb	09:06:04
1	V 292.402†	94.2	-36.7	-0.4599 µg/L	-0.4599 ppb	09:06:04
1	Zn 213.857†	568.5	25.1	0.6234 µg/L	0.6234 ppb	09:06:25
2	Sc RADIAL	85891.6	85891.6	100 %		09:05:02
2	Al 396.153Radial†	-105.2	1.1	0.5343 µg/L	0.5343 ppb	09:05:02
2	Ca 317.933Radial†	322.5	1.4	0.5661 µg/L	0.5661 ppb	09:05:22
2	Fe 238.204 Radial†	13.4	0.6	7.2450 µg/L	7.2450 ppb	09:05:22
2	K 766.490 Radial†	188.9	68.3	33.797 µg/L	33.797 ppb	09:05:02
2	Mg 279.077 IEC†	7.9	-1.3	-18.263 µg/L	-18.263 ppb	09:05:22
2	Na 589.592 Radial†	151.0	-10.6	-5.2440 µg/L	-5.2440 ppb	09:05:02
2	Sr 421.552†	132.1	12.0	0.0753 µg/L	0.0753 ppb	09:05:02
2	Sc 361.383	1845635.4	1845635.4	100.19 %		09:06:31
2	Y 371.029	1281518.2	1281518.2	100.09 %		09:06:31
2	Ag 328.068†	-535.1	-20.3	-0.1775 µg/L	-0.1775 ppb	09:06:36
2	As 188.979†	-3.2	-1.6	-2.5181 µg/L	-2.5181 ppb	09:06:57
2	B 249.677†	300.4	-32.8	-1.6170 µg/L	-1.6170 ppb	09:06:36
2	Ba 233.527†	-20.9	-1.5	-0.0359 µg/L	-0.0359 ppb	09:06:57
2	Be 313.107†	-1309.0	36.8	0.0235 µg/L	0.0235 ppb	09:06:36
2	Cd 226.502†	-175.7	-9.6	-0.2515 µg/L	-0.2515 ppb	09:06:57
2	Co 228.616†	24.1	-6.5	-0.3008 µg/L	-0.3008 ppb	09:06:57
2	Cr 267.716†	74.9	-15.8	-0.3769 µg/L	-0.3769 ppb	09:06:36
2	Cu 324.752†	4149.4	37.1	0.2605 µg/L	0.2605 ppb	09:06:36
2	Mn 257.610†	-704.2	18.3	0.0622 µg/L	0.0622 ppb	09:06:57
2	Mo 202.031†	23.1	12.6	1.3466 µg/L	1.3466 ppb	09:06:57
2	Ni 231.604†	354.1	-3.3	-0.2020 µg/L	-0.2020 ppb	09:06:57
2	P 214.914†	284.7	-4.0	-7.2665 µg/L	-7.2665 ppb	09:06:57
2	Pb 220.353†	35.2	1.2	0.3599 µg/L	0.3599 ppb	09:06:57

2	S 181.975 Axial†	19.3	-3.4	-11.703 µg/L	-11.703 ppb	09:06:57
2	Sb 206.836†	32.3	6.0	5.8126 µg/L	5.8126 ppb	09:06:57
2	Se 196.026†	17.5	-2.5	-2.5295 µg/L	-2.5295 ppb	09:06:57
2	SiO2†	2729.9	76.3	14.815 µg/L	14.815 ppb	09:06:36
2	Si 251.611†	509.0	112.2	8.1915 µg/L	8.1915 ppb	09:06:57
2	Sn 189.927†	-3.6	0.1	0.0473 µg/L	0.0473 ppb	09:06:57
2	Ti 334.940†	-590.2	53.0	0.1357 µg/L	0.1357 ppb	09:06:36
2	Tl 190.801†	-27.8	2.8	2.9826 µg/L	2.9826 ppb	09:06:57
2	U 409.014†	-53.4	-33.9	-3.2807 µg/L	-3.2807 ppb	09:06:36
2	V 292.402†	89.3	-42.2	-0.5392 µg/L	-0.5392 ppb	09:06:36
2	Zn 213.857†	564.6	17.6	0.4372 µg/L	0.4372 ppb	09:06:57
3	Sc RADIAL	85959.3	85959.3	100 %		09:05:28
3	Al 396.153Radial†	-88.1	18.3	9.5693 µg/L	9.5693 ppb	09:05:28
3	Ca 317.933Radial†	336.9	15.5	6.2295 µg/L	6.2295 ppb	09:05:48
3	Fe 238.204 Radial†	13.7	0.8	10.554 µg/L	10.554 ppb	09:05:48
3	K 766.490 Radial†	166.9	46.2	22.874 µg/L	22.874 ppb	09:05:28
3	Mg 279.077 IEC†	9.2	-0.0	-0.1257 µg/L	-0.1257 ppb	09:05:48
3	Na 589.592 Radial†	133.4	-28.3	-13.986 µg/L	-13.986 ppb	09:05:28
3	Sr 421.552†	132.1	11.9	0.0745 µg/L	0.0745 ppb	09:05:28
3	Sc 361.383	1838124.9	1838124.9	99.781 %		09:07:03
3	Y 371.029	1276371.9	1276371.9	99.687 %		09:07:03
3	Ag 328.068†	-619.2	-106.7	-0.9167 µg/L	-0.9167 ppb	09:07:08
3	As 188.979†	-3.9	-2.2	-3.5692 µg/L	-3.5692 ppb	09:07:29
3	B 249.677†	286.2	-45.8	-2.2576 µg/L	-2.2576 ppb	09:07:08
3	Ba 233.527†	-17.2	2.1	0.0504 µg/L	0.0504 ppb	09:07:29
3	Be 313.107†	-1197.0	143.7	0.0921 µg/L	0.0921 ppb	09:07:08
3	Cd 226.502†	-171.0	-5.5	-0.1457 µg/L	-0.1457 ppb	09:07:29
3	Co 228.616†	41.2	10.8	0.5032 µg/L	0.5032 ppb	09:07:29
3	Cr 267.716†	99.3	9.0	0.2141 µg/L	0.2141 ppb	09:07:08
3	Cu 324.752†	4141.2	45.8	0.3221 µg/L	0.3221 ppb	09:07:08
3	Mn 257.610†	-685.2	34.5	0.1148 µg/L	0.1148 ppb	09:07:29
3	Mo 202.031†	19.5	9.0	0.9691 µg/L	0.9691 ppb	09:07:29
3	Ni 231.604†	355.9	-0.1	-0.0083 µg/L	-0.0083 ppb	09:07:29
3	P 214.914†	281.3	-6.2	-11.207 µg/L	-11.207 ppb	09:07:29
3	Pb 220.353†	47.0	13.1	3.7437 µg/L	3.7437 ppb	09:07:29
3	S 181.975 Axial†	25.4	2.8	9.6823 µg/L	9.6823 ppb	09:07:29
3	Sb 206.836†	30.9	4.7	4.6008 µg/L	4.6008 ppb	09:07:29
3	Se 196.026†	24.1	4.2	4.3004 µg/L	4.3004 ppb	09:07:29
3	SiO2†	2735.8	93.3	18.112 µg/L	18.112 ppb	09:07:08
3	Si 251.611†	508.8	114.0	8.3244 µg/L	8.3244 ppb	09:07:29
3	Sn 189.927†	0.8	4.6	1.9559 µg/L	1.9559 ppb	09:07:29
3	Ti 334.940†	-518.1	122.9	0.3111 µg/L	0.3111 ppb	09:07:08
3	Tl 190.801†	-36.1	-5.6	-5.9327 µg/L	-5.9327 ppb	09:07:29
3	U 409.014†	10.5	29.9	2.8885 µg/L	2.8885 ppb	09:07:08
3	V 292.402†	130.1	-1.0	-0.0028 µg/L	-0.0028 ppb	09:07:08
3	Zn 213.857†	562.4	17.7	0.4368 µg/L	0.4368 ppb	09:07:29

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1839167.9	99.838 %	0.3265			0.33%
Sc RADIAL	85640.0	99.9 %	0.58			0.58%
Y 371.029	1277802.9	99.798 %	0.2535			0.25%
Ag 328.068†	-40.9	-0.3541 µg/L	0.49835	-0.3541 ppb	0.49835	140.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.1	11.030 µg/L	11.2971	11.030 ppb	11.2971	102.42%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.9	-1.4297 µg/L	2.84438	-1.4297 ppb	2.84438	198.95%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-41.1	-2.0217 µg/L	0.35209	-2.0217 ppb	0.35209	17.42%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.5	0.0347 µg/L	0.06424	0.0347 ppb	0.06424	185.00%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	109.9	0.0704 µg/L	0.04058	0.0704 ppb	0.04058	57.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	7.3	2.9086 µg/L	2.95574	2.9086 ppb	2.95574	101.62%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-11.0	-0.2886 µg/L	0.16450	-0.2886 ppb	0.16450	57.01%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	2.9	0.1336 µg/L	0.40587	0.1336 ppb	0.40587	303.87%

Cr	267.716†	QC value within limits for Co 228.616 Recovery = Not calculated	-6.5	-0.1544 µg/L	0.32140	-0.1544 ppb	0.32140	208.14%
		QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu	324.752†	QC value within limits for Cu 324.752 Recovery = Not calculated	26.1	0.1825 µg/L	0.19100	0.1825 ppb	0.19100	104.65%
Fe	238.204 Radial†	QC value within limits for Fe 238.204 Radial Recovery = Not calculated	0.0	0.0193 µg/L	15.46945	0.0193 ppb	15.46945	>999.9%
K	766.490 Radial†	QC value within limits for K 766.490 Radial Recovery = Not calculated	31.8	15.710 µg/L	22.5400	15.710 ppb	22.5400	143.47%
Mg	279.077 IEC†	QC value within limits for Mg 279.077 IEC Recovery = Not calculated	0.1	1.6732 µg/L	20.89424	1.6732 ppb	20.89424	>999.9%
Mn	257.610†	QC value within limits for Mn 257.610 Recovery = Not calculated	24.9	0.0821 µg/L	0.02856	0.0821 ppb	0.02856	34.78%
Mo	202.031†	QC value within limits for Mo 202.031 Recovery = Not calculated	11.7	1.2504 µg/L	0.24763	1.2504 ppb	0.24763	19.80%
Na	589.592 Radial†	QC value within limits for Na 589.592 Radial Recovery = Not calculated	-13.8	-6.8404 µg/L	6.49615	-6.8404 ppb	6.49615	94.97%
Ni	231.604†	QC value within limits for Ni 231.604 Recovery = Not calculated	-4.4	-0.2661 µg/L	0.29505	-0.2661 ppb	0.29505	110.88%
P	214.914†	QC value within limits for P 214.914 Recovery = Not calculated	-6.0	-10.844 µg/L	3.4104	-10.844 ppb	3.4104	31.45%
Pb	220.353†	QC value within limits for Pb 220.353 Recovery = Not calculated	8.8	2.5018 µg/L	1.86280	2.5018 ppb	1.86280	74.46%
S	181.975 Axial†	QC value within limits for S 181.975 Axial Recovery = Not calculated	0.2	0.7706 µg/L	11.12867	0.7706 ppb	11.12867	>999.9%
Sb	206.836†	QC value within limits for Sb 206.836 Recovery = Not calculated	4.7	4.5730 µg/L	1.25370	4.5730 ppb	1.25370	27.42%
Se	196.026†	QC value within limits for Se 196.026 Recovery = Not calculated	2.8	2.9020 µg/L	4.88486	2.9020 ppb	4.88486	168.33%
SiO2†		QC value within limits for SiO2 Recovery = Not calculated	86.9	16.874 µg/L	1.7957	16.874 ppb	1.7957	10.64%
Si	251.611†	QC value within limits for Si 251.611 Recovery = Not calculated	111.2	8.1163 µg/L	0.25424	8.1163 ppb	0.25424	3.13%
Sn	189.927†	QC value within limits for Sn 189.927 Recovery = Not calculated	1.9	0.8367 µg/L	0.99614	0.8367 ppb	0.99614	119.05%
Sr	421.552†	QC value within limits for Sr 421.552 Recovery = Not calculated	10.3	0.0646 µg/L	0.01778	0.0646 ppb	0.01778	27.51%
Ti	334.940†	QC value within limits for Ti 334.940 Recovery = Not calculated	112.2	0.2837 µg/L	0.13644	0.2837 ppb	0.13644	48.09%
Tl	190.801†	QC value within limits for Tl 190.801 Recovery = Not calculated	-2.0	-2.1155 µg/L	4.59359	-2.1155 ppb	4.59359	217.14%
U	409.014†	QC value within limits for U 409.014 Recovery = Not calculated	-0.2	-0.0220 µg/L	3.09930	-0.0220 ppb	3.09930	>999.9%
V	292.402†	QC value within limits for V 292.402 Recovery = Not calculated	-26.6	-0.3340 µg/L	0.28956	-0.3340 ppb	0.28956	86.70%
Zn	213.857†	QC value within limits for Zn 213.857 Recovery = Not calculated	20.1	0.4992 µg/L	0.10762	0.4992 ppb	0.10762	21.56%

All analyte(s) passed QC.

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 09:39:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87353.3	87353.3	102 %		09:40:17
1	Al 396.153Radial†	9911.1	9837.4	5147.6 µg/L	5147.6 ppb	09:40:17
1	Ca 317.933Radial†	13275.5	12713.9	5094.6 µg/L	5094.6 ppb	09:40:17
1	Fe 238.204 Radial†	408.7	388.5	4869.0 µg/L	4869.0 ppb	09:40:38
1	K 766.490 Radial†	10356.5	10048.3	4970.9 µg/L	4970.9 ppb	09:40:17
1	Mg 279.077 IEC†	367.2	351.3	4945.1 µg/L	4945.1 ppb	09:40:38
1	Na 589.592 Radial†	19898.9	19376.5	9581.6 µg/L	9581.6 ppb	09:40:17
1	Sr 421.552†	81220.8	79626.9	497.99 µg/L	497.99 ppb	09:40:17
1	Sc 361.383	1851024.6	1851024.6	100.48 %		09:41:41
1	Y 371.029	1283657.2	1283657.2	100.26 %		09:41:41
1	Ag 328.068†	58502.6	58736.2	508.63 µg/L	508.63 ppb	09:41:46
1	As 188.979†	327.3	327.4	523.10 µg/L	523.10 ppb	09:42:07
1	B 249.677†	10635.4	10251.8	502.25 µg/L	502.25 ppb	09:41:46
1	Ba 233.527†	21749.8	21665.0	514.20 µg/L	514.20 ppb	09:41:46
1	Be 313.107†	802716.6	800215.7	513.14 µg/L	513.14 ppb	09:41:41
1	Cd 226.502†	19636.8	19708.6	515.75 µg/L	515.75 ppb	09:41:46
1	Co 228.616†	11208.1	11123.9	517.50 µg/L	517.50 ppb	09:41:46
1	Cr 267.716†	22071.0	21874.8	522.48 µg/L	522.48 ppb	09:41:46
1	Cu 324.752†	77774.1	73297.1	513.29 µg/L	513.29 ppb	09:41:46
1	Mn 257.610†	156855.2	156825.2	518.49 µg/L	518.49 ppb	09:41:41
1	Mo 202.031†	4992.1	4957.7	531.54 µg/L	531.54 ppb	09:42:07
1	Ni 231.604†	8889.6	8490.2	515.08 µg/L	515.08 ppb	09:41:46
1	P 214.914†	1744.1	1447.7	2575.8 µg/L	2575.8 ppb	09:42:07
1	Pb 220.353†	1901.8	1858.8	529.79 µg/L	529.79 ppb	09:42:07
1	S 181.975 Axial†	317.3	293.1	1010.2 µg/L	1010.2 ppb	09:42:07
1	Sb 206.836†	573.3	544.3	530.14 µg/L	530.14 ppb	09:42:07
1	Se 196.026†	538.5	516.0	537.27 µg/L	537.27 ppb	09:42:07
1	SiO2†	31026.0	28228.9	5481.2 µg/L	5481.2 ppb	09:41:46
1	Si 251.611†	35732.5	35165.5	2566.8 µg/L	2566.8 ppb	09:41:46
1	Sn 189.927†	1252.9	1250.6	537.91 µg/L	537.91 ppb	09:42:07
1	Ti 334.940†	202055.1	201729.6	510.15 µg/L	510.15 ppb	09:41:41
1	Tl 190.801†	455.8	484.2	520.58 µg/L	520.58 ppb	09:42:07
1	U 409.014†	5358.8	5352.5	516.19 µg/L	516.19 ppb	09:41:46
1	V 292.402†	40287.5	39963.2	520.58 µg/L	520.58 ppb	09:41:46
1	Zn 213.857†	21845.5	21194.9	521.30 µg/L	521.30 ppb	09:41:46
2	Sc RADIAL	87704.9	87704.9	102 %		09:40:43
2	Al 396.153Radial†	9930.9	9817.7	5137.6 µg/L	5137.6 ppb	09:40:43
2	Ca 317.933Radial†	13358.5	12742.9	5106.2 µg/L	5106.2 ppb	09:40:43
2	Fe 238.204 Radial†	409.7	387.9	4860.9 µg/L	4860.9 ppb	09:41:04
2	K 766.490 Radial†	10465.4	10114.0	5003.4 µg/L	5003.4 ppb	09:40:43
2	Mg 279.077 IEC†	369.9	352.5	4961.3 µg/L	4961.3 ppb	09:41:04
2	Na 589.592 Radial†	19952.6	19350.6	9568.8 µg/L	9568.8 ppb	09:40:43
2	Sr 421.552†	81438.3	79519.8	497.32 µg/L	497.32 ppb	09:40:43
2	Sc 361.383	1860419.9	1860419.9	100.99 %		09:42:14
2	Y 371.029	1288619.0	1288619.0	100.64 %		09:42:14
2	Ag 328.068†	58477.3	58417.1	505.87 µg/L	505.87 ppb	09:42:20
2	As 188.979†	325.5	324.0	517.75 µg/L	517.75 ppb	09:42:40
2	B 249.677†	10644.4	10207.3	500.06 µg/L	500.06 ppb	09:42:20
2	Ba 233.527†	21697.1	21503.5	510.37 µg/L	510.37 ppb	09:42:20
2	Be 313.107†	806157.1	799588.0	512.73 µg/L	512.73 ppb	09:42:14
2	Cd 226.502†	19642.8	19615.9	513.32 µg/L	513.32 ppb	09:42:20
2	Co 228.616†	11183.6	11043.3	513.73 µg/L	513.73 ppb	09:42:20
2	Cr 267.716†	22010.7	21704.2	518.41 µg/L	518.41 ppb	09:42:20
2	Cu 324.752†	77916.6	73047.4	511.55 µg/L	511.55 ppb	09:42:20
2	Mn 257.610†	157889.1	157060.7	519.27 µg/L	519.27 ppb	09:42:14
2	Mo 202.031†	4871.8	4813.5	516.09 µg/L	516.09 ppb	09:42:40
2	Ni 231.604†	8914.1	8469.8	513.85 µg/L	513.85 ppb	09:42:20
2	P 214.914†	1714.8	1409.8	2507.1 µg/L	2507.1 ppb	09:42:40
2	Pb 220.353†	1853.0	1800.9	513.27 µg/L	513.27 ppb	09:42:40

2	S 181.975 Axial†	316.5	290.7	1001.8 µg/L	1001.8 ppb	09:42:40
2	Sb 206.836†	552.9	521.2	507.55 µg/L	507.55 ppb	09:42:40
2	Se 196.026†	529.0	503.8	524.81 µg/L	524.81 ppb	09:42:40
2	SiO2†	31079.0	28125.4	5461.1 µg/L	5461.1 ppb	09:42:20
2	Si 251.611†	35779.5	35032.5	2557.0 µg/L	2557.0 ppb	09:42:20
2	Sn 189.927†	1212.7	1204.6	518.13 µg/L	518.13 ppb	09:42:40
2	Ti 334.940†	203066.9	201715.9	510.11 µg/L	510.11 ppb	09:42:14
2	Tl 190.801†	446.6	472.8	508.48 µg/L	508.48 ppb	09:42:40
2	U 409.014†	5347.9	5314.9	512.55 µg/L	512.55 ppb	09:42:20
2	V 292.402†	40285.6	39758.8	517.82 µg/L	517.82 ppb	09:42:20
2	Zn 213.857†	21847.1	21086.7	518.63 µg/L	518.63 ppb	09:42:20
3	Sc RADIAL	87260.4	87260.4	102 %		09:41:09
3	Al 396.153Radial†	9854.0	9791.6	5125.5 µg/L	5125.5 ppb	09:41:09
3	Ca 317.933Radial†	13223.2	12676.4	5079.6 µg/L	5079.6 ppb	09:41:09
3	Fe 238.204 Radial†	407.5	387.8	4859.0 µg/L	4859.0 ppb	09:41:30
3	K 766.490 Radial†	10331.1	10034.2	4963.9 µg/L	4963.9 ppb	09:41:09
3	Mg 279.077 IEC†	368.9	353.3	4972.2 µg/L	4972.2 ppb	09:41:30
3	Na 589.592 Radial†	19932.3	19430.1	9608.1 µg/L	9608.1 ppb	09:41:09
3	Sr 421.552†	81030.5	79524.7	497.35 µg/L	497.35 ppb	09:41:09
3	Sc 361.383	1846124.0	1846124.0	100.22 %		09:42:47
3	Y 371.029	1280980.7	1280980.7	100.05 %		09:42:47
3	Ag 328.068†	55173.7	55569.0	481.08 µg/L	481.08 ppb	09:42:53
3	As 188.979†	279.6	280.7	448.34 µg/L	448.34 ppb	09:43:13
3	B 249.677†	9996.3	9642.2	472.19 µg/L	472.19 ppb	09:42:53
3	Ba 233.527†	20007.8	19984.2	474.29 µg/L	474.29 ppb	09:42:53
3	Be 313.107†	749787.2	749520.5	480.63 µg/L	480.63 ppb	09:42:47
3	Cd 226.502†	17886.1	18013.5	471.35 µg/L	471.35 ppb	09:42:53
3	Co 228.616†	10171.2	10118.8	470.68 µg/L	470.68 ppb	09:42:53
3	Cr 267.716†	19506.5	19374.1	462.76 µg/L	462.76 ppb	09:42:53
3	Cu 324.752†	71265.2	67007.6	469.33 µg/L	469.33 ppb	09:42:53
3	Mn 257.610†	146954.3	147360.0	487.19 µg/L	487.19 ppb	09:42:47
3	Mo 202.031†	4134.0	4114.6	441.19 µg/L	441.19 ppb	09:43:13
3	Ni 231.604†	8126.5	7752.3	470.32 µg/L	470.32 ppb	09:42:53
3	P 214.914†	1527.7	1236.3	2195.7 µg/L	2195.7 ppb	09:43:13
3	Pb 220.353†	1638.0	1600.5	456.13 µg/L	456.13 ppb	09:43:13
3	S 181.975 Axial†	287.8	264.5	911.62 µg/L	911.62 ppb	09:43:13
3	Sb 206.836†	485.6	458.3	446.02 µg/L	446.02 ppb	09:43:13
3	Se 196.026†	460.3	439.3	459.09 µg/L	459.09 ppb	09:43:13
3	SiO2†	29129.2	26418.1	5129.6 µg/L	5129.6 ppb	09:42:53
3	Si 251.611†	33330.2	32862.8	2398.7 µg/L	2398.7 ppb	09:42:53
3	Sn 189.927†	1016.1	1017.6	437.79 µg/L	437.79 ppb	09:43:13
3	Ti 334.940†	187773.4	188012.4	475.44 µg/L	475.44 ppb	09:42:47
3	Tl 190.801†	404.9	434.6	467.50 µg/L	467.50 ppb	09:43:13
3	U 409.014†	4805.2	4814.3	464.19 µg/L	464.19 ppb	09:42:53
3	V 292.402†	36377.1	36167.7	470.75 µg/L	470.75 ppb	09:42:53
3	Zn 213.857†	19902.5	19313.8	474.98 µg/L	474.98 ppb	09:42:53

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1852522.8	100.56 %	0.394			0.39%
Sc RADIAL	87439.5	102 %	0.3			0.27%
Y 371.029	1284419.0	100.32 %	0.303			0.30%
Ag 328.068†	57574.1	498.52 µg/L	15.170	498.52 ppb	15.170	3.04%
QC value within limits for Ag 328.068 Recovery = 99.70%						
Al 396.153Radial†	9815.6	5136.9 µg/L	11.09	5136.9 ppb	11.09	0.22%
QC value within limits for Al 396.153Radial Recovery = 102.74%						
As 188.979†	310.7	496.39 µg/L	41.705	496.39 ppb	41.705	8.40%
QC value within limits for As 188.979 Recovery = 99.28%						
B 249.677†	10033.8	491.50 µg/L	16.757	491.50 ppb	16.757	3.41%
QC value within limits for B 249.677 Recovery = 98.30%						
Ba 233.527†	21050.9	499.62 µg/L	22.019	499.62 ppb	22.019	4.41%
QC value within limits for Ba 233.527 Recovery = 99.92%						
Be 313.107†	783108.1	502.17 µg/L	18.653	502.17 ppb	18.653	3.71%
QC value within limits for Be 313.107 Recovery = 100.43%						
Ca 317.933Radial†	12711.1	5093.4 µg/L	13.35	5093.4 ppb	13.35	0.26%
QC value within limits for Ca 317.933Radial Recovery = 101.87%						
Cd 226.502†	19112.7	500.14 µg/L	24.966	500.14 ppb	24.966	4.99%
QC value within limits for Cd 226.502 Recovery = 100.03%						
Co 228.616†	10762.0	500.63 µg/L	26.013	500.63 ppb	26.013	5.20%

QC value within limits for Co 228.616 Recovery = 100.13%							
Cr 267.716†	20984.3	501.22 µg/L	33.368	501.22 ppb	33.368	6.66%	
QC value within limits for Cr 267.716 Recovery = 100.24%							
Cu 324.752†	71117.4	498.06 µg/L	24.896	498.06 ppb	24.896	5.00%	
QC value within limits for Cu 324.752 Recovery = 99.61%							
Fe 238.204 Radial†	388.0	4863.0 µg/L	5.29	4863.0 ppb	5.29	0.11%	
QC value within limits for Fe 238.204 Radial Recovery = 97.26%							
K 766.490 Radial†	10065.5	4979.4 µg/L	21.07	4979.4 ppb	21.07	0.42%	
QC value within limits for K 766.490 Radial Recovery = 99.59%							
Mg 279.077 IEC†	352.4	4959.5 µg/L	13.63	4959.5 ppb	13.63	0.27%	
QC value within limits for Mg 279.077 IEC Recovery = 99.19%							
Mn 257.610†	153748.6	508.32 µg/L	18.299	508.32 ppb	18.299	3.60%	
QC value within limits for Mn 257.610 Recovery = 101.66%							
Mo 202.031†	4628.6	496.27 µg/L	48.330	496.27 ppb	48.330	9.74%	
QC value within limits for Mo 202.031 Recovery = 99.25%							
Na 589.592 Radial†	19385.7	9586.2 µg/L	20.05	9586.2 ppb	20.05	0.21%	
QC value within limits for Na 589.592 Radial Recovery = 95.86%							
Ni 231.604†	8237.4	499.75 µg/L	25.494	499.75 ppb	25.494	5.10%	
QC value within limits for Ni 231.604 Recovery = 99.95%							
P 214.914†	1364.6	2426.2 µg/L	202.55	2426.2 ppb	202.55	8.35%	
QC value within limits for P 214.914 Recovery = 97.05%							
Pb 220.353†	1753.4	499.73 µg/L	38.647	499.73 ppb	38.647	7.73%	
QC value within limits for Pb 220.353 Recovery = 99.95%							
S 181.975 Axial†	282.8	974.54 µg/L	54.647	974.54 ppb	54.647	5.61%	
QC value within limits for S 181.975 Axial Recovery = 97.45%							
Sb 206.836†	508.0	494.57 µg/L	43.535	494.57 ppb	43.535	8.80%	
QC value within limits for Sb 206.836 Recovery = 98.91%							
Se 196.026†	486.4	507.06 µg/L	42.002	507.06 ppb	42.002	8.28%	
QC value within limits for Se 196.026 Recovery = 101.41%							
SiO2†	27590.8	5357.3 µg/L	197.45	5357.3 ppb	197.45	3.69%	
QC value within limits for SiO2 Recovery = 100.18%							
Si 251.611†	34353.6	2507.5 µg/L	94.36	2507.5 ppb	94.36	3.76%	
QC value within limits for Si 251.611 Recovery = 100.30%							
Sn 189.927†	1157.6	497.94 µg/L	53.023	497.94 ppb	53.023	10.65%	
QC value within limits for Sn 189.927 Recovery = 99.59%							
Sr 421.552†	79557.2	497.55 µg/L	0.378	497.55 ppb	0.378	0.08%	
QC value within limits for Sr 421.552 Recovery = 99.51%							
Ti 334.940†	197152.7	498.57 µg/L	20.031	498.57 ppb	20.031	4.02%	
QC value within limits for Ti 334.940 Recovery = 99.71%							
Tl 190.801†	463.9	498.85 µg/L	27.816	498.85 ppb	27.816	5.58%	
QC value within limits for Tl 190.801 Recovery = 99.77%							
U 409.014†	5160.6	497.65 µg/L	29.028	497.65 ppb	29.028	5.83%	
QC value within limits for U 409.014 Recovery = 99.53%							
V 292.402†	38629.9	503.05 µg/L	28.006	503.05 ppb	28.006	5.57%	
QC value within limits for V 292.402 Recovery = 100.61%							
Zn 213.857†	20531.8	504.97 µg/L	26.006	504.97 ppb	26.006	5.15%	
QC value within limits for Zn 213.857 Recovery = 100.99%							

All analyte(s) passed QC.

Sequence No.: 36
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 09:43:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85322.5	85322.5	99.5 %		09:43:53
1	Al 396.153Radial†	-107.4	-1.8	-0.9638 µg/L	-0.9638 ppb	09:43:53
1	Ca 317.933Radial†	337.3	18.4	7.3792 µg/L	7.3792 ppb	09:44:14
1	Fe 238.204 Radial†	11.5	-1.2	-15.416 µg/L	-15.416 ppb	09:44:14
1	K 766.490 Radial†	54.0	-66.0	-32.642 µg/L	-32.642 ppb	09:43:53
1	Mg 279.077 IEC†	6.3	-2.8	-40.023 µg/L	-40.023 ppb	09:44:14
1	Na 589.592 Radial†	177.8	17.4	8.5947 µg/L	8.5947 ppb	09:43:53
1	Sr 421.552†	133.3	14.1	0.0881 µg/L	0.0881 ppb	09:43:53
1	Sc 361.383	1842748.5	1842748.5	100.03 %		09:45:16
1	Y 371.029	1281948.4	1281948.4	100.12 %		09:45:16
1	Ag 328.068†	-487.0	27.0	0.2257 µg/L	0.2257 ppb	09:45:22
1	As 188.979†	-3.6	-2.0	-3.1572 µg/L	-3.1572 ppb	09:45:42
1	B 249.677†	293.2	-39.5	-1.9376 µg/L	-1.9376 ppb	09:45:22
1	Ba 233.527†	-13.3	6.0	0.1419 µg/L	0.1419 ppb	09:45:42
1	Be 313.107†	-1312.7	31.1	0.0199 µg/L	0.0199 ppb	09:45:22
1	Cd 226.502†	-156.3	9.6	0.2526 µg/L	0.2526 ppb	09:45:42
1	Co 228.616†	29.6	-0.9	-0.0424 µg/L	-0.0424 ppb	09:45:42
1	Cr 267.716†	49.4	-41.1	-0.9824 µg/L	-0.9824 ppb	09:45:22
1	Cu 324.752†	3987.7	-118.1	-0.8286 µg/L	-0.8286 ppb	09:45:22
1	Mn 257.610†	-707.1	14.3	0.0492 µg/L	0.0492 ppb	09:45:42
1	Mo 202.031†	19.3	8.8	0.9397 µg/L	0.9397 ppb	09:45:42
1	Ni 231.604†	352.4	-4.4	-0.2701 µg/L	-0.2701 ppb	09:45:42
1	P 214.914†	277.2	-11.0	-19.864 µg/L	-19.864 ppb	09:45:42
1	Pb 220.353†	32.8	-1.1	-0.3250 µg/L	-0.3250 ppb	09:45:42
1	S 181.975 Axial†	21.0	-1.6	-5.5306 µg/L	-5.5306 ppb	09:45:42
1	Sb 206.836†	28.0	1.7	1.7106 µg/L	1.7106 ppb	09:45:42
1	Se 196.026†	28.6	8.6	8.7689 µg/L	8.7689 ppb	09:45:42
1	SiO2†	2665.5	16.2	3.1446 µg/L	3.1446 ppb	09:45:22
1	Si 251.611†	450.3	54.3	3.9608 µg/L	3.9608 ppb	09:45:42
1	Sn 189.927†	-6.0	-2.3	-0.9736 µg/L	-0.9736 ppb	09:45:42
1	Ti 334.940†	-614.4	28.0	0.0741 µg/L	0.0741 ppb	09:45:22
1	Tl 190.801†	-36.1	-5.5	-5.8164 µg/L	-5.8164 ppb	09:45:42
1	U 409.014†	3.9	23.3	2.2545 µg/L	2.2545 ppb	09:45:22
1	V 292.402†	74.5	-56.8	-0.7235 µg/L	-0.7235 ppb	09:45:22
1	Zn 213.857†	617.7	71.5	1.7765 µg/L	1.7765 ppb	09:45:42
2	Sc RADIAL	86438.4	86438.4	101 %		09:44:19
2	Al 396.153Radial†	-101.9	5.1	2.6290 µg/L	2.6290 ppb	09:44:19
2	Ca 317.933Radial†	331.2	8.0	3.1992 µg/L	3.1992 ppb	09:44:40
2	Fe 238.204 Radial†	12.2	-0.7	-8.8999 µg/L	-8.8999 ppb	09:44:40
2	K 766.490 Radial†	98.5	-22.5	-11.142 µg/L	-11.142 ppb	09:44:19
2	Mg 279.077 IEC†	6.5	-2.8	-38.818 µg/L	-38.818 ppb	09:44:40
2	Na 589.592 Radial†	144.5	-18.0	-8.8861 µg/L	-8.8861 ppb	09:44:19
2	Sr 421.552†	103.5	-17.2	-0.1074 µg/L	-0.1074 ppb	09:44:19
2	Sc 361.383	1845948.2	1845948.2	100.21 %		09:45:48
2	Y 371.029	1280954.1	1280954.1	100.04 %		09:45:48
2	Ag 328.068†	-530.5	-15.6	-0.1343 µg/L	-0.1343 ppb	09:45:54
2	As 188.979†	-0.2	1.5	2.3837 µg/L	2.3837 ppb	09:46:14
2	B 249.677†	250.9	-82.3	-4.0389 µg/L	-4.0389 ppb	09:45:54
2	Ba 233.527†	-23.8	-4.4	-0.1040 µg/L	-0.1040 ppb	09:46:14
2	Be 313.107†	-1216.0	129.9	0.0832 µg/L	0.0832 ppb	09:45:54
2	Cd 226.502†	-156.6	9.5	0.2506 µg/L	0.2506 ppb	09:46:14
2	Co 228.616†	32.3	1.7	0.0804 µg/L	0.0804 ppb	09:46:14
2	Cr 267.716†	81.2	-9.5	-0.2264 µg/L	-0.2264 ppb	09:45:54
2	Cu 324.752†	4048.4	-64.4	-0.4518 µg/L	-0.4518 ppb	09:45:54
2	Mn 257.610†	-697.6	25.1	0.0849 µg/L	0.0849 ppb	09:46:14
2	Mo 202.031†	20.5	9.9	1.0645 µg/L	1.0645 ppb	09:46:14
2	Ni 231.604†	356.2	-1.3	-0.0810 µg/L	-0.0810 ppb	09:46:14
2	P 214.914†	281.3	-7.4	-13.413 µg/L	-13.413 ppb	09:46:14
2	Pb 220.353†	45.1	11.1	3.1663 µg/L	3.1663 ppb	09:46:14

2	S 181.975 Axial†	24.3	1.7	5.6913 µg/L	5.6913 ppb	09:46:14
2	Sb 206.836†	26.5	0.2	0.1985 µg/L	0.1985 ppb	09:46:14
2	Se 196.026†	14.9	-5.1	-5.1651 µg/L	-5.1651 ppb	09:46:14
2	SiO2†	2635.7	-18.2	-3.5409 µg/L	-3.5409 ppb	09:45:54
2	Si 251.611†	451.5	54.7	3.9924 µg/L	3.9924 ppb	09:46:14
2	Sn 189.927†	-3.5	0.3	0.1081 µg/L	0.1081 ppb	09:46:14
2	Ti 334.940†	-523.1	120.2	0.3072 µg/L	0.3072 ppb	09:45:54
2	Tl 190.801†	-30.1	0.5	0.5533 µg/L	0.5533 ppb	09:46:14
2	U 409.014†	24.2	43.6	4.2098 µg/L	4.2098 ppb	09:45:54
2	V 292.402†	133.7	2.1	0.0403 µg/L	0.0403 ppb	09:45:54
2	Zn 213.857†	614.4	67.1	1.6661 µg/L	1.6661 ppb	09:46:14
3	Sc RADIAL	85602.6	85602.6	99.8 %		09:44:45
3	Al 396.153Radial†	-104.8	1.2	0.6062 µg/L	0.6062 ppb	09:44:45
3	Ca 317.933Radial†	330.1	10.1	4.0317 µg/L	4.0317 ppb	09:45:05
3	Fe 238.204 Radial†	14.1	1.3	16.819 µg/L	16.819 ppb	09:45:05
3	K 766.490 Radial†	58.6	-61.6	-30.465 µg/L	-30.465 ppb	09:44:45
3	Mg 279.077 IEC†	8.2	-1.0	-13.802 µg/L	-13.802 ppb	09:45:05
3	Na 589.592 Radial†	172.9	11.9	5.8680 µg/L	5.8680 ppb	09:44:45
3	Sr 421.552†	111.8	-7.9	-0.0496 µg/L	-0.0496 ppb	09:44:45
3	Sc 361.383	1856100.9	1856100.9	100.76 %		09:46:20
3	Y 371.029	1289735.3	1289735.3	100.73 %		09:46:20
3	Ag 328.068†	-482.5	34.9	0.2972 µg/L	0.2972 ppb	09:46:26
3	As 188.979†	0.3	2.0	3.1906 µg/L	3.1906 ppb	09:46:46
3	B 249.677†	269.3	-65.4	-3.2225 µg/L	-3.2225 ppb	09:46:26
3	Ba 233.527†	-9.9	9.6	0.2255 µg/L	0.2255 ppb	09:46:46
3	Be 313.107†	-1329.1	24.3	0.0155 µg/L	0.0155 ppb	09:46:26
3	Cd 226.502†	-159.9	7.2	0.1851 µg/L	0.1851 ppb	09:46:46
3	Co 228.616†	34.0	3.2	0.1495 µg/L	0.1495 ppb	09:46:46
3	Cr 267.716†	88.4	-2.8	-0.0671 µg/L	-0.0671 ppb	09:46:26
3	Cu 324.752†	4033.0	-101.8	-0.7083 µg/L	-0.7083 ppb	09:46:26
3	Mn 257.610†	-686.5	39.9	0.1340 µg/L	0.1340 ppb	09:46:46
3	Mo 202.031†	13.7	3.1	0.3295 µg/L	0.3295 ppb	09:46:46
3	Ni 231.604†	352.8	-6.6	-0.4006 µg/L	-0.4006 ppb	09:46:46
3	P 214.914†	278.8	-11.4	-20.684 µg/L	-20.684 ppb	09:46:46
3	Pb 220.353†	45.3	11.0	3.1274 µg/L	3.1274 ppb	09:46:46
3	S 181.975 Axial†	23.0	0.2	0.7506 µg/L	0.7506 ppb	09:46:46
3	Sb 206.836†	29.9	3.5	3.3585 µg/L	3.3585 ppb	09:46:46
3	Se 196.026†	23.0	2.8	2.9152 µg/L	2.9152 ppb	09:46:46
3	SiO2†	2672.1	3.5	0.6826 µg/L	0.6826 ppb	09:46:26
3	Si 251.611†	443.4	44.3	3.2303 µg/L	3.2303 ppb	09:46:46
3	Sn 189.927†	-2.4	1.4	0.5848 µg/L	0.5848 ppb	09:46:46
3	Ti 334.940†	-571.9	74.5	0.1898 µg/L	0.1898 ppb	09:46:26
3	Tl 190.801†	-37.9	-7.0	-7.4471 µg/L	-7.4471 ppb	09:46:46
3	U 409.014†	8.3	27.6	2.6634 µg/L	2.6634 ppb	09:46:26
3	V 292.402†	81.8	-50.1	-0.6435 µg/L	-0.6435 ppb	09:46:26
3	Zn 213.857†	615.0	64.4	1.5980 µg/L	1.5980 ppb	09:46:46

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1848265.9	100.33 %	0.378			0.38%
Sc RADIAL	85787.8	100 %	0.7			0.68%
Y 371.029	1284212.6	100.30 %	0.376			0.37%
Ag 328.068†	15.4	0.1295 µg/L	0.23126	0.1295 ppb	0.23126	178.57%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	1.5	0.7572 µg/L	1.80115	0.7572 ppb	1.80115	237.88%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.5	0.8057 µg/L	3.45562	0.8057 ppb	3.45562	428.91%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-62.4	-3.0663 µg/L	1.05935	-3.0663 ppb	1.05935	34.55%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	3.7	0.0878 µg/L	0.17128	0.0878 ppb	0.17128	195.03%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	61.7	0.0395 µg/L	0.03787	0.0395 ppb	0.03787	95.80%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	12.2	4.8701 µg/L	2.21251	4.8701 ppb	2.21251	45.43%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	8.8	0.2294 µg/L	0.03843	0.2294 ppb	0.03843	16.75%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	1.3	0.0625 µg/L	0.09720	0.0625 ppb	0.09720	155.47%

QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-17.8	-0.4253 µg/L	0.48896	-0.4253 ppb	0.48896 114.97%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-94.8	-0.6629 µg/L	0.19244	-0.6629 ppb	0.19244 29.03%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	-0.2	-2.4988 µg/L	17.04416	-2.4988 ppb	17.04416 682.11%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	-50.0	-24.750 µg/L	11.8346	-24.750 ppb	11.8346 47.82%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-2.2	-30.881 µg/L	14.8032	-30.881 ppb	14.8032 47.94%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	26.4	0.0894 µg/L	0.04257	0.0894 ppb	0.04257 47.63%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	7.3	0.7779 µg/L	0.39331	0.7779 ppb	0.39331 50.56%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	3.8	1.8588 µg/L	9.40475	1.8588 ppb	9.40475 505.95%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-4.1	-0.2506 µg/L	0.16070	-0.2506 ppb	0.16070 64.14%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-10.0	-17.987 µg/L	3.9823	-17.987 ppb	3.9823 22.14%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	7.0	1.9896 µg/L	2.00457	1.9896 ppb	2.00457 100.75%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	0.1	0.3038 µg/L	5.62431	0.3038 ppb	5.62431 >999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	1.8	1.7559 µg/L	1.58051	1.7559 ppb	1.58051 90.01%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	2.1	2.1730 µg/L	6.99656	2.1730 ppb	6.99656 321.98%
QC value within limits for Se 196.026 Recovery = Not calculated					
SiO2†	0.5	0.0954 µg/L	3.38120	0.0954 ppb	3.38120 >999.9%
QC value within limits for SiO2 Recovery = Not calculated					
Si 251.611†	51.1	3.7278 µg/L	0.43113	3.7278 ppb	0.43113 11.57%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	-0.2	-0.0936 µg/L	0.79851	-0.0936 ppb	0.79851 853.26%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-3.7	-0.0230 µg/L	0.10043	-0.0230 ppb	0.10043 436.97%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	74.2	0.1904 µg/L	0.11657	0.1904 ppb	0.11657 61.23%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-4.0	-4.2368 µg/L	4.22766	-4.2368 ppb	4.22766 99.79%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	31.5	3.0426 µg/L	1.03129	3.0426 ppb	1.03129 33.90%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-35.0	-0.4423 µg/L	0.41979	-0.4423 ppb	0.41979 94.92%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	67.7	1.6802 µg/L	0.09008	1.6802 ppb	0.09008 5.36%
QC value within limits for Zn 213.857 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 10

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 10:20:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86146.8	86146.8	100 %		10:21:17
1	Al 396.153Radial†	9825.3	9888.3	5174.4 µg/L	5174.4 ppb	10:21:17
1	Ca 317.933Radial†	13000.6	12622.8	5058.1 µg/L	5058.1 ppb	10:21:17
1	Fe 238.204 Radial†	410.4	395.8	4960.4 µg/L	4960.4 ppb	10:21:37
1	K 766.490 Radial†	10231.3	10066.0	4979.6 µg/L	4979.6 ppb	10:21:17
1	Mg 279.077 IEC†	360.9	350.1	4927.6 µg/L	4927.6 ppb	10:21:37
1	Na 589.592 Radial†	19767.3	19519.1	9652.1 µg/L	9652.1 ppb	10:21:17
1	Sr 421.552†	80247.5	79774.8	498.92 µg/L	498.92 ppb	10:21:17
1	Sc 361.383	1834853.9	1834853.9	99.603 %		10:22:41
1	Y 371.029	1272743.6	1272743.6	99.403 %		10:22:41
1	Ag 328.068†	57766.4	58510.2	506.68 µg/L	506.68 ppb	10:22:47
1	As 188.979†	321.6	324.6	518.62 µg/L	518.62 ppb	10:23:07
1	B 249.677†	10475.0	10184.1	498.86 µg/L	498.86 ppb	10:22:47
1	Ba 233.527†	21439.7	21544.5	511.34 µg/L	511.34 ppb	10:22:47
1	Be 313.107†	789861.8	794350.2	509.38 µg/L	509.38 ppb	10:22:41
1	Cd 226.502†	19274.1	19516.7	510.72 µg/L	510.72 ppb	10:22:47
1	Co 228.616†	10983.0	10996.2	511.55 µg/L	511.55 ppb	10:22:47
1	Cr 267.716†	21701.8	21697.7	518.25 µg/L	518.25 ppb	10:22:47
1	Cu 324.752†	77180.8	73383.7	513.92 µg/L	513.92 ppb	10:22:47
1	Mn 257.610†	155206.5	156545.8	517.57 µg/L	517.57 ppb	10:22:41
1	Mo 202.031†	4915.0	4924.0	527.94 µg/L	527.94 ppb	10:23:07
1	Ni 231.604†	8803.5	8481.8	514.58 µg/L	514.58 ppb	10:22:47
1	P 214.914†	1717.8	1436.5	2555.2 µg/L	2555.2 ppb	10:23:07
1	Pb 220.353†	1857.5	1831.0	521.87 µg/L	521.87 ppb	10:23:07
1	S 181.975 Axial†	315.3	294.0	1013.0 µg/L	1013.0 ppb	10:23:07
1	Sb 206.836†	560.2	536.2	522.28 µg/L	522.28 ppb	10:23:07
1	Se 196.026†	522.0	504.1	525.42 µg/L	525.42 ppb	10:23:07
1	SiO2†	30898.7	28373.3	5509.2 µg/L	5509.2 ppb	10:22:47
1	Si 251.611†	35564.5	35310.2	2577.3 µg/L	2577.3 ppb	10:22:47
1	Sn 189.927†	1221.3	1229.9	529.00 µg/L	529.00 ppb	10:23:07
1	Ti 334.940†	199982.1	201420.6	509.37 µg/L	509.37 ppb	10:22:41
1	Tl 190.801†	448.5	480.8	517.04 µg/L	517.04 ppb	10:23:07
1	U 409.014†	5298.9	5339.4	514.91 µg/L	514.91 ppb	10:22:47
1	V 292.402†	39794.8	39821.9	518.71 µg/L	518.71 ppb	10:22:47
1	Zn 213.857†	21472.0	21011.5	516.76 µg/L	516.76 ppb	10:22:47
2	Sc RADIAL	86508.7	86508.7	101 %		10:21:43
2	Al 396.153Radial†	9785.7	9808.1	5132.6 µg/L	5132.6 ppb	10:21:43
2	Ca 317.933Radial†	13040.0	12607.7	5052.0 µg/L	5052.0 ppb	10:21:43
2	Fe 238.204 Radial†	409.3	393.0	4924.8 µg/L	4924.8 ppb	10:22:04
2	K 766.490 Radial†	10269.8	10061.6	4977.4 µg/L	4977.4 ppb	10:21:43
2	Mg 279.077 IEC†	360.3	348.0	4898.0 µg/L	4898.0 ppb	10:22:04
2	Na 589.592 Radial†	19791.0	19460.2	9623.0 µg/L	9623.0 ppb	10:21:43
2	Sr 421.552†	80386.7	79578.5	497.69 µg/L	497.69 ppb	10:21:43
2	Sc 361.383	1845416.4	1845416.4	100.18 %		10:23:15
2	Y 371.029	1281429.2	1281429.2	100.08 %		10:23:15
2	Ag 328.068†	57542.5	57954.8	501.87 µg/L	501.87 ppb	10:23:20
2	As 188.979†	316.3	317.4	507.15 µg/L	507.15 ppb	10:23:41
2	B 249.677†	10433.3	10082.2	493.87 µg/L	493.87 ppb	10:23:20
2	Ba 233.527†	21375.6	21357.2	506.89 µg/L	506.89 ppb	10:23:20
2	Be 313.107†	795618.0	795557.4	510.15 µg/L	510.15 ppb	10:23:15
2	Cd 226.502†	19125.0	19257.0	503.92 µg/L	503.92 ppb	10:23:20
2	Co 228.616†	10978.1	10928.2	508.37 µg/L	508.37 ppb	10:23:20
2	Cr 267.716†	21583.4	21454.8	512.45 µg/L	512.45 ppb	10:23:20
2	Cu 324.752†	77064.3	72823.8	510.00 µg/L	510.00 ppb	10:23:20
2	Mn 257.610†	155860.3	156306.5	516.78 µg/L	516.78 ppb	10:23:15
2	Mo 202.031†	4824.7	4805.6	515.25 µg/L	515.25 ppb	10:23:41
2	Ni 231.604†	8729.4	8357.2	507.02 µg/L	507.02 ppb	10:23:20
2	P 214.914†	1702.8	1411.7	2510.5 µg/L	2510.5 ppb	10:23:41
2	Pb 220.353†	1826.7	1789.6	510.05 µg/L	510.05 ppb	10:23:41

2	S 181.975 Axial†	314.6	291.5	1004.3 µg/L	1004.3 ppb	10:23:41
2	Sb 206.836†	553.2	525.9	512.18 µg/L	512.18 ppb	10:23:41
2	Se 196.026†	521.3	500.4	521.61 µg/L	521.61 ppb	10:23:41
2	SiO2†	30914.8	28211.8	5477.9 µg/L	5477.9 ppb	10:23:20
2	Si 251.611†	35572.9	35114.3	2563.0 µg/L	2563.0 ppb	10:23:20
2	Sn 189.927†	1211.0	1212.6	521.57 µg/L	521.57 ppb	10:23:41
2	Ti 334.940†	201462.7	201749.4	510.20 µg/L	510.20 ppb	10:23:15
2	Tl 190.801†	444.1	473.9	509.64 µg/L	509.64 ppb	10:23:41
2	U 409.014†	5311.8	5321.8	513.22 µg/L	513.22 ppb	10:23:20
2	V 292.402†	39583.6	39382.4	512.94 µg/L	512.94 ppb	10:23:20
2	Zn 213.857†	21482.4	20898.6	514.01 µg/L	514.01 ppb	10:23:20
3	Sc RADIAL	86892.6	86892.6	101 %		10:22:09
3	Al 396.153Radial†	9836.2	9815.1	5137.8 µg/L	5137.8 ppb	10:22:09
3	Ca 317.933Radial†	13062.7	12572.9	5038.1 µg/L	5038.1 ppb	10:22:09
3	Fe 238.204 Radial†	407.3	389.2	4876.8 µg/L	4876.8 ppb	10:22:30
3	K 766.490 Radial†	10344.5	10090.3	4991.7 µg/L	4991.7 ppb	10:22:09
3	Mg 279.077 IEC†	362.4	348.5	4904.3 µg/L	4904.3 ppb	10:22:30
3	Na 589.592 Radial†	19773.5	19356.2	9571.6 µg/L	9571.6 ppb	10:22:09
3	Sr 421.552†	80720.2	79555.5	497.54 µg/L	497.54 ppb	10:22:09
3	Sc 361.383	1821037.3	1821037.3	98.853 %		10:23:48
3	Y 371.029	1263220.3	1263220.3	98.659 %		10:23:48
3	Ag 328.068†	54612.9	55760.2	482.72 µg/L	482.72 ppb	10:23:54
3	As 188.979†	272.0	276.8	442.21 µg/L	442.21 ppb	10:24:14
3	B 249.677†	9840.0	9621.5	471.16 µg/L	471.16 ppb	10:23:54
3	Ba 233.527†	19720.5	19968.6	473.92 µg/L	473.92 ppb	10:23:54
3	Be 313.107†	731174.9	740999.2	475.16 µg/L	475.16 ppb	10:23:48
3	Cd 226.502†	17614.1	17984.3	470.58 µg/L	470.58 ppb	10:23:54
3	Co 228.616†	10016.3	10102.0	469.89 µg/L	469.89 ppb	10:23:54
3	Cr 267.716†	19183.2	19315.2	461.35 µg/L	461.35 ppb	10:23:54
3	Cu 324.752†	70791.5	67508.1	472.83 µg/L	472.83 ppb	10:23:54
3	Mn 257.610†	143870.9	146261.0	483.57 µg/L	483.57 ppb	10:23:48
3	Mo 202.031†	4066.9	4103.5	439.99 µg/L	439.99 ppb	10:24:14
3	Ni 231.604†	7998.8	7734.8	469.26 µg/L	469.26 ppb	10:23:54
3	P 214.914†	1484.6	1213.6	2154.3 µg/L	2154.3 ppb	10:24:14
3	Pb 220.353†	1614.8	1599.6	455.86 µg/L	455.86 ppb	10:24:14
3	S 181.975 Axial†	278.4	259.0	892.49 µg/L	892.49 ppb	10:24:14
3	Sb 206.836†	481.8	461.1	448.70 µg/L	448.70 ppb	10:24:14
3	Se 196.026†	468.6	454.0	474.19 µg/L	474.19 ppb	10:24:14
3	SiO2†	29061.9	26750.5	5194.1 µg/L	5194.1 ppb	10:23:54
3	Si 251.611†	33301.6	33292.1	2430.0 µg/L	2430.0 ppb	10:23:54
3	Sn 189.927†	996.8	1012.1	435.43 µg/L	435.43 ppb	10:24:14
3	Ti 334.940†	184359.6	187140.2	473.23 µg/L	473.23 ppb	10:23:48
3	Tl 190.801†	404.0	439.3	472.48 µg/L	472.48 ppb	10:24:14
3	U 409.014†	4722.7	4796.9	462.51 µg/L	462.51 ppb	10:23:54
3	V 292.402†	35852.8	36137.3	470.34 µg/L	470.34 ppb	10:23:54
3	Zn 213.857†	19631.4	19313.1	474.97 µg/L	474.97 ppb	10:23:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1833769.2	99.545 %	0.6637			0.67%
Sc RADIAL	86516.0	101 %	0.4			0.43%
Y 371.029	1272464.4	99.381 %	0.7113			0.72%
Ag 328.068†	57408.4	497.09 µg/L	12.673	497.09 ppb	12.673	2.55%
QC value within limits for Ag 328.068 Recovery = 99.42%						
Al 396.153Radial†	9837.1	5148.3 µg/L	22.77	5148.3 ppb	22.77	0.44%
QC value within limits for Al 396.153Radial Recovery = 102.97%						
As 188.979†	306.3	489.33 µg/L	41.207	489.33 ppb	41.207	8.42%
QC value within limits for As 188.979 Recovery = 97.87%						
B 249.677†	9962.6	487.96 µg/L	14.765	487.96 ppb	14.765	3.03%
QC value within limits for B 249.677 Recovery = 97.59%						
Ba 233.527†	20956.8	497.38 µg/L	20.442	497.38 ppb	20.442	4.11%
QC value within limits for Ba 233.527 Recovery = 99.48%						
Be 313.107†	776968.9	498.23 µg/L	19.979	498.23 ppb	19.979	4.01%
QC value within limits for Be 313.107 Recovery = 99.65%						
Ca 317.933Radial†	12601.2	5049.4 µg/L	10.25	5049.4 ppb	10.25	0.20%
QC value within limits for Ca 317.933Radial Recovery = 100.99%						
Cd 226.502†	18919.3	495.07 µg/L	21.483	495.07 ppb	21.483	4.34%
QC value within limits for Cd 226.502 Recovery = 99.01%						
Co 228.616†	10675.5	496.60 µg/L	23.185	496.60 ppb	23.185	4.67%

Cr	267.716†	20822.6	497.35 µg/L	31.312	497.35 ppb	31.312	6.30%
QC value within limits for Cr 267.716 Recovery = 99.47%							
Cu	324.752†	71238.5	498.91 µg/L	22.675	498.91 ppb	22.675	4.54%
QC value within limits for Cu 324.752 Recovery = 99.78%							
Fe	238.204 Radial†	392.7	4920.7 µg/L	41.95	4920.7 ppb	41.95	0.85%
QC value within limits for Fe 238.204 Radial Recovery = 98.41%							
K	766.490 Radial†	10072.6	4982.9 µg/L	7.65	4982.9 ppb	7.65	0.15%
QC value within limits for K 766.490 Radial Recovery = 99.66%							
Mg	279.077 IEC†	348.9	4909.9 µg/L	15.59	4909.9 ppb	15.59	0.32%
QC value within limits for Mg 279.077 IEC Recovery = 98.20%							
Mn	257.610†	153037.8	505.97 µg/L	19.411	505.97 ppb	19.411	3.84%
QC value within limits for Mn 257.610 Recovery = 101.19%							
Mo	202.031†	4611.0	494.39 µg/L	47.537	494.39 ppb	47.537	9.62%
QC value within limits for Mo 202.031 Recovery = 98.88%							
Na	589.592 Radial†	19445.2	9615.6 µg/L	40.78	9615.6 ppb	40.78	0.42%
QC value within limits for Na 589.592 Radial Recovery = 96.16%							
Ni	231.604†	8191.3	496.95 µg/L	24.278	496.95 ppb	24.278	4.89%
QC value within limits for Ni 231.604 Recovery = 99.39%							
P	214.914†	1353.9	2406.7 µg/L	219.74	2406.7 ppb	219.74	9.13%
QC value within limits for P 214.914 Recovery = 96.27%							
Pb	220.353†	1740.1	495.92 µg/L	35.197	495.92 ppb	35.197	7.10%
QC value within limits for Pb 220.353 Recovery = 99.18%							
S	181.975 Axial†	281.5	969.93 µg/L	67.203	969.93 ppb	67.203	6.93%
QC value within limits for S 181.975 Axial Recovery = 96.99%							
Sb	206.836†	507.7	494.39 µg/L	39.888	494.39 ppb	39.888	8.07%
QC value within limits for Sb 206.836 Recovery = 98.88%							
Se	196.026†	486.2	507.08 µg/L	28.543	507.08 ppb	28.543	5.63%
QC value within limits for Se 196.026 Recovery = 101.42%							
SiO2†		27778.5	5393.8 µg/L	173.58	5393.8 ppb	173.58	3.22%
QC value within limits for SiO2 Recovery = 100.87%							
Si	251.611†	34572.2	2523.4 µg/L	81.24	2523.4 ppb	81.24	3.22%
QC value within limits for Si 251.611 Recovery = 100.94%							
Sn	189.927†	1151.5	495.33 µg/L	52.012	495.33 ppb	52.012	10.50%
QC value within limits for Sn 189.927 Recovery = 99.07%							
Sr	421.552†	79636.3	498.05 µg/L	0.754	498.05 ppb	0.754	0.15%
QC value within limits for Sr 421.552 Recovery = 99.61%							
Ti	334.940†	196770.0	497.60 µg/L	21.107	497.60 ppb	21.107	4.24%
QC value within limits for Ti 334.940 Recovery = 99.52%							
Tl	190.801†	464.7	499.72 µg/L	23.880	499.72 ppb	23.880	4.78%
QC value within limits for Tl 190.801 Recovery = 99.94%							
U	409.014†	5152.7	496.88 µg/L	29.781	496.88 ppb	29.781	5.99%
QC value within limits for U 409.014 Recovery = 99.38%							
V	292.402†	38447.2	500.66 µg/L	26.416	500.66 ppb	26.416	5.28%
QC value within limits for V 292.402 Recovery = 100.13%							
Zn	213.857†	20407.7	501.91 µg/L	23.373	501.91 ppb	23.373	4.66%
QC value within limits for Zn 213.857 Recovery = 100.38%							

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 10:24:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87265.6	87265.6	102 %		10:24:54
1	Al 396.153Radial†	-112.1	-4.0	-2.1189 µg/L	-2.1189 ppb	10:24:54
1	Ca 317.933Radial†	342.0	15.5	6.2037 µg/L	6.2037 ppb	10:25:14
1	Fe 238.204 Radial†	15.1	2.0	25.555 µg/L	25.555 ppb	10:25:14
1	K 766.490 Radial†	121.7	-0.7	-0.3411 µg/L	-0.3411 ppb	10:24:54
1	Mg 279.077 IEC†	9.8	0.4	6.0922 µg/L	6.0922 ppb	10:25:14
1	Na 589.592 Radial†	190.4	25.7	12.732 µg/L	12.732 ppb	10:24:54
1	Sr 421.552†	145.3	22.9	0.1431 µg/L	0.1431 ppb	10:24:54
1	Sc 361.383	1844478.0	1844478.0	100.13 %		10:26:16
1	Y 371.029	1283086.4	1283086.4	100.21 %		10:26:16
1	Ag 328.068†	-557.1	-42.6	-0.3711 µg/L	-0.3711 ppb	10:26:22
1	As 188.979†	-4.9	-3.2	-5.2040 µg/L	-5.2040 ppb	10:26:42
1	B 249.677†	304.0	-29.1	-1.4433 µg/L	-1.4433 ppb	10:26:22
1	Ba 233.527†	-10.8	8.6	0.2018 µg/L	0.2018 ppb	10:26:42
1	Be 313.107†	-1127.2	217.6	0.1394 µg/L	0.1394 ppb	10:26:22
1	Cd 226.502†	-172.1	-6.1	-0.1620 µg/L	-0.1620 ppb	10:26:42
1	Co 228.616†	25.1	-5.4	-0.2505 µg/L	-0.2505 ppb	10:26:42
1	Cr 267.716†	65.9	-24.7	-0.5909 µg/L	-0.5909 ppb	10:26:22
1	Cu 324.752†	4085.6	-24.0	-0.1633 µg/L	-0.1633 ppb	10:26:22
1	Mn 257.610†	-649.0	73.1	0.2428 µg/L	0.2428 ppb	10:26:42
1	Mo 202.031†	25.1	14.6	1.5611 µg/L	1.5611 ppb	10:26:42
1	Ni 231.604†	352.6	-4.6	-0.2793 µg/L	-0.2793 ppb	10:26:42
1	P 214.914†	277.1	-11.4	-20.716 µg/L	-20.716 ppb	10:26:42
1	Pb 220.353†	42.5	8.5	2.4136 µg/L	2.4136 ppb	10:26:42
1	S 181.975 Axial†	22.0	-0.7	-2.4172 µg/L	-2.4172 ppb	10:26:42
1	Sb 206.836†	27.2	0.9	0.8717 µg/L	0.8717 ppb	10:26:42
1	Se 196.026†	18.1	-1.9	-1.8209 µg/L	-1.8209 ppb	10:26:42
1	SiO2†	2698.9	47.0	9.1288 µg/L	9.1288 ppb	10:26:22
1	Si 251.611†	453.9	57.5	4.1988 µg/L	4.1988 ppb	10:26:42
1	Sn 189.927†	-4.0	-0.3	-0.1079 µg/L	-0.1079 ppb	10:26:42
1	Ti 334.940†	-526.3	116.6	0.2945 µg/L	0.2945 ppb	10:26:22
1	Tl 190.801†	-36.3	-5.7	-6.0699 µg/L	-6.0699 ppb	10:26:42
1	U 409.014†	57.3	76.7	7.4036 µg/L	7.4036 ppb	10:26:22
1	V 292.402†	47.7	-83.8	-1.0651 µg/L	-1.0651 ppb	10:26:22
1	Zn 213.857†	628.6	81.8	2.0267 µg/L	2.0267 ppb	10:26:42
2	Sc RADIAL	87460.4	87460.4	102 %		10:25:20
2	Al 396.153Radial†	-100.3	7.8	4.0999 µg/L	4.0999 ppb	10:25:20
2	Ca 317.933Radial†	344.5	17.2	6.8902 µg/L	6.8902 ppb	10:25:40
2	Fe 238.204 Radial†	15.3	2.2	27.088 µg/L	27.088 ppb	10:25:40
2	K 766.490 Radial†	199.4	75.2	37.219 µg/L	37.219 ppb	10:25:20
2	Mg 279.077 IEC†	2.0	-7.2	-101.48 µg/L	-101.48 ppb	10:25:40
2	Na 589.592 Radial†	157.2	-7.1	-3.5344 µg/L	-3.5344 ppb	10:25:20
2	Sr 421.552†	150.3	27.5	0.1721 µg/L	0.1721 ppb	10:25:20
2	Sc 361.383	1833047.5	1833047.5	99.505 %		10:26:48
2	Y 371.029	1276877.6	1276877.6	99.726 %		10:26:48
2	Ag 328.068†	-441.5	70.2	0.6017 µg/L	0.6017 ppb	10:26:54
2	As 188.979†	-2.6	-0.9	-1.4384 µg/L	-1.4384 ppb	10:27:14
2	B 249.677†	326.8	-4.2	-0.2205 µg/L	-0.2205 ppb	10:26:54
2	Ba 233.527†	-21.3	-2.0	-0.0493 µg/L	-0.0493 ppb	10:27:14
2	Be 313.107†	-1119.4	218.4	0.1400 µg/L	0.1400 ppb	10:26:54
2	Cd 226.502†	-174.0	-9.1	-0.2406 µg/L	-0.2406 ppb	10:27:14
2	Co 228.616†	26.1	-4.2	-0.1972 µg/L	-0.1972 ppb	10:27:14
2	Cr 267.716†	96.4	6.4	0.1520 µg/L	0.1520 ppb	10:26:54
2	Cu 324.752†	4056.5	-27.9	-0.1898 µg/L	-0.1898 ppb	10:26:54
2	Mn 257.610†	-649.4	68.6	0.2352 µg/L	0.2352 ppb	10:27:14
2	Mo 202.031†	16.2	5.8	0.6222 µg/L	0.6222 ppb	10:27:14
2	Ni 231.604†	358.2	3.3	0.1983 µg/L	0.1983 ppb	10:27:14
2	P 214.914†	279.8	-6.9	-12.527 µg/L	-12.527 ppb	10:27:14
2	Pb 220.353†	45.9	12.2	3.4778 µg/L	3.4778 ppb	10:27:14

2	S 181.975 Axial†	25.3	2.8	9.7461 µg/L	9.7461 ppb	10:27:14
2	Sb 206.836†	24.9	-1.3	-1.2147 µg/L	-1.2147 ppb	10:27:14
2	Se 196.026†	33.0	13.2	13.587 µg/L	13.587 ppb	10:27:14
2	SiO2†	2680.5	45.3	8.8034 µg/L	8.8034 ppb	10:26:54
2	Si 251.611†	468.3	74.8	5.4586 µg/L	5.4586 ppb	10:27:14
2	Sn 189.927†	-0.3	3.5	1.4861 µg/L	1.4861 ppb	10:27:14
2	Ti 334.940†	-555.7	83.7	0.2199 µg/L	0.2199 ppb	10:26:54
2	Tl 190.801†	-31.4	-1.0	-1.0305 µg/L	-1.0305 ppb	10:27:14
2	U 409.014†	-19.9	-0.6	-0.0594 µg/L	-0.0594 ppb	10:26:54
2	V 292.402†	89.5	-41.4	-0.5323 µg/L	-0.5323 ppb	10:26:54
2	Zn 213.857†	625.9	83.0	2.0606 µg/L	2.0606 ppb	10:27:14
3	Sc RADIAL	87227.5	87227.5	102 %		10:25:45
3	Al 396.153Radial†	-90.8	16.8	8.8259 µg/L	8.8259 ppb	10:25:45
3	Ca 317.933Radial†	347.0	20.6	8.2516 µg/L	8.2516 ppb	10:26:06
3	Fe 238.204 Radial†	13.9	0.9	11.271 µg/L	11.271 ppb	10:26:06
3	K 766.490 Radial†	70.3	-51.2	-25.319 µg/L	-25.319 ppb	10:25:45
3	Mg 279.077 IEC†	9.5	0.1	1.2571 µg/L	1.2571 ppb	10:26:06
3	Na 589.592 Radial†	177.5	13.2	6.5243 µg/L	6.5243 ppb	10:25:45
3	Sr 421.552†	124.5	2.5	0.0155 µg/L	0.0155 ppb	10:25:45
3	Sc 361.383	1825284.3	1825284.3	99.084 %		10:27:20
3	Y 371.029	1268939.9	1268939.9	99.106 %		10:27:20
3	Ag 328.068†	-526.7	-17.8	-0.1586 µg/L	-0.1586 ppb	10:27:26
3	As 188.979†	0.5	2.1	3.4379 µg/L	3.4379 ppb	10:27:46
3	B 249.677†	306.9	-22.9	-1.1340 µg/L	-1.1340 ppb	10:27:26
3	Ba 233.527†	-17.0	2.2	0.0503 µg/L	0.0503 ppb	10:27:46
3	Be 313.107†	-1217.3	114.8	0.0735 µg/L	0.0735 ppb	10:27:26
3	Cd 226.502†	-163.9	0.4	0.0104 µg/L	0.0104 ppb	10:27:46
3	Co 228.616†	36.7	6.5	0.3032 µg/L	0.3032 ppb	10:27:46
3	Cr 267.716†	59.8	-30.2	-0.7213 µg/L	-0.7213 ppb	10:27:26
3	Cu 324.752†	4067.4	0.5	0.0053 µg/L	0.0053 ppb	10:27:26
3	Mn 257.610†	-664.5	50.6	0.1679 µg/L	0.1679 ppb	10:27:46
3	Mo 202.031†	14.6	4.2	0.4504 µg/L	0.4504 ppb	10:27:46
3	Ni 231.604†	354.5	1.0	0.0601 µg/L	0.0601 ppb	10:27:46
3	P 214.914†	282.8	-2.7	-4.8618 µg/L	-4.8618 ppb	10:27:46
3	Pb 220.353†	42.8	9.2	2.6281 µg/L	2.6281 ppb	10:27:46
3	S 181.975 Axial†	19.0	-3.4	-11.792 µg/L	-11.792 ppb	10:27:46
3	Sb 206.836†	26.3	0.3	0.3045 µg/L	0.3045 ppb	10:27:46
3	Se 196.026†	20.8	1.0	1.0936 µg/L	1.0936 ppb	10:27:46
3	SiO2†	2685.8	62.2	12.069 µg/L	12.069 ppb	10:27:26
3	Si 251.611†	454.8	63.2	4.6129 µg/L	4.6129 ppb	10:27:46
3	Sn 189.927†	-3.7	-0.0	-0.0169 µg/L	-0.0169 ppb	10:27:46
3	Ti 334.940†	-467.9	169.9	0.4300 µg/L	0.4300 ppb	10:27:26
3	Tl 190.801†	-27.0	3.3	3.5061 µg/L	3.5061 ppb	10:27:46
3	U 409.014†	1.6	21.0	2.0280 µg/L	2.0280 ppb	10:27:26
3	V 292.402†	52.6	-78.3	-1.0070 µg/L	-1.0070 ppb	10:27:26
3	Zn 213.857†	610.6	70.3	1.7403 µg/L	1.7403 ppb	10:27:46

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1834270.0	99.572 %	0.5241			0.53%
Sc RADIAL	87317.9	102 %	0.1			0.14%
Y 371.029	1276301.3	99.681 %	0.5538			0.56%
Ag 328.068†	3.3	0.0240 µg/L	0.51147	0.0240 ppb	0.51147	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	6.9	3.6023 µg/L	5.48932	3.6023 ppb	5.48932	152.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.7	-1.0682 µg/L	4.33285	-1.0682 ppb	4.33285	405.63%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-18.7	-0.9326 µg/L	0.63579	-0.9326 ppb	0.63579	68.17%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	2.9	0.0676 µg/L	0.12645	0.0676 ppb	0.12645	187.14%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	183.6	0.1177 µg/L	0.03824	0.1177 ppb	0.03824	32.50%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	17.8	7.1152 µg/L	1.04235	7.1152 ppb	1.04235	14.65%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	-4.9	-0.1307 µg/L	0.12843	-0.1307 ppb	0.12843	98.24%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.0	-0.0481 µg/L	0.30546	-0.0481 ppb	0.30546	634.70%

QC value within limits for Co 228.616	Recovery = Not calculated		
Cr 267.716†	-16.2 -0.3867 µg/L	0.47107 -0.3867 ppb	0.47107 121.81%
QC value within limits for Cr 267.716	Recovery = Not calculated		
Cu 324.752†	-17.2 -0.1159 µg/L	0.10579 -0.1159 ppb	0.10579 91.25%
QC value within limits for Cu 324.752	Recovery = Not calculated		
Fe 238.204 Radial†	1.7 21.304 µg/L	8.7229 21.304 ppb	8.7229 40.94%
QC value within limits for Fe 238.204 Radial	Recovery = Not calculated		
K 766.490 Radial†	7.8 3.8529 µg/L	31.47936 3.8529 ppb	31.47936 817.02%
QC value within limits for K 766.490 Radial	Recovery = Not calculated		
Mg 279.077 IEC†	-2.2 -31.378 µg/L	60.7619 -31.378 ppb	60.7619 193.64%
QC value within limits for Mg 279.077 IEC	Recovery = Not calculated		
Mn 257.610†	64.1 0.2153 µg/L	0.04118 0.2153 ppb	0.04118 19.13%
QC value within limits for Mn 257.610	Recovery = Not calculated		
Mo 202.031†	8.2 0.8779 µg/L	0.59785 0.8779 ppb	0.59785 68.10%
QC value within limits for Mo 202.031	Recovery = Not calculated		
Na 589.592 Radial†	10.6 5.2407 µg/L	8.20902 5.2407 ppb	8.20902 156.64%
QC value within limits for Na 589.592 Radial	Recovery = Not calculated		
Ni 231.604†	-0.1 -0.0070 µg/L	0.24578 -0.0070 ppb	0.24578 >999.9%
QC value within limits for Ni 231.604	Recovery = Not calculated		
P 214.914†	-7.0 -12.702 µg/L	7.9284 -12.702 ppb	7.9284 62.42%
QC value within limits for P 214.914	Recovery = Not calculated		
Pb 220.353†	10.0 2.8398 µg/L	0.56281 2.8398 ppb	0.56281 19.82%
QC value within limits for Pb 220.353	Recovery = Not calculated		
S 181.975 Axial†	-0.4 -1.4878 µg/L	10.79920 -1.4878 ppb	10.79920 725.85%
QC value within limits for S 181.975 Axial	Recovery = Not calculated		
Sb 206.836†	-0.0 -0.0128 µg/L	1.07882 -0.0128 ppb	1.07882 >999.9%
QC value within limits for Sb 206.836	Recovery = Not calculated		
Se 196.026†	4.1 4.2865 µg/L	8.18510 4.2865 ppb	8.18510 190.95%
QC value within limits for Se 196.026	Recovery = Not calculated		
SiO2†	51.5 10.000 µg/L	1.7989 10.000 ppb	1.7989 17.99%
QC value within limits for SiO2	Recovery = Not calculated		
Si 251.611†	65.2 4.7568 µg/L	0.64212 4.7568 ppb	0.64212 13.50%
QC value within limits for Si 251.611	Recovery = Not calculated		
Sn 189.927†	1.1 0.4538 µg/L	0.89519 0.4538 ppb	0.89519 197.27%
QC value within limits for Sn 189.927	Recovery = Not calculated		
Sr 421.552†	17.6 0.1102 µg/L	0.08330 0.1102 ppb	0.08330 75.57%
QC value within limits for Sr 421.552	Recovery = Not calculated		
Ti 334.940†	123.4 0.3148 µg/L	0.10651 0.3148 ppb	0.10651 33.83%
QC value within limits for Ti 334.940	Recovery = Not calculated		
Tl 190.801†	-1.1 -1.1981 µg/L	4.79018 -1.1981 ppb	4.79018 399.81%
QC value within limits for Tl 190.801	Recovery = Not calculated		
U 409.014†	32.4 3.1241 µg/L	3.85037 3.1241 ppb	3.85037 123.25%
QC value within limits for U 409.014	Recovery = Not calculated		
V 292.402†	-67.8 -0.8682 µg/L	0.29227 -0.8682 ppb	0.29227 33.67%
QC value within limits for V 292.402	Recovery = Not calculated		
Zn 213.857†	78.4 1.9425 µg/L	0.17596 1.9425 ppb	0.17596 9.06%
QC value within limits for Zn 213.857	Recovery = Not calculated		

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 10:57:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	85331.1	85331.1	99.5 %		10:57:40
1	Al 396.153Radial†	9908.4	10065.3	5266.9 µg/L	5266.9 ppb	10:57:40
1	Ca 317.933Radial†	13191.2	12938.1	5184.4 µg/L	5184.4 ppb	10:57:40
1	Fe 238.204 Radial†	417.9	407.2	5103.0 µg/L	5103.0 ppb	10:58:01
1	K 766.490 Radial†	10336.8	10269.4	5080.3 µg/L	5080.3 ppb	10:57:40
1	Mg 279.077 IEC†	371.1	363.8	5121.0 µg/L	5121.0 ppb	10:58:01
1	Na 589.592 Radial†	20493.9	20437.5	10106 µg/L	10106 ppb	10:57:40
1	Sr 421.552†	82494.2	82796.6	517.81 µg/L	517.81 ppb	10:57:40
1	Sc 361.383	1794281.5	1794281.5	97.401 %		10:59:05
1	Y 371.029	1245479.9	1245479.9	97.274 %		10:59:05
1	Ag 328.068†	57968.7	60029.4	519.83 µg/L	519.83 ppb	10:59:10
1	As 188.979†	324.2	334.6	534.59 µg/L	534.59 ppb	10:59:31
1	B 249.677†	10447.8	10393.9	509.13 µg/L	509.13 ppb	10:59:10
1	Ba 233.527†	21396.8	21987.1	521.85 µg/L	521.85 ppb	10:59:10
1	Be 313.107†	796412.8	819007.5	525.19 µg/L	525.19 ppb	10:59:05
1	Cd 226.502†	19220.3	19899.0	520.72 µg/L	520.72 ppb	10:59:10
1	Co 228.616†	11014.3	11277.7	524.64 µg/L	524.64 ppb	10:59:10
1	Cr 267.716†	21780.2	22270.9	531.94 µg/L	531.94 ppb	10:59:10
1	Cu 324.752†	77555.0	75520.0	528.88 µg/L	528.88 ppb	10:59:10
1	Mn 257.610†	155968.1	160851.2	531.81 µg/L	531.81 ppb	10:59:05
1	Mo 202.031†	4950.8	5072.4	543.85 µg/L	543.85 ppb	10:59:31
1	Ni 231.604†	8775.4	8652.8	524.95 µg/L	524.95 ppb	10:59:10
1	P 214.914†	1722.3	1480.1	2632.8 µg/L	2632.8 ppb	10:59:31
1	Pb 220.353†	1867.1	1883.0	536.69 µg/L	536.69 ppb	10:59:31
1	S 181.975 Axial†	313.1	298.8	1029.6 µg/L	1029.6 ppb	10:59:31
1	Sb 206.836†	568.7	557.6	543.15 µg/L	543.15 ppb	10:59:31
1	Se 196.026†	536.3	530.6	552.78 µg/L	552.78 ppb	10:59:31
1	SiO2†	30875.2	29050.5	5640.8 µg/L	5640.8 ppb	10:59:10
1	Si 251.611†	35657.3	36213.0	2643.2 µg/L	2643.2 ppb	10:59:10
1	Sn 189.927†	1227.4	1263.9	543.62 µg/L	543.62 ppb	10:59:31
1	Ti 334.940†	202260.0	208299.3	526.76 µg/L	526.76 ppb	10:59:05
1	Tl 190.801†	452.2	494.9	532.17 µg/L	532.17 ppb	10:59:31
1	U 409.014†	5368.5	5531.2	533.42 µg/L	533.42 ppb	10:59:10
1	V 292.402†	39900.5	40833.8	531.92 µg/L	531.92 ppb	10:59:10
1	Zn 213.857†	21525.6	21554.0	530.11 µg/L	530.11 ppb	10:59:10
2	Sc RADIAL	85985.6	85985.6	100 %		10:58:06
2	Al 396.153Radial†	9959.7	10040.6	5254.1 µg/L	5254.1 ppb	10:58:06
2	Ca 317.933Radial†	13296.3	12942.0	5186.0 µg/L	5186.0 ppb	10:58:06
2	Fe 238.204 Radial†	419.6	405.7	5084.6 µg/L	5084.6 ppb	10:58:27
2	K 766.490 Radial†	10379.8	10233.2	5062.4 µg/L	5062.4 ppb	10:58:06
2	Mg 279.077 IEC†	369.7	359.6	5061.2 µg/L	5061.2 ppb	10:58:27
2	Na 589.592 Radial†	20676.9	20463.2	10119 µg/L	10119 ppb	10:58:06
2	Sr 421.552†	83112.1	82781.8	517.72 µg/L	517.72 ppb	10:58:06
2	Sc 361.383	1787406.5	1787406.5	97.028 %		10:59:38
2	Y 371.029	1239474.2	1239474.2	96.805 %		10:59:38
2	Ag 328.068†	58473.2	60778.2	526.32 µg/L	526.32 ppb	10:59:43
2	As 188.979†	322.3	333.9	533.51 µg/L	533.51 ppb	11:00:04
2	B 249.677†	10537.0	10527.1	515.69 µg/L	515.69 ppb	10:59:43
2	Ba 233.527†	21567.5	22247.6	528.03 µg/L	528.03 ppb	10:59:43
2	Be 313.107†	793424.9	819073.1	525.23 µg/L	525.23 ppb	10:59:38
2	Cd 226.502†	19400.5	20160.6	527.57 µg/L	527.57 ppb	10:59:43
2	Co 228.616†	11130.6	11441.0	532.24 µg/L	532.24 ppb	10:59:43
2	Cr 267.716†	21935.1	22516.5	537.81 µg/L	537.81 ppb	10:59:43
2	Cu 324.752†	77977.5	76261.7	534.06 µg/L	534.06 ppb	10:59:43
2	Mn 257.610†	155615.9	161104.1	532.65 µg/L	532.65 ppb	10:59:38
2	Mo 202.031†	4887.0	5026.2	538.89 µg/L	538.89 ppb	11:00:04
2	Ni 231.604†	8852.6	8767.1	531.88 µg/L	531.88 ppb	10:59:43
2	P 214.914†	1713.7	1478.1	2628.6 µg/L	2628.6 ppb	11:00:04
2	Pb 220.353†	1847.2	1869.9	532.92 µg/L	532.92 ppb	11:00:04

2	S 181.975 Axial†	318.1	305.2	1051.8 µg/L	1051.8 ppb	11:00:04
2	Sb 206.836†	553.0	543.7	529.48 µg/L	529.48 ppb	11:00:04
2	Se 196.026†	514.8	510.6	532.38 µg/L	532.38 ppb	11:00:04
2	SiO2†	31179.4	29486.0	5725.3 µg/L	5725.3 ppb	10:59:43
2	Si 251.611†	35962.9	36668.7	2676.5 µg/L	2676.5 ppb	10:59:43
2	Sn 189.927†	1210.7	1251.6	538.33 µg/L	538.33 ppb	11:00:04
2	Ti 334.940†	201495.0	208309.5	526.79 µg/L	526.79 ppb	10:59:38
2	Tl 190.801†	440.3	484.4	520.98 µg/L	520.98 ppb	11:00:04
2	U 409.014†	5386.6	5571.1	537.27 µg/L	537.27 ppb	10:59:43
2	V 292.402†	40294.6	41397.6	539.17 µg/L	539.17 ppb	10:59:43
2	Zn 213.857†	21707.4	21826.4	536.82 µg/L	536.82 ppb	10:59:43
3	Sc RADIAL	85386.3	85386.3	99.6 %		10:58:32
3	Al 396.153Radial†	9923.1	10073.6	5273.0 µg/L	5273.0 ppb	10:58:32
3	Ca 317.933Radial†	13252.6	12991.2	5205.7 µg/L	5205.7 ppb	10:58:32
3	Fe 238.204 Radial†	418.3	407.4	5104.1 µg/L	5104.1 ppb	10:58:53
3	K 766.490 Radial†	10246.2	10171.7	5031.9 µg/L	5031.9 ppb	10:58:32
3	Mg 279.077 IEC†	371.7	364.1	5124.1 µg/L	5124.1 ppb	10:58:53
3	Na 589.592 Radial†	20482.5	20412.8	10094 µg/L	10094 ppb	10:58:32
3	Sr 421.552†	82511.1	82760.0	517.59 µg/L	517.59 ppb	10:58:32
3	Sc 361.383	1786576.1	1786576.1	96.983 %		11:00:11
3	Y 371.029	1240288.4	1240288.4	96.868 %		11:00:11
3	Ag 328.068†	55077.5	57304.9	496.10 µg/L	496.10 ppb	11:00:17
3	As 188.979†	278.4	288.8	461.27 µg/L	461.27 ppb	11:00:37
3	B 249.677†	9919.8	9895.7	484.55 µg/L	484.55 ppb	11:00:17
3	Ba 233.527†	19800.9	20436.3	485.02 µg/L	485.02 ppb	11:00:17
3	Be 313.107†	744787.3	769302.4	493.31 µg/L	493.31 ppb	11:00:11
3	Cd 226.502†	17716.2	18433.2	482.31 µg/L	482.31 ppb	11:00:17
3	Co 228.616†	10061.3	10343.8	481.13 µg/L	481.13 ppb	11:00:17
3	Cr 267.716†	19339.9	19851.1	474.15 µg/L	474.15 ppb	11:00:17
3	Cu 324.752†	71540.8	69662.1	487.93 µg/L	487.93 ppb	11:00:17
3	Mn 257.610†	146586.7	151868.5	502.10 µg/L	502.10 ppb	11:00:11
3	Mo 202.031†	4156.0	4274.8	458.36 µg/L	458.36 ppb	11:00:37
3	Ni 231.604†	7995.0	7886.9	478.49 µg/L	478.49 ppb	11:00:17
3	P 214.914†	1520.4	1279.6	2272.3 µg/L	2272.3 ppb	11:00:37
3	Pb 220.353†	1630.6	1647.4	469.49 µg/L	469.49 ppb	11:00:37
3	S 181.975 Axial†	291.3	277.7	957.09 µg/L	957.09 ppb	11:00:37
3	Sb 206.836†	491.5	480.6	467.72 µg/L	467.72 ppb	11:00:37
3	Se 196.026†	459.4	453.7	474.40 µg/L	474.40 ppb	11:00:37
3	SiO2†	29143.0	27401.2	5320.5 µg/L	5320.5 ppb	11:00:17
3	Si 251.611†	33466.3	34111.6	2489.8 µg/L	2489.8 ppb	11:00:17
3	Sn 189.927†	1009.5	1044.6	449.40 µg/L	449.40 ppb	11:00:37
3	Ti 334.940†	188110.6	194605.3	492.11 µg/L	492.11 ppb	11:00:11
3	Tl 190.801†	399.5	442.5	476.08 µg/L	476.08 ppb	11:00:37
3	U 409.014†	4802.7	4971.5	479.34 µg/L	479.34 ppb	11:00:17
3	V 292.402†	36133.7	37126.5	483.26 µg/L	483.26 ppb	11:00:17
3	Zn 213.857†	19743.8	19812.1	487.24 µg/L	487.24 ppb	11:00:17

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1789421.4	97.137 %	0.2296			0.24%
Sc RADIAL	85567.7	99.8 %	0.42			0.42%
Y 371.029	1241747.5	96.982 %	0.2544			0.26%
Ag 328.068†	59370.8	514.08 µg/L	15.907	514.08 ppb	15.907	3.09%
QC value within limits for Ag 328.068 Recovery = 102.82%						
Al 396.153Radial†	10059.8	5264.7 µg/L	9.67	5264.7 ppb	9.67	0.18%
QC value within limits for Al 396.153Radial Recovery = 105.29%						
As 188.979†	319.1	509.79 µg/L	42.020	509.79 ppb	42.020	8.24%
QC value within limits for As 188.979 Recovery = 101.96%						
B 249.677†	10272.2	503.12 µg/L	16.419	503.12 ppb	16.419	3.26%
QC value within limits for B 249.677 Recovery = 100.62%						
Ba 233.527†	21557.0	511.64 µg/L	23.253	511.64 ppb	23.253	4.54%
QC value within limits for Ba 233.527 Recovery = 102.33%						
Be 313.107†	802461.0	514.58 µg/L	18.414	514.58 ppb	18.414	3.58%
QC value within limits for Be 313.107 Recovery = 102.92%						
Ca 317.933Radial†	12957.1	5192.0 µg/L	11.86	5192.0 ppb	11.86	0.23%
QC value within limits for Ca 317.933Radial Recovery = 103.84%						
Cd 226.502†	19497.6	510.20 µg/L	24.396	510.20 ppb	24.396	4.78%
QC value within limits for Cd 226.502 Recovery = 102.04%						
Co 228.616†	11020.9	512.67 µg/L	27.573	512.67 ppb	27.573	5.38%

Cr	267.716†	21546.2	514.64 µg/L	35.182	514.64 ppb	35.182	6.84%
QC value within limits for Cr 267.716 Recovery = 102.93%							
Cu	324.752†	73814.6	516.95 µg/L	25.271	516.95 ppb	25.271	4.89%
QC value within limits for Cu 324.752 Recovery = 103.39%							
Fe	238.204 Radial†	406.8	5097.2 µg/L	11.00	5097.2 ppb	11.00	0.22%
QC value within limits for Fe 238.204 Radial Recovery = 101.94%							
K	766.490 Radial†	10224.8	5058.2 µg/L	24.44	5058.2 ppb	24.44	0.48%
QC value within limits for K 766.490 Radial Recovery = 101.16%							
Mg	279.077 IEC†	362.5	5102.1 µg/L	35.46	5102.1 ppb	35.46	0.70%
QC value within limits for Mg 279.077 IEC Recovery = 102.04%							
Mn	257.610†	157941.3	522.19 µg/L	17.395	522.19 ppb	17.395	3.33%
QC value within limits for Mn 257.610 Recovery = 104.44%							
Mo	202.031†	4791.1	513.70 µg/L	47.988	513.70 ppb	47.988	9.34%
QC value within limits for Mo 202.031 Recovery = 102.74%							
Na	589.592 Radial†	20437.8	10106 µg/L	12.5	10106 ppb	12.5	0.12%
QC value within limits for Na 589.592 Radial Recovery = 101.06%							
Ni	231.604†	8435.6	511.78 µg/L	29.033	511.78 ppb	29.033	5.67%
QC value within limits for Ni 231.604 Recovery = 102.36%							
P	214.914†	1412.6	2511.3 µg/L	206.93	2511.3 ppb	206.93	8.24%
QC value within limits for P 214.914 Recovery = 100.45%							
Pb	220.353†	1800.1	513.04 µg/L	37.758	513.04 ppb	37.758	7.36%
QC value within limits for Pb 220.353 Recovery = 102.61%							
S	181.975 Axial†	293.9	1012.9 µg/L	49.55	1012.9 ppb	49.55	4.89%
QC value within limits for S 181.975 Axial Recovery = 101.29%							
Sb	206.836†	527.3	513.45 µg/L	40.192	513.45 ppb	40.192	7.83%
QC value within limits for Sb 206.836 Recovery = 102.69%							
Se	196.026†	498.3	519.85 µg/L	40.664	519.85 ppb	40.664	7.82%
QC value within limits for Se 196.026 Recovery = 103.97%							
SiO2†		28645.9	5562.2 µg/L	213.54	5562.2 ppb	213.54	3.84%
QC value within limits for SiO2 Recovery = 104.01%							
Si	251.611†	35664.4	2603.2 µg/L	99.56	2603.2 ppb	99.56	3.82%
QC value within limits for Si 251.611 Recovery = 104.13%							
Sn	189.927†	1186.7	510.45 µg/L	52.939	510.45 ppb	52.939	10.37%
QC value within limits for Sn 189.927 Recovery = 102.09%							
Sr	421.552†	82779.5	517.71 µg/L	0.115	517.71 ppb	0.115	0.02%
QC value within limits for Sr 421.552 Recovery = 103.54%							
Ti	334.940†	203738.0	515.22 µg/L	20.015	515.22 ppb	20.015	3.88%
QC value within limits for Ti 334.940 Recovery = 103.04%							
Tl	190.801†	473.9	509.74 µg/L	29.687	509.74 ppb	29.687	5.82%
QC value within limits for Tl 190.801 Recovery = 101.95%							
U	409.014†	5357.9	516.68 µg/L	32.393	516.68 ppb	32.393	6.27%
QC value within limits for U 409.014 Recovery = 103.34%							
V	292.402†	39786.0	518.12 µg/L	30.402	518.12 ppb	30.402	5.87%
QC value within limits for V 292.402 Recovery = 103.62%							
Zn	213.857†	21064.2	518.06 µg/L	26.898	518.06 ppb	26.898	5.19%
QC value within limits for Zn 213.857 Recovery = 103.61%							

All analyte(s) passed QC.

Sequence No.: 21

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 11:00:46

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	84462.5	84462.5	98.5 %		11:01:17
1	Al 396.153Radial†	-93.0	11.8	6.1449 µg/L	6.1449 ppb	11:01:17
1	Ca 317.933Radial†	333.3	17.8	7.1449 µg/L	7.1449 ppb	11:01:37
1	Fe 238.204 Radial†	12.4	-0.2	-2.6382 µg/L	-2.6382 ppb	11:01:37
1	K 766.490 Radial†	175.0	57.4	28.390 µg/L	28.390 ppb	11:01:17
1	Mg 279.077 IEC†	7.2	-1.9	-26.529 µg/L	-26.529 ppb	11:01:37
1	Na 589.592 Radial†	176.6	18.0	8.8872 µg/L	8.8872 ppb	11:01:17
1	Sr 421.552†	137.0	19.2	0.1201 µg/L	0.1201 ppb	11:01:17
1	Sc 361.383	1791341.8	1791341.8	97.241 %		11:02:39
1	Y 371.029	1248070.1	1248070.1	97.476 %		11:02:39
1	Ag 328.068†	-542.0	-43.6	-0.3758 µg/L	-0.3758 ppb	11:02:45
1	As 188.979†	-2.5	-0.9	-1.4611 µg/L	-1.4611 ppb	11:03:06
1	B 249.677†	296.2	-28.1	-1.3801 µg/L	-1.3801 ppb	11:02:45
1	Ba 233.527†	-16.0	3.0	0.0702 µg/L	0.0702 ppb	11:03:06
1	Be 313.107†	-1192.0	117.5	0.0752 µg/L	0.0752 ppb	11:02:45
1	Cd 226.502†	-154.8	6.6	0.1741 µg/L	0.1741 ppb	11:03:06
1	Co 228.616†	27.7	-2.0	-0.0923 µg/L	-0.0923 ppb	11:03:06
1	Cr 267.716†	37.9	-51.6	-1.2320 µg/L	-1.2320 ppb	11:02:45
1	Cu 324.752†	4044.1	54.3	0.3794 µg/L	0.3794 ppb	11:02:45
1	Mn 257.610†	-666.6	35.8	0.1199 µg/L	0.1199 ppb	11:03:06
1	Mo 202.031†	21.7	11.8	1.2661 µg/L	1.2661 ppb	11:03:06
1	Ni 231.604†	350.0	3.2	0.1928 µg/L	0.1928 ppb	11:03:06
1	P 214.914†	277.2	-3.1	-5.6073 µg/L	-5.6073 ppb	11:03:06
1	Pb 220.353†	45.9	13.3	3.7829 µg/L	3.7829 ppb	11:03:06
1	S 181.975 Axial†	18.6	-3.5	-12.225 µg/L	-12.225 ppb	11:03:06
1	Sb 206.836†	27.6	2.1	2.1108 µg/L	2.1108 ppb	11:03:06
1	Se 196.026†	22.5	3.1	3.1980 µg/L	3.1980 ppb	11:03:06
1	SiO2†	2628.5	54.5	10.590 µg/L	10.590 ppb	11:02:45
1	Si 251.611†	453.7	70.7	5.1596 µg/L	5.1596 ppb	11:03:06
1	Sn 189.927†	-3.9	-0.2	-0.1051 µg/L	-0.1051 ppb	11:03:06
1	Ti 334.940†	-452.2	177.1	0.4503 µg/L	0.4503 ppb	11:02:45
1	Tl 190.801†	-37.6	-8.1	-8.5859 µg/L	-8.5859 ppb	11:03:06
1	U 409.014†	-45.5	-27.4	-2.6490 µg/L	-2.6490 ppb	11:02:45
1	V 292.402†	115.7	-12.3	-0.1544 µg/L	-0.1544 ppb	11:02:45
1	Zn 213.857†	633.5	105.5	2.6124 µg/L	2.6124 ppb	11:03:06
2	Sc RADIAL	84746.9	84746.9	98.8 %		11:01:43
2	Al 396.153Radial†	-79.4	25.9	13.534 µg/L	13.534 ppb	11:01:43
2	Ca 317.933Radial†	335.8	19.2	7.6775 µg/L	7.6775 ppb	11:02:03
2	Fe 238.204 Radial†	14.4	1.8	22.477 µg/L	22.477 ppb	11:02:03
2	K 766.490 Radial†	160.4	42.0	20.771 µg/L	20.771 ppb	11:01:43
2	Mg 279.077 IEC†	10.9	1.8	25.049 µg/L	25.049 ppb	11:02:03
2	Na 589.592 Radial†	182.8	23.6	11.676 µg/L	11.676 ppb	11:01:43
2	Sr 421.552†	118.2	-0.3	-0.0018 µg/L	-0.0018 ppb	11:01:43
2	Sc 361.383	1787678.7	1787678.7	97.043 %		11:03:12
2	Y 371.029	1245341.6	1245341.6	97.263 %		11:03:12
2	Ag 328.068†	-446.7	53.5	0.4584 µg/L	0.4584 ppb	11:03:17
2	As 188.979†	-4.2	-2.7	-4.2898 µg/L	-4.2898 ppb	11:03:38
2	B 249.677†	298.8	-24.8	-1.2297 µg/L	-1.2297 ppb	11:03:17
2	Ba 233.527†	-10.0	9.1	0.2150 µg/L	0.2150 ppb	11:03:38
2	Be 313.107†	-1144.3	164.1	0.1052 µg/L	0.1052 ppb	11:03:17
2	Cd 226.502†	-163.3	-2.5	-0.0678 µg/L	-0.0678 ppb	11:03:38
2	Co 228.616†	34.3	4.9	0.2275 µg/L	0.2275 ppb	11:03:38
2	Cr 267.716†	77.6	-10.6	-0.2529 µg/L	-0.2529 ppb	11:03:17
2	Cu 324.752†	4007.7	25.3	0.1810 µg/L	0.1810 ppb	11:03:17
2	Mn 257.610†	-660.2	40.9	0.1349 µg/L	0.1349 ppb	11:03:38
2	Mo 202.031†	21.5	11.7	1.2499 µg/L	1.2499 ppb	11:03:38
2	Ni 231.604†	354.7	8.7	0.5295 µg/L	0.5295 ppb	11:03:38
2	P 214.914†	274.4	-5.3	-9.6756 µg/L	-9.6756 ppb	11:03:38
2	Pb 220.353†	38.4	5.6	1.5932 µg/L	1.5932 ppb	11:03:38

2	S 181.975 Axial†	22.0	-0.0	-0.0567 µg/L	-0.0567 ppb	11:03:38
2	Sb 206.836†	28.9	3.6	3.4814 µg/L	3.4814 ppb	11:03:38
2	Se 196.026†	26.8	7.6	7.7865 µg/L	7.7865 ppb	11:03:38
2	SiO2†	2698.9	132.6	25.755 µg/L	25.755 ppb	11:03:17
2	Si 251.611†	443.3	61.0	4.4512 µg/L	4.4512 ppb	11:03:38
2	Sn 189.927†	3.3	7.1	3.0582 µg/L	3.0582 ppb	11:03:38
2	Ti 334.940†	-552.6	72.7	0.1822 µg/L	0.1822 ppb	11:03:17
2	Tl 190.801†	-31.8	-2.2	-2.2824 µg/L	-2.2824 ppb	11:03:38
2	U 409.014†	13.0	32.8	3.1644 µg/L	3.1644 ppb	11:03:17
2	V 292.402†	88.6	-40.0	-0.5069 µg/L	-0.5069 ppb	11:03:17
2	Zn 213.857†	623.8	96.9	2.3941 µg/L	2.3941 ppb	11:03:38
3	Sc RADIAL	84181.3	84181.3	98.2 %		11:02:09
3	Al 396.153Radial†	-116.1	-12.1	-6.3682 µg/L	-6.3682 ppb	11:02:09
3	Ca 317.933Radial†	339.0	24.7	9.9058 µg/L	9.9058 ppb	11:02:29
3	Fe 238.204 Radial†	13.0	0.5	6.3187 µg/L	6.3187 ppb	11:02:29
3	K 766.490 Radial†	-27.2	-148.0	-73.212 µg/L	-73.212 ppb	11:02:09
3	Mg 279.077 IEC†	5.7	-3.4	-48.166 µg/L	-48.166 ppb	11:02:29
3	Na 589.592 Radial†	164.1	5.9	2.9163 µg/L	2.9163 ppb	11:02:09
3	Sr 421.552†	115.1	-2.7	-0.0167 µg/L	-0.0167 ppb	11:02:09
3	Sc 361.383	1796274.1	1796274.1	97.509 %		11:03:44
3	Y 371.029	1253298.2	1253298.2	97.884 %		11:03:44
3	Ag 328.068†	-501.0	0.0	-0.0017 µg/L	-0.0017 ppb	11:03:49
3	As 188.979†	-1.0	0.7	1.0450 µg/L	1.0450 ppb	11:04:10
3	B 249.677†	261.3	-64.7	-3.1825 µg/L	-3.1825 ppb	11:03:49
3	Ba 233.527†	-8.0	11.2	0.2646 µg/L	0.2646 ppb	11:04:10
3	Be 313.107†	-1123.0	191.7	0.1229 µg/L	0.1229 ppb	11:03:49
3	Cd 226.502†	-160.8	0.9	0.0246 µg/L	0.0246 ppb	11:04:10
3	Co 228.616†	38.7	9.2	0.4282 µg/L	0.4282 ppb	11:04:10
3	Cr 267.716†	62.0	-26.9	-0.6423 µg/L	-0.6423 ppb	11:03:49
3	Cu 324.752†	4059.5	58.7	0.4114 µg/L	0.4114 ppb	11:03:49
3	Mn 257.610†	-646.2	58.6	0.1973 µg/L	0.1973 ppb	11:04:10
3	Mo 202.031†	19.0	9.0	0.9604 µg/L	0.9604 ppb	11:04:10
3	Ni 231.604†	359.9	12.4	0.7513 µg/L	0.7513 ppb	11:04:10
3	P 214.914†	281.0	-0.0	-0.0536 µg/L	-0.0536 ppb	11:04:10
3	Pb 220.353†	45.0	12.3	3.4992 µg/L	3.4992 ppb	11:04:10
3	S 181.975 Axial†	22.7	0.6	2.1283 µg/L	2.1283 ppb	11:04:10
3	Sb 206.836†	23.1	-2.6	-2.4990 µg/L	-2.4990 ppb	11:04:10
3	Se 196.026†	22.9	3.5	3.5832 µg/L	3.5832 ppb	11:04:10
3	SiO2†	2654.7	74.1	14.382 µg/L	14.382 ppb	11:03:49
3	Si 251.611†	452.7	68.4	4.9953 µg/L	4.9953 ppb	11:04:10
3	Sn 189.927†	-3.5	0.1	0.0522 µg/L	0.0522 ppb	11:04:10
3	Ti 334.940†	-499.8	129.6	0.3320 µg/L	0.3320 ppb	11:03:49
3	Tl 190.801†	-35.5	-5.8	-6.2008 µg/L	-6.2008 ppb	11:04:10
3	U 409.014†	-52.8	-34.8	-3.3611 µg/L	-3.3611 ppb	11:03:49
3	V 292.402†	99.3	-29.5	-0.3785 µg/L	-0.3785 ppb	11:03:49
3	Zn 213.857†	617.5	87.3	2.1599 µg/L	2.1599 ppb	11:04:10

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1791764.9	97.264 %	0.2341			0.24%
Sc RADIAL	84463.6	98.5 %	0.33			0.33%
Y 371.029	1248903.3	97.541 %	0.3158			0.32%
Ag 328.068†	3.3	0.0270 µg/L	0.41783	0.0270 ppb	0.41783	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	8.5	4.4367 µg/L	10.06025	4.4367 ppb	10.06025	226.75%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.0	-1.5686 µg/L	2.66905	-1.5686 ppb	2.66905	170.15%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-39.2	-1.9308 µg/L	1.08665	-1.9308 ppb	1.08665	56.28%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	7.8	0.1833 µg/L	0.10097	0.1833 ppb	0.10097	55.10%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	157.8	0.1011 µg/L	0.02409	0.1011 ppb	0.02409	23.83%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	20.6	8.2428 µg/L	1.46465	8.2428 ppb	1.46465	17.77%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	1.7	0.0437 µg/L	0.12209	0.0437 ppb	0.12209	279.67%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	4.0	0.1878 µg/L	0.26248	0.1878 ppb	0.26248	139.76%

Cr	267.716†	-29.7	-0.7091 µg/L	0.49295	-0.7091 ppb	0.49295	69.52%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	46.1	0.3240 µg/L	0.12480	0.3240 ppb	0.12480	38.52%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204 Radial†	0.7	8.7193 µg/L	12.72864	8.7193 ppb	12.72864	145.98%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K	766.490 Radial†	-16.2	-8.0169 µg/L	56.58870	-8.0169 ppb	56.58870	705.87%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg	279.077 IEC†	-1.2	-16.549 µg/L	37.6144	-16.549 ppb	37.6144	227.30%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn	257.610†	45.1	0.1507 µg/L	0.04107	0.1507 ppb	0.04107	27.26%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	10.8	1.1588 µg/L	0.17204	1.1588 ppb	0.17204	14.85%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592 Radial†	15.8	7.8265 µg/L	4.47517	7.8265 ppb	4.47517	57.18%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni	231.604†	8.1	0.4912 µg/L	0.28126	0.4912 ppb	0.28126	57.26%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P	214.914†	-2.8	-5.1122 µg/L	4.83007	-5.1122 ppb	4.83007	94.48%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	10.4	2.9584 µg/L	1.19084	2.9584 ppb	1.19084	40.25%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S	181.975 Axial†	-1.0	-3.3843 µg/L	7.73342	-3.3843 ppb	7.73342	228.51%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb	206.836†	1.0	1.0310 µg/L	3.13300	1.0310 ppb	3.13300	303.87%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	4.7	4.8559 µg/L	2.54528	4.8559 ppb	2.54528	52.42%
QC value within limits for Se 196.026 Recovery = Not calculated							
SiO2†		87.1	16.909 µg/L	7.8919	16.909 ppb	7.8919	46.67%
QC value within limits for SiO2 Recovery = Not calculated							
Si	251.611†	66.7	4.8687 µg/L	0.37080	4.8687 ppb	0.37080	7.62%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn	189.927†	2.3	1.0018 µg/L	1.78267	1.0018 ppb	1.78267	177.95%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	421.552†	5.4	0.0339 µg/L	0.07503	0.0339 ppb	0.07503	221.58%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti	334.940†	126.5	0.3215 µg/L	0.13438	0.3215 ppb	0.13438	41.79%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl	190.801†	-5.3	-5.6897 µg/L	3.18267	-5.6897 ppb	3.18267	55.94%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U	409.014†	-9.8	-0.9486 µg/L	3.57967	-0.9486 ppb	3.57967	377.37%
QC value within limits for U 409.014 Recovery = Not calculated							
V	292.402†	-27.3	-0.3466 µg/L	0.17836	-0.3466 ppb	0.17836	51.46%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	96.5	2.3888 µg/L	0.22629	2.3888 ppb	0.22629	9.47%
QC value within limits for Zn 213.857 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 22

Sample ID: 1202047737|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 318

Date Collected: 3/17/2010 11:04:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047737|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	84042.4	84042.4	98.0 %			11:04:52
1	Al 396.153Radial†	-61.4	43.5	22.822 µg/L		22.822 ppb	11:04:52
1	Ca 317.933Radial†	351.0	37.6	15.055 µg/L		15.055 ppb	11:05:13
1	Fe 238.204 Radial†	19.3	6.9	86.365 µg/L		86.365 ppb	11:05:13
1	K 766.490 Radial†	130.8	13.2	6.5125 µg/L		6.5125 ppb	11:04:52
1	Mg 279.077 IEC†	5.3	-3.8	-53.158 µg/L		-53.158 ppb	11:05:13
1	Na 589.592 Radial†	228.5	71.8	35.515 µg/L		35.515 ppb	11:04:52
1	Sr 421.552†	127.9	10.6	0.0665 µg/L		0.0665 ppb	11:04:52
1	Sc 361.383	1789098.9	1789098.9	97.120 %			11:06:15
1	Y 371.029	1242840.4	1242840.4	97.068 %			11:06:15
1	Ag 328.068†	-546.3	-48.7	-0.4132 µg/L		-0.4132 ppb	11:06:21
1	As 188.979†	-4.3	-2.8	-4.4391 µg/L		-4.4391 ppb	11:06:41
1	B 249.677†	312.1	-11.4	-0.6038 µg/L		-0.6038 ppb	11:06:21
1	Ba 233.527†	-4.3	15.0	0.3550 µg/L		0.3550 ppb	11:06:41
1	Be 313.107†	-1268.1	37.6	0.0239 µg/L		0.0239 ppb	11:06:21
1	Cd 226.502†	-162.6	-1.6	-0.0522 µg/L		-0.0522 ppb	11:06:41
1	Co 228.616†	26.1	-3.7	-0.1713 µg/L		-0.1713 ppb	11:06:41
1	Cr 267.716†	88.3	0.3	0.0079 µg/L		0.0079 ppb	11:06:21
1	Cu 324.752†	4046.0	61.4	0.4457 µg/L		0.4457 ppb	11:06:21
1	Mn 257.610†	-432.4	276.0	0.9213 µg/L		0.9213 ppb	11:06:41
1	Mo 202.031†	13.3	3.2	0.3440 µg/L		0.3440 ppb	11:06:41
1	Ni 231.604†	343.0	-3.6	-0.2159 µg/L		-0.2159 ppb	11:06:41
1	P 214.914†	281.0	1.2	2.2227 µg/L		2.2227 ppb	11:06:41
1	Pb 220.353†	30.9	-2.1	-0.5985 µg/L		-0.5985 ppb	11:06:41
1	S 181.975 Axial†	20.4	-1.6	-5.5024 µg/L		-5.5024 ppb	11:06:41
1	Sb 206.836†	22.7	-2.8	-2.7414 µg/L		-2.7414 ppb	11:06:41
1	Se 196.026†	18.2	-1.2	-0.9186 µg/L		-0.9186 ppb	11:06:41
1	SiO2†	2803.2	237.8	46.181 µg/L		46.181 ppb	11:06:21
1	Si 251.611†	697.7	322.5	23.541 µg/L		23.541 ppb	11:06:41
1	Sn 189.927†	6.6	10.6	4.5404 µg/L		4.5404 ppb	11:06:41
1	Ti 334.940†	-419.5	210.2	0.5363 µg/L		0.5363 ppb	11:06:21
1	Tl 190.801†	-39.4	-10.0	-10.649 µg/L		-10.649 ppb	11:06:41
1	U 409.014†	5.5	25.1	2.4101 µg/L		2.4101 ppb	11:06:21
1	V 292.402†	111.9	-16.1	-0.2133 µg/L		-0.2133 ppb	11:06:21
1	Zn 213.857†	567.0	37.8	0.9359 µg/L		0.9359 ppb	11:06:41
2	Sc RADIAL	83921.1	83921.1	97.8 %			11:05:18
2	Al 396.153Radial†	-78.3	26.1	13.669 µg/L		13.669 ppb	11:05:18
2	Ca 317.933Radial†	351.0	38.1	15.251 µg/L		15.251 ppb	11:05:39
2	Fe 238.204 Radial†	18.5	6.1	76.838 µg/L		76.838 ppb	11:05:39
2	K 766.490 Radial†	184.2	68.0	33.631 µg/L		33.631 ppb	11:05:18
2	Mg 279.077 IEC†	7.4	-1.7	-23.370 µg/L		-23.370 ppb	11:05:39
2	Na 589.592 Radial†	173.7	16.2	8.0251 µg/L		8.0251 ppb	11:05:18
2	Sr 421.552†	116.4	-0.9	-0.0058 µg/L		-0.0058 ppb	11:05:18
2	Sc 361.383	1813465.1	1813465.1	98.442 %			11:06:47
2	Y 371.029	1261032.3	1261032.3	98.489 %			11:06:47
2	Ag 328.068†	-489.9	16.2	0.1426 µg/L		0.1426 ppb	11:06:53
2	As 188.979†	-3.5	-1.8	-2.9783 µg/L		-2.9783 ppb	11:07:13
2	B 249.677†	334.0	6.6	0.2829 µg/L		0.2829 ppb	11:06:53
2	Ba 233.527†	-16.8	2.3	0.0549 µg/L		0.0549 ppb	11:07:13
2	Be 313.107†	-1199.6	124.8	0.0799 µg/L		0.0799 ppb	11:06:53
2	Cd 226.502†	-169.1	-5.9	-0.1631 µg/L		-0.1631 ppb	11:07:13
2	Co 228.616†	26.1	-4.0	-0.1853 µg/L		-0.1853 ppb	11:07:13
2	Cr 267.716†	47.7	-42.1	-1.0058 µg/L		-1.0058 ppb	11:06:53
2	Cu 324.752†	4086.8	47.0	0.3428 µg/L		0.3428 ppb	11:06:53
2	Mn 257.610†	-445.8	268.3	0.8934 µg/L		0.8934 ppb	11:07:13
2	Mo 202.031†	16.7	6.5	0.6982 µg/L		0.6982 ppb	11:07:13
2	Ni 231.604†	359.7	8.6	0.5248 µg/L		0.5248 ppb	11:07:13
2	P 214.914†	285.5	1.9	3.3768 µg/L		3.3768 ppb	11:07:13
2	Pb 220.353†	34.1	0.7	0.2192 µg/L		0.2192 ppb	11:07:13

2	S 181.975 Axial†	24.5	2.2	7.5888 µg/L	7.5888 ppb	11:07:13
2	Sb 206.836†	27.5	1.6	1.6085 µg/L	1.6085 ppb	11:07:13
2	Se 196.026†	29.8	10.3	10.714 µg/L	10.714 ppb	11:07:13
2	SiO2†	2874.3	271.3	52.676 µg/L	52.676 ppb	11:06:53
2	Si 251.611†	691.4	306.5	22.373 µg/L	22.373 ppb	11:07:13
2	Sn 189.927†	3.1	6.8	2.9334 µg/L	2.9334 ppb	11:07:13
2	Ti 334.940†	-501.7	132.6	0.3375 µg/L	0.3375 ppb	11:06:53
2	Tl 190.801†	-31.6	-1.5	-1.5516 µg/L	-1.5516 ppb	11:07:13
2	U 409.014†	-60.2	-41.7	-4.0452 µg/L	-4.0452 ppb	11:06:53
2	V 292.402†	99.0	-30.8	-0.4080 µg/L	-0.4080 ppb	11:06:53
2	Zn 213.857†	551.4	14.2	0.3458 µg/L	0.3458 ppb	11:07:13
3	Sc RADIAL	84129.8	84129.8	98.1 %		11:05:44
3	Al 396.153Radial†	-106.2	-2.1	-1.1110 µg/L	-1.1110 ppb	11:05:44
3	Ca 317.933Radial†	341.5	27.5	11.033 µg/L	11.033 ppb	11:06:05
3	Fe 238.204 Radial†	16.9	4.5	55.854 µg/L	55.854 ppb	11:06:05
3	K 766.490 Radial†	159.1	41.9	20.716 µg/L	20.716 ppb	11:05:44
3	Mg 279.077 IEC†	5.2	-3.9	-54.932 µg/L	-54.932 ppb	11:06:05
3	Na 589.592 Radial†	184.4	26.7	13.192 µg/L	13.192 ppb	11:05:44
3	Sr 421.552†	124.8	7.3	0.0458 µg/L	0.0458 ppb	11:05:44
3	Sc 361.383	1795051.8	1795051.8	97.443 %		11:07:19
3	Y 371.029	1249265.9	1249265.9	97.570 %		11:07:19
3	Ag 328.068†	-560.7	-61.6	-0.5292 µg/L	-0.5292 ppb	11:07:25
3	As 188.979†	-0.4	1.2	1.9683 µg/L	1.9683 ppb	11:07:45
3	B 249.677†	306.0	-18.6	-0.9444 µg/L	-0.9444 ppb	11:07:25
3	Ba 233.527†	-17.3	1.6	0.0378 µg/L	0.0378 ppb	11:07:45
3	Be 313.107†	-1204.6	107.2	0.0685 µg/L	0.0685 ppb	11:07:25
3	Cd 226.502†	-174.9	-13.7	-0.3637 µg/L	-0.3637 ppb	11:07:45
3	Co 228.616†	33.1	3.5	0.1604 µg/L	0.1604 ppb	11:07:45
3	Cr 267.716†	114.7	27.1	0.6477 µg/L	0.6477 ppb	11:07:25
3	Cu 324.752†	4040.5	42.1	0.3046 µg/L	0.3046 ppb	11:07:25
3	Mn 257.610†	-453.2	256.2	0.8540 µg/L	0.8540 ppb	11:07:45
3	Mo 202.031†	8.0	-2.3	-0.2469 µg/L	-0.2469 ppb	11:07:45
3	Ni 231.604†	355.0	7.5	0.4568 µg/L	0.4568 ppb	11:07:45
3	P 214.914†	283.9	3.3	5.8573 µg/L	5.8573 ppb	11:07:45
3	Pb 220.353†	37.3	4.4	1.2377 µg/L	1.2377 ppb	11:07:45
3	S 181.975 Axial†	19.5	-2.7	-9.2021 µg/L	-9.2021 ppb	11:07:45
3	Sb 206.836†	23.9	-1.7	-1.6452 µg/L	-1.6452 ppb	11:07:45
3	Se 196.026†	23.0	3.6	3.8696 µg/L	3.8696 ppb	11:07:45
3	SiO2†	2849.8	276.1	53.613 µg/L	53.613 ppb	11:07:25
3	Si 251.611†	694.3	316.7	23.117 µg/L	23.117 ppb	11:07:45
3	Sn 189.927†	-2.0	1.7	0.7246 µg/L	0.7246 ppb	11:07:45
3	Ti 334.940†	-371.6	260.9	0.6646 µg/L	0.6646 ppb	11:07:25
3	Tl 190.801†	-32.4	-2.7	-2.8166 µg/L	-2.8166 ppb	11:07:45
3	U 409.014†	24.6	44.6	4.3029 µg/L	4.3029 ppb	11:07:25
3	V 292.402†	86.1	-43.0	-0.5577 µg/L	-0.5577 ppb	11:07:25
3	Zn 213.857†	551.3	19.8	0.4891 µg/L	0.4891 ppb	11:07:45

Mean Data: 1202047737|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1799205.3	97.668 %	0.6896			0.71%
Sc RADIAL	84031.1	98.0 %	0.12			0.12%
Y 371.029	1251046.2	97.709 %	0.7205			0.74%
Ag 328.068†	-31.4	-0.2666 µg/L	0.35910	-0.2666 ppb	0.35910	134.70%
Al 396.153Radial†	22.5	11.793 µg/L	12.0762	11.793 ppb	12.0762	102.40%
As 188.979†	-1.1	-1.8164 µg/L	3.35800	-1.8164 ppb	3.35800	184.87%
B 249.677†	-7.8	-0.4218 µg/L	0.63361	-0.4218 ppb	0.63361	150.22%
Ba 233.527†	6.3	0.1492 µg/L	0.17837	0.1492 ppb	0.17837	119.51%
Be 313.107†	89.9	0.0574 µg/L	0.02959	0.0574 ppb	0.02959	51.51%
Ca 317.933Radial†	34.4	13.780 µg/L	2.3805	13.780 ppb	2.3805	17.28%
Cd 226.502†	-7.1	-0.1930 µg/L	0.15788	-0.1930 ppb	0.15788	81.81%
Co 228.616†	-1.4	-0.0654 µg/L	0.19567	-0.0654 ppb	0.19567	299.16%
Cr 267.716†	-4.9	-0.1167 µg/L	0.83375	-0.1167 ppb	0.83375	714.15%
Cu 324.752†	50.2	0.3643 µg/L	0.07300	0.3643 ppb	0.07300	20.04%
Fe 238.204 Radial†	5.8	73.019 µg/L	15.6101	73.019 ppb	15.6101	21.38%
K 766.490 Radial†	41.0	20.286 µg/L	13.5643	20.286 ppb	13.5643	66.86%
Mg 279.077 IEC†	-3.1	-43.820 µg/L	17.7326	-43.820 ppb	17.7326	40.47%
Mn 257.610†	266.8	0.8896 µg/L	0.03378	0.8896 ppb	0.03378	3.80%
Mo 202.031†	2.4	0.2651 µg/L	0.47749	0.2651 ppb	0.47749	180.12%
Na 589.592 Radial†	38.2	18.911 µg/L	14.6102	18.911 ppb	14.6102	77.26%

Ni 231.604†	4.2	0.2552 µg/L	0.40940	0.2552 ppb	0.40940	160.41%
P 214.914†	2.1	3.8190 µg/L	1.85720	3.8190 ppb	1.85720	48.63%
Pb 220.353†	1.0	0.2862 µg/L	0.91992	0.2862 ppb	0.91992	321.48%
S 181.975 Axial†	-0.7	-2.3719 µg/L	8.82234	-2.3719 ppb	8.82234	371.95%
Sb 206.836†	-1.0	-0.9261 µg/L	2.26238	-0.9261 ppb	2.26238	244.30%
Se 196.026†	4.2	4.5551 µg/L	5.84660	4.5551 ppb	5.84660	128.35%
SiO2†	261.7	50.823 µg/L	4.0474	50.823 ppb	4.0474	7.96%
Si 251.611†	315.3	23.011 µg/L	0.5912	23.011 ppb	0.5912	2.57%
Sn 189.927†	6.4	2.7328 µg/L	1.91580	2.7328 ppb	1.91580	70.10%
Sr 421.552†	5.7	0.0355 µg/L	0.03722	0.0355 ppb	0.03722	104.80%
Ti 334.940†	201.2	0.5128 µg/L	0.16478	0.5128 ppb	0.16478	32.13%
Tl 190.801†	-4.7	-5.0057 µg/L	4.92781	-5.0057 ppb	4.92781	98.44%
U 409.014†	9.3	0.8893 µg/L	4.37691	0.8893 ppb	4.37691	492.18%
V 292.402†	-30.0	-0.3930 µg/L	0.17269	-0.3930 ppb	0.17269	43.94%
Zn 213.857†	23.9	0.5903 µg/L	0.30779	0.5903 ppb	0.30779	52.14%

Sequence No.: 23

Sample ID: 1202047742|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 319

Date Collected: 3/17/2010 11:07:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047742|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	88572.5	88572.5	103 %		11:08:26
1	Al 396.153Radial†	188651.2	182784.1	95837 µg/L	95837 ppb	11:08:26
1	Ca 317.933Radial†	269633.5	260775.4	104490 µg/L	104490 ppb	11:08:26
1	Fe 238.204 Radial†	15384.1	14884.2	186140 µg/L	186140 ppb	11:08:46
1	K 766.490 Radial†	85320.7	82498.8	40812 µg/L	40812 ppb	11:08:26
1	Mg 279.077 IEC†	2849.0	2749.6	38484 µg/L	38484 ppb	11:08:46
1	Na 589.592 Radial†	22308.5	21440.8	10602 µg/L	10602 ppb	11:08:26
1	Sr 421.552†	406676.8	393680.2	2462.1 µg/L	2462.1 ppb	11:08:26
1	Sc 361.383	1812938.9	1812938.9	98.414 %		11:09:55
1	Y 371.029	1281291.6	1281291.6	100.07 %		11:09:55
1	Ag 328.068†	35025.2	36103.5	333.51 µg/L	333.51 ppb	11:09:55
1	As 188.979†	714.5	727.7	1131.1 µg/L	1131.1 ppb	11:10:16
1	B 249.677†	34126.2	34343.6	1595.5 µg/L	1595.5 ppb	11:09:55
1	Ba 233.527†	85307.8	86702.2	2056.5 µg/L	2056.5 ppb	11:09:55
1	Be 313.107†	1318015.2	1340602.4	857.77 µg/L	857.77 ppb	11:09:55
1	Cd 226.502†	25075.3	25645.3	651.63 µg/L	651.63 ppb	11:10:16
1	Co 228.616†	22011.7	22336.0	1028.6 µg/L	1028.6 ppb	11:10:16
1	Cr 267.716†	113227.0	114961.4	2745.0 µg/L	2745.0 ppb	11:09:55
1	Cu 324.752†	292351.1	292958.7	2082.9 µg/L	2082.9 ppb	11:09:55
1	Mn 257.610†	1754916.5	1783923.5	5906.9 µg/L	5906.9 ppb	11:09:55
1	Mo 202.031†	5238.6	5312.5	576.46 µg/L	576.46 ppb	11:10:16
1	Ni 231.604†	24782.3	24825.0	1508.9 µg/L	1508.9 ppb	11:10:16
1	P 214.914†	5090.2	4884.1	8530.9 µg/L	8530.9 ppb	11:10:16
1	Pb 220.353†	3161.8	3178.9	913.64 µg/L	913.64 ppb	11:10:16
1	S 181.975 Axial†	1216.6	1213.5	4181.8 µg/L	4181.8 ppb	11:10:16
1	Sb 206.836†	1324.2	1319.3	1255.1 µg/L	1255.1 ppb	11:10:16
1	Se 196.026†	3055.8	3085.0	3697.5 µg/L	3697.5 ppb	11:10:16
1	SiO2†	498783.4	504174.3	97896 µg/L	97896 ppb	11:09:55
1	Si 251.611†	611979.1	621447.1	45360 µg/L	45360 ppb	11:09:55
1	Sn 189.927†	2566.7	2611.8	1131.8 µg/L	1131.8 ppb	11:10:16
1	Ti 334.940†	2264428.8	2301569.0	5822.5 µg/L	5822.5 ppb	11:09:55
1	Tl 190.801†	1172.7	1222.2	1382.9 µg/L	1382.9 ppb	11:10:16
1	U 409.014†	-1257.4	-1258.2	-153.82 µg/L	-153.82 ppb	11:09:55
1	V 292.402†	102835.5	104361.6	1332.5 µg/L	1332.5 ppb	11:09:55
1	Zn 213.857†	255694.8	259270.1	6400.1 µg/L	6400.1 ppb	11:09:55
2	Sc RADIAL	87352.4	87352.4	102 %		11:08:52
2	Al 396.153Radial†	186752.0	183470.8	96197 µg/L	96197 ppb	11:08:52
2	Ca 317.933Radial†	266603.7	261447.4	104760 µg/L	104760 ppb	11:08:52
2	Fe 238.204 Radial†	15420.4	15127.9	189190 µg/L	189190 ppb	11:09:13
2	K 766.490 Radial†	84476.6	82824.0	40973 µg/L	40973 ppb	11:08:52
2	Mg 279.077 IEC†	2862.7	2801.6	39212 µg/L	39212 ppb	11:09:13
2	Na 589.592 Radial†	22128.5	21565.8	10664 µg/L	10664 ppb	11:08:52
2	Sr 421.552†	402431.3	395012.0	2470.4 µg/L	2470.4 ppb	11:08:52
2	Sc 361.383	1808511.8	1808511.8	98.173 %		11:10:26
2	Y 371.029	1280067.2	1280067.2	99.975 %		11:10:26
2	Ag 328.068†	34878.6	36041.3	333.21 µg/L	333.21 ppb	11:10:26
2	As 188.979†	715.8	730.8	1135.6 µg/L	1135.6 ppb	11:10:47
2	B 249.677†	34088.2	34389.8	1596.2 µg/L	1596.2 ppb	11:10:26
2	Ba 233.527†	85164.5	86768.4	2058.1 µg/L	2058.1 ppb	11:10:26
2	Be 313.107†	1315796.3	1341620.5	858.42 µg/L	858.42 ppb	11:10:26
2	Cd 226.502†	24998.7	25629.6	650.87 µg/L	650.87 ppb	11:10:47
2	Co 228.616†	21947.0	22324.9	1028.1 µg/L	1028.1 ppb	11:10:47
2	Cr 267.716†	112857.9	114867.2	2742.8 µg/L	2742.8 ppb	11:10:26
2	Cu 324.752†	291618.4	292939.5	2083.3 µg/L	2083.3 ppb	11:10:26
2	Mn 257.610†	1750962.7	1784261.3	5908.1 µg/L	5908.1 ppb	11:10:26
2	Mo 202.031†	5236.0	5322.9	577.69 µg/L	577.69 ppb	11:10:47
2	Ni 231.604†	24750.0	24853.7	1510.7 µg/L	1510.7 ppb	11:10:47
2	P 214.914†	5085.3	4891.8	8542.5 µg/L	8542.5 ppb	11:10:47
2	Pb 220.353†	3182.6	3207.9	921.98 µg/L	921.98 ppb	11:10:47

2	S 181.975 Axial†	1219.6	1219.7	4203.0 µg/L	4203.0 ppb	11:10:47
2	Sb 206.836†	1323.2	1321.6	1257.4 µg/L	1257.4 ppb	11:10:47
2	Se 196.026†	3061.9	3098.8	3720.7 µg/L	3720.7 ppb	11:10:47
2	SiO2†	497213.3	503815.7	97826 µg/L	97826 ppb	11:10:26
2	Si 251.611†	610495.9	621458.6	45361 µg/L	45361 ppb	11:10:26
2	Sn 189.927†	2553.0	2604.2	1128.6 µg/L	1128.6 ppb	11:10:47
2	Ti 334.940†	2258542.2	2301205.5	5821.5 µg/L	5821.5 ppb	11:10:26
2	Tl 190.801†	1156.7	1208.8	1369.1 µg/L	1369.1 ppb	11:10:47
2	U 409.014†	-1253.9	-1257.9	-154.22 µg/L	-154.22 ppb	11:10:26
2	V 292.402†	102548.1	104324.7	1331.7 µg/L	1331.7 ppb	11:10:26
2	Zn 213.857†	254792.6	258987.1	6392.9 µg/L	6392.9 ppb	11:10:26
3	Sc RADIAL	87785.6	87785.6	102 %		11:09:19
3	Al 396.153Radial†	188560.4	184332.9	96650 µg/L	96650 ppb	11:09:19
3	Ca 317.933Radial†	268378.7	261889.9	104940 µg/L	104940 ppb	11:09:19
3	Fe 238.204 Radial†	15413.8	15046.7	188170 µg/L	188170 ppb	11:09:39
3	K 766.490 Radial†	85033.9	82959.2	41040 µg/L	41040 ppb	11:09:19
3	Mg 279.077 IEC†	2838.9	2764.5	38690 µg/L	38690 ppb	11:09:39
3	Na 589.592 Radial†	22472.8	21795.0	10778 µg/L	10778 ppb	11:09:19
3	Sr 421.552†	406593.7	397129.0	2483.7 µg/L	2483.7 ppb	11:09:19
3	Sc 361.383	1815682.7	1815682.7	98.563 %		11:10:57
3	Y 371.029	1285342.7	1285342.7	100.39 %		11:10:57
3	Ag 328.068†	34711.1	35731.1	330.26 µg/L	330.26 ppb	11:10:57
3	As 188.979†	686.5	698.2	1083.4 µg/L	1083.4 ppb	11:11:17
3	B 249.677†	33736.9	33896.2	1572.3 µg/L	1572.3 ppb	11:10:57
3	Ba 233.527†	83936.6	85180.0	2020.4 µg/L	2020.4 ppb	11:10:57
3	Be 313.107†	1293189.9	1313391.2	840.36 µg/L	840.36 ppb	11:10:57
3	Cd 226.502†	23942.8	24457.8	620.23 µg/L	620.23 ppb	11:11:17
3	Co 228.616†	20800.8	21073.7	970.09 µg/L	970.09 ppb	11:11:17
3	Cr 267.716†	110408.5	111928.0	2672.6 µg/L	2672.6 ppb	11:10:57
3	Cu 324.752†	287156.0	287239.0	2043.3 µg/L	2043.3 ppb	11:10:57
3	Mn 257.610†	1724141.1	1750004.7	5794.9 µg/L	5794.9 ppb	11:10:57
3	Mo 202.031†	4962.4	5024.3	545.65 µg/L	545.65 ppb	11:11:17
3	Ni 231.604†	23457.4	23442.7	1425.0 µg/L	1425.0 ppb	11:11:17
3	P 214.914†	4842.3	4624.8	8062.7 µg/L	8062.7 ppb	11:11:17
3	Pb 220.353†	3042.0	3052.4	877.70 µg/L	877.70 ppb	11:11:17
3	S 181.975 Axial†	1179.2	1173.8	4044.7 µg/L	4044.7 ppb	11:11:17
3	Sb 206.836†	1253.7	1245.7	1184.1 µg/L	1184.1 ppb	11:11:17
3	Se 196.026†	2953.8	2976.9	3593.5 µg/L	3593.5 ppb	11:11:17
3	SiO2†	490827.8	495336.8	96180 µg/L	96180 ppb	11:10:57
3	Si 251.611†	602162.4	610547.6	44564 µg/L	44564 ppb	11:10:57
3	Sn 189.927†	2425.5	2464.5	1068.6 µg/L	1068.6 ppb	11:11:17
3	Ti 334.940†	2214664.4	2247601.9	5685.9 µg/L	5685.9 ppb	11:10:57
3	Tl 190.801†	1126.4	1173.5	1329.9 µg/L	1329.9 ppb	11:11:17
3	U 409.014†	-1213.3	-1211.6	-149.62 µg/L	-149.62 ppb	11:10:57
3	V 292.402†	100608.6	101944.4	1300.7 µg/L	1300.7 ppb	11:10:57
3	Zn 213.857†	251727.8	254852.6	6291.1 µg/L	6291.1 ppb	11:10:57

Mean Data: 1202047742|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1812377.8	98.383 %	0.1964			0.20%
Sc RADIAL	87903.5	102 %	0.7			0.70%
Y 371.029	1282233.8	100.14 %	0.216			0.22%
Ag 328.068†	35958.6	332.33 µg/L	1.796	332.33 ppb	1.796	0.54%
Al 396.153Radial†	183529.2	96228 µg/L	407.3	96228 ppb	407.3	0.42%
As 188.979†	718.9	1116.7 µg/L	28.89	1116.7 ppb	28.89	2.59%
B 249.677†	34209.9	1588.0 µg/L	13.58	1588.0 ppb	13.58	0.85%
Ba 233.527†	86216.9	2045.0 µg/L	21.32	2045.0 ppb	21.32	1.04%
Be 313.107†	1331871.4	852.18 µg/L	10.242	852.18 ppb	10.242	1.20%
Ca 317.933Radial†	261370.9	104730 µg/L	224.9	104730 ppb	224.9	0.21%
Cd 226.502†	25244.2	640.91 µg/L	17.911	640.91 ppb	17.911	2.79%
Co 228.616†	21911.5	1008.9 µg/L	33.65	1008.9 ppb	33.65	3.33%
Cr 267.716†	113918.9	2720.1 µg/L	41.18	2720.1 ppb	41.18	1.51%
Cu 324.752†	291045.7	2069.9 µg/L	22.99	2069.9 ppb	22.99	1.11%
Fe 238.204 Radial†	15019.6	187830 µg/L	1551.9	187830 ppb	1551.9	0.83%
K 766.490 Radial†	82760.7	40942 µg/L	117.1	40942 ppb	117.1	0.29%
Mg 279.077 IEC†	2771.9	38795 µg/L	375.1	38795 ppb	375.1	0.97%
Mn 257.610†	1772729.8	5870.0 µg/L	65.05	5870.0 ppb	65.05	1.11%
Mo 202.031†	5219.9	566.60 µg/L	18.155	566.60 ppb	18.155	3.20%
Na 589.592 Radial†	21600.5	10681 µg/L	88.8	10681 ppb	88.8	0.83%

Ni 231.604†	24373.8	1481.5 µg/L	48.94	1481.5 ppb	48.94	3.30%
P 214.914†	4800.3	8378.7 µg/L	273.75	8378.7 ppb	273.75	3.27%
Pb 220.353†	3146.4	904.44 µg/L	23.529	904.44 ppb	23.529	2.60%
S 181.975 Axial†	1202.3	4143.2 µg/L	85.94	4143.2 ppb	85.94	2.07%
Sb 206.836†	1295.5	1232.2 µg/L	41.67	1232.2 ppb	41.67	3.38%
Se 196.026†	3053.6	3670.6 µg/L	67.73	3670.6 ppb	67.73	1.85%
SiO2†	501108.9	97300 µg/L	971.2	97300 ppb	971.2	1.00%
Si 251.611†	617817.8	45095 µg/L	459.6	45095 ppb	459.6	1.02%
Sn 189.927†	2560.2	1109.7 µg/L	35.62	1109.7 ppb	35.62	3.21%
Sr 421.552†	395273.7	2472.1 µg/L	10.88	2472.1 ppb	10.88	0.44%
Ti 334.940†	2283458.8	5776.7 µg/L	78.57	5776.7 ppb	78.57	1.36%
Tl 190.801†	1201.5	1360.6 µg/L	27.53	1360.6 ppb	27.53	2.02%
U 409.014†	-1242.6	-152.55 µg/L	2.547	-152.55 ppb	2.547	1.67%
V 292.402†	103543.6	1321.7 µg/L	18.13	1321.7 ppb	18.13	1.37%
Zn 213.857†	257703.3	6361.4 µg/L	61.00	6361.4 ppb	61.00	0.96%

Sequence No.: 25

Sample ID: 1202047738|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 321

Date Collected: 3/17/2010 11:15:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047738|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86659.6	86659.6	101 %			11:15:37
1	Al 396.153Radial†	31247.7	31032.4	16273 µg/L		16273 ppb	11:15:37
1	Ca 317.933Radial†	21112.9	20575.0	8244.6 µg/L		8244.6 ppb	11:15:37
1	Fe 238.204 Radial†	4260.5	4203.9	52567 µg/L		52567 ppb	11:15:57
1	K 766.490 Radial†	11431.9	11194.0	5537.7 µg/L		5537.7 ppb	11:15:37
1	Mg 279.077 IEC†	152.5	141.7	1937.4 µg/L		1937.4 ppb	11:15:57
1	Na 589.592 Radial†	10574.9	10304.7	5095.6 µg/L		5095.6 ppb	11:15:37
1	Sr 421.552†	6554.5	6367.1	39.820 µg/L		39.820 ppb	11:15:37
1	Sc 361.383	1835177.7	1835177.7	99.621 %			11:17:02
1	Y 371.029	1341621.0	1341621.0	104.78 %			11:17:02
1	Ag 328.068†	-1006.3	-496.3	-0.0373 µg/L		-0.0373 ppb	11:17:08
1	As 188.979†	5.8	7.5	4.4980 µg/L		4.4980 ppb	11:17:28
1	B 249.677†	611.5	281.1	-13.508 µg/L		-13.508 ppb	11:17:08
1	Ba 233.527†	12461.2	12528.0	296.85 µg/L		296.85 ppb	11:17:08
1	Be 313.107†	3571.4	4928.4	2.7981 µg/L		2.7981 ppb	11:17:08
1	Cd 226.502†	91.5	257.7	0.8401 µg/L		0.8401 ppb	11:17:28
1	Co 228.616†	185.6	155.7	5.2685 µg/L		5.2685 ppb	11:17:28
1	Cr 267.716†	2731.2	2651.1	63.300 µg/L		63.300 ppb	11:17:28
1	Cu 324.752†	4991.7	906.2	16.217 µg/L		16.217 ppb	11:17:08
1	Mn 257.610†	672262.1	675541.0	2236.6 µg/L		2236.6 ppb	11:17:02
1	Mo 202.031†	64.3	54.1	7.7924 µg/L		7.7924 ppb	11:17:28
1	Ni 231.604†	964.0	610.9	37.778 µg/L		37.778 ppb	11:17:28
1	P 214.914†	506.1	219.9	360.06 µg/L		360.06 ppb	11:17:28
1	Pb 220.353†	153.7	120.3	36.530 µg/L		36.530 ppb	11:17:28
1	S 181.975 Axial†	28.7	6.2	21.223 µg/L		21.223 ppb	11:17:28
1	Sb 206.836†	22.2	-3.9	-4.5587 µg/L		-4.5587 ppb	11:17:28
1	Se 196.026†	-21.8	-41.9	122.14 µg/L		122.14 ppb	11:17:28
1	SiO2†	372068.1	370835.2	72005 µg/L		72005 ppb	11:17:02
1	Si 251.611†	455981.8	457320.8	33380 µg/L		33380 ppb	11:17:02
1	Sn 189.927†	13.1	16.9	7.8043 µg/L		7.8043 ppb	11:17:28
1	Ti 334.940†	374833.6	376901.8	953.69 µg/L		953.69 ppb	11:17:02
1	Tl 190.801†	-45.1	-14.7	8.4735 µg/L		8.4735 ppb	11:17:28
1	U 409.014†	-1667.2	-1654.2	-167.64 µg/L		-167.64 ppb	11:17:02
1	V 292.402†	2313.0	2190.4	21.594 µg/L		21.594 ppb	11:17:08
1	Zn 213.857†	11838.4	11337.5	278.00 µg/L		278.00 ppb	11:17:08
2	Sc RADIAL	87508.6	87508.6	102 %			11:16:03
2	Al 396.153Radial†	31614.4	31091.7	16304 µg/L		16304 ppb	11:16:03
2	Ca 317.933Radial†	21351.5	20606.1	8257.0 µg/L		8257.0 ppb	11:16:03
2	Fe 238.204 Radial†	4278.7	4180.8	52278 µg/L		52278 ppb	11:16:23
2	K 766.490 Radial†	11482.5	11133.8	5507.9 µg/L		5507.9 ppb	11:16:03
2	Mg 279.077 IEC†	153.1	140.8	1924.8 µg/L		1924.8 ppb	11:16:23
2	Na 589.592 Radial†	10697.1	10323.0	5104.7 µg/L		5104.7 ppb	11:16:03
2	Sr 421.552†	6683.2	6430.3	40.216 µg/L		40.216 ppb	11:16:03
2	Sc 361.383	1837996.3	1837996.3	99.774 %			11:17:36
2	Y 371.029	1344745.9	1344745.9	105.03 %			11:17:36
2	Ag 328.068†	-940.6	-428.9	0.5168 µg/L		0.5168 ppb	11:17:42
2	As 188.979†	5.8	7.4	4.4795 µg/L		4.4795 ppb	11:18:02
2	B 249.677†	617.6	286.3	-13.106 µg/L		-13.106 ppb	11:17:42
2	Ba 233.527†	12492.3	12540.0	297.14 µg/L		297.14 ppb	11:17:42
2	Be 313.107†	3467.2	4818.4	2.7287 µg/L		2.7287 ppb	11:17:42
2	Cd 226.502†	109.7	275.7	1.3454 µg/L		1.3454 ppb	11:18:02
2	Co 228.616†	179.4	149.3	4.9728 µg/L		4.9728 ppb	11:18:02
2	Cr 267.716†	2718.5	2634.1	62.895 µg/L		62.895 ppb	11:18:02
2	Cu 324.752†	4941.3	848.0	15.756 µg/L		15.756 ppb	11:17:42
2	Mn 257.610†	669781.2	672019.7	2225.0 µg/L		2225.0 ppb	11:17:36
2	Mo 202.031†	72.7	62.4	8.6698 µg/L		8.6698 ppb	11:18:02
2	Ni 231.604†	959.1	604.5	37.384 µg/L		37.384 ppb	11:18:02
2	P 214.914†	511.2	224.2	368.19 µg/L		368.19 ppb	11:18:02
2	Pb 220.353†	155.5	122.0	36.982 µg/L		36.982 ppb	11:18:02

2	S 181.975 Axial†	34.4	11.8	40.622 µg/L	40.622 ppb	11:18:02
2	Sb 206.836†	27.0	0.8	0.0654 µg/L	0.0654 ppb	11:18:02
2	Se 196.026†	-26.8	-46.8	116.25 µg/L	116.25 ppb	11:18:02
2	SiO2†	372062.3	370256.7	71893 µg/L	71893 ppb	11:17:36
2	Si 251.611†	455632.7	456269.0	33303 µg/L	33303 ppb	11:17:36
2	Sn 189.927†	6.4	10.1	4.9077 µg/L	4.9077 ppb	11:18:02
2	Ti 334.940†	374282.6	375772.7	950.83 µg/L	950.83 ppb	11:17:36
2	Tl 190.801†	-42.2	-11.7	11.505 µg/L	11.505 ppb	11:18:02
2	U 409.014†	-1537.9	-1522.0	-154.83 µg/L	-154.83 ppb	11:17:36
2	V 292.402†	2283.0	2156.9	21.217 µg/L	21.217 ppb	11:17:42
2	Zn 213.857†	11896.3	11377.2	279.00 µg/L	279.00 ppb	11:17:42
3	Sc RADIAL	86817.5	86817.5	101 %		11:16:28
3	Al 396.153Radial†	31308.0	31035.6	16274 µg/L	16274 ppb	11:16:28
3	Ca 317.933Radial†	21222.9	20645.7	8272.9 µg/L	8272.9 ppb	11:16:28
3	Fe 238.204 Radial†	4282.9	4218.4	52748 µg/L	52748 ppb	11:16:49
3	K 766.490 Radial†	11377.3	11119.5	5500.8 µg/L	5500.8 ppb	11:16:28
3	Mg 279.077 IEC†	154.8	143.7	1964.8 µg/L	1964.8 ppb	11:16:49
3	Na 589.592 Radial†	10565.7	10276.7	5081.8 µg/L	5081.8 ppb	11:16:28
3	Sr 421.552†	6576.2	6376.8	39.881 µg/L	39.881 ppb	11:16:28
3	Sc 361.383	1833579.4	1833579.4	99.534 %		11:18:10
3	Y 371.029	1339484.5	1339484.5	104.62 %		11:18:10
3	Ag 328.068†	-930.3	-420.9	0.6091 µg/L	0.6091 ppb	11:18:15
3	As 188.979†	8.6	10.4	9.0870 µg/L	9.0870 ppb	11:18:36
3	B 249.677†	586.5	256.6	-14.822 µg/L	-14.822 ppb	11:18:15
3	Ba 233.527†	11904.2	11979.3	283.85 µg/L	283.85 ppb	11:18:15
3	Be 313.107†	3290.8	4649.6	2.6330 µg/L	2.6330 ppb	11:18:15
3	Cd 226.502†	74.3	240.4	0.3663 µg/L	0.3663 ppb	11:18:36
3	Co 228.616†	176.6	147.0	4.9345 µg/L	4.9345 ppb	11:18:36
3	Cr 267.716†	2438.5	2359.4	56.335 µg/L	56.335 ppb	11:18:36
3	Cu 324.752†	4921.7	840.2	15.790 µg/L	15.790 ppb	11:18:15
3	Mn 257.610†	649636.7	653398.0	2163.4 µg/L	2163.4 ppb	11:18:10
3	Mo 202.031†	64.4	54.2	7.8152 µg/L	7.8152 ppb	11:18:36
3	Ni 231.604†	917.5	565.1	34.996 µg/L	34.996 ppb	11:18:36
3	P 214.914†	491.1	205.2	333.35 µg/L	333.35 ppb	11:18:36
3	Pb 220.353†	137.6	104.3	31.967 µg/L	31.967 ppb	11:18:36
3	S 181.975 Axial†	23.4	0.9	3.0156 µg/L	3.0156 ppb	11:18:36
3	Sb 206.836†	23.1	-3.0	-3.5847 µg/L	-3.5847 ppb	11:18:36
3	Se 196.026†	-12.4	-32.5	132.32 µg/L	132.32 ppb	11:18:36
3	SiO2†	362919.4	361969.2	70284 µg/L	70284 ppb	11:18:10
3	Si 251.611†	444206.5	445889.3	32546 µg/L	32546 ppb	11:18:10
3	Sn 189.927†	3.1	6.8	3.4984 µg/L	3.4984 ppb	11:18:36
3	Ti 334.940†	360357.8	362686.3	917.72 µg/L	917.72 ppb	11:18:10
3	Tl 190.801†	-46.7	-16.4	6.0761 µg/L	6.0761 ppb	11:18:36
3	U 409.014†	-1551.5	-1539.4	-156.58 µg/L	-156.58 ppb	11:18:10
3	V 292.402†	2123.2	2001.8	19.135 µg/L	19.135 ppb	11:18:15
3	Zn 213.857†	11367.0	10874.2	266.53 µg/L	266.53 ppb	11:18:15

Mean Data: 1202047738|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1835584.5	99.643 %	0.1214			0.12%
Sc RADIAL	86995.2	101 %	0.5			0.52%
Y 371.029	1341950.5	104.81 %	0.207			0.20%
Ag 328.068†	-448.7	0.3629 µg/L	0.34965	0.3629 ppb	0.34965	96.35%
Al 396.153Radial†	31053.2	16284 µg/L	17.5	16284 ppb	17.5	0.11%
As 188.979†	8.4	6.0215 µg/L	2.65479	6.0215 ppb	2.65479	44.09%
B 249.677†	274.7	-13.812 µg/L	0.8976	-13.812 ppb	0.8976	6.50%
Ba 233.527†	12349.1	292.61 µg/L	7.590	292.61 ppb	7.590	2.59%
Be 313.107†	4798.8	2.7199 µg/L	0.08293	2.7199 ppb	0.08293	3.05%
Ca 317.933Radial†	20608.9	8258.2 µg/L	14.18	8258.2 ppb	14.18	0.17%
Cd 226.502†	257.9	0.8506 µg/L	0.48963	0.8506 ppb	0.48963	57.56%
Co 228.616†	150.7	5.0586 µg/L	0.18278	5.0586 ppb	0.18278	3.61%
Cr 267.716†	2548.2	60.843 µg/L	3.9095	60.843 ppb	3.9095	6.43%
Cu 324.752†	864.8	15.921 µg/L	0.2571	15.921 ppb	0.2571	1.61%
Fe 238.204 Radial†	4201.0	52531 µg/L	236.9	52531 ppb	236.9	0.45%
K 766.490 Radial†	11149.1	5515.4 µg/L	19.57	5515.4 ppb	19.57	0.35%
Mg 279.077 IEC†	142.1	1942.3 µg/L	20.43	1942.3 ppb	20.43	1.05%
Mn 257.610†	666986.2	2208.3 µg/L	39.33	2208.3 ppb	39.33	1.78%
Mo 202.031†	56.9	8.0925 µg/L	0.50009	8.0925 ppb	0.50009	6.18%
Na 589.592 Radial†	10301.4	5094.0 µg/L	11.53	5094.0 ppb	11.53	0.23%

Ni 231.604†	593.5	36.719 µg/L	1.5054	36.719 ppb	1.5054	4.10%
P 214.914†	216.5	353.87 µg/L	18.227	353.87 ppb	18.227	5.15%
Pb 220.353†	115.5	35.160 µg/L	2.7742	35.160 ppb	2.7742	7.89%
S 181.975 Axial†	6.3	21.620 µg/L	18.8066	21.620 ppb	18.8066	86.99%
Sb 206.836†	-2.0	-2.6927 µg/L	2.43773	-2.6927 ppb	2.43773	90.53%
Se 196.026†	-40.4	123.57 µg/L	8.128	123.57 ppb	8.128	6.58%
SiO2†	367687.0	71394 µg/L	963.1	71394 ppb	963.1	1.35%
Si 251.611†	453159.7	33076 µg/L	461.2	33076 ppb	461.2	1.39%
Sn 189.927†	11.3	5.4035 µg/L	2.19533	5.4035 ppb	2.19533	40.63%
Sr 421.552†	6391.4	39.972 µg/L	0.2129	39.972 ppb	0.2129	0.53%
Ti 334.940†	371786.9	940.75 µg/L	19.996	940.75 ppb	19.996	2.13%
Tl 190.801†	-14.2	8.6850 µg/L	2.72083	8.6850 ppb	2.72083	31.33%
U 409.014†	-1571.9	-159.68 µg/L	6.946	-159.68 ppb	6.946	4.35%
V 292.402†	2116.4	20.649 µg/L	1.3241	20.649 ppb	1.3241	6.41%
Zn 213.857†	11196.3	274.51 µg/L	6.929	274.51 ppb	6.929	2.52%

Sequence No.: 26

Sample ID: 1202047740|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 322

Date Collected: 3/17/2010 11:18:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047740|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	88142.7	88142.7	103 %		11:19:16
1	Al 396.153Radial†	57441.8	56000.4	29355 µg/L	29355 ppb	11:19:16
1	Ca 317.933Radial†	35807.5	34522.1	13833 µg/L	13833 ppb	11:19:16
1	Fe 238.204 Radial†	4709.6	4569.9	57154 µg/L	57154 ppb	11:19:36
1	K 766.490 Radial†	28535.2	27646.1	13676 µg/L	13676 ppb	11:19:16
1	Mg 279.077 IEC†	510.3	487.4	6802.2 µg/L	6802.2 ppb	11:19:36
1	Na 589.592 Radial†	30000.7	29031.1	14356 µg/L	14356 ppb	11:19:16
1	Sr 421.552†	89178.0	86655.5	541.95 µg/L	541.95 ppb	11:19:16
1	Sc 361.383	1850672.3	1850672.3	100.46 %		11:20:42
1	Y 371.029	1395629.0	1395629.0	109.00 %		11:20:42
1	Ag 328.068†	57235.5	57486.0	501.96 µg/L	501.96 ppb	11:20:48
1	As 188.979†	329.6	329.7	519.42 µg/L	519.42 ppb	11:21:08
1	B 249.677†	11033.0	10649.6	494.54 µg/L	494.54 ppb	11:20:48
1	Ba 233.527†	32588.2	32457.6	769.90 µg/L	769.90 ppb	11:20:48
1	Be 313.107†	821542.1	819106.7	524.84 µg/L	524.84 ppb	11:20:42
1	Cd 226.502†	19493.9	19570.1	506.22 µg/L	506.22 ppb	11:20:48
1	Co 228.616†	10813.5	10733.2	497.03 µg/L	497.03 ppb	11:21:08
1	Cr 267.716†	22560.6	22366.3	534.22 µg/L	534.22 ppb	11:20:48
1	Cu 324.752†	82849.1	78363.5	558.54 µg/L	558.54 ppb	11:20:48
1	Mn 257.610†	870268.2	866986.6	2869.6 µg/L	2869.6 ppb	11:20:42
1	Mo 202.031†	4843.3	4810.5	517.76 µg/L	517.76 ppb	11:21:08
1	Ni 231.604†	9010.2	8612.0	523.18 µg/L	523.18 ppb	11:21:08
1	P 214.914†	811.2	519.3	853.62 µg/L	853.62 ppb	11:21:08
1	Pb 220.353†	2022.8	1979.6	566.96 µg/L	566.96 ppb	11:21:08
1	S 181.975 Axial†	1575.2	1545.3	5325.0 µg/L	5325.0 ppb	11:21:08
1	Sb 206.836†	544.7	515.9	502.10 µg/L	502.10 ppb	11:21:08
1	Se 196.026†	487.2	465.0	649.28 µg/L	649.28 ppb	11:21:08
1	SiO2†	553858.4	548662.3	106530 µg/L	106530 ppb	11:20:42
1	Si 251.611†	679004.6	675485.6	49304 µg/L	49304 ppb	11:20:42
1	Sn 189.927†	1257.2	1255.2	540.49 µg/L	540.49 ppb	11:21:08
1	Ti 334.940†	630657.9	628399.2	1589.8 µg/L	1589.8 ppb	11:20:42
1	Tl 190.801†	434.2	462.8	523.84 µg/L	523.84 ppb	11:21:08
1	U 409.014†	3338.8	3342.8	314.21 µg/L	314.21 ppb	11:20:48
1	V 292.402†	40928.3	40608.6	521.97 µg/L	521.97 ppb	11:20:48
1	Zn 213.857†	33751.7	33050.5	812.24 µg/L	812.24 ppb	11:20:48
2	Sc RADIAL	88167.8	88167.8	103 %		11:19:42
2	Al 396.153Radial†	57460.3	56002.5	29356 µg/L	29356 ppb	11:19:42
2	Ca 317.933Radial†	35780.0	34485.5	13819 µg/L	13819 ppb	11:19:42
2	Fe 238.204 Radial†	4720.4	4579.1	57270 µg/L	57270 ppb	11:20:02
2	K 766.490 Radial†	28546.2	27648.9	13678 µg/L	13678 ppb	11:19:42
2	Mg 279.077 IEC†	516.5	493.2	6884.2 µg/L	6884.2 ppb	11:20:02
2	Na 589.592 Radial†	30132.5	29151.0	14415 µg/L	14415 ppb	11:19:42
2	Sr 421.552†	89250.7	86701.5	542.24 µg/L	542.24 ppb	11:19:42
2	Sc 361.383	1835131.0	1835131.0	99.618 %		11:21:16
2	Y 371.029	1382211.8	1382211.8	107.95 %		11:21:16
2	Ag 328.068†	57402.3	58136.0	507.58 µg/L	507.58 ppb	11:21:22
2	As 188.979†	337.2	340.1	536.10 µg/L	536.10 ppb	11:21:42
2	B 249.677†	11016.0	10725.5	498.22 µg/L	498.22 ppb	11:21:22
2	Ba 233.527†	32536.8	32680.8	775.20 µg/L	775.20 ppb	11:21:22
2	Be 313.107†	817306.2	821780.0	526.56 µg/L	526.56 ppb	11:21:16
2	Cd 226.502†	19480.8	19721.2	510.17 µg/L	510.17 ppb	11:21:22
2	Co 228.616†	10759.8	10770.5	498.76 µg/L	498.76 ppb	11:21:42
2	Cr 267.716†	22594.7	22590.8	539.58 µg/L	539.58 ppb	11:21:22
2	Cu 324.752†	82744.9	78957.3	562.71 µg/L	562.71 ppb	11:21:22
2	Mn 257.610†	868238.3	872285.1	2887.1 µg/L	2887.1 ppb	11:21:16
2	Mo 202.031†	4816.7	4824.6	519.27 µg/L	519.27 ppb	11:21:42
2	Ni 231.604†	8956.1	8633.6	524.49 µg/L	524.49 ppb	11:21:42
2	P 214.914†	813.3	528.3	869.41 µg/L	869.41 ppb	11:21:42
2	Pb 220.353†	2013.2	1987.0	569.07 µg/L	569.07 ppb	11:21:42

2	S 181.975 Axial†	1568.6	1551.9	5347.9 µg/L	5347.9 ppb	11:21:42
2	Sb 206.836†	543.2	519.0	505.07 µg/L	505.07 ppb	11:21:42
2	Se 196.026†	496.6	478.5	663.38 µg/L	663.38 ppb	11:21:42
2	SiO2†	550561.4	550021.7	106800 µg/L	106800 ppb	11:21:16
2	Si 251.611†	675149.8	677339.9	49439 µg/L	49439 ppb	11:21:16
2	Sn 189.927†	1243.7	1252.2	539.19 µg/L	539.19 ppb	11:21:42
2	Ti 334.940†	627419.9	630465.2	1595.0 µg/L	1595.0 ppb	11:21:16
2	Tl 190.801†	430.2	462.5	523.62 µg/L	523.62 ppb	11:21:42
2	U 409.014†	3301.8	3333.9	313.33 µg/L	313.33 ppb	11:21:22
2	V 292.402†	40895.3	40920.6	526.01 µg/L	526.01 ppb	11:21:22
2	Zn 213.857†	33684.5	33267.6	817.59 µg/L	817.59 ppb	11:21:22
3	Sc RADIAL	87994.9	87994.9	103 %		11:20:08
3	Al 396.153Radial†	57436.2	56088.8	29402 µg/L	29402 ppb	11:20:08
3	Ca 317.933Radial†	35711.3	34486.9	13819 µg/L	13819 ppb	11:20:08
3	Fe 238.204 Radial†	4717.1	4585.0	57342 µg/L	57342 ppb	11:20:28
3	K 766.490 Radial†	28499.1	27657.6	13682 µg/L	13682 ppb	11:20:08
3	Mg 279.077 IEC†	506.6	484.5	6761.8 µg/L	6761.8 ppb	11:20:28
3	Na 589.592 Radial†	30059.2	29137.1	14408 µg/L	14408 ppb	11:20:08
3	Sr 421.552†	89097.2	86722.5	542.37 µg/L	542.37 ppb	11:20:08
3	Sc 361.383	1847039.5	1847039.5	100.26 %		11:21:50
3	Y 371.029	1388625.2	1388625.2	108.45 %		11:21:50
3	Ag 328.068†	56444.2	56808.9	496.01 µg/L	496.01 ppb	11:21:55
3	As 188.979†	309.9	310.7	488.96 µg/L	488.96 ppb	11:22:16
3	B 249.677†	10914.1	10552.6	489.63 µg/L	489.63 ppb	11:21:55
3	Ba 233.527†	31450.4	31386.7	744.49 µg/L	744.49 ppb	11:21:55
3	Be 313.107†	798220.4	797454.9	510.97 µg/L	510.97 ppb	11:21:50
3	Cd 226.502†	18948.8	19064.5	492.93 µg/L	492.93 ppb	11:21:55
3	Co 228.616†	9955.0	9898.1	458.20 µg/L	458.20 ppb	11:22:16
3	Cr 267.716†	21494.2	21346.8	509.87 µg/L	509.87 ppb	11:21:55
3	Cu 324.752†	79949.6	75633.8	539.49 µg/L	539.49 ppb	11:21:55
3	Mn 257.610†	849298.8	847776.2	2806.1 µg/L	2806.1 ppb	11:21:50
3	Mo 202.031†	4466.5	4444.1	478.50 µg/L	478.50 ppb	11:22:16
3	Ni 231.604†	8308.4	7929.7	481.79 µg/L	481.79 ppb	11:22:16
3	P 214.914†	781.9	491.7	804.78 µg/L	804.78 ppb	11:22:16
3	Pb 220.353†	1918.9	1879.9	538.52 µg/L	538.52 ppb	11:22:16
3	S 181.975 Axial†	1495.7	1469.1	5062.4 µg/L	5062.4 ppb	11:22:16
3	Sb 206.836†	506.5	478.9	465.91 µg/L	465.91 ppb	11:22:16
3	Se 196.026†	461.5	440.3	624.74 µg/L	624.74 ppb	11:22:16
3	SiO2†	542755.7	538673.3	104590 µg/L	104590 ppb	11:21:50
3	Si 251.611†	665149.5	662996.4	48392 µg/L	48392 ppb	11:21:50
3	Sn 189.927†	1156.8	1157.4	498.48 µg/L	498.48 ppb	11:22:16
3	Ti 334.940†	610722.7	609751.5	1542.6 µg/L	1542.6 ppb	11:21:50
3	Tl 190.801†	414.9	444.4	503.78 µg/L	503.78 ppb	11:22:16
3	U 409.014†	3266.1	3276.9	307.81 µg/L	307.81 ppb	11:21:55
3	V 292.402†	39179.6	38944.8	500.13 µg/L	500.13 ppb	11:21:55
3	Zn 213.857†	32713.2	32080.8	788.43 µg/L	788.43 ppb	11:21:55

Mean Data: 1202047740|955145|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	1844280.9	100.12 %		0.441			0.44%
Sc RADIAL	88101.8	103 %		0.1			0.11%
Y 371.029	1388822.0	108.47 %		0.524			0.48%
Ag 328.068†	57477.0	501.85 µg/L		5.785	501.85 ppb	5.785	1.15%
Al 396.153Radial†	56030.6	29371 µg/L		26.9	29371 ppb	26.9	0.09%
As 188.979†	326.9	514.83 µg/L		23.906	514.83 ppb	23.906	4.64%
B 249.677†	10642.6	494.13 µg/L		4.307	494.13 ppb	4.307	0.87%
Ba 233.527†	32175.0	763.20 µg/L		16.414	763.20 ppb	16.414	2.15%
Be 313.107†	812780.5	520.79 µg/L		8.546	520.79 ppb	8.546	1.64%
Ca 317.933Radial†	34498.2	13824 µg/L		8.3	13824 ppb	8.3	0.06%
Cd 226.502†	19451.9	503.11 µg/L		9.031	503.11 ppb	9.031	1.80%
Co 228.616†	10467.3	484.66 µg/L		22.933	484.66 ppb	22.933	4.73%
Cr 267.716†	22101.3	527.89 µg/L		15.833	527.89 ppb	15.833	3.00%
Cu 324.752†	77651.5	553.58 µg/L		12.378	553.58 ppb	12.378	2.24%
Fe 238.204 Radial†	4578.0	57255 µg/L		94.7	57255 ppb	94.7	0.17%
K 766.490 Radial†	27650.9	13679 µg/L		3.0	13679 ppb	3.0	0.02%
Mg 279.077 IEC†	488.4	6816.1 µg/L		62.38	6816.1 ppb	62.38	0.92%
Mn 257.610†	862349.3	2854.3 µg/L		42.63	2854.3 ppb	42.63	1.49%
Mo 202.031†	4693.1	505.18 µg/L		23.117	505.18 ppb	23.117	4.58%
Na 589.592 Radial†	29106.4	14393 µg/L		32.4	14393 ppb	32.4	0.23%

Ni 231.604†	8391.8	509.82 µg/L	24.283	509.82 ppb	24.283	4.76%
P 214.914†	513.1	842.60 µg/L	33.694	842.60 ppb	33.694	4.00%
Pb 220.353†	1948.8	558.18 µg/L	17.064	558.18 ppb	17.064	3.06%
S 181.975 Axial†	1522.1	5245.1 µg/L	158.65	5245.1 ppb	158.65	3.02%
Sb 206.836†	504.6	491.03 µg/L	21.801	491.03 ppb	21.801	4.44%
Se 196.026†	461.3	645.80 µg/L	19.556	645.80 ppb	19.556	3.03%
SiO2†	545785.8	105980 µg/L	1203.3	105980 ppb	1203.3	1.14%
Si 251.611†	671940.6	49045 µg/L	569.4	49045 ppb	569.4	1.16%
Sn 189.927†	1221.6	526.06 µg/L	23.887	526.06 ppb	23.887	4.54%
Sr 421.552†	86693.2	542.18 µg/L	0.214	542.18 ppb	0.214	0.04%
Ti 334.940†	622872.0	1575.8 µg/L	28.87	1575.8 ppb	28.87	1.83%
Tl 190.801†	456.6	517.08 µg/L	11.521	517.08 ppb	11.521	2.23%
U 409.014†	3317.9	311.78 µg/L	3.468	311.78 ppb	3.468	1.11%
V 292.402†	40158.0	516.04 µg/L	13.923	516.04 ppb	13.923	2.70%
Zn 213.857†	32799.6	806.09 µg/L	15.524	806.09 ppb	15.524	1.93%

Sequence No.: 27

Sample ID: 1202047741|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 323

Date Collected: 3/17/2010 11:22:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047741|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87424.5	87424.5	102 %		11:22:56
1	Al 396.153Radial†	56673.7	55706.0	29201 µg/L	29201 ppb	11:22:56
1	Ca 317.933Radial†	36901.4	35881.5	14378 µg/L	14378 ppb	11:22:56
1	Fe 238.204 Radial†	5029.1	4921.0	61545 µg/L	61545 ppb	11:23:16
1	K 766.490 Radial†	27422.7	26782.8	13249 µg/L	13249 ppb	11:22:56
1	Mg 279.077 IEC†	520.5	501.4	6994.7 µg/L	6994.7 ppb	11:23:16
1	Na 589.592 Radial†	28364.8	27666.0	13681 µg/L	13681 ppb	11:22:56
1	Sr 421.552†	87085.0	85315.0	533.56 µg/L	533.56 ppb	11:22:56
1	Sc 361.383	1849189.5	1849189.5	100.38 %		11:24:22
1	Y 371.029	1394807.6	1394807.6	108.94 %		11:24:22
1	Ag 328.068†	56369.7	56669.2	495.28 µg/L	495.28 ppb	11:24:28
1	As 188.979†	335.4	335.8	528.57 µg/L	528.57 ppb	11:24:48
1	B 249.677†	10951.5	10577.2	488.67 µg/L	488.67 ppb	11:24:28
1	Ba 233.527†	35531.7	35416.0	839.99 µg/L	839.99 ppb	11:24:28
1	Be 313.107†	807226.5	805501.3	516.09 µg/L	516.09 ppb	11:24:22
1	Cd 226.502†	19309.2	19401.6	501.32 µg/L	501.32 ppb	11:24:28
1	Co 228.616†	10682.9	10611.8	491.21 µg/L	491.21 ppb	11:24:48
1	Cr 267.716†	22210.4	22035.5	526.32 µg/L	526.32 ppb	11:24:28
1	Cu 324.752†	81899.6	77483.8	553.22 µg/L	553.22 ppb	11:24:28
1	Mn 257.610†	918113.0	915344.1	3029.7 µg/L	3029.7 ppb	11:24:22
1	Mo 202.031†	4787.5	4758.8	512.38 µg/L	512.38 ppb	11:24:48
1	Ni 231.604†	8936.0	8545.2	519.19 µg/L	519.19 ppb	11:24:48
1	P 214.914†	882.2	590.7	979.88 µg/L	979.88 ppb	11:24:48
1	Pb 220.353†	2010.8	1969.2	564.07 µg/L	564.07 ppb	11:24:48
1	S 181.975 Axial†	1562.0	1533.4	5284.0 µg/L	5284.0 ppb	11:24:48
1	Sb 206.836†	531.7	503.4	489.96 µg/L	489.96 ppb	11:24:48
1	Se 196.026†	478.1	456.3	654.18 µg/L	654.18 ppb	11:24:48
1	SiO2†	540108.6	535406.9	103960 µg/L	103960 ppb	11:24:22
1	Si 251.611†	661860.0	658948.2	48097 µg/L	48097 ppb	11:24:22
1	Sn 189.927†	1233.8	1232.8	530.92 µg/L	530.92 ppb	11:24:48
1	Ti 334.940†	661399.6	659527.5	1668.5 µg/L	1668.5 ppb	11:24:22
1	Tl 190.801†	431.9	460.9	523.67 µg/L	523.67 ppb	11:24:48
1	U 409.014†	3244.8	3251.9	304.78 µg/L	304.78 ppb	11:24:28
1	V 292.402†	40970.2	40683.1	522.31 µg/L	522.31 ppb	11:24:28
1	Zn 213.857†	34185.9	33510.0	823.43 µg/L	823.43 ppb	11:24:28
2	Sc RADIAL	87482.2	87482.2	102 %		11:23:22
2	Al 396.153Radial†	56947.6	55937.8	29322 µg/L	29322 ppb	11:23:22
2	Ca 317.933Radial†	36923.8	35879.6	14377 µg/L	14377 ppb	11:23:22
2	Fe 238.204 Radial†	5057.8	4945.9	61856 µg/L	61856 ppb	11:23:42
2	K 766.490 Radial†	27542.8	26882.8	13299 µg/L	13299 ppb	11:23:22
2	Mg 279.077 IEC†	520.5	501.1	6989.9 µg/L	6989.9 ppb	11:23:42
2	Na 589.592 Radial†	28469.1	27749.9	13722 µg/L	13722 ppb	11:23:22
2	Sr 421.552†	87520.9	85686.1	535.88 µg/L	535.88 ppb	11:23:22
2	Sc 361.383	1858507.8	1858507.8	100.89 %		11:24:56
2	Y 371.029	1405699.6	1405699.6	109.79 %		11:24:56
2	Ag 328.068†	56956.1	56968.9	497.90 µg/L	497.90 ppb	11:25:01
2	As 188.979†	332.2	331.0	520.75 µg/L	520.75 ppb	11:25:22
2	B 249.677†	11043.5	10613.7	490.32 µg/L	490.32 ppb	11:25:01
2	Ba 233.527†	35885.3	35589.1	844.10 µg/L	844.10 ppb	11:25:01
2	Be 313.107†	809011.7	803238.7	514.64 µg/L	514.64 ppb	11:24:56
2	Cd 226.502†	19545.7	19539.6	504.88 µg/L	504.88 ppb	11:25:01
2	Co 228.616†	10627.4	10503.4	486.17 µg/L	486.17 ppb	11:25:22
2	Cr 267.716†	22554.3	22265.3	531.81 µg/L	531.81 ppb	11:25:01
2	Cu 324.752†	82523.4	77693.0	554.74 µg/L	554.74 ppb	11:25:01
2	Mn 257.610†	919970.9	912599.8	3020.7 µg/L	3020.7 ppb	11:24:56
2	Mo 202.031†	4762.6	4710.2	507.18 µg/L	507.18 ppb	11:25:22
2	Ni 231.604†	8855.9	8421.2	511.67 µg/L	511.67 ppb	11:25:22
2	P 214.914†	870.1	574.3	949.79 µg/L	949.79 ppb	11:25:22
2	Pb 220.353†	2001.6	1950.0	558.62 µg/L	558.62 ppb	11:25:22

2	S 181.975 Axial†	1560.9	1524.5	5253.5 µg/L	5253.5 ppb	11:25:22
2	Sb 206.836†	526.2	495.3	481.95 µg/L	481.95 ppb	11:25:22
2	Se 196.026†	469.8	445.7	644.37 µg/L	644.37 ppb	11:25:22
2	SiO2†	540662.5	533258.2	103540 µg/L	103540 ppb	11:24:56
2	Si 251.611†	662603.5	656379.2	47909 µg/L	47909 ppb	11:24:56
2	Sn 189.927†	1226.3	1219.3	525.09 µg/L	525.09 ppb	11:25:22
2	Ti 334.940†	662409.2	657224.6	1662.7 µg/L	1662.7 ppb	11:24:56
2	Tl 190.801†	429.2	456.0	518.42 µg/L	518.42 ppb	11:25:22
2	U 409.014†	3238.7	3229.6	302.59 µg/L	302.59 ppb	11:25:01
2	V 292.402†	41454.9	40958.9	525.80 µg/L	525.80 ppb	11:25:01
2	Zn 213.857†	34503.3	33653.8	827.01 µg/L	827.01 ppb	11:25:01
3	Sc RADIAL	88690.1	88690.1	103 %		11:23:48
3	Al 396.153Radial†	57278.5	55497.6	29092 µg/L	29092 ppb	11:23:48
3	Ca 317.933Radial†	37372.1	35820.2	14353 µg/L	14353 ppb	11:23:48
3	Fe 238.204 Radial†	5048.5	4869.4	60898 µg/L	60898 ppb	11:24:08
3	K 766.490 Radial†	27820.9	26784.0	13250 µg/L	13250 ppb	11:23:48
3	Mg 279.077 IEC†	524.1	497.7	6942.4 µg/L	6942.4 ppb	11:24:08
3	Na 589.592 Radial†	28825.7	27714.7	13705 µg/L	13705 ppb	11:23:48
3	Sr 421.552†	88326.8	85296.8	533.45 µg/L	533.45 ppb	11:23:48
3	Sc 361.383	1854971.8	1854971.8	100.70 %		11:25:29
3	Y 371.029	1397053.8	1397053.8	109.11 %		11:25:29
3	Ag 328.068†	55223.1	55355.5	483.75 µg/L	483.75 ppb	11:25:35
3	As 188.979†	301.5	301.0	472.95 µg/L	472.95 ppb	11:25:56
3	B 249.677†	10622.5	10216.5	471.23 µg/L	471.23 ppb	11:25:35
3	Ba 233.527†	34097.8	33881.7	803.59 µg/L	803.59 ppb	11:25:35
3	Be 313.107†	783265.3	779198.7	499.24 µg/L	499.24 ppb	11:25:29
3	Cd 226.502†	18608.0	18645.3	481.55 µg/L	481.55 ppb	11:25:35
3	Co 228.616†	9757.1	9659.2	446.93 µg/L	446.93 ppb	11:25:56
3	Cr 267.716†	20979.5	20744.1	495.48 µg/L	495.48 ppb	11:25:35
3	Cu 324.752†	78378.2	73732.3	526.87 µg/L	526.87 ppb	11:25:35
3	Mn 257.610†	892658.0	887213.8	2936.7 µg/L	2936.7 ppb	11:25:29
3	Mo 202.031†	4386.8	4345.9	468.11 µg/L	468.11 ppb	11:25:56
3	Ni 231.604†	8166.2	7753.0	471.12 µg/L	471.12 ppb	11:25:56
3	P 214.914†	822.7	528.9	870.45 µg/L	870.45 ppb	11:25:56
3	Pb 220.353†	1885.7	1838.7	526.85 µg/L	526.85 ppb	11:25:56
3	S 181.975 Axial†	1471.2	1438.4	4956.5 µg/L	4956.5 ppb	11:25:56
3	Sb 206.836†	499.8	470.1	457.36 µg/L	457.36 ppb	11:25:56
3	Se 196.026†	456.2	433.1	628.48 µg/L	628.48 ppb	11:25:56
3	SiO2†	529053.2	522750.6	101500 µg/L	101500 ppb	11:25:29
3	Si 251.611†	648321.1	643447.4	46966 µg/L	46966 ppb	11:25:29
3	Sn 189.927†	1127.1	1123.1	483.75 µg/L	483.75 ppb	11:25:56
3	Ti 334.940†	640138.5	636359.3	1609.9 µg/L	1609.9 ppb	11:25:29
3	Tl 190.801†	403.0	430.8	490.84 µg/L	490.84 ppb	11:25:56
3	U 409.014†	3019.4	3017.9	282.27 µg/L	282.27 ppb	11:25:35
3	V 292.402†	38862.8	38463.0	493.33 µg/L	493.33 ppb	11:25:35
3	Zn 213.857†	32866.6	32093.6	788.64 µg/L	788.64 ppb	11:25:35

Mean Data: 1202047741|955145|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	1854223.0	100.65 %	0.255			0.25%
Sc RADIAL	87865.6	102 %	0.8			0.81%
Y 371.029	1399187.0	109.28 %	0.449			0.41%
Ag 328.068†	56331.2	492.31 µg/L	7.530	492.31 ppb	7.530	1.53%
Al 396.153Radial†	55713.8	29205 µg/L	115.1	29205 ppb	115.1	0.39%
As 188.979†	322.6	507.42 µg/L	30.113	507.42 ppb	30.113	5.93%
B 249.677†	10469.1	483.41 µg/L	10.577	483.41 ppb	10.577	2.19%
Ba 233.527†	34962.3	829.23 µg/L	22.296	829.23 ppb	22.296	2.69%
Be 313.107†	795979.6	509.99 µg/L	9.338	509.99 ppb	9.338	1.83%
Ca 317.933Radial†	35860.4	14370 µg/L	14.0	14370 ppb	14.0	0.10%
Cd 226.502†	19195.5	495.92 µg/L	12.571	495.92 ppb	12.571	2.53%
Co 228.616†	10258.1	474.77 µg/L	24.242	474.77 ppb	24.242	5.11%
Cr 267.716†	21681.6	517.87 µg/L	19.585	517.87 ppb	19.585	3.78%
Cu 324.752†	76303.0	544.94 µg/L	15.668	544.94 ppb	15.668	2.88%
Fe 238.204 Radial†	4912.1	61433 µg/L	488.5	61433 ppb	488.5	0.80%
K 766.490 Radial†	26816.6	13266 µg/L	28.4	13266 ppb	28.4	0.21%
Mg 279.077 IEC†	500.0	6975.7 µg/L	28.93	6975.7 ppb	28.93	0.41%
Mn 257.610†	905052.6	2995.7 µg/L	51.31	2995.7 ppb	51.31	1.71%
Mo 202.031†	4605.0	495.89 µg/L	24.200	495.89 ppb	24.200	4.88%
Na 589.592 Radial†	27710.2	13703 µg/L	20.8	13703 ppb	20.8	0.15%

Ni 231.604†	8239.8	500.66 µg/L	25.856	500.66 ppb	25.856	5.16%
P 214.914†	564.6	933.37 µg/L	56.534	933.37 ppb	56.534	6.06%
Pb 220.353†	1919.3	549.85 µg/L	20.102	549.85 ppb	20.102	3.66%
S 181.975 Axial†	1498.8	5164.7 µg/L	180.91	5164.7 ppb	180.91	3.50%
Sb 206.836†	489.6	476.43 µg/L	16.988	476.43 ppb	16.988	3.57%
Se 196.026†	445.0	642.35 µg/L	12.971	642.35 ppb	12.971	2.02%
SiO2†	530471.9	103000 µg/L	1315.0	103000 ppb	1315.0	1.28%
Si 251.611†	652924.9	47657 µg/L	606.4	47657 ppb	606.4	1.27%
Sn 189.927†	1191.7	513.25 µg/L	25.718	513.25 ppb	25.718	5.01%
Sr 421.552†	85432.6	534.30 µg/L	1.374	534.30 ppb	1.374	0.26%
Ti 334.940†	651037.2	1647.1 µg/L	32.29	1647.1 ppb	32.29	1.96%
Tl 190.801†	449.2	510.98 µg/L	17.639	510.98 ppb	17.639	3.45%
U 409.014†	3166.5	296.54 µg/L	12.414	296.54 ppb	12.414	4.19%
V 292.402†	40035.0	513.81 µg/L	17.826	513.81 ppb	17.826	3.47%
Zn 213.857†	33085.8	813.02 µg/L	21.194	813.02 ppb	21.194	2.61%

Sequence No.: 28

Sample ID: 1202047739|955145|5

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 324

Date Collected: 3/17/2010 11:26:06

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047739|955145|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87636.8	87636.8	102 %		11:26:36
1	Al 396.153Radial†	5108.0	5105.2	2677.0 µg/L	2677.0 ppb	11:26:36
1	Ca 317.933Radial†	4361.0	3947.3	1581.7 µg/L	1581.7 ppb	11:26:36
1	Fe 238.204 Radial†	772.9	743.7	9299.1 µg/L	9299.1 ppb	11:26:56
1	K 766.490 Radial†	2260.6	2092.1	1035.0 µg/L	1035.0 ppb	11:26:36
1	Mg 279.077 IEC†	30.3	20.4	277.23 µg/L	277.23 ppb	11:26:56
1	Na 589.592 Radial†	2408.2	2195.5	1085.7 µg/L	1085.7 ppb	11:26:36
1	Sr 421.552†	1241.3	1094.9	6.8476 µg/L	6.8476 ppb	11:26:36
1	Sc 361.383	1881246.0	1881246.0	102.12 %		11:27:58
1	Y 371.029	1317691.1	1317691.1	102.91 %		11:27:58
1	Ag 328.068†	-609.4	-83.0	0.0251 µg/L	0.0251 ppb	11:28:04
1	As 188.979†	0.2	1.9	1.7138 µg/L	1.7138 ppb	11:28:25
1	B 249.677†	372.3	31.9	-3.2805 µg/L	-3.2805 ppb	11:28:04
1	Ba 233.527†	2258.5	2230.9	52.860 µg/L	52.860 ppb	11:28:25
1	Be 313.107†	-319.0	1031.0	0.6043 µg/L	0.6043 ppb	11:28:04
1	Cd 226.502†	-117.7	50.6	0.2744 µg/L	0.2744 ppb	11:28:25
1	Co 228.616†	53.3	21.6	0.6974 µg/L	0.6974 ppb	11:28:25
1	Cr 267.716†	151.6	57.9	1.3840 µg/L	1.3840 ppb	11:28:04
1	Cu 324.752†	4132.9	-57.5	1.3466 µg/L	1.3466 ppb	11:28:04
1	Mn 257.610†	135291.7	133202.0	440.96 µg/L	440.96 ppb	11:28:04
1	Mo 202.031†	31.4	20.2	2.5201 µg/L	2.5201 ppb	11:28:25
1	Ni 231.604†	401.6	36.5	2.3375 µg/L	2.3375 ppb	11:28:25
1	P 214.914†	307.2	12.7	16.207 µg/L	16.207 ppb	11:28:25
1	Pb 220.353†	60.2	25.0	7.5121 µg/L	7.5121 ppb	11:28:25
1	S 181.975 Axial†	17.7	-5.4	-18.457 µg/L	-18.457 ppb	11:28:25
1	Sb 206.836†	22.3	-4.4	-4.2675 µg/L	-4.2675 ppb	11:28:25
1	Se 196.026†	14.4	-5.9	23.155 µg/L	23.155 ppb	11:28:25
1	SiO2†	73083.3	68916.4	13382 µg/L	13382 ppb	11:28:04
1	Si 251.611†	87706.1	85488.0	6239.8 µg/L	6239.8 ppb	11:28:04
1	Sn 189.927†	-9.2	-5.3	-2.1830 µg/L	-2.1830 ppb	11:28:25
1	Ti 334.940†	59762.8	59163.3	149.71 µg/L	149.71 ppb	11:28:04
1	Tl 190.801†	-36.4	-5.0	-1.1119 µg/L	-1.1119 ppb	11:28:25
1	U 409.014†	-334.4	-308.0	-31.153 µg/L	-31.153 ppb	11:28:04
1	V 292.402†	410.4	270.5	2.2975 µg/L	2.2975 ppb	11:28:04
1	Zn 213.857†	2642.6	2041.7	50.099 µg/L	50.099 ppb	11:28:25
2	Sc RADIAL	88470.8	88470.8	103 %		11:27:02
2	Al 396.153Radial†	5150.0	5098.8	2673.7 µg/L	2673.7 ppb	11:27:02
2	Ca 317.933Radial†	4398.7	3943.6	1580.3 µg/L	1580.3 ppb	11:27:02
2	Fe 238.204 Radial†	773.0	736.5	9210.1 µg/L	9210.1 ppb	11:27:22
2	K 766.490 Radial†	2295.3	2104.8	1041.3 µg/L	1041.3 ppb	11:27:02
2	Mg 279.077 IEC†	28.2	18.2	245.58 µg/L	245.58 ppb	11:27:22
2	Na 589.592 Radial†	2345.5	2112.5	1044.6 µg/L	1044.6 ppb	11:27:02
2	Sr 421.552†	1234.6	1077.0	6.7358 µg/L	6.7358 ppb	11:27:02
2	Sc 361.383	1851177.2	1851177.2	100.49 %		11:28:31
2	Y 371.029	1296516.7	1296516.7	101.26 %		11:28:31
2	Ag 328.068†	-546.9	-30.4	0.4699 µg/L	0.4699 ppb	11:28:36
2	As 188.979†	0.5	2.1	2.0721 µg/L	2.0721 ppb	11:28:57
2	B 249.677†	355.8	21.4	-3.7529 µg/L	-3.7529 ppb	11:28:36
2	Ba 233.527†	2234.6	2243.1	53.147 µg/L	53.147 ppb	11:28:57
2	Be 313.107†	-300.7	1044.1	0.6115 µg/L	0.6115 ppb	11:28:36
2	Cd 226.502†	-128.9	37.6	-0.0538 µg/L	-0.0538 ppb	11:28:57
2	Co 228.616†	60.5	29.7	1.0624 µg/L	1.0624 ppb	11:28:57
2	Cr 267.716†	134.0	42.8	1.0235 µg/L	1.0235 ppb	11:28:36
2	Cu 324.752†	4142.3	17.6	1.8543 µg/L	1.8543 ppb	11:28:36
2	Mn 257.610†	136260.5	136318.0	451.26 µg/L	451.26 ppb	11:28:36
2	Mo 202.031†	17.3	6.7	1.0719 µg/L	1.0719 ppb	11:28:57
2	Ni 231.604†	411.8	53.0	3.3366 µg/L	3.3366 ppb	11:28:57
2	P 214.914†	321.1	31.4	50.197 µg/L	50.197 ppb	11:28:57
2	Pb 220.353†	55.7	21.6	6.5208 µg/L	6.5208 ppb	11:28:57

2	S 181.975 Axial†	26.3	3.5	12.013 µg/L	12.013 ppb	11:28:57
2	Sb 206.836†	24.6	-1.7	-1.7179 µg/L	-1.7179 ppb	11:28:57
2	Se 196.026†	21.8	1.7	30.659 µg/L	30.659 ppb	11:28:57
2	SiO2†	73488.1	70481.7	13685 µg/L	13685 ppb	11:28:36
2	Si 251.611†	88199.6	87374.1	6377.5 µg/L	6377.5 ppb	11:28:36
2	Sn 189.927†	-10.0	-6.2	-2.5707 µg/L	-2.5707 ppb	11:28:57
2	Ti 334.940†	60133.8	60483.1	153.05 µg/L	153.05 ppb	11:28:36
2	Tl 190.801†	-36.9	-6.2	-2.2477 µg/L	-2.2477 ppb	11:28:57
2	U 409.014†	-305.3	-284.4	-28.857 µg/L	-28.857 ppb	11:28:36
2	V 292.402†	402.0	268.7	2.2758 µg/L	2.2758 ppb	11:28:36
2	Zn 213.857†	2639.3	2080.4	51.058 µg/L	51.058 ppb	11:28:57
3	Sc RADIAL	87546.0	87546.0	102 %		11:27:28
3	Al 396.153Radial†	5082.5	5085.4	2666.7 µg/L	2666.7 ppb	11:27:28
3	Ca 317.933Radial†	4356.9	3947.8	1581.9 µg/L	1581.9 ppb	11:27:28
3	Fe 238.204 Radial†	777.3	748.7	9362.3 µg/L	9362.3 ppb	11:27:48
3	K 766.490 Radial†	2390.3	2221.5	1099.0 µg/L	1099.0 ppb	11:27:28
3	Mg 279.077 IEC†	25.2	15.5	208.24 µg/L	208.24 ppb	11:27:48
3	Na 589.592 Radial†	2355.5	2146.3	1061.3 µg/L	1061.3 ppb	11:27:28
3	Sr 421.552†	1215.5	1070.9	6.6975 µg/L	6.6975 ppb	11:27:28
3	Sc 361.383	1846947.1	1846947.1	100.26 %		11:29:03
3	Y 371.029	1293843.3	1293843.3	101.05 %		11:29:03
3	Ag 328.068†	-626.6	-111.2	-0.2103 µg/L	-0.2103 ppb	11:29:08
3	As 188.979†	-1.8	-0.1	-1.5230 µg/L	-1.5230 ppb	11:29:29
3	B 249.677†	322.9	-10.6	-5.4036 µg/L	-5.4036 ppb	11:29:08
3	Ba 233.527†	2050.0	2064.1	48.908 µg/L	48.908 ppb	11:29:29
3	Be 313.107†	-323.4	1020.8	0.5993 µg/L	0.5993 ppb	11:29:08
3	Cd 226.502†	-131.6	34.6	-0.1498 µg/L	-0.1498 ppb	11:29:29
3	Co 228.616†	51.5	20.8	0.6669 µg/L	0.6669 ppb	11:29:29
3	Cr 267.716†	158.6	67.7	1.6177 µg/L	1.6177 ppb	11:29:08
3	Cu 324.752†	4183.9	68.6	2.2395 µg/L	2.2395 ppb	11:29:08
3	Mn 257.610†	130424.0	130807.2	433.05 µg/L	433.05 ppb	11:29:08
3	Mo 202.031†	20.6	10.0	1.4256 µg/L	1.4256 ppb	11:29:29
3	Ni 231.604†	403.7	45.9	2.9092 µg/L	2.9092 ppb	11:29:29
3	P 214.914†	317.0	28.1	44.000 µg/L	44.000 ppb	11:29:29
3	Pb 220.353†	67.5	33.4	9.9043 µg/L	9.9043 ppb	11:29:29
3	S 181.975 Axial†	24.6	1.9	6.5192 µg/L	6.5192 ppb	11:29:29
3	Sb 206.836†	29.4	3.1	2.9946 µg/L	2.9946 ppb	11:29:29
3	Se 196.026†	13.4	-6.6	22.712 µg/L	22.712 ppb	11:29:29
3	SiO2†	71256.0	68422.8	13286 µg/L	13286 ppb	11:29:08
3	Si 251.611†	85439.3	84822.0	6191.2 µg/L	6191.2 ppb	11:29:08
3	Sn 189.927†	0.4	4.1	1.8772 µg/L	1.8772 ppb	11:29:29
3	Ti 334.940†	57140.5	57634.6	145.85 µg/L	145.85 ppb	11:29:08
3	Tl 190.801†	-37.7	-7.0	-3.3039 µg/L	-3.3039 ppb	11:29:29
3	U 409.014†	-280.4	-260.3	-26.548 µg/L	-26.548 ppb	11:29:08
3	V 292.402†	429.3	296.9	2.6264 µg/L	2.6264 ppb	11:29:08
3	Zn 213.857†	2430.8	1878.5	46.053 µg/L	46.053 ppb	11:29:29

Mean Data: 1202047739|955145|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1859790.1	100.96 %	1.015			1.01%
Sc RADIAL	87884.5	102 %	0.6			0.58%
Y 371.029	1302683.7	101.74 %	1.020			1.00%
Ag 328.068†	-74.8	0.0949 µg/L	0.34541	0.0949 ppb	0.34541	363.88%
Al 396.153Radial†	5096.5	2672.5 µg/L	5.28	2672.5 ppb	5.28	0.20%
As 188.979†	1.3	0.7543 µg/L	1.98028	0.7543 ppb	1.98028	262.54%
B 249.677†	14.2	-4.1456 µg/L	1.11472	-4.1456 ppb	1.11472	26.89%
Ba 233.527†	2179.4	51.638 µg/L	2.3689	51.638 ppb	2.3689	4.59%
Be 313.107†	1032.0	0.6050 µg/L	0.00615	0.6050 ppb	0.00615	1.02%
Ca 317.933Radial†	3946.3	1581.3 µg/L	0.91	1581.3 ppb	0.91	0.06%
Cd 226.502†	40.9	0.0236 µg/L	0.22247	0.0236 ppb	0.22247	943.73%
Co 228.616†	24.0	0.8089 µg/L	0.22004	0.8089 ppb	0.22004	27.20%
Cr 267.716†	56.1	1.3417 µg/L	0.29938	1.3417 ppb	0.29938	22.31%
Cu 324.752†	9.6	1.8135 µg/L	0.44785	1.8135 ppb	0.44785	24.70%
Fe 238.204 Radial†	743.0	9290.5 µg/L	76.48	9290.5 ppb	76.48	0.82%
K 766.490 Radial†	2139.5	1058.4 µg/L	35.27	1058.4 ppb	35.27	3.33%
Mg 279.077 IEC†	18.0	243.69 µg/L	34.534	243.69 ppb	34.534	14.17%
Mn 257.610†	133442.4	441.76 µg/L	9.131	441.76 ppb	9.131	2.07%
Mo 202.031†	12.3	1.6725 µg/L	0.75501	1.6725 ppb	0.75501	45.14%
Na 589.592 Radial†	2151.4	1063.9 µg/L	20.63	1063.9 ppb	20.63	1.94%

Ni 231.604†	45.1	2.8611 µg/L	0.50126	2.8611 ppb	0.50126	17.52%
P 214.914†	24.1	36.801 µg/L	18.1025	36.801 ppb	18.1025	49.19%
Pb 220.353†	26.7	7.9791 µg/L	1.73940	7.9791 ppb	1.73940	21.80%
S 181.975 Axial†	0.0	0.0251 µg/L	16.23966	0.0251 ppb	16.23966	>999.9%
Sb 206.836†	-1.0	-0.9969 µg/L	3.68435	-0.9969 ppb	3.68435	369.56%
Se 196.026†	-3.6	25.509 µg/L	4.4661	25.509 ppb	4.4661	17.51%
SiO2†	69273.6	13451 µg/L	208.7	13451 ppb	208.7	1.55%
Si 251.611†	85894.7	6269.5 µg/L	96.62	6269.5 ppb	96.62	1.54%
Sn 189.927†	-2.5	-0.9589 µg/L	2.46372	-0.9589 ppb	2.46372	256.94%
Sr 421.552†	1080.9	6.7603 µg/L	0.07800	6.7603 ppb	0.07800	1.15%
Ti 334.940†	59093.7	149.54 µg/L	3.606	149.54 ppb	3.606	2.41%
Tl 190.801†	-6.1	-2.2212 µg/L	1.09623	-2.2212 ppb	1.09623	49.35%
U 409.014†	-284.2	-28.853 µg/L	2.3028	-28.853 ppb	2.3028	7.98%
V 292.402†	278.7	2.3999 µg/L	0.19645	2.3999 ppb	0.19645	8.19%
Zn 213.857†	2000.2	49.070 µg/L	2.6567	49.070 ppb	2.6567	5.41%

Sequence No.: 31

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 11:36:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87726.0	87726.0	102 %		11:37:28
1	Al 396.153Radial†	9836.0	9722.6	5087.6 µg/L	5087.6 ppb	11:37:28
1	Ca 317.933Radial†	13139.2	12525.3	5019.0 µg/L	5019.0 ppb	11:37:28
1	Fe 238.204 Radial†	406.9	385.0	4824.8 µg/L	4824.8 ppb	11:37:48
1	K 766.490 Radial†	10352.8	10001.4	4947.7 µg/L	4947.7 ppb	11:37:28
1	Mg 279.077 IEC†	364.7	347.4	4889.7 µg/L	4889.7 ppb	11:37:48
1	Na 589.592 Radial†	19743.4	19141.3	9465.3 µg/L	9465.3 ppb	11:37:28
1	Sr 421.552†	80454.8	78539.2	491.19 µg/L	491.19 ppb	11:37:28
1	Sc 361.383	1863087.9	1863087.9	101.14 %		11:38:52
1	Y 371.029	1295228.0	1295228.0	101.16 %		11:38:52
1	Ag 328.068†	57788.4	57653.1	499.25 µg/L	499.25 ppb	11:38:58
1	As 188.979†	322.7	320.8	512.59 µg/L	512.59 ppb	11:39:18
1	B 249.677†	10528.5	10077.6	493.69 µg/L	493.69 ppb	11:38:58
1	Ba 233.527†	21453.1	21231.5	503.91 µg/L	503.91 ppb	11:38:58
1	Be 313.107†	795131.0	787542.7	505.01 µg/L	505.01 ppb	11:38:52
1	Cd 226.502†	19366.6	19314.9	505.44 µg/L	505.44 ppb	11:38:58
1	Co 228.616†	11035.3	10880.8	506.18 µg/L	506.18 ppb	11:38:58
1	Cr 267.716†	21759.4	21424.5	511.73 µg/L	511.73 ppb	11:38:58
1	Cu 324.752†	77215.1	72243.3	505.92 µg/L	505.92 ppb	11:38:58
1	Mn 257.610†	155623.2	154596.3	511.12 µg/L	511.12 ppb	11:38:52
1	Mo 202.031†	4940.7	4874.7	522.65 µg/L	522.65 ppb	11:39:18
1	Ni 231.604†	8779.2	8323.8	504.99 µg/L	504.99 ppb	11:38:58
1	P 214.914†	1719.7	1412.2	2512.1 µg/L	2512.1 ppb	11:39:18
1	Pb 220.353†	1875.4	1820.4	518.85 µg/L	518.85 ppb	11:39:18
1	S 181.975 Axial†	322.0	295.7	1019.1 µg/L	1019.1 ppb	11:39:18
1	Sb 206.836†	564.6	532.0	518.20 µg/L	518.20 ppb	11:39:18
1	Se 196.026†	530.8	504.9	525.84 µg/L	525.84 ppb	11:39:18
1	SiO2†	31264.8	28265.1	5488.2 µg/L	5488.2 ppb	11:38:58
1	Si 251.611†	36035.7	35235.1	2571.8 µg/L	2571.8 ppb	11:38:58
1	Sn 189.927†	1233.8	1223.6	526.31 µg/L	526.31 ppb	11:39:18
1	Ti 334.940†	200765.0	199152.0	503.63 µg/L	503.63 ppb	11:38:52
1	Tl 190.801†	450.6	476.2	511.99 µg/L	511.99 ppb	11:39:18
1	U 409.014†	5331.4	5290.9	510.25 µg/L	510.25 ppb	11:38:58
1	V 292.402†	39791.4	39213.1	510.82 µg/L	510.82 ppb	11:38:58
1	Zn 213.857†	21521.2	20733.4	509.94 µg/L	509.94 ppb	11:38:58
2	Sc RADIAL	87404.5	87404.5	102 %		11:37:54
2	Al 396.153Radial†	9796.1	9718.8	5085.8 µg/L	5085.8 ppb	11:37:54
2	Ca 317.933Radial†	13045.8	12480.9	5001.2 µg/L	5001.2 ppb	11:37:54
2	Fe 238.204 Radial†	407.9	387.4	4855.7 µg/L	4855.7 ppb	11:38:14
2	K 766.490 Radial†	10286.8	9973.9	4934.1 µg/L	4934.1 ppb	11:37:54
2	Mg 279.077 IEC†	363.6	347.5	4891.8 µg/L	4891.8 ppb	11:38:14
2	Na 589.592 Radial†	19599.5	19071.1	9430.6 µg/L	9430.6 ppb	11:37:54
2	Sr 421.552†	79895.8	78279.9	489.57 µg/L	489.57 ppb	11:37:54
2	Sc 361.383	1854501.4	1854501.4	100.67 %		11:39:25
2	Y 371.029	1284569.4	1284569.4	100.33 %		11:39:25
2	Ag 328.068†	58047.0	58174.6	503.77 µg/L	503.77 ppb	11:39:31
2	As 188.979†	320.2	319.7	510.90 µg/L	510.90 ppb	11:39:51
2	B 249.677†	10634.4	10230.9	501.22 µg/L	501.22 ppb	11:39:31
2	Ba 233.527†	21511.9	21388.2	507.63 µg/L	507.63 ppb	11:39:31
2	Be 313.107†	791260.5	787338.1	504.88 µg/L	504.88 ppb	11:39:25
2	Cd 226.502†	19416.9	19453.5	509.07 µg/L	509.07 ppb	11:39:31
2	Co 228.616†	11098.7	10994.3	511.46 µg/L	511.46 ppb	11:39:31
2	Cr 267.716†	21820.9	21585.1	515.56 µg/L	515.56 ppb	11:39:31
2	Cu 324.752†	77522.6	72902.2	510.53 µg/L	510.53 ppb	11:39:31
2	Mn 257.610†	155203.8	154892.2	512.10 µg/L	512.10 ppb	11:39:25
2	Mo 202.031†	4852.4	4809.5	515.67 µg/L	515.67 ppb	11:39:51
2	Ni 231.604†	8814.4	8398.9	509.55 µg/L	509.55 ppb	11:39:31
2	P 214.914†	1713.5	1413.9	2514.6 µg/L	2514.6 ppb	11:39:51
2	Pb 220.353†	1851.9	1805.6	514.60 µg/L	514.60 ppb	11:39:51

2	S 181.975 Axial†	317.8	293.1	1009.8 µg/L	1009.8 ppb	11:39:51
2	Sb 206.836†	560.4	530.4	516.48 µg/L	516.48 ppb	11:39:51
2	Se 196.026†	517.6	494.2	515.07 µg/L	515.07 ppb	11:39:51
2	SiO2†	31417.4	28559.8	5545.5 µg/L	5545.5 ppb	11:39:31
2	Si 251.611†	36211.7	35574.9	2596.6 µg/L	2596.6 ppb	11:39:31
2	Sn 189.927†	1209.3	1204.9	518.28 µg/L	518.28 ppb	11:39:51
2	Ti 334.940†	200127.2	199437.5	504.35 µg/L	504.35 ppb	11:39:25
2	Tl 190.801†	451.5	479.1	515.09 µg/L	515.09 ppb	11:39:51
2	U 409.014†	5385.6	5369.1	517.81 µg/L	517.81 ppb	11:39:31
2	V 292.402†	40032.1	39634.4	516.21 µg/L	516.21 ppb	11:39:31
2	Zn 213.857†	21624.8	20935.0	514.90 µg/L	514.90 ppb	11:39:31
3	Sc RADIAL	88423.7	88423.7	103 %		11:38:20
3	Al 396.153Radial†	9874.8	9684.4	5069.3 µg/L	5069.3 ppb	11:38:20
3	Ca 317.933Radial†	13188.6	12471.8	4997.6 µg/L	4997.6 ppb	11:38:20
3	Fe 238.204 Radial†	409.6	384.5	4818.1 µg/L	4818.1 ppb	11:38:40
3	K 766.490 Radial†	10464.7	10030.2	4961.9 µg/L	4961.9 ppb	11:38:20
3	Mg 279.077 IEC†	365.2	345.0	4855.2 µg/L	4855.2 ppb	11:38:40
3	Na 589.592 Radial†	19837.6	19080.4	9435.2 µg/L	9435.2 ppb	11:38:20
3	Sr 421.552†	80775.6	78229.8	489.25 µg/L	489.25 ppb	11:38:20
3	Sc 361.383	1848839.5	1848839.5	100.36 %		11:39:59
3	Y 371.029	1281924.8	1281924.8	100.12 %		11:39:59
3	Ag 328.068†	54795.7	55111.5	477.12 µg/L	477.12 ppb	11:40:04
3	As 188.979†	272.8	273.5	436.90 µg/L	436.90 ppb	11:40:25
3	B 249.677†	9924.9	9556.4	467.99 µg/L	467.99 ppb	11:40:04
3	Ba 233.527†	19902.3	19849.8	471.10 µg/L	471.10 ppb	11:40:04
3	Be 313.107†	738979.5	737653.0	473.02 µg/L	473.02 ppb	11:39:59
3	Cd 226.502†	17835.7	17937.0	469.34 µg/L	469.34 ppb	11:40:04
3	Co 228.616†	10087.2	10020.3	466.10 µg/L	466.10 ppb	11:40:04
3	Cr 267.716†	19320.9	19160.6	457.66 µg/L	457.66 ppb	11:40:04
3	Cu 324.752†	71138.5	66777.0	467.71 µg/L	467.71 ppb	11:40:04
3	Mn 257.610†	145069.3	145266.4	480.28 µg/L	480.28 ppb	11:39:59
3	Mo 202.031†	4104.8	4079.4	437.41 µg/L	437.41 ppb	11:40:25
3	Ni 231.604†	8072.1	7686.2	466.31 µg/L	466.31 ppb	11:40:04
3	P 214.914†	1512.6	1219.0	2164.6 µg/L	2164.6 ppb	11:40:25
3	Pb 220.353†	1618.3	1578.6	449.86 µg/L	449.86 ppb	11:40:25
3	S 181.975 Axial†	281.4	257.7	888.11 µg/L	888.11 ppb	11:40:25
3	Sb 206.836†	488.9	460.9	448.49 µg/L	448.49 ppb	11:40:25
3	Se 196.026†	461.3	439.7	459.43 µg/L	459.43 ppb	11:40:25
3	SiO2†	29548.8	26793.6	5202.5 µg/L	5202.5 ppb	11:40:04
3	Si 251.611†	33928.5	33410.1	2438.6 µg/L	2438.6 ppb	11:40:04
3	Sn 189.927†	1004.6	1004.7	432.22 µg/L	432.22 ppb	11:40:25
3	Ti 334.940†	185694.3	185665.6	469.51 µg/L	469.51 ppb	11:39:59
3	Tl 190.801†	402.5	431.6	464.28 µg/L	464.28 ppb	11:40:25
3	U 409.014†	4781.7	4783.8	461.25 µg/L	461.25 ppb	11:40:04
3	V 292.402†	36179.7	35917.6	467.49 µg/L	467.49 ppb	11:40:04
3	Zn 213.857†	19804.6	19187.0	471.87 µg/L	471.87 ppb	11:40:04

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1855476.3	100.72 %	0.389			0.39%
Sc RADIAL	87851.4	102 %	0.6			0.59%
Y 371.029	1287240.7	100.54 %	0.550			0.55%
Ag 328.068†	56979.7	493.38 µg/L	14.260	493.38 ppb	14.260	2.89%
QC value within limits for Ag 328.068 Recovery = 98.68%						
Al 396.153Radial†	9708.6	5080.9 µg/L	10.09	5080.9 ppb	10.09	0.20%
QC value within limits for Al 396.153Radial Recovery = 101.62%						
As 188.979†	304.7	486.80 µg/L	43.215	486.80 ppb	43.215	8.88%
QC value within limits for As 188.979 Recovery = 97.36%						
B 249.677†	9955.0	487.63 µg/L	17.424	487.63 ppb	17.424	3.57%
QC value within limits for B 249.677 Recovery = 97.53%						
Ba 233.527†	20823.2	494.21 µg/L	20.104	494.21 ppb	20.104	4.07%
QC value within limits for Ba 233.527 Recovery = 98.84%						
Be 313.107†	770844.6	494.30 µg/L	18.432	494.30 ppb	18.432	3.73%
QC value within limits for Be 313.107 Recovery = 98.86%						
Ca 317.933Radial†	12492.7	5005.9 µg/L	11.47	5005.9 ppb	11.47	0.23%
QC value within limits for Ca 317.933Radial Recovery = 100.12%						
Cd 226.502†	18901.8	494.62 µg/L	21.964	494.62 ppb	21.964	4.44%
QC value within limits for Cd 226.502 Recovery = 98.92%						
Co 228.616†	10631.8	494.58 µg/L	24.807	494.58 ppb	24.807	5.02%

Cr	267.716†	20723.4	494.98 µg/L	32.380	494.98 ppb	32.380	6.54%
Cu	324.752†	70640.8	494.72 µg/L	23.507	494.72 ppb	23.507	4.75%
Fe	238.204 Radial†	385.7	4832.9 µg/L	20.01	4832.9 ppb	20.01	0.41%
K	766.490 Radial†	10001.8	4947.9 µg/L	13.92	4947.9 ppb	13.92	0.28%
Mg	279.077 IEC†	346.7	4878.9 µg/L	20.56	4878.9 ppb	20.56	0.42%
Mn	257.610†	151585.0	501.17 µg/L	18.099	501.17 ppb	18.099	3.61%
Mo	202.031†	4587.9	491.91 µg/L	47.326	491.91 ppb	47.326	9.62%
Na	589.592 Radial†	19097.6	9443.7 µg/L	18.86	9443.7 ppb	18.86	0.20%
Ni	231.604†	8136.3	493.62 µg/L	23.755	493.62 ppb	23.755	4.81%
P	214.914†	1348.4	2397.1 µg/L	201.37	2397.1 ppb	201.37	8.40%
Pb	220.353†	1734.9	494.44 µg/L	38.660	494.44 ppb	38.660	7.82%
S	181.975 Axial†	282.2	972.34 µg/L	73.091	972.34 ppb	73.091	7.52%
Sb	206.836†	507.8	494.39 µg/L	39.760	494.39 ppb	39.760	8.04%
Se	196.026†	479.6	500.11 µg/L	35.641	500.11 ppb	35.641	7.13%
SiO2†		27872.8	5412.1 µg/L	183.73	5412.1 ppb	183.73	3.39%
Si	251.611†	34740.0	2535.7 µg/L	84.98	2535.7 ppb	84.98	3.35%
Sn	189.927†	1144.4	492.27 µg/L	52.159	492.27 ppb	52.159	10.60%
Sr	421.552†	78349.6	490.00 µg/L	1.039	490.00 ppb	1.039	0.21%
Ti	334.940†	194751.7	492.50 µg/L	19.913	492.50 ppb	19.913	4.04%
Tl	190.801†	462.3	497.12 µg/L	28.481	497.12 ppb	28.481	5.73%
U	409.014†	5147.9	496.43 µg/L	30.703	496.43 ppb	30.703	6.18%
V	292.402†	38255.0	498.17 µg/L	26.708	498.17 ppb	26.708	5.36%
Zn	213.857†	20285.1	498.90 µg/L	23.540	498.90 ppb	23.540	4.72%

QC value within limits for Co 228.616 Recovery = 98.92%
 QC value within limits for Cr 267.716 Recovery = 99.00%
 QC value within limits for Cu 324.752 Recovery = 98.94%
 QC value within limits for Fe 238.204 Radial Recovery = 96.66%
 QC value within limits for K 766.490 Radial Recovery = 98.96%
 QC value within limits for Mg 279.077 IEC Recovery = 97.58%
 QC value within limits for Mn 257.610 Recovery = 100.23%
 QC value within limits for Mo 202.031 Recovery = 98.38%
 QC value within limits for Na 589.592 Radial Recovery = 94.44%
 QC value within limits for Ni 231.604 Recovery = 98.72%
 QC value within limits for P 214.914 Recovery = 95.88%
 QC value within limits for Pb 220.353 Recovery = 98.89%
 QC value within limits for S 181.975 Axial Recovery = 97.23%
 QC value within limits for Sb 206.836 Recovery = 98.88%
 QC value within limits for Se 196.026 Recovery = 100.02%
 QC value within limits for SiO2 Recovery = 101.21%
 QC value within limits for Si 251.611 Recovery = 101.43%
 QC value within limits for Sn 189.927 Recovery = 98.45%
 QC value within limits for Sr 421.552 Recovery = 98.00%
 QC value within limits for Ti 334.940 Recovery = 98.50%
 QC value within limits for Tl 190.801 Recovery = 99.42%
 QC value within limits for U 409.014 Recovery = 99.29%
 QC value within limits for V 292.402 Recovery = 99.63%
 QC value within limits for Zn 213.857 Recovery = 99.78%

All analyte(s) passed QC.

Sequence No.: 32

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 11:40:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86316.6	86316.6	101 %		11:41:05
1	Al 396.153Radial†	-103.0	3.8	1.9679 µg/L	1.9679 ppb	11:41:05
1	Ca 317.933Radial†	343.7	20.9	8.3813 µg/L	8.3813 ppb	11:41:25
1	Fe 238.204 Radial†	13.5	0.6	7.4682 µg/L	7.4682 ppb	11:41:25
1	K 766.490 Radial†	11.3	-109.1	-53.970 µg/L	-53.970 ppb	11:41:05
1	Mg 279.077 IEC†	7.8	-1.4	-19.880 µg/L	-19.880 ppb	11:41:25
1	Na 589.592 Radial†	168.3	5.9	2.9193 µg/L	2.9193 ppb	11:41:05
1	Sr 421.552†	137.9	17.2	0.1073 µg/L	0.1073 ppb	11:41:05
1	Sc 361.383	1872798.4	1872798.4	101.66 %		11:42:27
1	Y 371.029	1301562.1	1301562.1	101.65 %		11:42:27
1	Ag 328.068†	-470.9	50.6	0.4321 µg/L	0.4321 ppb	11:42:33
1	As 188.979†	-1.3	0.4	0.5969 µg/L	0.5969 ppb	11:42:54
1	B 249.677†	295.6	-41.9	-2.0649 µg/L	-2.0649 ppb	11:42:33
1	Ba 233.527†	-22.2	-2.4	-0.0585 µg/L	-0.0585 ppb	11:42:54
1	Be 313.107†	-1310.0	54.8	0.0349 µg/L	0.0349 ppb	11:42:33
1	Cd 226.502†	-160.5	7.9	0.2067 µg/L	0.2067 ppb	11:42:54
1	Co 228.616†	36.3	5.2	0.2398 µg/L	0.2398 ppb	11:42:54
1	Cr 267.716†	96.8	4.6	0.1106 µg/L	0.1106 ppb	11:42:33
1	Cu 324.752†	4066.3	-104.7	-0.7307 µg/L	-0.7307 ppb	11:42:33
1	Mn 257.610†	-678.8	53.5	0.1788 µg/L	0.1788 ppb	11:42:54
1	Mo 202.031†	15.7	4.9	0.5299 µg/L	0.5299 ppb	11:42:54
1	Ni 231.604†	359.9	-2.7	-0.1657 µg/L	-0.1657 ppb	11:42:54
1	P 214.914†	288.1	-4.8	-8.5240 µg/L	-8.5240 ppb	11:42:54
1	Pb 220.353†	48.1	13.4	3.8208 µg/L	3.8208 ppb	11:42:54
1	S 181.975 Axial†	21.1	-1.8	-6.3449 µg/L	-6.3449 ppb	11:42:54
1	Sb 206.836†	28.4	1.7	1.6399 µg/L	1.6399 ppb	11:42:54
1	Se 196.026†	29.6	9.1	9.3464 µg/L	9.3464 ppb	11:42:54
1	SiO2†	2744.0	50.6	9.8212 µg/L	9.8212 ppb	11:42:33
1	Si 251.611†	536.2	131.6	9.6071 µg/L	9.6071 ppb	11:42:54
1	Sn 189.927†	2.3	6.0	2.5652 µg/L	2.5652 ppb	11:42:54
1	Ti 334.940†	-445.3	204.1	0.5182 µg/L	0.5182 ppb	11:42:33
1	Tl 190.801†	-29.1	2.0	2.0914 µg/L	2.0914 ppb	11:42:54
1	U 409.014†	-16.0	3.6	0.3493 µg/L	0.3493 ppb	11:42:33
1	V 292.402†	92.8	-40.1	-0.5137 µg/L	-0.5137 ppb	11:42:33
1	Zn 213.857†	623.9	67.7	1.6802 µg/L	1.6802 ppb	11:42:54
2	Sc RADIAL	86613.6	86613.6	101 %		11:41:31
2	Al 396.153Radial†	-101.5	5.6	2.9339 µg/L	2.9339 ppb	11:41:31
2	Ca 317.933Radial†	353.3	29.2	11.686 µg/L	11.686 ppb	11:41:51
2	Fe 238.204 Radial†	13.3	0.3	4.3721 µg/L	4.3721 ppb	11:41:51
2	K 766.490 Radial†	201.1	78.9	39.022 µg/L	39.022 ppb	11:41:31
2	Mg 279.077 IEC†	7.3	-2.0	-28.158 µg/L	-28.158 ppb	11:41:51
2	Na 589.592 Radial†	149.6	-13.2	-6.5370 µg/L	-6.5370 ppb	11:41:31
2	Sr 421.552†	129.7	8.5	0.0531 µg/L	0.0531 ppb	11:41:31
2	Sc 361.383	1853107.9	1853107.9	100.59 %		11:43:00
2	Y 371.029	1286477.6	1286477.6	100.48 %		11:43:00
2	Ag 328.068†	-550.0	-33.0	-0.2835 µg/L	-0.2835 ppb	11:43:05
2	As 188.979†	-0.4	1.2	1.9876 µg/L	1.9876 ppb	11:43:26
2	B 249.677†	289.7	-44.7	-2.1995 µg/L	-2.1995 ppb	11:43:05
2	Ba 233.527†	-16.4	3.1	0.0737 µg/L	0.0737 ppb	11:43:26
2	Be 313.107†	-1279.8	71.2	0.0455 µg/L	0.0455 ppb	11:43:05
2	Cd 226.502†	-164.4	2.4	0.0615 µg/L	0.0615 ppb	11:43:26
2	Co 228.616†	34.2	3.4	0.1608 µg/L	0.1608 ppb	11:43:26
2	Cr 267.716†	66.8	-24.2	-0.5770 µg/L	-0.5770 ppb	11:43:05
2	Cu 324.752†	4086.2	-42.5	-0.2960 µg/L	-0.2960 ppb	11:43:05
2	Mn 257.610†	-670.7	54.5	0.1825 µg/L	0.1825 ppb	11:43:26
2	Mo 202.031†	21.8	11.2	1.1970 µg/L	1.1970 ppb	11:43:26
2	Ni 231.604†	346.2	-12.6	-0.7639 µg/L	-0.7639 ppb	11:43:26
2	P 214.914†	285.0	-4.8	-8.7107 µg/L	-8.7107 ppb	11:43:26
2	Pb 220.353†	41.2	7.0	1.9994 µg/L	1.9994 ppb	11:43:26

2	S 181.975 Axial†	19.5	-3.3	-11.201 µg/L	-11.201 ppb	11:43:26
2	Sb 206.836†	29.0	2.6	2.5596 µg/L	2.5596 ppb	11:43:26
2	Se 196.026†	19.2	-0.9	-0.9266 µg/L	-0.9266 ppb	11:43:26
2	SiO2†	2732.3	67.7	13.138 µg/L	13.138 ppb	11:43:05
2	Si 251.611†	550.6	151.5	11.061 µg/L	11.061 ppb	11:43:26
2	Sn 189.927†	0.7	4.4	1.9055 µg/L	1.9055 ppb	11:43:26
2	Ti 334.940†	-478.3	166.7	0.4241 µg/L	0.4241 ppb	11:43:05
2	Tl 190.801†	-31.0	-0.3	-0.2658 µg/L	-0.2658 ppb	11:43:26
2	U 409.014†	48.4	67.5	6.5201 µg/L	6.5201 ppb	11:43:05
2	V 292.402†	125.5	-6.6	-0.0705 µg/L	-0.0705 ppb	11:43:05
2	Zn 213.857†	632.1	82.4	2.0453 µg/L	2.0453 ppb	11:43:26
3	Sc RADIAL	86521.0	86521.0	101 %		11:41:57
3	Al 396.153Radial†	-79.3	27.5	14.437 µg/L	14.437 ppb	11:41:57
3	Ca 317.933Radial†	347.2	23.5	9.4232 µg/L	9.4232 ppb	11:42:17
3	Fe 238.204 Radial†	12.9	0.0	0.6008 µg/L	0.6008 ppb	11:42:17
3	K 766.490 Radial†	106.2	-15.0	-7.4326 µg/L	-7.4326 ppb	11:41:57
3	Mg 279.077 IEC†	5.9	-3.3	-46.717 µg/L	-46.717 ppb	11:42:17
3	Na 589.592 Radial†	146.9	-15.7	-7.7759 µg/L	-7.7759 ppb	11:41:57
3	Sr 421.552†	92.3	-28.4	-0.1775 µg/L	-0.1775 ppb	11:41:57
3	Sc 361.383	1869294.6	1869294.6	101.47 %		11:43:32
3	Y 371.029	1298342.6	1298342.6	101.40 %		11:43:32
3	Ag 328.068†	-494.7	26.3	0.2256 µg/L	0.2256 ppb	11:43:37
3	As 188.979†	-2.8	-1.1	-1.7881 µg/L	-1.7881 ppb	11:43:58
3	B 249.677†	294.8	-42.2	-2.0754 µg/L	-2.0754 ppb	11:43:37
3	Ba 233.527†	-5.9	13.6	0.3211 µg/L	0.3211 ppb	11:43:58
3	Be 313.107†	-1225.1	136.0	0.0870 µg/L	0.0870 ppb	11:43:37
3	Cd 226.502†	-175.3	-6.9	-0.1819 µg/L	-0.1819 ppb	11:43:58
3	Co 228.616†	30.1	-0.9	-0.0428 µg/L	-0.0428 ppb	11:43:58
3	Cr 267.716†	73.8	-17.8	-0.4251 µg/L	-0.4251 ppb	11:43:37
3	Cu 324.752†	4109.2	-54.9	-0.3838 µg/L	-0.3838 ppb	11:43:37
3	Mn 257.610†	-669.6	61.4	0.2062 µg/L	0.2062 ppb	11:43:58
3	Mo 202.031†	8.4	-2.3	-0.2425 µg/L	-0.2425 ppb	11:43:58
3	Ni 231.604†	354.4	-7.5	-0.4560 µg/L	-0.4560 ppb	11:43:58
3	P 214.914†	279.9	-12.3	-22.221 µg/L	-22.221 ppb	11:43:58
3	Pb 220.353†	44.6	10.0	2.8460 µg/L	2.8460 ppb	11:43:58
3	S 181.975 Axial†	23.0	0.0	0.0519 µg/L	0.0519 ppb	11:43:58
3	Sb 206.836†	27.6	0.9	0.8871 µg/L	0.8871 ppb	11:43:58
3	Se 196.026†	24.0	3.7	3.7935 µg/L	3.7935 ppb	11:43:58
3	SiO2†	2746.5	58.1	11.290 µg/L	11.290 ppb	11:43:37
3	Si 251.611†	560.2	156.2	11.401 µg/L	11.401 ppb	11:43:58
3	Sn 189.927†	-9.9	-6.0	-2.5982 µg/L	-2.5982 ppb	11:43:58
3	Ti 334.940†	-446.5	202.2	0.5155 µg/L	0.5155 ppb	11:43:37
3	Tl 190.801†	-34.0	-2.9	-3.0601 µg/L	-3.0601 ppb	11:43:58
3	U 409.014†	-14.1	5.5	0.5288 µg/L	0.5288 ppb	11:43:37
3	V 292.402†	124.4	-8.8	-0.1153 µg/L	-0.1153 ppb	11:43:37
3	Zn 213.857†	625.0	69.9	1.7367 µg/L	1.7367 ppb	11:43:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	1865067.0	101.24 %		0.570				0.56%
Sc RADIAL	86483.7	101 %		0.2				0.18%
Y 371.029	1295460.8	101.18 %		0.620				0.61%
Ag 328.068†	14.7	0.1247 µg/L		0.36829	0.1247 ppb		0.36829	295.23%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	12.3	6.4464 µg/L		6.93716	6.4464 ppb		6.93716	107.61%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	0.2	0.2654 µg/L		1.90955	0.2654 ppb		1.90955	719.39%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	-42.9	-2.1133 µg/L		0.07489	-2.1133 ppb		0.07489	3.54%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	4.7	0.1121 µg/L		0.19269	0.1121 ppb		0.19269	171.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	87.3	0.0558 µg/L		0.02755	0.0558 ppb		0.02755	49.35%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	24.5	9.8302 µg/L		1.68958	9.8302 ppb		1.68958	17.19%
QC value within limits for Ca 317.933Radial Recovery = Not calculated								
Cd 226.502†	1.1	0.0288 µg/L		0.19636	0.0288 ppb		0.19636	681.54%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.6	0.1192 µg/L		0.14580	0.1192 ppb		0.14580	122.27%

Cr 267.716†	QC value within limits for Co 228.616	Recovery = Not calculated			
	-12.4	-0.2972 µg/L	0.36122	-0.2972 ppb	0.36122 121.56%
Cu 324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated			
	-67.4	-0.4702 µg/L	0.22988	-0.4702 ppb	0.22988 48.89%
Fe 238.204 Radial†	QC value within limits for Cu 324.752	Recovery = Not calculated			
	0.3	4.1470 µg/L	3.43921	4.1470 ppb	3.43921 82.93%
K 766.490 Radial†	QC value within limits for Fe 238.204 Radial	Recovery = Not calculated			
	-15.1	-7.4603 µg/L	46.49576	-7.4603 ppb	46.49576 623.24%
Mg 279.077 IEC†	QC value within limits for K 766.490 Radial	Recovery = Not calculated			
	-2.2	-31.585 µg/L	13.7427	-31.585 ppb	13.7427 43.51%
Mn 257.610†	QC value within limits for Mg 279.077 IEC	Recovery = Not calculated			
	56.5	0.1892 µg/L	0.01488	0.1892 ppb	0.01488 7.87%
Mo 202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated			
	4.6	0.4948 µg/L	0.72041	0.4948 ppb	0.72041 145.60%
Na 589.592 Radial†	QC value within limits for Mo 202.031	Recovery = Not calculated			
	-7.7	-3.7978 µg/L	5.85010	-3.7978 ppb	5.85010 154.04%
Ni 231.604†	QC value within limits for Na 589.592 Radial	Recovery = Not calculated			
	-7.6	-0.4619 µg/L	0.29915	-0.4619 ppb	0.29915 64.77%
P 214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated			
	-7.3	-13.152 µg/L	7.8549	-13.152 ppb	7.8549 59.72%
Pb 220.353†	QC value within limits for P 214.914	Recovery = Not calculated			
	10.1	2.8888 µg/L	0.91144	2.8888 ppb	0.91144 31.55%
S 181.975 Axial†	QC value within limits for Pb 220.353	Recovery = Not calculated			
	-1.7	-5.8313 µg/L	5.64391	-5.8313 ppb	5.64391 96.79%
Sb 206.836†	QC value within limits for S 181.975 Axial	Recovery = Not calculated			
	1.7	1.6955 µg/L	0.83765	1.6955 ppb	0.83765 49.40%
Se 196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated			
	4.0	4.0711 µg/L	5.14209	4.0711 ppb	5.14209 126.31%
SiO2†	QC value within limits for Se 196.026	Recovery = Not calculated			
	58.8	11.416 µg/L	1.6619	11.416 ppb	1.6619 14.56%
Si 251.611†	QC value within limits for SiO2	Recovery = Not calculated			
	146.5	10.690 µg/L	0.9528	10.690 ppb	0.9528 8.91%
Sn 189.927†	QC value within limits for Si 251.611	Recovery = Not calculated			
	1.5	0.6242 µg/L	2.81005	0.6242 ppb	2.81005 450.21%
Sr 421.552†	QC value within limits for Sn 189.927	Recovery = Not calculated			
	-0.9	-0.0057 µg/L	0.15123	-0.0057 ppb	0.15123 >999.9%
Ti 334.940†	QC value within limits for Sr 421.552	Recovery = Not calculated			
	191.0	0.4859 µg/L	0.05356	0.4859 ppb	0.05356 11.02%
Tl 190.801†	QC value within limits for Ti 334.940	Recovery = Not calculated			
	-0.4	-0.4115 µg/L	2.57885	-0.4115 ppb	2.57885 626.71%
U 409.014†	QC value within limits for Tl 190.801	Recovery = Not calculated			
	25.5	2.4660 µg/L	3.51203	2.4660 ppb	3.51203 142.42%
V 292.402†	QC value within limits for U 409.014	Recovery = Not calculated			
	-18.5	-0.2332 µg/L	0.24397	-0.2332 ppb	0.24397 104.62%
Zn 213.857†	QC value within limits for V 292.402	Recovery = Not calculated			
	73.3	1.8207 µg/L	0.19655	1.8207 ppb	0.19655 10.80%
	QC value within limits for Zn 213.857	Recovery = Not calculated			

All analyte(s) passed QC.

Sequence No.: 37

Sample ID: 247359001|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 331

Date Collected: 3/17/2010 11:58:12

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247359001|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87777.2	87777.2	102 %		11:58:42
1	Al 396.153Radial†	52729.5	51628.8	27073 µg/L	27073 ppb	11:58:42
1	Ca 317.933Radial†	54832.0	53256.2	21340 µg/L	21340 ppb	11:58:42
1	Fe 238.204 Radial†	3314.6	3225.9	40338 µg/L	40338 ppb	11:59:02
1	K 766.490 Radial†	13107.9	12687.6	6276.5 µg/L	6276.5 ppb	11:58:42
1	Mg 279.077 IEC†	514.2	493.2	6893.6 µg/L	6893.6 ppb	11:59:02
1	Na 589.592 Radial†	781.1	601.8	297.61 µg/L	297.61 ppb	11:58:42
1	Sr 421.552†	19644.5	19075.0	119.30 µg/L	119.30 ppb	11:58:42
1	Sc 361.383	1884381.3	1884381.3	102.29 %		12:00:02
1	Y 371.029	1322943.1	1322943.1	103.32 %		12:00:02
1	Ag 328.068†	-847.3	-314.5	0.8150 µg/L	0.8150 ppb	12:00:07
1	As 188.979†	11.1	12.6	12.561 µg/L	12.561 ppb	12:00:27
1	B 249.677†	1102.9	745.5	15.647 µg/L	15.647 ppb	12:00:07
1	Ba 233.527†	18816.9	18414.7	436.38 µg/L	436.38 ppb	12:00:07
1	Be 313.107†	2998.8	4275.0	2.2740 µg/L	2.2740 ppb	12:00:07
1	Cd 226.502†	102.8	266.4	2.4342 µg/L	2.4342 ppb	12:00:27
1	Co 228.616†	373.8	334.9	13.034 µg/L	13.034 ppb	12:00:27
1	Cr 267.716†	1413.0	1290.8	30.852 µg/L	30.852 ppb	12:00:27
1	Cu 324.752†	9472.2	5155.5	43.623 µg/L	43.623 ppb	12:00:07
1	Mn 257.610†	631637.9	618206.7	2046.0 µg/L	2046.0 ppb	12:00:02
1	Mo 202.031†	15.0	4.1	1.9723 µg/L	1.9723 ppb	12:00:27
1	Ni 231.604†	732.0	358.8	22.298 µg/L	22.298 ppb	12:00:27
1	P 214.914†	1153.0	839.1	1492.1 µg/L	1492.1 ppb	12:00:27
1	Pb 220.353†	289.1	248.7	73.480 µg/L	73.480 ppb	12:00:27
1	S 181.975 Axial†	566.6	531.3	1830.7 µg/L	1830.7 ppb	12:00:27
1	Sb 206.836†	15.9	-10.7	-11.029 µg/L	-11.029 ppb	12:00:27
1	Se 196.026†	-19.6	-39.1	81.120 µg/L	81.120 ppb	12:00:27
1	SiO2†	215252.9	207781.4	40345 µg/L	40345 ppb	12:00:02
1	Si 251.611†	262968.1	256680.2	18735 µg/L	18735 ppb	12:00:02
1	Sn 189.927†	-42.1	-37.5	-14.178 µg/L	-14.178 ppb	12:00:27
1	Ti 334.940†	496291.4	485813.7	1229.1 µg/L	1229.1 ppb	12:00:02
1	Tl 190.801†	-41.1	-9.6	11.911 µg/L	11.911 ppb	12:00:27
1	U 409.014†	-362.2	-334.6	-39.244 µg/L	-39.244 ppb	12:00:07
1	V 292.402†	5139.7	4893.2	58.030 µg/L	58.030 ppb	12:00:07
1	Zn 213.857†	10804.7	10016.6	245.61 µg/L	245.61 ppb	12:00:07
2	Sc RADIAL	87071.2	87071.2	102 %		11:59:07
2	Al 396.153Radial†	52194.7	51519.7	27016 µg/L	27016 ppb	11:59:07
2	Ca 317.933Radial†	54344.3	53210.2	21322 µg/L	21322 ppb	11:59:07
2	Fe 238.204 Radial†	3306.0	3243.7	40561 µg/L	40561 ppb	11:59:27
2	K 766.490 Radial†	12893.3	12580.0	6223.3 µg/L	6223.3 ppb	11:59:07
2	Mg 279.077 IEC†	517.2	500.2	6992.6 µg/L	6992.6 ppb	11:59:27
2	Na 589.592 Radial†	782.2	609.1	301.21 µg/L	301.21 ppb	11:59:07
2	Sr 421.552†	19490.6	19078.9	119.32 µg/L	119.32 ppb	11:59:07
2	Sc 361.383	1879829.4	1879829.4	102.04 %		12:00:34
2	Y 371.029	1318974.6	1318974.6	103.01 %		12:00:34
2	Ag 328.068†	-934.2	-401.6	0.0836 µg/L	0.0836 ppb	12:00:40
2	As 188.979†	11.2	12.6	12.648 µg/L	12.648 ppb	12:01:00
2	B 249.677†	1113.4	758.4	16.164 µg/L	16.164 ppb	12:00:40
2	Ba 233.527†	18575.5	18222.7	431.83 µg/L	431.83 ppb	12:00:40
2	Be 313.107†	3073.5	4355.2	2.3265 µg/L	2.3265 ppb	12:00:40
2	Cd 226.502†	93.8	257.7	2.1815 µg/L	2.1815 ppb	12:01:00
2	Co 228.616†	357.0	319.4	12.315 µg/L	12.315 ppb	12:01:00
2	Cr 267.716†	1391.2	1272.8	30.421 µg/L	30.421 ppb	12:01:00
2	Cu 324.752†	9377.0	5084.6	43.169 µg/L	43.169 ppb	12:00:40
2	Mn 257.610†	629836.1	617936.2	2045.1 µg/L	2045.1 ppb	12:00:34
2	Mo 202.031†	19.1	8.2	2.4192 µg/L	2.4192 ppb	12:01:00
2	Ni 231.604†	718.7	347.5	21.617 µg/L	21.617 ppb	12:01:00
2	P 214.914†	1159.5	848.1	1508.4 µg/L	1508.4 ppb	12:01:00
2	Pb 220.353†	312.9	272.7	80.312 µg/L	80.312 ppb	12:01:00

2	S 181.975 Axial†	558.8	525.0	1809.1 µg/L	1809.1 ppb	12:01:00
2	Sb 206.836†	23.0	-3.7	-4.2781 µg/L	-4.2781 ppb	12:01:00
2	Se 196.026†	-11.6	-31.3	89.708 µg/L	89.708 ppb	12:01:00
2	SiO2†	213785.9	206853.4	40165 µg/L	40165 ppb	12:00:34
2	Si 251.611†	261277.9	255646.4	18660 µg/L	18660 ppb	12:00:34
2	Sn 189.927†	-37.4	-32.9	-12.234 µg/L	-12.234 ppb	12:01:00
2	Ti 334.940†	493973.7	484717.2	1226.3 µg/L	1226.3 ppb	12:00:34
2	Tl 190.801†	-36.5	-5.2	16.630 µg/L	16.630 ppb	12:01:00
2	U 409.014†	-374.4	-347.5	-40.512 µg/L	-40.512 ppb	12:00:40
2	V 292.402†	5129.7	4895.6	58.033 µg/L	58.033 ppb	12:00:40
2	Zn 213.857†	10651.0	9891.6	242.50 µg/L	242.50 ppb	12:00:40
3	Sc RADIAL	87520.4	87520.4	102 %		11:59:32
3	Al 396.153Radial†	52663.5	51715.2	27119 µg/L	27119 ppb	11:59:32
3	Ca 317.933Radial†	54816.1	53397.8	21397 µg/L	21397 ppb	11:59:32
3	Fe 238.204 Radial†	3328.1	3248.7	40623 µg/L	40623 ppb	11:59:53
3	K 766.490 Radial†	13046.6	12665.0	6265.4 µg/L	6265.4 ppb	11:59:32
3	Mg 279.077 IEC†	519.4	499.8	6985.8 µg/L	6985.8 ppb	11:59:53
3	Na 589.592 Radial†	790.9	613.7	303.47 µg/L	303.47 ppb	11:59:32
3	Sr 421.552†	19645.1	19131.9	119.65 µg/L	119.65 ppb	11:59:32
3	Sc 361.383	1868519.5	1868519.5	101.43 %		12:01:07
3	Y 371.029	1308612.7	1308612.7	102.20 %		12:01:07
3	Ag 328.068†	-862.6	-336.6	0.6268 µg/L	0.6268 ppb	12:01:12
3	As 188.979†	7.3	8.9	6.6160 µg/L	6.6160 ppb	12:01:32
3	B 249.677†	1065.1	717.4	14.112 µg/L	14.112 ppb	12:01:12
3	Ba 233.527†	18055.1	17819.8	422.28 µg/L	422.28 ppb	12:01:12
3	Be 313.107†	2809.7	4113.4	2.1799 µg/L	2.1799 ppb	12:01:12
3	Cd 226.502†	61.3	226.3	1.3512 µg/L	1.3512 ppb	12:01:32
3	Co 228.616†	334.9	299.7	11.445 µg/L	11.445 ppb	12:01:32
3	Cr 267.716†	1236.0	1128.0	26.964 µg/L	26.964 ppb	12:01:32
3	Cu 324.752†	9252.9	5017.9	42.714 µg/L	42.714 ppb	12:01:12
3	Mn 257.610†	616084.7	608114.7	2012.6 µg/L	2012.6 ppb	12:01:07
3	Mo 202.031†	20.4	9.6	2.5688 µg/L	2.5688 ppb	12:01:32
3	Ni 231.604†	683.4	317.0	19.764 µg/L	19.764 ppb	12:01:32
3	P 214.914†	1041.6	738.8	1310.3 µg/L	1310.3 ppb	12:01:32
3	Pb 220.353†	283.8	245.9	72.697 µg/L	72.697 ppb	12:01:32
3	S 181.975 Axial†	503.7	474.0	1633.4 µg/L	1633.4 ppb	12:01:32
3	Sb 206.836†	25.0	-1.6	-2.1835 µg/L	-2.1835 ppb	12:01:32
3	Se 196.026†	-16.6	-36.4	84.761 µg/L	84.761 ppb	12:01:32
3	SiO2†	209347.8	203746.0	39561 µg/L	39561 ppb	12:01:07
3	Si 251.611†	255553.7	251552.7	18361 µg/L	18361 ppb	12:01:07
3	Sn 189.927†	-29.9	-25.8	-9.1417 µg/L	-9.1417 ppb	12:01:32
3	Ti 334.940†	482062.0	475903.6	1204.0 µg/L	1204.0 ppb	12:01:07
3	Tl 190.801†	-39.2	-8.1	13.226 µg/L	13.226 ppb	12:01:32
3	U 409.014†	-396.3	-371.3	-42.832 µg/L	-42.832 ppb	12:01:12
3	V 292.402†	4851.9	4652.1	54.877 µg/L	54.877 ppb	12:01:12
3	Zn 213.857†	10335.1	9643.4	236.36 µg/L	236.36 ppb	12:01:12

Mean Data: 247359001|955145|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1877576.7	101.92 %	%	0.443			0.43%
Sc RADIAL	87456.3	102 %	%	0.4			0.41%
Y 371.029	1316843.5	102.85 %	%	0.578			0.56%
Ag 328.068†	-350.9	0.5085 µg/L	µg/L	0.37978	0.5085 ppb	0.37978	74.69%
Al 396.153Radial†	51621.2	27069 µg/L	µg/L	51.4	27069 ppb	51.4	0.19%
As 188.979†	11.3	10.608 µg/L	µg/L	3.4579	10.608 ppb	3.4579	32.60%
B 249.677†	740.4	15.308 µg/L	µg/L	1.0675	15.308 ppb	1.0675	6.97%
Ba 233.527†	18152.4	430.16 µg/L	µg/L	7.196	430.16 ppb	7.196	1.67%
Be 313.107†	4247.9	2.2601 µg/L	µg/L	0.07430	2.2601 ppb	0.07430	3.29%
Ca 317.933Radial†	53288.1	21353 µg/L	µg/L	39.2	21353 ppb	39.2	0.18%
Cd 226.502†	250.1	1.9889 µg/L	µg/L	0.56659	1.9889 ppb	0.56659	28.49%
Co 228.616†	318.0	12.265 µg/L	µg/L	0.7955	12.265 ppb	0.7955	6.49%
Cr 267.716†	1230.5	29.412 µg/L	µg/L	2.1317	29.412 ppb	2.1317	7.25%
Cu 324.752†	5086.0	43.169 µg/L	µg/L	0.4542	43.169 ppb	0.4542	1.05%
Fe 238.204 Radial†	3239.4	40507 µg/L	µg/L	149.8	40507 ppb	149.8	0.37%
K 766.490 Radial†	12644.2	6255.1 µg/L	µg/L	28.06	6255.1 ppb	28.06	0.45%
Mg 279.077 IEC†	497.7	6957.3 µg/L	µg/L	55.33	6957.3 ppb	55.33	0.80%
Mn 257.610†	614752.5	2034.6 µg/L	µg/L	19.01	2034.6 ppb	19.01	0.93%
Mo 202.031†	7.3	2.3201 µg/L	µg/L	0.31038	2.3201 ppb	0.31038	13.38%
Na 589.592 Radial†	608.2	300.76 µg/L	µg/L	2.955	300.76 ppb	2.955	0.98%

Ni 231.604†	341.1	21.226 µg/L	1.3115	21.226 ppb	1.3115	6.18%
P 214.914†	808.7	1436.9 µg/L	109.95	1436.9 ppb	109.95	7.65%
Pb 220.353†	255.7	75.496 µg/L	4.1888	75.496 ppb	4.1888	5.55%
S 181.975 Axial†	510.1	1757.7 µg/L	108.25	1757.7 ppb	108.25	6.16%
Sb 206.836†	-5.4	-5.8301 µg/L	4.62237	-5.8301 ppb	4.62237	79.28%
Se 196.026†	-35.6	85.196 µg/L	4.3104	85.196 ppb	4.3104	5.06%
SiO2†	206126.9	40024 µg/L	410.4	40024 ppb	410.4	1.03%
Si 251.611†	254626.5	18585 µg/L	197.9	18585 ppb	197.9	1.06%
Sn 189.927†	-32.1	-11.851 µg/L	2.5399	-11.851 ppb	2.5399	21.43%
Sr 421.552†	19095.3	119.42 µg/L	0.199	119.42 ppb	0.199	0.17%
Ti 334.940†	482144.9	1219.8 µg/L	13.75	1219.8 ppb	13.75	1.13%
Tl 190.801†	-7.6	13.922 µg/L	2.4352	13.922 ppb	2.4352	17.49%
U 409.014†	-351.2	-40.863 µg/L	1.8199	-40.863 ppb	1.8199	4.45%
V 292.402†	4813.6	56.980 µg/L	1.8213	56.980 ppb	1.8213	3.20%
Zn 213.857†	9850.5	241.49 µg/L	4.707	241.49 ppb	4.707	1.95%

Sequence No.: 38

Sample ID: 247359002|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 332

Date Collected: 3/17/2010 12:01:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247359002|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86952.2	86952.2	101 %		12:02:10
1	Al 396.153Radial†	40349.5	39906.1	20926 µg/L	20926 ppb	12:02:10
1	Ca 317.933Radial†	73407.8	72087.3	28886 µg/L	28886 ppb	12:02:10
1	Fe 238.204 Radial†	2392.7	2347.3	29352 µg/L	29352 ppb	12:02:30
1	K 766.490 Radial†	12225.4	11938.6	5906.0 µg/L	5906.0 ppb	12:02:10
1	Mg 279.077 IEC†	457.7	442.2	6188.9 µg/L	6188.9 ppb	12:02:30
1	Na 589.592 Radial†	869.2	696.0	344.19 µg/L	344.19 ppb	12:02:10
1	Sr 421.552†	28887.0	28373.7	177.45 µg/L	177.45 ppb	12:02:10
1	Sc 361.383	1850698.7	1850698.7	100.46 %		12:03:35
1	Y 371.029	1293641.2	1293641.2	101.04 %		12:03:35
1	Ag 328.068†	-764.9	-247.6	0.4868 µg/L	0.4868 ppb	12:03:40
1	As 188.979†	6.2	7.9	5.4833 µg/L	5.4833 ppb	12:04:01
1	B 249.677†	1252.5	914.0	29.691 µg/L	29.691 ppb	12:03:40
1	Ba 233.527†	24498.5	24404.9	578.28 µg/L	578.28 ppb	12:03:40
1	Be 313.107†	1885.6	3220.2	1.6317 µg/L	1.6317 ppb	12:03:40
1	Cd 226.502†	42.0	207.6	2.1457 µg/L	2.1457 ppb	12:04:01
1	Co 228.616†	330.4	298.3	11.517 µg/L	11.517 ppb	12:04:01
1	Cr 267.716†	2076.7	1976.6	47.216 µg/L	47.216 ppb	12:04:01
1	Cu 324.752†	9296.3	5148.9	41.511 µg/L	41.511 ppb	12:03:40
1	Mn 257.610†	547142.6	545339.4	1804.5 µg/L	1804.5 ppb	12:03:35
1	Mo 202.031†	23.0	12.4	2.4443 µg/L	2.4443 ppb	12:04:01
1	Ni 231.604†	827.5	466.9	28.721 µg/L	28.721 ppb	12:04:01
1	P 214.914†	1308.6	1014.5	1817.2 µg/L	1817.2 ppb	12:04:01
1	Pb 220.353†	373.7	338.1	98.272 µg/L	98.272 ppb	12:04:01
1	S 181.975 Axial†	670.9	645.2	2223.3 µg/L	2223.3 ppb	12:04:01
1	Sb 206.836†	29.7	3.3	2.2783 µg/L	2.2783 ppb	12:04:01
1	Se 196.026†	-7.1	-27.0	58.249 µg/L	58.249 ppb	12:04:01
1	SiO2†	260715.8	256864.4	49875 µg/L	49875 ppb	12:03:35
1	Si 251.611†	319192.2	317323.6	23162 µg/L	23162 ppb	12:03:35
1	Sn 189.927†	-41.0	-37.1	-13.256 µg/L	-13.256 ppb	12:04:01
1	Ti 334.940†	451689.7	450247.9	1139.3 µg/L	1139.3 ppb	12:03:35
1	Tl 190.801†	-31.6	-0.9	16.010 µg/L	16.010 ppb	12:04:01
1	U 409.014†	-213.2	-192.8	-24.471 µg/L	-24.471 ppb	12:03:40
1	V 292.402†	4352.7	4201.2	50.555 µg/L	50.555 ppb	12:03:40
1	Zn 213.857†	7608.1	7027.0	172.10 µg/L	172.10 ppb	12:03:40
2	Sc RADIAL	86089.9	86089.9	100 %		12:02:36
2	Al 396.153Radial†	40237.8	40193.5	21077 µg/L	21077 ppb	12:02:36
2	Ca 317.933Radial†	72919.5	72326.2	28982 µg/L	28982 ppb	12:02:36
2	Fe 238.204 Radial†	2384.7	2363.0	29548 µg/L	29548 ppb	12:02:57
2	K 766.490 Radial†	12223.6	12057.6	5964.9 µg/L	5964.9 ppb	12:02:36
2	Mg 279.077 IEC†	456.5	445.6	6235.6 µg/L	6235.6 ppb	12:02:57
2	Na 589.592 Radial†	880.1	715.5	353.79 µg/L	353.79 ppb	12:02:36
2	Sr 421.552†	28741.9	28514.5	178.33 µg/L	178.33 ppb	12:02:36
2	Sc 361.383	1844203.0	1844203.0	100.11 %		12:04:08
2	Y 371.029	1288266.4	1288266.4	100.62 %		12:04:08
2	Ag 328.068†	-781.8	-267.2	0.3338 µg/L	0.3338 ppb	12:04:13
2	As 188.979†	11.1	12.8	13.284 µg/L	13.284 ppb	12:04:34
2	B 249.677†	1251.4	917.3	29.750 µg/L	29.750 ppb	12:04:13
2	Ba 233.527†	24500.3	24492.5	580.35 µg/L	580.35 ppb	12:04:13
2	Be 313.107†	1899.9	3241.2	1.6459 µg/L	1.6459 ppb	12:04:13
2	Cd 226.502†	39.9	205.6	2.0701 µg/L	2.0701 ppb	12:04:34
2	Co 228.616†	327.6	296.7	11.446 µg/L	11.446 ppb	12:04:34
2	Cr 267.716†	2086.5	1993.6	47.623 µg/L	47.623 ppb	12:04:34
2	Cu 324.752†	9239.9	5125.2	41.382 µg/L	41.382 ppb	12:04:13
2	Mn 257.610†	544100.4	544218.9	1800.8 µg/L	1800.8 ppb	12:04:08
2	Mo 202.031†	27.7	17.1	2.9560 µg/L	2.9560 ppb	12:04:34
2	Ni 231.604†	816.1	458.4	28.209 µg/L	28.209 ppb	12:04:34
2	P 214.914†	1303.8	1014.2	1816.5 µg/L	1816.5 ppb	12:04:34
2	Pb 220.353†	381.4	347.1	100.85 µg/L	100.85 ppb	12:04:34

2	S 181.975 Axial†	663.1	639.7	2204.5 µg/L	2204.5 ppb	12:04:34
2	Sb 206.836†	18.5	-7.8	-8.4610 µg/L	-8.4610 ppb	12:04:34
2	Se 196.026†	-9.8	-29.8	56.070 µg/L	56.070 ppb	12:04:34
2	SiO2†	259157.3	256221.7	49751 µg/L	49751 ppb	12:04:08
2	Si 251.611†	317231.7	316484.4	23100 µg/L	23100 ppb	12:04:08
2	Sn 189.927†	-51.1	-47.3	-17.626 µg/L	-17.626 ppb	12:04:34
2	Ti 334.940†	449288.5	449433.0	1137.2 µg/L	1137.2 ppb	12:04:08
2	Tl 190.801†	-34.5	-3.9	12.805 µg/L	12.805 ppb	12:04:34
2	U 409.014†	-216.5	-196.9	-24.898 µg/L	-24.898 ppb	12:04:13
2	V 292.402†	4340.5	4204.3	50.574 µg/L	50.574 ppb	12:04:13
2	Zn 213.857†	7628.3	7073.9	173.25 µg/L	173.25 ppb	12:04:13
3	Sc RADIAL	87003.6	87003.6	101 %		12:03:02
3	Al 396.153Radial†	40601.9	40131.4	21044 µg/L	21044 ppb	12:03:02
3	Ca 317.933Radial†	73575.7	72210.2	28935 µg/L	28935 ppb	12:03:02
3	Fe 238.204 Radial†	2395.0	2348.2	29363 µg/L	29363 ppb	12:03:22
3	K 766.490 Radial†	12314.5	12019.3	5945.9 µg/L	5945.9 ppb	12:03:02
3	Mg 279.077 IEC†	458.5	442.8	6196.8 µg/L	6196.8 ppb	12:03:22
3	Na 589.592 Radial†	776.7	604.4	298.86 µg/L	298.86 ppb	12:03:02
3	Sr 421.552†	29092.3	28559.3	178.61 µg/L	178.61 ppb	12:03:02
3	Sc 361.383	1842890.2	1842890.2	100.04 %		12:04:41
3	Y 371.029	1287707.6	1287707.6	100.57 %		12:04:41
3	Ag 328.068†	-724.2	-210.1	0.7941 µg/L	0.7941 ppb	12:04:47
3	As 188.979†	7.8	9.5	8.1060 µg/L	8.1060 ppb	12:05:07
3	B 249.677†	1248.2	915.0	29.727 µg/L	29.727 ppb	12:04:47
3	Ba 233.527†	23776.3	23786.2	563.62 µg/L	563.62 ppb	12:04:47
3	Be 313.107†	1620.2	2962.9	1.4777 µg/L	1.4777 ppb	12:04:47
3	Cd 226.502†	28.7	194.5	1.7971 µg/L	1.7971 ppb	12:05:07
3	Co 228.616†	305.7	275.0	10.493 µg/L	10.493 ppb	12:05:07
3	Cr 267.716†	1912.6	1821.3	43.508 µg/L	43.508 ppb	12:05:07
3	Cu 324.752†	9150.0	5041.8	40.765 µg/L	40.765 ppb	12:04:47
3	Mn 257.610†	533032.5	533542.4	1765.5 µg/L	1765.5 ppb	12:04:41
3	Mo 202.031†	19.3	8.7	2.0513 µg/L	2.0513 ppb	12:05:07
3	Ni 231.604†	781.6	424.6	26.152 µg/L	26.152 ppb	12:05:07
3	P 214.914†	1233.7	945.0	1691.5 µg/L	1691.5 ppb	12:05:07
3	Pb 220.353†	361.0	326.9	95.106 µg/L	95.106 ppb	12:05:07
3	S 181.975 Axial†	633.3	610.4	2103.4 µg/L	2103.4 ppb	12:05:07
3	Sb 206.836†	22.6	-3.7	-4.4651 µg/L	-4.4651 ppb	12:05:07
3	Se 196.026†	-6.7	-26.6	58.695 µg/L	58.695 ppb	12:05:07
3	SiO2†	254874.6	252125.1	48955 µg/L	48955 ppb	12:04:41
3	Si 251.611†	311721.6	311202.2	22715 µg/L	22715 ppb	12:04:41
3	Sn 189.927†	-35.8	-32.1	-11.082 µg/L	-11.082 ppb	12:05:07
3	Ti 334.940†	438273.3	438741.8	1110.2 µg/L	1110.2 ppb	12:04:41
3	Tl 190.801†	-33.0	-2.4	13.957 µg/L	13.957 ppb	12:05:07
3	U 409.014†	-226.7	-207.2	-25.864 µg/L	-25.864 ppb	12:04:47
3	V 292.402†	4146.6	4013.7	48.121 µg/L	48.121 ppb	12:04:47
3	Zn 213.857†	7367.5	6818.6	166.95 µg/L	166.95 ppb	12:04:47

Mean Data: 247359002|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1845930.7	100.20 %	0.227			0.23%
Sc RADIAL	86681.9	101 %	0.6			0.59%
Y 371.029	1289871.7	100.74 %	0.256			0.25%
Ag 328.068†	-241.6	0.5382 µg/L	0.23440	0.5382 ppb	0.23440	43.55%
Al 396.153Radial†	40077.0	21016 µg/L	79.3	21016 ppb	79.3	0.38%
As 188.979†	10.0	8.9578 µg/L	3.96955	8.9578 ppb	3.96955	44.31%
B 249.677†	915.4	29.722 µg/L	0.0298	29.722 ppb	0.0298	0.10%
Ba 233.527†	24227.9	574.08 µg/L	9.123	574.08 ppb	9.123	1.59%
Be 313.107†	3141.5	1.5851 µg/L	0.09326	1.5851 ppb	0.09326	5.88%
Ca 317.933Radial†	72207.9	28934 µg/L	47.9	28934 ppb	47.9	0.17%
Cd 226.502†	202.6	2.0043 µg/L	0.18337	2.0043 ppb	0.18337	9.15%
Co 228.616†	290.0	11.152 µg/L	0.5716	11.152 ppb	0.5716	5.13%
Cr 267.716†	1930.5	46.116 µg/L	2.2678	46.116 ppb	2.2678	4.92%
Cu 324.752†	5105.3	41.220 µg/L	0.3990	41.220 ppb	0.3990	0.97%
Fe 238.204 Radial†	2352.8	29421 µg/L	110.4	29421 ppb	110.4	0.38%
K 766.490 Radial†	12005.2	5938.9 µg/L	30.05	5938.9 ppb	30.05	0.51%
Mg 279.077 IEC†	443.5	6207.1 µg/L	25.00	6207.1 ppb	25.00	0.40%
Mn 257.610†	541033.6	1790.2 µg/L	21.53	1790.2 ppb	21.53	1.20%
Mo 202.031†	12.7	2.4839 µg/L	0.45364	2.4839 ppb	0.45364	18.26%
Na 589.592 Radial†	672.0	332.28 µg/L	29.338	332.28 ppb	29.338	8.83%

Ni 231.604†	450.0	27.694 µg/L	1.3599	27.694 ppb	1.3599	4.91%
P 214.914†	991.2	1775.1 µg/L	72.40	1775.1 ppb	72.40	4.08%
Pb 220.353†	337.4	98.076 µg/L	2.8780	98.076 ppb	2.8780	2.93%
S 181.975 Axial†	631.8	2177.1 µg/L	64.47	2177.1 ppb	64.47	2.96%
Sb 206.836†	-2.7	-3.5493 µg/L	5.42791	-3.5493 ppb	5.42791	152.93%
Se 196.026†	-27.8	57.671 µg/L	1.4044	57.671 ppb	1.4044	2.44%
SiO2†	255070.4	49527 µg/L	499.2	49527 ppb	499.2	1.01%
Si 251.611†	315003.4	22992 µg/L	242.2	22992 ppb	242.2	1.05%
Sn 189.927†	-38.8	-13.988 µg/L	3.3330	-13.988 ppb	3.3330	23.83%
Sr 421.552†	28482.5	178.13 µg/L	0.606	178.13 ppb	0.606	0.34%
Ti 334.940†	446140.9	1128.9 µg/L	16.25	1128.9 ppb	16.25	1.44%
Tl 190.801†	-2.4	14.257 µg/L	1.6240	14.257 ppb	1.6240	11.39%
U 409.014†	-198.9	-25.078 µg/L	0.7137	-25.078 ppb	0.7137	2.85%
V 292.402†	4139.7	49.750 µg/L	1.4105	49.750 ppb	1.4105	2.84%
Zn 213.857†	6973.2	170.77 µg/L	3.355	170.77 ppb	3.355	1.96%

Sequence No.: 39
 Sample ID: 247359003|955145|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 333
 Date Collected: 3/17/2010 12:05:16
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247359003|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86958.3	86958.3	101 %		12:05:47
1	Al 396.153Radial†	90555.2	89421.8	46891 µg/L	46891 ppb	12:05:47
1	Ca 317.933Radial†	42923.4	42015.3	16836 µg/L	16836 ppb	12:05:47
1	Fe 238.204 Radial†	7320.1	7207.1	90122 µg/L	90122 ppb	12:06:07
1	K 766.490 Radial†	19040.0	18659.1	9230.6 µg/L	9230.6 ppb	12:05:47
1	Mg 279.077 IEC†	702.3	683.5	9517.1 µg/L	9517.1 ppb	12:06:07
1	Na 589.592 Radial†	1447.1	1266.0	626.01 µg/L	626.01 ppb	12:05:47
1	Sr 421.552†	23417.4	22976.9	143.70 µg/L	143.70 ppb	12:05:47
1	Sc 361.383	1856607.4	1856607.4	100.78 %		12:07:13
1	Y 371.029	1335861.4	1335861.4	104.33 %		12:07:13
1	Ag 328.068†	-1444.8	-919.7	-0.0636 µg/L	-0.0636 ppb	12:07:18
1	As 188.979†	14.5	16.1	12.630 µg/L	12.630 ppb	12:07:39
1	B 249.677†	1213.6	871.5	-3.9514 µg/L	-3.9514 ppb	12:07:18
1	Ba 233.527†	26881.0	26691.2	632.59 µg/L	632.59 ppb	12:07:18
1	Be 313.107†	9732.6	11000.2	5.8818 µg/L	5.8818 ppb	12:07:18
1	Cd 226.502†	330.6	493.8	2.8213 µg/L	2.8213 ppb	12:07:39
1	Co 228.616†	736.8	700.6	26.196 µg/L	26.196 ppb	12:07:39
1	Cr 267.716†	6271.8	6132.5	146.47 µg/L	146.47 ppb	12:07:18
1	Cu 324.752†	7436.9	3274.6	39.833 µg/L	39.833 ppb	12:07:18
1	Mn 257.610†	831145.5	825399.0	2733.8 µg/L	2733.8 ppb	12:07:13
1	Mo 202.031†	46.7	35.8	7.2591 µg/L	7.2591 ppb	12:07:39
1	Ni 231.604†	1713.9	1343.8	82.747 µg/L	82.747 ppb	12:07:39
1	P 214.914†	806.9	512.4	866.63 µg/L	866.63 ppb	12:07:39
1	Pb 220.353†	281.2	245.0	74.894 µg/L	74.894 ppb	12:07:39
1	S 181.975 Axial†	178.3	154.3	531.55 µg/L	531.55 ppb	12:07:39
1	Sb 206.836†	17.2	-9.2	-10.756 µg/L	-10.756 ppb	12:07:39
1	Se 196.026†	-53.0	-72.6	203.84 µg/L	203.84 ppb	12:07:39
1	SiO2†	425456.4	419497.1	81454 µg/L	81454 ppb	12:07:13
1	Si 251.611†	521470.8	517017.0	37737 µg/L	37737 ppb	12:07:13
1	Sn 189.927†	-44.0	-39.9	-15.882 µg/L	-15.882 ppb	12:07:39
1	Ti 334.940†	1227427.1	1218517.8	3082.9 µg/L	3082.9 ppb	12:07:13
1	Tl 190.801†	-55.2	-24.1	24.378 µg/L	24.378 ppb	12:07:39
1	U 409.014†	-1349.5	-1319.6	-141.06 µg/L	-141.06 ppb	12:07:13
1	V 292.402†	10925.8	10709.4	126.90 µg/L	126.90 ppb	12:07:18
1	Zn 213.857†	15390.0	14724.2	359.44 µg/L	359.44 ppb	12:07:18
2	Sc RADIAL	87063.6	87063.6	102 %		12:06:13
2	Al 396.153Radial†	91045.1	89796.4	47088 µg/L	47088 ppb	12:06:13
2	Ca 317.933Radial†	43140.4	42177.8	16901 µg/L	16901 ppb	12:06:13
2	Fe 238.204 Radial†	7281.3	7160.2	89534 µg/L	89534 ppb	12:06:33
2	K 766.490 Radial†	19279.3	18872.1	9336.0 µg/L	9336.0 ppb	12:06:13
2	Mg 279.077 IEC†	698.6	679.0	9454.0 µg/L	9454.0 ppb	12:06:33
2	Na 589.592 Radial†	1384.3	1202.4	594.58 µg/L	594.58 ppb	12:06:13
2	Sr 421.552†	23488.3	23018.8	143.96 µg/L	143.96 ppb	12:06:13
2	Sc 361.383	1860201.6	1860201.6	100.98 %		12:07:47
2	Y 371.029	1338858.8	1338858.8	104.57 %		12:07:47
2	Ag 328.068†	-1360.2	-833.2	0.6388 µg/L	0.6388 ppb	12:07:52
2	As 188.979†	11.7	13.3	8.1816 µg/L	8.1816 ppb	12:08:13
2	B 249.677†	1225.6	881.0	-3.1774 µg/L	-3.1774 ppb	12:07:52
2	Ba 233.527†	26809.8	26569.2	629.70 µg/L	629.70 ppb	12:07:52
2	Be 313.107†	9794.0	11042.4	5.9076 µg/L	5.9076 ppb	12:07:52
2	Cd 226.502†	318.4	481.1	2.5541 µg/L	2.5541 ppb	12:08:13
2	Co 228.616†	732.3	694.7	25.916 µg/L	25.916 ppb	12:08:13
2	Cr 267.716†	6273.3	6121.9	146.22 µg/L	146.22 ppb	12:07:52
2	Cu 324.752†	7485.8	3308.6	39.961 µg/L	39.961 ppb	12:07:52
2	Mn 257.610†	834106.5	826737.9	2738.2 µg/L	2738.2 ppb	12:07:47
2	Mo 202.031†	51.0	40.0	7.6863 µg/L	7.6863 ppb	12:08:13
2	Ni 231.604†	1701.3	1328.1	81.783 µg/L	81.783 ppb	12:08:13
2	P 214.914†	779.1	483.5	814.60 µg/L	814.60 ppb	12:08:13
2	Pb 220.353†	281.4	244.8	74.822 µg/L	74.822 ppb	12:08:13

2	S 181.975 Axial†	181.4	157.0	541.02 µg/L	541.02 ppb	12:08:13
2	Sb 206.836†	20.2	-6.3	-7.9030 µg/L	-7.9030 ppb	12:08:13
2	Se 196.026†	-61.5	-80.9	193.58 µg/L	193.58 ppb	12:08:13
2	SiO2†	426432.8	419648.4	81483 µg/L	81483 ppb	12:07:47
2	Si 251.611†	522747.7	517281.8	37757 µg/L	37757 ppb	12:07:47
2	Sn 189.927†	-41.7	-37.5	-14.858 µg/L	-14.858 ppb	12:08:13
2	Ti 334.940†	1231107.5	1219809.4	3086.1 µg/L	3086.1 ppb	12:07:47
2	Tl 190.801†	-57.7	-26.6	21.749 µg/L	21.749 ppb	12:08:13
2	U 409.014†	-1337.4	-1305.1	-139.58 µg/L	-139.58 ppb	12:07:47
2	V 292.402†	10986.9	10749.0	127.49 µg/L	127.49 ppb	12:07:52
2	Zn 213.857†	15398.0	14702.7	358.94 µg/L	358.94 ppb	12:07:52
3	Sc RADIAL	87288.8	87288.8	102 %		12:06:39
3	Al 396.153Radial†	91431.4	89944.5	47165 µg/L	47165 ppb	12:06:39
3	Ca 317.933Radial†	43310.6	42235.4	16924 µg/L	16924 ppb	12:06:39
3	Fe 238.204 Radial†	7343.5	7202.8	90067 µg/L	90067 ppb	12:06:59
3	K 766.490 Radial†	19385.8	18927.7	9363.5 µg/L	9363.5 ppb	12:06:39
3	Mg 279.077 IEC†	697.8	676.4	9417.1 µg/L	9417.1 ppb	12:06:59
3	Na 589.592 Radial†	1426.7	1240.5	613.41 µg/L	613.41 ppb	12:06:39
3	Sr 421.552†	23635.6	23103.8	144.49 µg/L	144.49 ppb	12:06:39
3	Sc 361.383	1843550.3	1843550.3	100.08 %		12:08:21
3	Y 371.029	1325483.2	1325483.2	103.52 %		12:08:21
3	Ag 328.068†	-1364.7	-849.8	0.4875 µg/L	0.4875 ppb	12:08:26
3	As 188.979†	10.5	12.2	6.3094 µg/L	6.3094 ppb	12:08:47
3	B 249.677†	1158.1	824.6	-6.2428 µg/L	-6.2428 ppb	12:08:26
3	Ba 233.527†	25607.2	25607.2	606.90 µg/L	606.90 ppb	12:08:26
3	Be 313.107†	9186.8	10523.2	5.6140 µg/L	5.6140 ppb	12:08:26
3	Cd 226.502†	274.7	440.3	1.4199 µg/L	1.4199 ppb	12:08:47
3	Co 228.616†	661.3	630.3	23.134 µg/L	23.134 ppb	12:08:47
3	Cr 267.716†	5889.5	5794.5	138.40 µg/L	138.40 ppb	12:08:26
3	Cu 324.752†	7358.3	3248.3	39.639 µg/L	39.639 ppb	12:08:26
3	Mn 257.610†	802417.8	802533.9	2658.2 µg/L	2658.2 ppb	12:08:21
3	Mo 202.031†	49.0	38.5	7.5449 µg/L	7.5449 ppb	12:08:47
3	Ni 231.604†	1602.4	1244.4	76.714 µg/L	76.714 ppb	12:08:47
3	P 214.914†	762.9	474.2	797.46 µg/L	797.46 ppb	12:08:47
3	Pb 220.353†	243.8	209.7	64.856 µg/L	64.856 ppb	12:08:47
3	S 181.975 Axial†	170.8	148.0	510.01 µg/L	510.01 ppb	12:08:47
3	Sb 206.836†	17.6	-8.7	-10.148 µg/L	-10.148 ppb	12:08:47
3	Se 196.026†	-47.7	-67.6	208.81 µg/L	208.81 ppb	12:08:47
3	SiO2†	413454.3	410493.9	79706 µg/L	79706 ppb	12:08:21
3	Si 251.611†	506837.5	506059.4	36938 µg/L	36938 ppb	12:08:21
3	Sn 189.927†	-32.5	-28.7	-11.075 µg/L	-11.075 ppb	12:08:47
3	Ti 334.940†	1179165.7	1178918.5	2982.7 µg/L	2982.7 ppb	12:08:21
3	Tl 190.801†	-62.5	-31.9	14.932 µg/L	14.932 ppb	12:08:47
3	U 409.014†	-1346.1	-1325.6	-141.64 µg/L	-141.64 ppb	12:08:21
3	V 292.402†	10314.9	10175.7	120.01 µg/L	120.01 ppb	12:08:26
3	Zn 213.857†	14741.0	14183.9	346.09 µg/L	346.09 ppb	12:08:26

Mean Data: 247359003|955145|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1853453.1	100.61 %	%	0.476			0.47%
Sc RADIAL	87103.6	102 %	%	0.2			0.19%
Y 371.029	1333401.1	104.14 %	%	0.548			0.53%
Ag 328.068†	-867.6	0.3542 µg/L	µg/L	0.36969	0.3542 ppb	0.36969	104.37%
Al 396.153Radial†	89720.9	47048 µg/L	µg/L	141.3	47048 ppb	141.3	0.30%
As 188.979†	13.8	9.0403 µg/L	µg/L	3.24657	9.0403 ppb	3.24657	35.91%
B 249.677†	859.0	-4.4572 µg/L	µg/L	1.59406	-4.4572 ppb	1.59406	35.76%
Ba 233.527†	26289.2	623.07 µg/L	µg/L	14.074	623.07 ppb	14.074	2.26%
Be 313.107†	10855.3	5.8011 µg/L	µg/L	0.16257	5.8011 ppb	0.16257	2.80%
Ca 317.933Radial†	42142.8	16887 µg/L	µg/L	45.7	16887 ppb	45.7	0.27%
Cd 226.502†	471.7	2.2651 µg/L	µg/L	0.74408	2.2651 ppb	0.74408	32.85%
Co 228.616†	675.2	25.082 µg/L	µg/L	1.6930	25.082 ppb	1.6930	6.75%
Cr 267.716†	6016.3	143.70 µg/L	µg/L	4.589	143.70 ppb	4.589	3.19%
Cu 324.752†	3277.2	39.811 µg/L	µg/L	0.1621	39.811 ppb	0.1621	0.41%
Fe 238.204 Radial†	7190.0	89908 µg/L	µg/L	324.4	89908 ppb	324.4	0.36%
K 766.490 Radial†	18819.7	9310.1 µg/L	µg/L	70.14	9310.1 ppb	70.14	0.75%
Mg 279.077 IEC†	679.6	9462.7 µg/L	µg/L	50.59	9462.7 ppb	50.59	0.53%
Mn 257.610†	818223.6	2710.1 µg/L	µg/L	44.97	2710.1 ppb	44.97	1.66%
Mo 202.031†	38.1	7.4968 µg/L	µg/L	0.21765	7.4968 ppb	0.21765	2.90%
Na 589.592 Radial†	1236.3	611.33 µg/L	µg/L	15.821	611.33 ppb	15.821	2.59%

Ni 231.604†	1305.4	80.415 µg/L	3.2410	80.415 ppb	3.2410	4.03%
P 214.914†	490.0	826.23 µg/L	36.026	826.23 ppb	36.026	4.36%
Pb 220.353†	233.2	71.524 µg/L	5.7746	71.524 ppb	5.7746	8.07%
S 181.975 Axial†	153.1	527.53 µg/L	15.893	527.53 ppb	15.893	3.01%
Sb 206.836†	-8.0	-9.6022 µg/L	1.50271	-9.6022 ppb	1.50271	15.65%
Se 196.026†	-73.7	202.08 µg/L	7.764	202.08 ppb	7.764	3.84%
SiO2†	416546.5	80881 µg/L	1017.9	80881 ppb	1017.9	1.26%
Si 251.611†	513452.7	37477 µg/L	467.4	37477 ppb	467.4	1.25%
Sn 189.927†	-35.4	-13.938 µg/L	2.5317	-13.938 ppb	2.5317	18.16%
Sr 421.552†	23033.2	144.05 µg/L	0.404	144.05 ppb	0.404	0.28%
Ti 334.940†	1205748.6	3050.6 µg/L	58.81	3050.6 ppb	58.81	1.93%
Tl 190.801†	-27.6	20.353 µg/L	4.8754	20.353 ppb	4.8754	23.95%
U 409.014†	-1316.8	-140.76 µg/L	1.064	-140.76 ppb	1.064	0.76%
V 292.402†	10544.7	124.80 µg/L	4.160	124.80 ppb	4.160	3.33%
Zn 213.857†	14536.9	354.83 µg/L	7.565	354.83 ppb	7.565	2.13%

Sequence No.: 40

Sample ID: 247359004|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 334

Date Collected: 3/17/2010 12:08:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247359004|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	87982.7	87982.7	103 %		12:09:27
1	Al 396.153Radial†	205857.4	200781.7	105290 µg/L	105290 ppb	12:09:27
1	Ca 317.933Radial†	152398.5	148241.7	59402 µg/L	59402 ppb	12:09:27
1	Fe 238.204 Radial†	10054.8	9788.9	122410 µg/L	122410 ppb	12:09:47
1	K 766.490 Radial†	41082.7	39928.3	19752 µg/L	19752 ppb	12:09:27
1	Mg 279.077 IEC†	1722.6	1670.0	23358 µg/L	23358 ppb	12:09:47
1	Na 589.592 Radial†	2170.9	1954.9	966.67 µg/L	966.67 ppb	12:09:47
1	Sr 421.552†	77718.6	75642.4	473.07 µg/L	473.07 ppb	12:09:27
1	Sc 361.383	1851565.8	1851565.8	100.51 %		12:10:52
1	Y 371.029	1322670.4	1322670.4	103.30 %		12:10:52
1	Ag 328.068†	-1759.4	-1236.6	0.5864 µg/L	0.5864 ppb	12:10:58
1	As 188.979†	30.5	32.1	29.101 µg/L	29.101 ppb	12:11:18
1	B 249.677†	1974.8	1632.1	16.541 µg/L	16.541 ppb	12:10:58
1	Ba 233.527†	62958.3	62657.8	1484.9 µg/L	1484.9 ppb	12:10:58
1	Be 313.107†	13254.9	14530.9	7.8341 µg/L	7.8341 ppb	12:10:58
1	Cd 226.502†	527.9	691.0	4.3303 µg/L	4.3303 ppb	12:11:18
1	Co 228.616†	1338.6	1301.3	52.460 µg/L	52.460 ppb	12:11:18
1	Cr 267.716†	4878.4	4763.1	113.87 µg/L	113.87 ppb	12:11:18
1	Cu 324.752†	11596.1	7432.7	74.970 µg/L	74.970 ppb	12:10:58
1	Mn 257.610†	1005671.5	1001284.0	3316.4 µg/L	3316.4 ppb	12:10:52
1	Mo 202.031†	6.4	-4.1	4.2110 µg/L	4.2110 ppb	12:11:18
1	Ni 231.604†	1650.9	1285.8	79.608 µg/L	79.608 ppb	12:11:18
1	P 214.914†	1959.7	1661.7	2937.2 µg/L	2937.2 ppb	12:11:18
1	Pb 220.353†	373.9	338.1	106.22 µg/L	106.22 ppb	12:11:18
1	S 181.975 Axial†	226.0	202.2	696.81 µg/L	696.81 ppb	12:11:18
1	Sb 206.836†	18.9	-7.4	-9.3846 µg/L	-9.3846 ppb	12:11:18
1	Se 196.026†	-76.9	-96.5	267.61 µg/L	267.61 ppb	12:11:18
1	SiO2†	509591.2	504354.0	97931 µg/L	97931 ppb	12:10:52
1	Si 251.611†	625312.8	621740.4	45381 µg/L	45381 ppb	12:10:52
1	Sn 189.927†	-86.6	-82.4	-30.098 µg/L	-30.098 ppb	12:11:18
1	Ti 334.940†	1549986.0	1542754.3	3902.9 µg/L	3902.9 ppb	12:10:52
1	Tl 190.801†	-55.5	-24.6	33.069 µg/L	33.069 ppb	12:11:18
1	U 409.014†	-1184.7	-1159.2	-132.65 µg/L	-132.65 ppb	12:10:58
1	V 292.402†	21422.7	21182.5	257.80 µg/L	257.80 ppb	12:10:58
1	Zn 213.857†	13506.8	12892.2	311.72 µg/L	311.72 ppb	12:11:18
2	Sc RADIAL	87543.6	87543.6	102 %		12:09:53
2	Al 396.153Radial†	204709.8	200663.9	105220 µg/L	105220 ppb	12:09:53
2	Ca 317.933Radial†	151977.9	148574.8	59535 µg/L	59535 ppb	12:09:53
2	Fe 238.204 Radial†	10018.9	9802.9	122580 µg/L	122580 ppb	12:10:13
2	K 766.490 Radial†	41111.3	40157.2	19866 µg/L	19866 ppb	12:09:53
2	Mg 279.077 IEC†	1716.1	1672.1	23387 µg/L	23387 ppb	12:10:13
2	Na 589.592 Radial†	2160.5	1955.3	966.89 µg/L	966.89 ppb	12:10:13
2	Sr 421.552†	77518.4	75826.2	474.22 µg/L	474.22 ppb	12:09:53
2	Sc 361.383	1853345.3	1853345.3	100.61 %		12:11:26
2	Y 371.029	1324332.4	1324332.4	103.43 %		12:11:26
2	Ag 328.068†	-1733.4	-1209.1	0.8401 µg/L	0.8401 ppb	12:11:31
2	As 188.979†	30.5	32.0	29.015 µg/L	29.015 ppb	12:11:52
2	B 249.677†	1973.0	1628.4	16.268 µg/L	16.268 ppb	12:11:31
2	Ba 233.527†	63054.2	62693.0	1485.8 µg/L	1485.8 ppb	12:11:31
2	Be 313.107†	13300.2	14563.3	7.8520 µg/L	7.8520 ppb	12:11:31
2	Cd 226.502†	523.7	686.4	4.1886 µg/L	4.1886 ppb	12:11:52
2	Co 228.616†	1331.7	1293.2	52.063 µg/L	52.063 ppb	12:11:52
2	Cr 267.716†	4856.0	4736.2	113.23 µg/L	113.23 ppb	12:11:52
2	Cu 324.752†	11625.8	7451.2	75.132 µg/L	75.132 ppb	12:11:31
2	Mn 257.610†	1009787.7	1004414.6	3326.7 µg/L	3326.7 ppb	12:11:26
2	Mo 202.031†	-2.0	-12.5	3.3129 µg/L	3.3129 ppb	12:11:52
2	Ni 231.604†	1643.8	1277.1	79.083 µg/L	79.083 ppb	12:11:52
2	P 214.914†	1953.9	1654.0	2923.2 µg/L	2923.2 ppb	12:11:52
2	Pb 220.353†	391.2	354.9	111.01 µg/L	111.01 ppb	12:11:52

2	S 181.975 Axial†	223.6	199.6	687.91 µg/L	687.91 ppb	12:11:52
2	Sb 206.836†	14.4	-11.9	-13.759 µg/L	-13.759 ppb	12:11:52
2	Se 196.026†	-92.4	-111.8	252.53 µg/L	252.53 ppb	12:11:52
2	SiO2†	510592.8	504862.7	98029 µg/L	98029 ppb	12:11:26
2	Si 251.611†	626457.9	622281.2	45421 µg/L	45421 ppb	12:11:26
2	Sn 189.927†	-78.6	-74.4	-26.641 µg/L	-26.641 ppb	12:11:52
2	Ti 334.940†	1554504.2	1545764.6	3910.5 µg/L	3910.5 ppb	12:11:26
2	Tl 190.801†	-47.3	-16.4	41.870 µg/L	41.870 ppb	12:11:52
2	U 409.014†	-1196.4	-1169.8	-133.70 µg/L	-133.70 ppb	12:11:31
2	V 292.402†	21488.5	21227.5	258.35 µg/L	258.35 ppb	12:11:31
2	Zn 213.857†	13503.7	12876.2	311.31 µg/L	311.31 ppb	12:11:52
3	Sc RADIAL	87823.4	87823.4	102 %		12:10:19
3	Al 396.153Radial†	205489.9	200786.7	105290 µg/L	105290 ppb	12:10:19
3	Ca 317.933Radial†	152650.4	148757.1	59608 µg/L	59608 ppb	12:10:19
3	Fe 238.204 Radial†	10090.7	9841.7	123070 µg/L	123070 ppb	12:10:39
3	K 766.490 Radial†	41291.5	40204.8	19889 µg/L	19889 ppb	12:10:19
3	Mg 279.077 IEC†	1741.5	1691.6	23661 µg/L	23661 ppb	12:10:39
3	Na 589.592 Radial†	2198.6	1985.8	981.96 µg/L	981.96 ppb	12:10:39
3	Sr 421.552†	77637.4	75700.5	473.43 µg/L	473.43 ppb	12:10:19
3	Sc 361.383	1848500.6	1848500.6	100.34 %		12:11:59
3	Y 371.029	1321824.3	1321824.3	103.24 %		12:11:59
3	Ag 328.068†	-1748.7	-1228.8	0.6393 µg/L	0.6393 ppb	12:12:05
3	As 188.979†	29.6	31.2	27.575 µg/L	27.575 ppb	12:12:25
3	B 249.677†	1857.1	1518.1	10.575 µg/L	10.575 ppb	12:12:05
3	Ba 233.527†	61158.6	60968.2	1444.9 µg/L	1444.9 ppb	12:12:05
3	Be 313.107†	12878.7	14177.9	7.6427 µg/L	7.6427 ppb	12:12:05
3	Cd 226.502†	468.3	632.5	2.7185 µg/L	2.7185 ppb	12:12:25
3	Co 228.616†	1245.8	1211.0	48.444 µg/L	48.444 ppb	12:12:25
3	Cr 267.716†	4495.8	4389.9	104.95 µg/L	104.95 ppb	12:12:25
3	Cu 324.752†	11433.9	7290.1	74.098 µg/L	74.098 ppb	12:12:05
3	Mn 257.610†	986262.5	983600.7	3257.9 µg/L	3257.9 ppb	12:11:59
3	Mo 202.031†	4.7	-5.9	4.0458 µg/L	4.0458 ppb	12:12:25
3	Ni 231.604†	1566.4	1204.3	74.674 µg/L	74.674 ppb	12:12:25
3	P 214.914†	1861.3	1566.7	2764.7 µg/L	2764.7 ppb	12:12:25
3	Pb 220.353†	383.0	347.8	108.99 µg/L	108.99 ppb	12:12:25
3	S 181.975 Axial†	224.7	201.3	693.58 µg/L	693.58 ppb	12:12:25
3	Sb 206.836†	20.0	-6.4	-8.2614 µg/L	-8.2614 ppb	12:12:25
3	Se 196.026†	-77.6	-97.3	268.67 µg/L	268.67 ppb	12:12:25
3	SiO2†	500440.4	496075.3	96323 µg/L	96323 ppb	12:11:59
3	Si 251.611†	613762.3	611261.1	44616 µg/L	44616 ppb	12:11:59
3	Sn 189.927†	-80.2	-76.2	-27.402 µg/L	-27.402 ppb	12:12:25
3	Ti 334.940†	1510982.0	1506441.2	3811.0 µg/L	3811.0 ppb	12:11:59
3	Tl 190.801†	-48.7	-18.0	39.111 µg/L	39.111 ppb	12:12:25
3	U 409.014†	-1207.7	-1184.2	-135.16 µg/L	-135.16 ppb	12:12:05
3	V 292.402†	20623.1	20421.0	247.88 µg/L	247.88 ppb	12:12:05
3	Zn 213.857†	12699.6	12110.1	292.32 µg/L	292.32 ppb	12:12:25

Mean Data: 247359004|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1851137.2	100.49 %	0.133			0.13%
Sc RADIAL	87783.2	102 %	0.3			0.25%
Y 371.029	1322942.4	103.32 %	0.100			0.10%
Ag 328.068†	-1224.9	0.6886 µg/L	0.13386	0.6886 ppb	0.13386	19.44%
Al 396.153Radial†	200744.1	105270 µg/L	36.4	105270 ppb	36.4	0.03%
As 188.979†	31.8	28.564 µg/L	0.8573	28.564 ppb	0.8573	3.00%
B 249.677†	1592.9	14.461 µg/L	3.3683	14.461 ppb	3.3683	23.29%
Ba 233.527†	62106.3	1471.9 µg/L	23.37	1471.9 ppb	23.37	1.59%
Be 313.107†	14424.0	7.7763 µg/L	0.11604	7.7763 ppb	0.11604	1.49%
Ca 317.933Radial†	148524.5	59515 µg/L	104.7	59515 ppb	104.7	0.18%
Cd 226.502†	669.9	3.7458 µg/L	0.89247	3.7458 ppb	0.89247	23.83%
Co 228.616†	1268.5	50.989 µg/L	2.2129	50.989 ppb	2.2129	4.34%
Cr 267.716†	4629.7	110.68 µg/L	4.972	110.68 ppb	4.972	4.49%
Cu 324.752†	7391.3	74.733 µg/L	0.5563	74.733 ppb	0.5563	0.74%
Fe 238.204 Radial†	9811.2	122680 µg/L	342.3	122680 ppb	342.3	0.28%
K 766.490 Radial†	40096.8	19836 µg/L	73.1	19836 ppb	73.1	0.37%
Mg 279.077 IEC†	1677.9	23468 µg/L	167.1	23468 ppb	167.1	0.71%
Mn 257.610†	996433.1	3300.3 µg/L	37.10	3300.3 ppb	37.10	1.12%
Mo 202.031†	-7.5	3.8566 µg/L	0.47801	3.8566 ppb	0.47801	12.39%
Na 589.592 Radial†	1965.3	971.84 µg/L	8.762	971.84 ppb	8.762	0.90%

Ni 231.604†	1255.7	77.788 µg/L	2.7101	77.788 ppb	2.7101	3.48%
P 214.914†	1627.5	2875.0 µg/L	95.78	2875.0 ppb	95.78	3.33%
Pb 220.353†	346.9	108.74 µg/L	2.401	108.74 ppb	2.401	2.21%
S 181.975 Axial†	201.0	692.76 µg/L	4.503	692.76 ppb	4.503	0.65%
Sb 206.836†	-8.6	-10.468 µg/L	2.9045	-10.468 ppb	2.9045	27.75%
Se 196.026†	-101.9	262.93 µg/L	9.028	262.93 ppb	9.028	3.43%
SiO2†	501764.0	97428 µg/L	957.9	97428 ppb	957.9	0.98%
Si 251.611†	618427.6	45139 µg/L	453.4	45139 ppb	453.4	1.00%
Sn 189.927†	-77.7	-28.047 µg/L	1.8166	-28.047 ppb	1.8166	6.48%
Sr 421.552†	75723.0	473.58 µg/L	0.588	473.58 ppb	0.588	0.12%
Ti 334.940†	1531653.3	3874.8 µg/L	55.39	3874.8 ppb	55.39	1.43%
Tl 190.801†	-19.7	38.017 µg/L	4.5015	38.017 ppb	4.5015	11.84%
U 409.014†	-1171.1	-133.84 µg/L	1.263	-133.84 ppb	1.263	0.94%
V 292.402†	20943.7	254.68 µg/L	5.897	254.68 ppb	5.897	2.32%
Zn 213.857†	12626.2	305.12 µg/L	11.083	305.12 ppb	11.083	3.63%

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Analysis Begun

Start Time: 3/17/2010 12:12:42

Plasma On Time: 3/12/2010 12:50:39

Logged In Analyst: optima

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1030502 Autosampler Model: AS-93plus

Sample Information File: C:\pe\optimal\Sample Information\031710D.SIF

Batch ID:

Results Data Set: 031710C

Results Library: c:\pe\optimal\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/17/2010 12:12:44

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	88191.1	88191.1	103 %		12:13:18
1	Al 396.153Radial†	9860.0	9695.3	5073.2 µg/L	5073.2 ppb	12:13:18
1	Ca 317.933Radial†	13289.2	12603.4	5050.3 µg/L	5050.3 ppb	12:13:18
1	Fe 238.204 Radial†	413.2	389.1	4875.9 µg/L	4875.9 ppb	12:13:38
1	K 766.490 Radial†	10504.4	10095.5	4994.2 µg/L	4994.2 ppb	12:13:18
1	Mg 279.077 IEC†	368.8	349.5	4918.9 µg/L	4918.9 ppb	12:13:38
1	Na 589.592 Radial†	19890.4	19182.5	9485.7 µg/L	9485.7 ppb	12:13:18
1	Sr 421.552†	81133.5	78784.4	492.72 µg/L	492.72 ppb	12:13:18
1	Sc 361.383	1856618.0	1856618.0	100.78 %		12:14:42
1	Y 371.029	1286325.0	1286325.0	100.46 %		12:14:42
1	Ag 328.068†	58129.6	58190.8	503.90 µg/L	503.90 ppb	12:14:48
1	As 188.979†	330.2	329.3	526.28 µg/L	526.28 ppb	12:15:08
1	B 249.677†	10556.7	10141.8	496.82 µg/L	496.82 ppb	12:14:48
1	Ba 233.527†	21657.8	21508.5	510.48 µg/L	510.48 ppb	12:14:48
1	Be 313.107†	795270.3	790420.6	506.86 µg/L	506.86 ppb	12:14:42
1	Cd 226.502†	19442.2	19456.6	509.15 µg/L	509.15 ppb	12:14:48
1	Co 228.616†	11136.1	11018.9	512.61 µg/L	512.61 ppb	12:14:48
1	Cr 267.716†	21834.5	21574.0	515.30 µg/L	515.30 ppb	12:14:48
1	Cu 324.752†	77493.4	72785.4	509.72 µg/L	509.72 ppb	12:14:48
1	Mn 257.610†	155659.6	155168.7	513.02 µg/L	513.02 ppb	12:14:42
1	Mo 202.031†	4986.8	4937.5	529.38 µg/L	529.38 ppb	12:15:08
1	Ni 231.604†	8842.5	8416.8	510.63 µg/L	510.63 ppb	12:14:48
1	P 214.914†	1748.0	1446.3	2573.5 µg/L	2573.5 ppb	12:15:08
1	Pb 220.353†	1886.2	1837.6	523.74 µg/L	523.74 ppb	12:15:08
1	S 181.975 Axial†	320.1	295.0	1016.6 µg/L	1016.6 ppb	12:15:08
1	Sb 206.836†	569.7	539.0	525.03 µg/L	525.03 ppb	12:15:08
1	Se 196.026†	531.0	506.9	528.08 µg/L	528.08 ppb	12:15:08
1	SiO2†	31518.5	28624.5	5558.0 µg/L	5558.0 ppb	12:14:48
1	Si 251.611†	36351.8	35672.9	2603.8 µg/L	2603.8 ppb	12:14:48
1	Sn 189.927†	1238.8	1232.9	530.31 µg/L	530.31 ppb	12:15:08
1	Ti 334.940†	201628.4	200700.5	507.55 µg/L	507.55 ppb	12:14:42
1	Tl 190.801†	459.4	486.4	522.88 µg/L	522.88 ppb	12:15:08
1	U 409.014†	5379.8	5357.4	516.66 µg/L	516.66 ppb	12:14:48
1	V 292.402†	39935.6	39493.2	514.49 µg/L	514.49 ppb	12:14:48
1	Zn 213.857†	21729.6	21014.4	516.86 µg/L	516.86 ppb	12:14:48
2	Sc RADIAL	88014.4	88014.4	103 %		12:13:44
2	Al 396.153Radial†	9840.5	9695.5	5073.6 µg/L	5073.6 ppb	12:13:44
2	Ca 317.933Radial†	13253.3	12594.4	5046.7 µg/L	5046.7 ppb	12:13:44
2	Fe 238.204 Radial†	407.6	384.4	4817.2 µg/L	4817.2 ppb	12:14:04
2	K 766.490 Radial†	10286.9	9904.1	4899.5 µg/L	4899.5 ppb	12:13:44
2	Mg 279.077 IEC†	370.4	351.8	4951.4 µg/L	4951.4 ppb	12:14:04
2	Na 589.592 Radial†	19886.1	19217.2	9502.8 µg/L	9502.8 ppb	12:13:44
2	Sr 421.552†	80893.4	78708.8	492.25 µg/L	492.25 ppb	12:13:44
2	Sc 361.383	1874963.4	1874963.4	101.78 %		12:15:15
2	Y 371.029	1300553.0	1300553.0	101.58 %		12:15:15
2	Ag 328.068†	57817.5	57319.7	496.37 µg/L	496.37 ppb	12:15:21
2	As 188.979†	323.6	319.6	510.73 µg/L	510.73 ppb	12:15:41

2	B 249.677†	10525.0	10008.2	490.28 µg/L	490.28 ppb	12:15:21
2	Ba 233.527†	21558.9	21201.1	503.19 µg/L	503.19 ppb	12:15:21
2	Be 313.107†	805162.1	792418.7	508.14 µg/L	508.14 ppb	12:15:15
2	Cd 226.502†	19351.8	19179.0	501.89 µg/L	501.89 ppb	12:15:21
2	Co 228.616†	11120.2	10895.1	506.83 µg/L	506.83 ppb	12:15:21
2	Cr 267.716†	21743.7	21272.8	508.10 µg/L	508.10 ppb	12:15:21
2	Cu 324.752†	77196.3	71741.2	502.41 µg/L	502.41 ppb	12:15:21
2	Mn 257.610†	157330.5	155299.2	513.44 µg/L	513.44 ppb	12:15:15
2	Mo 202.031†	4903.6	4807.2	515.42 µg/L	515.42 ppb	12:15:41
2	Ni 231.604†	8850.8	8339.2	505.92 µg/L	505.92 ppb	12:15:21
2	P 214.914†	1730.9	1412.5	2512.9 µg/L	2512.9 ppb	12:15:41
2	Pb 220.353†	1882.7	1815.8	517.53 µg/L	517.53 ppb	12:15:41
2	S 181.975 Axial†	323.1	294.8	1015.8 µg/L	1015.8 ppb	12:15:41
2	Sb 206.836†	565.6	529.5	515.66 µg/L	515.66 ppb	12:15:41
2	Se 196.026†	528.1	498.9	519.66 µg/L	519.66 ppb	12:15:41
2	SiO2†	31406.5	28208.5	5477.3 µg/L	5477.3 ppb	12:15:21
2	Si 251.611†	36252.9	35222.8	2570.9 µg/L	2570.9 ppb	12:15:21
2	Sn 189.927†	1226.7	1209.0	520.03 µg/L	520.03 ppb	12:15:41
2	Ti 334.940†	203488.2	200570.2	507.21 µg/L	507.21 ppb	12:15:15
2	Tl 190.801†	452.6	475.2	511.04 µg/L	511.04 ppb	12:15:41
2	U 409.014†	5365.7	5291.2	510.28 µg/L	510.28 ppb	12:15:21
2	V 292.402†	39857.8	39029.1	508.38 µg/L	508.38 ppb	12:15:21
2	Zn 213.857†	21634.6	20710.1	509.36 µg/L	509.36 ppb	12:15:21
3	Sc RADIAL	87541.9	87541.9	102 %		12:14:10
3	Al 396.153Radial†	9814.9	9722.2	5089.2 µg/L	5089.2 ppb	12:14:10
3	Ca 317.933Radial†	13135.3	12548.5	5028.3 µg/L	5028.3 ppb	12:14:10
3	Fe 238.204 Radial†	410.0	388.9	4872.6 µg/L	4872.6 ppb	12:14:30
3	K 766.490 Radial†	10412.3	10081.0	4987.0 µg/L	4987.0 ppb	12:14:10
3	Mg 279.077 IEC†	368.1	351.4	4945.3 µg/L	4945.3 ppb	12:14:30
3	Na 589.592 Radial†	19787.6	19225.3	9506.8 µg/L	9506.8 ppb	12:14:10
3	Sr 421.552†	80616.3	78862.8	493.21 µg/L	493.21 ppb	12:14:10
3	Sc 361.383	1870133.4	1870133.4	101.52 %		12:15:48
3	Y 371.029	1298459.6	1298459.6	101.41 %		12:15:48
3	Ag 328.068†	55165.5	54854.2	474.90 µg/L	474.90 ppb	12:15:54
3	As 188.979†	277.2	274.7	438.78 µg/L	438.78 ppb	12:16:14
3	B 249.677†	9988.9	9506.8	465.52 µg/L	465.52 ppb	12:15:54
3	Ba 233.527†	20073.5	19792.6	469.74 µg/L	469.74 ppb	12:15:54
3	Be 313.107†	753540.6	743612.5	476.84 µg/L	476.84 ppb	12:15:48
3	Cd 226.502†	17897.9	17796.0	465.65 µg/L	465.65 ppb	12:15:54
3	Co 228.616†	10143.6	9961.4	463.34 µg/L	463.34 ppb	12:15:54
3	Cr 267.716†	19490.4	19108.3	456.41 µg/L	456.41 ppb	12:15:54
3	Cu 324.752†	71435.2	66262.2	464.12 µg/L	464.12 ppb	12:15:54
3	Mn 257.610†	147167.2	145687.1	481.66 µg/L	481.66 ppb	12:15:48
3	Mo 202.031†	4146.5	4074.0	436.83 µg/L	436.83 ppb	12:16:14
3	Ni 231.604†	8117.5	7639.3	463.47 µg/L	463.47 ppb	12:15:54
3	P 214.914†	1532.9	1221.8	2169.9 µg/L	2169.9 ppb	12:16:14
3	Pb 220.353†	1641.5	1583.0	451.15 µg/L	451.15 ppb	12:16:14
3	S 181.975 Axial†	286.1	259.1	892.99 µg/L	892.99 ppb	12:16:14
3	Sb 206.836†	489.3	455.7	443.49 µg/L	443.49 ppb	12:16:14
3	Se 196.026†	476.0	448.9	468.88 µg/L	468.88 ppb	12:16:14
3	SiO2†	29720.1	26627.1	5170.2 µg/L	5170.2 ppb	12:15:54
3	Si 251.611†	34114.2	33208.1	2423.9 µg/L	2423.9 ppb	12:15:54
3	Sn 189.927†	1018.1	1006.6	433.06 µg/L	433.06 ppb	12:16:14
3	Ti 334.940†	189278.7	187089.6	473.10 µg/L	473.10 ppb	12:15:48
3	Tl 190.801†	407.4	431.8	464.54 µg/L	464.54 ppb	12:16:14
3	U 409.014†	4773.0	4721.0	455.18 µg/L	455.18 ppb	12:15:54
3	V 292.402†	36360.6	35685.3	464.47 µg/L	464.47 ppb	12:15:54
3	Zn 213.857†	19921.6	19077.6	469.17 µg/L	469.17 ppb	12:15:54

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1867238.3	101.36 %	0.516			0.51%
Sc RADIAL	87915.8	103 %	0.4			0.38%
Y 371.029	1295112.5	101.15 %	0.600			0.59%
Ag 328.068†	56788.2	491.72 µg/L	15.050	491.72 ppb	15.050	3.06%
QC value within limits for Ag 328.068 Recovery = 98.34%						
Al 396.153Radial†	9704.3	5078.7 µg/L	9.14	5078.7 ppb	9.14	0.18%
QC value within limits for Al 396.153Radial Recovery = 101.57%						
As 188.979†	307.9	491.93 µg/L	46.679	491.93 ppb	46.679	9.49%

QC value within limits for As 188.979 Recovery = 98.39%						
B 249.677†	9885.6	484.21 µg/L	16.512	484.21 ppb	16.512	3.41%
QC value within limits for B 249.677 Recovery = 96.84%						
Ba 233.527†	20834.1	494.47 µg/L	21.725	494.47 ppb	21.725	4.39%
QC value within limits for Ba 233.527 Recovery = 98.89%						
Be 313.107†	775483.9	497.28 µg/L	17.710	497.28 ppb	17.710	3.56%
QC value within limits for Be 313.107 Recovery = 99.46%						
Ca 317.933Radial†	12582.1	5041.8 µg/L	11.80	5041.8 ppb	11.80	0.23%
QC value within limits for Ca 317.933Radial Recovery = 100.84%						
Cd 226.502†	18810.5	492.23 µg/L	23.306	492.23 ppb	23.306	4.73%
QC value within limits for Cd 226.502 Recovery = 98.45%						
Co 228.616†	10625.1	494.26 µg/L	26.931	494.26 ppb	26.931	5.45%
QC value within limits for Co 228.616 Recovery = 98.85%						
Cr 267.716†	20651.7	493.27 µg/L	32.123	493.27 ppb	32.123	6.51%
QC value within limits for Cr 267.716 Recovery = 98.65%						
Cu 324.752†	70262.9	492.08 µg/L	24.492	492.08 ppb	24.492	4.98%
QC value within limits for Cu 324.752 Recovery = 98.42%						
Fe 238.204 Radial†	387.4	4855.2 µg/L	32.99	4855.2 ppb	32.99	0.68%
QC value within limits for Fe 238.204 Radial Recovery = 97.10%						
K 766.490 Radial†	10026.9	4960.3 µg/L	52.73	4960.3 ppb	52.73	1.06%
QC value within limits for K 766.490 Radial Recovery = 99.21%						
Mg 279.077 IEC†	350.9	4938.5 µg/L	17.25	4938.5 ppb	17.25	0.35%
QC value within limits for Mg 279.077 IEC Recovery = 98.77%						
Mn 257.610†	152051.6	502.71 µg/L	18.226	502.71 ppb	18.226	3.63%
QC value within limits for Mn 257.610 Recovery = 100.54%						
Mo 202.031†	4606.2	493.88 µg/L	49.894	493.88 ppb	49.894	10.10%
QC value within limits for Mo 202.031 Recovery = 98.78%						
Na 589.592 Radial†	19208.3	9498.5 µg/L	11.23	9498.5 ppb	11.23	0.12%
QC value within limits for Na 589.592 Radial Recovery = 94.98%						
Ni 231.604†	8131.8	493.34 µg/L	25.977	493.34 ppb	25.977	5.27%
QC value within limits for Ni 231.604 Recovery = 98.67%						
P 214.914†	1360.2	2418.8 µg/L	217.61	2418.8 ppb	217.61	9.00%
QC value within limits for P 214.914 Recovery = 96.75%						
Pb 220.353†	1745.5	497.47 µg/L	40.240	497.47 ppb	40.240	8.09%
QC value within limits for Pb 220.353 Recovery = 99.49%						
S 181.975 Axial†	283.0	975.13 µg/L	71.137	975.13 ppb	71.137	7.30%
QC value within limits for S 181.975 Axial Recovery = 97.51%						
Sb 206.836†	508.1	494.73 µg/L	44.615	494.73 ppb	44.615	9.02%
QC value within limits for Sb 206.836 Recovery = 98.95%						
Se 196.026†	484.9	505.54 µg/L	32.026	505.54 ppb	32.026	6.33%
QC value within limits for Se 196.026 Recovery = 101.11%						
SiO2†	27820.0	5401.8 µg/L	204.63	5401.8 ppb	204.63	3.79%
QC value within limits for SiO2 Recovery = 101.02%						
Si 251.611†	34701.3	2532.9 µg/L	95.80	2532.9 ppb	95.80	3.78%
QC value within limits for Si 251.611 Recovery = 101.31%						
Sn 189.927†	1149.5	494.47 µg/L	53.423	494.47 ppb	53.423	10.80%
QC value within limits for Sn 189.927 Recovery = 98.89%						
Sr 421.552†	78785.4	492.73 µg/L	0.482	492.73 ppb	0.482	0.10%
QC value within limits for Sr 421.552 Recovery = 98.55%						
Ti 334.940†	196120.1	495.95 µg/L	19.791	495.95 ppb	19.791	3.99%
QC value within limits for Ti 334.940 Recovery = 99.19%						
Tl 190.801†	464.5	499.49 µg/L	30.840	499.49 ppb	30.840	6.17%
QC value within limits for Tl 190.801 Recovery = 99.90%						
U 409.014†	5123.2	494.04 µg/L	33.805	494.04 ppb	33.805	6.84%
QC value within limits for U 409.014 Recovery = 98.81%						
V 292.402†	38069.2	495.78 µg/L	27.286	495.78 ppb	27.286	5.50%
QC value within limits for V 292.402 Recovery = 99.16%						
Zn 213.857†	20267.4	498.46 µg/L	25.642	498.46 ppb	25.642	5.14%
QC value within limits for Zn 213.857 Recovery = 99.69%						
All analyte(s) passed QC.						

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 12:16:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc RADIAL	86903.0	86903.0	101 %		12:16:55
1	Al 396.153Radial†	-72.5	34.6	18.103 µg/L	18.103 ppb	12:16:55
1	Ca 317.933Radial†	323.6	-1.2	-0.4939 µg/L	-0.4939 ppb	12:17:16
1	Fe 238.204 Radial†	14.3	1.3	16.166 µg/L	16.166 ppb	12:17:16
1	K 766.490 Radial†	191.1	68.3	33.775 µg/L	33.775 ppb	12:16:55
1	Mg 279.077 IEC†	4.5	-4.8	-67.089 µg/L	-67.089 ppb	12:17:16
1	Na 589.592 Radial†	178.9	15.2	7.5377 µg/L	7.5377 ppb	12:16:55
1	Sr 421.552†	114.7	-6.7	-0.0419 µg/L	-0.0419 ppb	12:16:55
1	Sc 361.383	1867072.9	1867072.9	101.35 %		12:18:18
1	Y 371.029	1299465.1	1299465.1	101.49 %		12:18:18
1	Ag 328.068†	-553.7	-32.5	-0.2821 µg/L	-0.2821 ppb	12:18:23
1	As 188.979†	-2.4	-0.7	-1.1548 µg/L	-1.1548 ppb	12:18:44
1	B 249.677†	288.4	-48.1	-2.3723 µg/L	-2.3723 ppb	12:18:23
1	Ba 233.527†	-8.9	10.6	0.2509 µg/L	0.2509 ppb	12:18:44
1	Be 313.107†	-1212.7	146.8	0.0940 µg/L	0.0940 ppb	12:18:23
1	Cd 226.502†	-165.0	3.0	0.0760 µg/L	0.0760 ppb	12:18:44
1	Co 228.616†	28.1	-2.8	-0.1284 µg/L	-0.1284 ppb	12:18:44
1	Cr 267.716†	95.8	4.0	0.0942 µg/L	0.0942 ppb	12:18:23
1	Cu 324.752†	4063.1	-95.6	-0.6654 µg/L	-0.6654 ppb	12:18:23
1	Mn 257.610†	-659.2	70.9	0.2398 µg/L	0.2398 ppb	12:18:44
1	Mo 202.031†	29.9	19.0	2.0391 µg/L	2.0391 ppb	12:18:44
1	Ni 231.604†	344.8	-16.6	-1.0049 µg/L	-1.0049 ppb	12:18:44
1	P 214.914†	289.1	-2.9	-5.0646 µg/L	-5.0646 ppb	12:18:44
1	Pb 220.353†	44.9	10.4	2.9633 µg/L	2.9633 ppb	12:18:44
1	S 181.975 Axial†	18.6	-4.3	-14.839 µg/L	-14.839 ppb	12:18:44
1	Sb 206.836†	21.2	-5.3	-5.1230 µg/L	-5.1230 ppb	12:18:44
1	Se 196.026†	14.9	-5.3	-5.2705 µg/L	-5.2705 ppb	12:18:44
1	SiO2†	2726.4	41.5	8.0597 µg/L	8.0597 ppb	12:18:23
1	Si 251.611†	550.5	147.4	10.755 µg/L	10.755 ppb	12:18:44
1	Sn 189.927†	6.4	10.0	4.3022 µg/L	4.3022 ppb	12:18:44
1	Ti 334.940†	-411.1	236.5	0.6038 µg/L	0.6038 ppb	12:18:23
1	Tl 190.801†	-34.0	-3.0	-3.1385 µg/L	-3.1385 ppb	12:18:44
1	U 409.014†	-50.5	-30.4	-2.9419 µg/L	-2.9419 ppb	12:18:23
1	V 292.402†	80.0	-52.4	-0.6650 µg/L	-0.6650 ppb	12:18:23
1	Zn 213.857†	506.5	-46.2	-1.1355 µg/L	-1.1355 ppb	12:18:44
2	Sc RADIAL	87249.8	87249.8	102 %		12:17:21
2	Al 396.153Radial†	-86.5	21.1	11.048 µg/L	11.048 ppb	12:17:21
2	Ca 317.933Radial†	321.9	-4.2	-1.6719 µg/L	-1.6719 ppb	12:17:41
2	Fe 238.204 Radial†	15.0	2.0	24.499 µg/L	24.499 ppb	12:17:41
2	K 766.490 Radial†	97.9	-24.0	-11.891 µg/L	-11.891 ppb	12:17:21
2	Mg 279.077 IEC†	11.3	1.9	26.141 µg/L	26.141 ppb	12:17:41
2	Na 589.592 Radial†	137.7	-26.0	-12.839 µg/L	-12.839 ppb	12:17:21
2	Sr 421.552†	140.7	18.4	0.1150 µg/L	0.1150 ppb	12:17:21
2	Sc 361.383	1870915.0	1870915.0	101.56 %		12:18:50
2	Y 371.029	1300931.4	1300931.4	101.60 %		12:18:50
2	Ag 328.068†	-473.9	47.2	0.4042 µg/L	0.4042 ppb	12:18:55
2	As 188.979†	-4.6	-2.8	-4.5137 µg/L	-4.5137 ppb	12:19:16
2	B 249.677†	305.9	-31.5	-1.5619 µg/L	-1.5619 ppb	12:18:55
2	Ba 233.527†	-11.9	7.7	0.1805 µg/L	0.1805 ppb	12:19:16
2	Be 313.107†	-1276.3	86.7	0.0555 µg/L	0.0555 ppb	12:18:55
2	Cd 226.502†	-151.3	16.9	0.4378 µg/L	0.4378 ppb	12:19:16
2	Co 228.616†	30.1	-0.9	-0.0422 µg/L	-0.0422 ppb	12:19:16
2	Cr 267.716†	56.0	-35.4	-0.8448 µg/L	-0.8448 ppb	12:18:55
2	Cu 324.752†	4051.9	-114.9	-0.7985 µg/L	-0.7985 ppb	12:18:55
2	Mn 257.610†	-672.6	59.0	0.1947 µg/L	0.1947 ppb	12:19:16
2	Mo 202.031†	20.9	10.0	1.0769 µg/L	1.0769 ppb	12:19:16
2	Ni 231.604†	341.8	-20.3	-1.2300 µg/L	-1.2300 ppb	12:19:16
2	P 214.914†	283.3	-9.2	-16.675 µg/L	-16.675 ppb	12:19:16
2	Pb 220.353†	46.4	11.8	3.3580 µg/L	3.3580 ppb	12:19:16

2	S 181.975 Axial†	22.9	-0.1	-0.2447 µg/L	-0.2447 ppb	12:19:16
2	Sb 206.836†	29.5	2.8	2.6973 µg/L	2.6973 ppb	12:19:16
2	Se 196.026†	25.8	5.4	5.5695 µg/L	5.5695 ppb	12:19:16
2	SiO2†	2715.2	25.0	4.8528 µg/L	4.8528 ppb	12:18:55
2	Si 251.611†	540.0	135.9	9.9170 µg/L	9.9170 ppb	12:19:16
2	Sn 189.927†	-8.7	-4.8	-2.0779 µg/L	-2.0779 ppb	12:19:16
2	Ti 334.940†	-509.5	140.5	0.3535 µg/L	0.3535 ppb	12:18:55
2	Tl 190.801†	-35.3	-4.1	-4.3743 µg/L	-4.3743 ppb	12:19:16
2	U 409.014†	31.9	50.8	4.9031 µg/L	4.9031 ppb	12:18:55
2	V 292.402†	93.0	-39.8	-0.5047 µg/L	-0.5047 ppb	12:18:55
2	Zn 213.857†	495.3	-58.3	-1.4396 µg/L	-1.4396 ppb	12:19:16
3	Sc RADIAL	86862.2	86862.2	101 %		12:17:47
3	Al 396.153Radial†	-99.3	8.1	4.2082 µg/L	4.2082 ppb	12:17:47
3	Ca 317.933Radial†	318.5	-6.1	-2.4473 µg/L	-2.4473 ppb	12:18:07
3	Fe 238.204 Radial†	12.4	-0.6	-7.3449 µg/L	-7.3449 ppb	12:18:07
3	K 766.490 Radial†	106.2	-15.5	-7.6522 µg/L	-7.6522 ppb	12:17:47
3	Mg 279.077 IEC†	3.3	-5.9	-83.011 µg/L	-83.011 ppb	12:18:07
3	Na 589.592 Radial†	170.4	6.9	3.4104 µg/L	3.4104 ppb	12:17:47
3	Sr 421.552†	136.5	14.9	0.0931 µg/L	0.0931 ppb	12:17:47
3	Sc 361.383	1864760.7	1864760.7	101.23 %		12:19:22
3	Y 371.029	1296770.3	1296770.3	101.28 %		12:19:22
3	Ag 328.068†	-531.0	-10.8	-0.0996 µg/L	-0.0996 ppb	12:19:27
3	As 188.979†	-3.5	-1.8	-2.8747 µg/L	-2.8747 ppb	12:19:48
3	B 249.677†	299.0	-37.3	-1.8290 µg/L	-1.8290 ppb	12:19:27
3	Ba 233.527†	-22.6	-3.0	-0.0725 µg/L	-0.0725 ppb	12:19:48
3	Be 313.107†	-1184.9	172.8	0.1107 µg/L	0.1107 ppb	12:19:27
3	Cd 226.502†	-151.4	16.2	0.4251 µg/L	0.4251 ppb	12:19:48
3	Co 228.616†	29.7	-1.2	-0.0562 µg/L	-0.0562 ppb	12:19:48
3	Cr 267.716†	74.1	-17.3	-0.4140 µg/L	-0.4140 ppb	12:19:27
3	Cu 324.752†	4078.8	-75.1	-0.5266 µg/L	-0.5266 ppb	12:19:27
3	Mn 257.610†	-672.6	56.8	0.1931 µg/L	0.1931 ppb	12:19:48
3	Mo 202.031†	23.4	12.5	1.3448 µg/L	1.3448 ppb	12:19:48
3	Ni 231.604†	365.9	4.7	0.2856 µg/L	0.2856 ppb	12:19:48
3	P 214.914†	280.7	-10.8	-19.512 µg/L	-19.512 ppb	12:19:48
3	Pb 220.353†	32.2	-2.1	-0.6048 µg/L	-0.6048 ppb	12:19:48
3	S 181.975 Axial†	22.4	-0.6	-1.8965 µg/L	-1.8965 ppb	12:19:48
3	Sb 206.836†	29.0	2.4	2.3482 µg/L	2.3482 ppb	12:19:48
3	Se 196.026†	23.7	3.4	3.5498 µg/L	3.5498 ppb	12:19:48
3	SiO2†	2745.6	63.8	12.386 µg/L	12.386 ppb	12:19:27
3	Si 251.611†	545.3	142.8	10.425 µg/L	10.425 ppb	12:19:48
3	Sn 189.927†	-5.9	-2.1	-0.8973 µg/L	-0.8973 ppb	12:19:48
3	Ti 334.940†	-462.7	185.1	0.4748 µg/L	0.4748 ppb	12:19:27
3	Tl 190.801†	-35.8	-4.8	-5.0624 µg/L	-5.0624 ppb	12:19:48
3	U 409.014†	7.8	27.1	2.6173 µg/L	2.6173 ppb	12:19:27
3	V 292.402†	56.6	-75.4	-0.9596 µg/L	-0.9596 ppb	12:19:27
3	Zn 213.857†	512.0	-40.2	-0.9901 µg/L	-0.9901 ppb	12:19:48

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	1867582.9	101.38 %	0.169			0.17%
Sc RADIAL	87005.0	101 %	0.2			0.24%
Y 371.029	1299055.6	101.46 %	0.165			0.16%
Ag 328.068†	1.3	0.0075 µg/L	0.35550	0.0075 ppb	0.35550	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	21.3	11.120 µg/L	6.9475	11.120 ppb	6.9475	62.48%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.8	-2.8477 µg/L	1.67960	-2.8477 ppb	1.67960	58.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	-38.9	-1.9211 µg/L	0.41296	-1.9211 ppb	0.41296	21.50%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	5.1	0.1196 µg/L	0.17011	0.1196 ppb	0.17011	142.17%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	135.4	0.0867 µg/L	0.02830	0.0867 ppb	0.02830	32.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-3.8	-1.5377 µg/L	0.98363	-1.5377 ppb	0.98363	63.97%
QC value within limits for Ca 317.933Radial Recovery = Not calculated						
Cd 226.502†	12.0	0.3130 µg/L	0.20528	0.3130 ppb	0.20528	65.59%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.6	-0.0756 µg/L	0.04623	-0.0756 ppb	0.04623	61.15%

QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	-16.2	-0.3882 µg/L	0.47005	-0.3882 ppb	0.47005 121.08%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-95.2	-0.6635 µg/L	0.13595	-0.6635 ppb	0.13595 20.49%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	0.9	11.106 µg/L	16.5136	11.106 ppb	16.5136 148.68%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	9.6	4.7439 µg/L	25.23044	4.7439 ppb	25.23044 531.85%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	-2.9	-41.320 µg/L	58.9628	-41.320 ppb	58.9628 142.70%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	62.2	0.2092 µg/L	0.02651	0.2092 ppb	0.02651 12.67%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	13.9	1.4869 µg/L	0.49661	1.4869 ppb	0.49661 33.40%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-1.3	-0.6301 µg/L	10.77228	-0.6301 ppb	10.77228 >999.9%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	-10.7	-0.6498 µg/L	0.81782	-0.6498 ppb	0.81782 125.86%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-7.6	-13.750 µg/L	7.6546	-13.750 ppb	7.6546 55.67%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	6.7	1.9055 µg/L	2.18292	1.9055 ppb	2.18292 114.56%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-1.6	-5.6602 µg/L	7.99224	-5.6602 ppb	7.99224 141.20%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	-0.1	-0.0259 µg/L	4.41775	-0.0259 ppb	4.41775 >999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	1.2	1.2829 µg/L	5.76462	1.2829 ppb	5.76462 449.33%
QC value within limits for Se 196.026 Recovery = Not calculated					
SiO2†	43.4	8.4329 µg/L	3.78059	8.4329 ppb	3.78059 44.83%
QC value within limits for SiO2 Recovery = Not calculated					
Si 251.611†	142.0	10.366 µg/L	0.4222	10.366 ppb	0.4222 4.07%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	1.0	0.4423 µg/L	3.39444	0.4423 ppb	3.39444 767.39%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	8.9	0.0554 µg/L	0.08498	0.0554 ppb	0.08498 153.37%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	187.4	0.4774 µg/L	0.12518	0.4774 ppb	0.12518 26.22%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	-3.9	-4.1917 µg/L	0.97489	-4.1917 ppb	0.97489 23.26%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	15.8	1.5262 µg/L	4.03473	1.5262 ppb	4.03473 264.37%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-55.9	-0.7098 µg/L	0.23070	-0.7098 ppb	0.23070 32.50%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	-48.2	-1.1884 µg/L	0.22933	-1.1884 ppb	0.22933 19.30%
QC value within limits for Zn 213.857 Recovery = Not calculated					

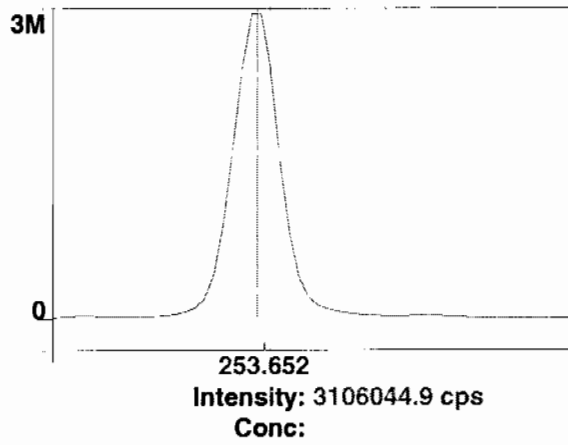
All analyte(s) passed QC.

Method: Hg_ReAlign
Result: 031910

Sample ID: Hg_ReAlign

Hg 253.652

Rep: 1



1

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Analysis Begun

Start Time: 3/16/2010 14:49:42

Plasma On Time: 3/15/2010 06:51:19

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\031610.sif

Batch ID:

Results Data Set: 031610

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/15/2010 08:46:50

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

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Sequence No.: 1

Autosampler Location: 8

Sample ID: S0

Date Collected: 3/16/2010 14:49:49

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: S0

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	4550.6	4550.6	0.000 %		14:51:42
1	Y RADIAL	4905.6	4905.6	0.000 %		14:51:42
1	Al 396.153Radial†	-84.5	-85.2	[0.00] ug/L		14:52:02

1	Ca 317.933Radial†	28.5	28.8	[0.00]	ug/L	14:52:02
1	Fe 238.204 Radial†	7.0	7.1	[0.00]	ug/L	14:52:02
1	K 766.490 Radial†	2578.0	2598.9	[0.00]	ug/L	14:51:42
1	Mg 279.077 IEC†	0.1	0.1	[0.00]	ug/L	14:52:02
1	Na 589.592 Radial†	-789.8	-796.2	[0.00]	ug/L	14:51:42
1	Sr 421.552†	26.4	26.6	[0.00]	ug/L	14:51:42
1	Sc 361.383	812544.2	812544.2	0.0000	%	14:52:59
1	Y 371.029	690661.6	690661.6	0.0000	%	14:52:59
1	Ag 328.068†	208.4	208.5	[0.00]	ug/L	14:52:59
1	As 188.979†	-12.9	-12.9	[0.00]	ug/L	14:53:19
1	B 249.677†	-424.3	-424.5	[0.00]	ug/L	14:53:19
1	Ba 233.527†	18.3	18.3	[0.00]	ug/L	14:53:19
1	Be 313.107†	-3782.6	-3784.4	[0.00]	ug/L	14:52:59
1	Cd 226.502†	-163.4	-163.5	[0.00]	ug/L	14:53:19
1	Co 228.616†	-33.7	-33.7	[0.00]	ug/L	14:53:19
1	Cr 267.716†	73.8	73.8	[0.00]	ug/L	14:53:19
1	Cu 324.752†	5434.2	5436.7	[0.00]	ug/L	14:52:59
1	Mn 257.610†	559.2	559.4	[0.00]	ug/L	14:53:19
1	Mo 202.031†	6.4	6.4	[0.00]	ug/L	14:53:19
1	Ni 231.604†	81.3	81.4	[0.00]	ug/L	14:53:19
1	P 214.914†	176.8	176.9	[0.00]	ug/L	14:53:19
1	Pb 220.353†	-50.8	-50.8	[0.00]	ug/L	14:53:19
1	S 181.975 Axial†	31.1	31.1	[0.00]	ug/L	14:53:19
1	Sb 206.836†	16.4	16.4	[0.00]	ug/L	14:53:19
1	Se 196.026†	-20.9	-20.9	[0.00]	ug/L	14:53:19
1	Si 251.611†	501.0	501.2	[0.00]	ug/L	14:53:19
1	Sn 189.927†	10.8	10.8	[0.00]	ug/L	14:53:19
1	Ti 334.940†	-1118.0	-1118.5	[0.00]	ug/L	14:52:59
1	Tl 190.801†	-32.9	-32.9	[0.00]	ug/L	14:53:19
1	U 409.014†	-2102.3	-2103.3	[0.00]	ug/L	14:52:59
1	V 292.402†	-1326.2	-1326.9	[0.00]	ug/L	14:52:59
1	Zn 213.857†	612.9	613.2	[0.00]	ug/L	14:53:19
1	SiO2†	495.9	496.1	[0.00]	ug/L	14:54:30
2	Sc Radial	4629.6	4629.6	0.000	%	14:52:07
2	Y RADIAL	4972.6	4972.6	0.000	%	14:52:07
2	Al 396.153Radial†	-87.9	-87.1	[0.00]	ug/L	14:52:27
2	Ca 317.933Radial†	25.8	25.6	[0.00]	ug/L	14:52:27
2	Fe 238.204 Radial†	8.0	7.9	[0.00]	ug/L	14:52:27
2	K 766.490 Radial†	2566.7	2543.3	[0.00]	ug/L	14:52:07
2	Mg 279.077 IEC†	-1.4	-1.4	[0.00]	ug/L	14:52:27
2	Na 589.592 Radial†	-802.0	-794.7	[0.00]	ug/L	14:52:07
2	Sr 421.552†	26.6	26.4	[0.00]	ug/L	14:52:07
2	Sc 361.383	813378.1	813378.1	0.0000	%	14:53:24
2	Y 371.029	688892.5	688892.5	0.0000	%	14:53:24
2	Ag 328.068†	207.0	206.9	[0.00]	ug/L	14:53:24
2	As 188.979†	-17.0	-17.0	[0.00]	ug/L	14:53:44
2	B 249.677†	-416.7	-416.5	[0.00]	ug/L	14:53:44
2	Ba 233.527†	13.6	13.6	[0.00]	ug/L	14:53:44
2	Be 313.107†	-3741.6	-3739.5	[0.00]	ug/L	14:53:24
2	Cd 226.502†	-185.2	-185.1	[0.00]	ug/L	14:53:44
2	Co 228.616†	-40.4	-40.4	[0.00]	ug/L	14:53:44
2	Cr 267.716†	72.7	72.7	[0.00]	ug/L	14:53:44
2	Cu 324.752†	5474.4	5471.4	[0.00]	ug/L	14:53:24
2	Mn 257.610†	548.8	548.5	[0.00]	ug/L	14:53:44
2	Mo 202.031†	12.9	12.9	[0.00]	ug/L	14:53:44
2	Ni 231.604†	76.3	76.3	[0.00]	ug/L	14:53:44
2	P 214.914†	191.8	191.7	[0.00]	ug/L	14:53:44
2	Pb 220.353†	-38.1	-38.1	[0.00]	ug/L	14:53:44
2	S 181.975 Axial†	33.8	33.8	[0.00]	ug/L	14:53:44
2	Sb 206.836†	29.5	29.5	[0.00]	ug/L	14:53:44
2	Se 196.026†	-25.1	-25.1	[0.00]	ug/L	14:53:44
2	Si 251.611†	502.2	501.9	[0.00]	ug/L	14:53:44
2	Sn 189.927†	6.4	6.4	[0.00]	ug/L	14:53:44
2	Ti 334.940†	-1067.2	-1066.6	[0.00]	ug/L	14:53:24
2	Tl 190.801†	-31.6	-31.6	[0.00]	ug/L	14:53:44
2	U 409.014†	-2083.2	-2082.0	[0.00]	ug/L	14:53:24
2	V 292.402†	-1348.4	-1347.6	[0.00]	ug/L	14:53:24
2	Zn 213.857†	625.5	625.1	[0.00]	ug/L	14:53:44
2	SiO2†	490.3	490.0	[0.00]	ug/L	14:54:50
3	Sc Radial	4582.5	4582.5	0.000	%	14:52:32
3	Y RADIAL	4924.6	4924.6	0.000	%	14:52:32

3	Al 396.153Radial†	-85.0	-85.1	[0.00]	ug/L	14:52:52
3	Ca 317.933Radial†	29.2	29.2	[0.00]	ug/L	14:52:52
3	Fe 238.204 Radial†	8.5	8.5	[0.00]	ug/L	14:52:52
3	K 766.490 Radial†	2522.1	2524.9	[0.00]	ug/L	14:52:32
3	Mg 279.077 IEC†	1.5	1.5	[0.00]	ug/L	14:52:52
3	Na 589.592 Radial†	-823.5	-824.4	[0.00]	ug/L	14:52:32
3	Sr 421.552†	24.2	24.3	[0.00]	ug/L	14:52:32
3	Sc 361.383	812863.5	812863.5	0.0000	%	14:53:49
3	Y 371.029	688754.4	688754.4	0.0000	%	14:53:49
3	Ag 328.068†	216.4	216.4	[0.00]	ug/L	14:53:49
3	As 188.979†	-21.2	-21.2	[0.00]	ug/L	14:54:09
3	B 249.677†	-405.1	-405.1	[0.00]	ug/L	14:54:09
3	Ba 233.527†	5.6	5.6	[0.00]	ug/L	14:54:09
3	Be 313.107†	-3662.9	-3663.1	[0.00]	ug/L	14:53:49
3	Cd 226.502†	-180.4	-180.4	[0.00]	ug/L	14:54:09
3	Co 228.616†	-45.5	-45.5	[0.00]	ug/L	14:54:09
3	Cr 267.716†	92.1	92.1	[0.00]	ug/L	14:54:09
3	Cu 324.752†	5490.2	5490.6	[0.00]	ug/L	14:53:49
3	Mn 257.610†	544.8	544.9	[0.00]	ug/L	14:54:09
3	Mo 202.031†	19.2	19.2	[0.00]	ug/L	14:54:09
3	Ni 231.604†	86.6	86.6	[0.00]	ug/L	14:54:09
3	P 214.914†	183.2	183.2	[0.00]	ug/L	14:54:09
3	Pb 220.353†	-39.4	-39.4	[0.00]	ug/L	14:54:09
3	S 181.975 Axial†	25.5	25.6	[0.00]	ug/L	14:54:09
3	Sb 206.836†	27.6	27.6	[0.00]	ug/L	14:54:09
3	Se 196.026†	-10.4	-10.4	[0.00]	ug/L	14:54:09
3	Si 251.611†	491.5	491.5	[0.00]	ug/L	14:54:09
3	Sn 189.927†	6.7	6.7	[0.00]	ug/L	14:54:09
3	Ti 334.940†	-1076.8	-1076.9	[0.00]	ug/L	14:53:49
3	Tl 190.801†	-30.8	-30.8	[0.00]	ug/L	14:54:09
3	U 409.014†	-2057.5	-2057.7	[0.00]	ug/L	14:53:49
3	V 292.402†	-1278.6	-1278.7	[0.00]	ug/L	14:53:49
3	Zn 213.857†	613.0	613.1	[0.00]	ug/L	14:54:09
3	SiO2†	499.8	499.8	[0.00]	ug/L	14:55:10

Mean Data: S0

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	812928.6	420.71	0.05%	0.0000	%
Sc Radial	4587.6	39.75	0.87%	0.000	%
Y 371.029	689436.1	1063.49	0.15%	0.0000	%
Y RADIAL	4934.3	34.53	0.70%	0.000	%
Ag 328.068†	210.6	5.07	2.41%	[0.00]	ug/L
Al 396.153Radial†	-85.8	1.10	1.29%	[0.00]	ug/L
As 188.979†	-17.0	4.16	24.42%	[0.00]	ug/L
B 249.677†	-415.4	9.71	2.34%	[0.00]	ug/L
Ba 233.527†	12.5	6.42	51.36%	[0.00]	ug/L
Be 313.107†	-3729.0	61.29	1.64%	[0.00]	ug/L
Ca 317.933Radial†	27.9	2.00	7.17%	[0.00]	ug/L
Cd 226.502†	-176.3	11.38	6.45%	[0.00]	ug/L
Co 228.616†	-39.8	5.90	14.81%	[0.00]	ug/L
Cr 267.716†	79.5	10.87	13.67%	[0.00]	ug/L
Cu 324.752†	5466.2	27.31	0.50%	[0.00]	ug/L
Fe 238.204 Radial†	7.9	0.72	9.15%	[0.00]	ug/L
K 766.490 Radial†	2555.7	38.51	1.51%	[0.00]	ug/L
Mg 279.077 IEC†	0.1	1.47	>999.9%	[0.00]	ug/L
Mn 257.610†	550.9	7.58	1.38%	[0.00]	ug/L
Mo 202.031†	12.8	6.40	49.88%	[0.00]	ug/L
Na 589.592 Radial†	-805.1	16.73	2.08%	[0.00]	ug/L
Ni 231.604†	81.4	5.15	6.32%	[0.00]	ug/L
P 214.914†	183.9	7.44	4.04%	[0.00]	ug/L
Pb 220.353†	-42.8	6.99	16.34%	[0.00]	ug/L
S 181.975 Axial†	30.2	4.21	13.96%	[0.00]	ug/L
Sb 206.836†	24.5	7.06	28.80%	[0.00]	ug/L
Se 196.026†	-18.8	7.59	40.38%	[0.00]	ug/L
Si 251.611†	498.2	5.82	1.17%	[0.00]	ug/L
Sn 189.927†	8.0	2.49	31.12%	[0.00]	ug/L
Sr 421.552†	25.8	1.31	5.07%	[0.00]	ug/L
Ti 334.940†	-1087.3	27.50	2.53%	[0.00]	ug/L
Tl 190.801†	-31.8	1.07	3.38%	[0.00]	ug/L

U 409.014†	-2081.0	22.83	1.10%	[0.00]	ug/L
V 292.402†	-1317.7	35.38	2.68%	[0.00]	ug/L
Zn 213.857†	617.1	6.92	1.12%	[0.00]	ug/L
SiO2†	495.3	4.95	1.00%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: S0.1
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 2
 Date Collected: 3/16/2010 14:57:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: S0.1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Analysis Time
1	Sc Radial	4559.6	4559.6	99.4 %		14:59:18
1	Y RADIAL	4882.5	4882.5	98.95 %		14:59:18
1	K 766.490 Radial†	8107.8	5601.9	[1000] ug/L		14:59:13
1	Sr 421.552†	13708.8	13767.3	[100] ug/L		14:59:18
1	Sc 361.383	807698.8	807698.8	99.357 %		14:59:45
1	Y 371.029	683212.9	683212.9	99.097 %		14:59:45
1	Ag 328.068†	20948.4	20873.4	[100] ug/L		14:59:45
1	As 188.979†	168.6	186.7	[100] ug/L		15:00:05
1	B 249.677†	3219.7	3656.0	[100] ug/L		14:59:45
1	Ba 233.527†	11503.7	11565.7	[100] ug/L		14:59:45
1	Be 313.107†	246383.8	251708.1	[100] ug/L		14:59:45
1	Cd 226.502†	7029.0	7250.8	[100] ug/L		15:00:05
1	Co 228.616†	4114.6	4181.1	[100] ug/L		15:00:05
1	Cr 267.716†	8045.9	8018.5	[100] ug/L		14:59:45
1	Cu 324.752†	37328.2	32103.7	[100] ug/L		14:59:45
1	Mn 257.610†	82603.8	82587.7	[100] ug/L		14:59:45
1	Mo 202.031†	1223.5	1218.6	[100] ug/L		15:00:05
1	Ni 231.604†	3466.1	3407.1	[100] ug/L		15:00:05
1	P 214.914†	892.0	713.9	[500] ug/L		15:00:05
1	Pb 220.353†	663.9	711.0	[100] ug/L		15:00:05
1	S 181.975 Axial†	153.3	124.1	[200] ug/L		15:00:05
1	Sb 206.836†	279.3	256.6	[100] ug/L		15:00:05
1	Se 196.026†	115.6	135.1	[100] ug/L		15:00:05
1	Si 251.611†	14528.9	14124.7	[500] ug/L		14:59:45
1	Sn 189.927†	470.0	465.1	[100] ug/L		15:00:05
1	Ti 334.940†	60260.7	61738.2	[100] ug/L		14:59:45
1	Tl 190.801†	245.6	279.0	[100] ug/L		15:00:05
1	U 409.014†	1405.3	3495.4	[100] ug/L		14:59:45
1	V 292.402†	11916.1	13311.0	[100] ug/L		14:59:45
1	Zn 213.857†	9578.0	9022.9	[100] ug/L		14:59:45
1	SiO2†	14699.6	14299.5	[1069.5] ug/L		15:01:01
2	Sc Radial	4716.8	4716.8	103 %		14:59:28
2	Y RADIAL	5073.0	5073.0	102.8 %		14:59:28
2	K 766.490 Radial†	8018.1	5242.7	[1000] ug/L		14:59:23
2	Sr 421.552†	14317.9	13900.0	[100] ug/L		14:59:28
2	Sc 361.383	807921.9	807921.9	99.384 %		15:00:10
2	Y 371.029	681525.8	681525.8	98.853 %		15:00:10
2	Ag 328.068†	21011.0	20930.6	[100] ug/L		15:00:10
2	As 188.979†	175.1	193.2	[100] ug/L		15:00:30
2	B 249.677†	3301.8	3737.6	[100] ug/L		15:00:10
2	Ba 233.527†	11552.4	11611.5	[100] ug/L		15:00:10
2	Be 313.107†	246189.4	251444.1	[100] ug/L		15:00:10
2	Cd 226.502†	7109.1	7329.5	[100] ug/L		15:00:30
2	Co 228.616†	4140.5	4206.0	[100] ug/L		15:00:30
2	Cr 267.716†	8078.6	8049.1	[100] ug/L		15:00:10
2	Cu 324.752†	37385.0	32150.4	[100] ug/L		15:00:10
2	Mn 257.610†	83145.2	83109.5	[100] ug/L		15:00:10
2	Mo 202.031†	1222.9	1217.6	[100] ug/L		15:00:30
2	Ni 231.604†	3488.0	3428.2	[100] ug/L		15:00:30
2	P 214.914†	881.0	702.6	[500] ug/L		15:00:30
2	Pb 220.353†	660.5	707.4	[100] ug/L		15:00:30
2	S 181.975 Axial†	143.9	114.6	[200] ug/L		15:00:30
2	Sb 206.836†	282.0	259.2	[100] ug/L		15:00:30
2	Se 196.026†	109.4	128.8	[100] ug/L		15:00:30
2	Si 251.611†	14588.8	14181.0	[500] ug/L		15:00:10
2	Sn 189.927†	484.6	479.6	[100] ug/L		15:00:30
2	Ti 334.940†	60552.2	62014.7	[100] ug/L		15:00:10
2	Tl 190.801†	257.1	290.5	[100] ug/L		15:00:30
2	U 409.014†	1471.5	3561.7	[100] ug/L		15:00:10

2	V 292.402†	11988.7	13380.7	[100] ug/L	15:00:10
2	Zn 213.857†	9586.0	9028.2	[100] ug/L	15:00:10
2	SiO2†	14849.2	14445.9	[1069.5] ug/L	15:01:06
3	Sc Radial	4692.5	4692.5	102 %	14:59:38
3	Y RADIAL	5028.4	5028.4	101.9 %	14:59:38
3	K 766.490 Radial†	8038.8	5303.3	[1000] ug/L	14:59:33
3	Sr 421.552†	14152.5	13810.3	[100] ug/L	14:59:38
3	Sc 361.383	820359.1	820359.1	100.91 %	15:00:36
3	Y 371.029	693189.2	693189.2	100.54 %	15:00:36
3	Ag 328.068†	21431.1	21026.3	[100] ug/L	15:00:36
3	As 188.979†	167.3	182.8	[100] ug/L	15:00:56
3	B 249.677†	3317.1	3702.4	[100] ug/L	15:00:36
3	Ba 233.527†	11758.9	11639.9	[100] ug/L	15:00:36
3	Be 313.107†	249967.0	251431.9	[100] ug/L	15:00:36
3	Cd 226.502†	7111.0	7223.0	[100] ug/L	15:00:56
3	Co 228.616†	4146.5	4148.8	[100] ug/L	15:00:56
3	Cr 267.716†	8249.3	8095.1	[100] ug/L	15:00:36
3	Cu 324.752†	38040.9	32230.1	[100] ug/L	15:00:36
3	Mn 257.610†	84391.0	83075.7	[100] ug/L	15:00:36
3	Mo 202.031†	1221.8	1197.9	[100] ug/L	15:00:56
3	Ni 231.604†	3480.9	3368.0	[100] ug/L	15:00:56
3	P 214.914†	889.6	697.6	[500] ug/L	15:00:56
3	Pb 220.353†	660.9	697.7	[100] ug/L	15:00:56
3	S 181.975 Axial†	147.4	116.0	[200] ug/L	15:00:56
3	Sb 206.836†	285.8	258.7	[100] ug/L	15:00:56
3	Se 196.026†	112.5	130.3	[100] ug/L	15:00:56
3	Si 251.611†	14800.1	14167.9	[500] ug/L	15:00:36
3	Sn 189.927†	481.9	469.5	[100] ug/L	15:00:56
3	Ti 334.940†	61658.9	62187.7	[100] ug/L	15:00:36
3	Tl 190.801†	249.4	278.9	[100] ug/L	15:00:56
3	U 409.014†	1476.8	3544.4	[100] ug/L	15:00:36
3	V 292.402†	12155.0	13362.7	[100] ug/L	15:00:36
3	Zn 213.857†	9741.2	9035.9	[100] ug/L	15:00:36
3	SiO2†	14671.1	14042.8	[1069.5] ug/L	15:01:11

Mean Data: S0.1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	811993.3	7245.86	0.89%	99.885 %
Sc Radial	4656.3	84.63	1.82%	101 %
Y 371.029	685976.0	6303.53	0.92%	99.498 %
Y RADIAL	4994.6	99.64	1.99%	101.2 %
Ag 328.068†	20943.5	77.26	0.37%	[100] ug/L
As 188.979†	187.6	5.26	2.81%	[100] ug/L
B 249.677†	3698.6	40.94	1.11%	[100] ug/L
Ba 233.527†	11605.7	37.41	0.32%	[100] ug/L
Be 313.107†	251528.0	156.04	0.06%	[100] ug/L
Cd 226.502†	7267.8	55.24	0.76%	[100] ug/L
Co 228.616†	4178.6	28.71	0.69%	[100] ug/L
Cr 267.716†	8054.2	38.55	0.48%	[100] ug/L
Cu 324.752†	32161.4	63.92	0.20%	[100] ug/L
K 766.490 Radial†	5382.6	192.27	3.57%	[1000] ug/L
Mn 257.610†	82924.3	291.98	0.35%	[100] ug/L
Mo 202.031†	1211.4	11.69	0.96%	[100] ug/L
Ni 231.604†	3401.1	30.56	0.90%	[100] ug/L
P 214.914†	704.7	8.35	1.18%	[500] ug/L
Pb 220.353†	705.4	6.89	0.98%	[100] ug/L
S 181.975 Axial†	118.2	5.16	4.36%	[200] ug/L
Sb 206.836†	258.1	1.37	0.53%	[100] ug/L
Se 196.026†	131.4	3.29	2.50%	[100] ug/L
Si 251.611†	14157.9	29.45	0.21%	[500] ug/L
Sn 189.927†	471.4	7.43	1.58%	[100] ug/L
Sr 421.552†	13825.9	67.69	0.49%	[100] ug/L
Ti 334.940†	61980.2	226.71	0.37%	[100] ug/L
Tl 190.801†	282.8	6.67	2.36%	[100] ug/L
U 409.014†	3533.8	34.38	0.97%	[100] ug/L
V 292.402†	13351.5	36.19	0.27%	[100] ug/L
Zn 213.857†	9029.0	6.54	0.07%	[100] ug/L
SiO2†	14262.7	204.03	1.43%	[1069.5] ug/L

Sequence No.: 3

Sample ID: S0.5

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 3/16/2010 15:03:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S0.5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4424.1	4424.1	96.4 %	15:05:15
1	Y RADIAL	4738.7	4738.7	96.04 %	15:05:15
1	Al 396.153Radial†	5103.5	5377.9	[5000] ug/L	15:05:15
1	Ca 317.933Radial†	2841.6	2918.8	[5000] ug/L	15:05:35
1	K 766.490 Radial†	28275.5	26765.0	[5000] ug/L	15:05:15
1	Mg 279.077 IEC†	135.6	140.6	[5000] ug/L	15:05:35
1	Sr 421.552†	63930.2	66267.6	[500] ug/L	15:05:15
1	Sc 361.383	811747.2	811747.2	99.855 %	15:06:32
1	Y 371.029	677144.2	677144.2	98.217 %	15:06:32
1	Ag 328.068†	98624.7	98557.7	[500] ug/L	15:06:37
1	As 188.979†	899.0	917.4	[500] ug/L	15:06:57
1	B 249.677†	17528.0	17968.8	[500] ug/L	15:06:37
1	Ba 233.527†	54355.7	54422.3	[500] ug/L	15:06:37
1	Be 313.107†	1186305.8	1191761.4	[500] ug/L	15:06:32
1	Cd 226.502†	34911.7	35138.9	[500] ug/L	15:06:37
1	Co 228.616†	19828.1	19896.8	[500] ug/L	15:06:37
1	Cr 267.716†	37886.5	37862.1	[500] ug/L	15:06:37
1	Cu 324.752†	157591.5	152354.6	[500] ug/L	15:06:37
1	Mn 257.610†	383812.4	383820.1	[500] ug/L	15:06:32
1	Mo 202.031†	5767.0	5762.6	[500] ug/L	15:06:57
1	Ni 231.604†	16279.9	16222.1	[500] ug/L	15:06:37
1	P 214.914†	3547.4	3368.7	[2500] ug/L	15:06:57
1	Pb 220.353†	3274.4	3322.0	[500] ug/L	15:06:57
1	S 181.975 Axial†	596.4	567.1	[1000] ug/L	15:06:57
1	Sb 206.836†	1234.6	1211.9	[500] ug/L	15:06:57
1	Se 196.026†	590.5	610.1	[500] ug/L	15:06:57
1	Si 251.611†	68068.8	67669.6	[2500] ug/L	15:06:37
1	Sn 189.927†	2250.7	2246.0	[500] ug/L	15:06:57
1	Ti 334.940†	286010.3	287513.9	[500] ug/L	15:06:37
1	Tl 190.801†	1295.7	1329.4	[500] ug/L	15:06:57
1	U 409.014†	14969.6	17072.4	[500] ug/L	15:06:37
1	V 292.402†	62008.4	63416.4	[500] ug/L	15:06:37
1	Zn 213.857†	43350.4	42796.4	[500] ug/L	15:06:37
1	SiO2†	68511.4	68115.8	[5347.5] ug/L	15:08:05
2	Sc Radial	4490.7	4490.7	97.9 %	15:05:40
2	Y RADIAL	4795.4	4795.4	97.19 %	15:05:40
2	Al 396.153Radial†	5137.4	5334.0	[5000] ug/L	15:05:40
2	Ca 317.933Radial†	2847.9	2881.5	[5000] ug/L	15:06:00
2	K 766.490 Radial†	28370.9	26427.2	[5000] ug/L	15:05:40
2	Mg 279.077 IEC†	135.7	138.5	[5000] ug/L	15:06:00
2	Sr 421.552†	64470.6	65835.6	[500] ug/L	15:05:40
2	Sc 361.383	819125.5	819125.5	100.76 %	15:07:03
2	Y 371.029	682127.0	682127.0	98.940 %	15:07:03
2	Ag 328.068†	98678.6	97721.5	[500] ug/L	15:07:08
2	As 188.979†	909.3	919.5	[500] ug/L	15:07:28
2	B 249.677†	17569.1	17851.6	[500] ug/L	15:07:08
2	Ba 233.527†	54438.0	54013.7	[500] ug/L	15:07:08
2	Be 313.107†	1196382.0	1191060.0	[500] ug/L	15:07:03
2	Cd 226.502†	35080.8	34991.8	[500] ug/L	15:07:08
2	Co 228.616†	19915.8	19805.0	[500] ug/L	15:07:08
2	Cr 267.716†	37973.1	37606.3	[500] ug/L	15:07:08
2	Cu 324.752†	157572.7	150914.4	[500] ug/L	15:07:08
2	Mn 257.610†	387972.8	384486.8	[500] ug/L	15:07:03
2	Mo 202.031†	5826.2	5769.2	[500] ug/L	15:07:28
2	Ni 231.604†	16353.4	16148.3	[500] ug/L	15:07:08
2	P 214.914†	3604.2	3393.0	[2500] ug/L	15:07:28
2	Pb 220.353†	3289.5	3307.4	[500] ug/L	15:07:28
2	S 181.975 Axial†	600.8	566.1	[1000] ug/L	15:07:28
2	Sb 206.836†	1257.9	1223.9	[500] ug/L	15:07:28

2	Se 196.026†	605.6	619.8	[500]	ug/L	15:07:28
2	Si 251.611†	68317.7	67302.6	[2500]	ug/L	15:07:08
2	Sn 189.927†	2268.4	2243.2	[500]	ug/L	15:07:28
2	Ti 334.940†	285957.6	284881.6	[500]	ug/L	15:07:08
2	Tl 190.801†	1318.6	1340.4	[500]	ug/L	15:07:28
2	U 409.014†	14939.0	16907.0	[500]	ug/L	15:07:08
2	V 292.402†	62172.3	63019.7	[500]	ug/L	15:07:08
2	Zn 213.857†	43470.0	42524.0	[500]	ug/L	15:07:08
2	SiO2†	69384.6	68364.4	[5347.5]	ug/L	15:08:10
3	Sc Radial	4520.4	4520.4	98.5	%	15:06:05
3	Y RADIAL	4824.7	4824.7	97.78	%	15:06:05
3	Al 396.153Radial†	5172.1	5334.9	[5000]	ug/L	15:06:05
3	Ca 317.933Radial†	2854.2	2868.7	[5000]	ug/L	15:06:25
3	K 766.490 Radial†	28510.0	26378.3	[5000]	ug/L	15:06:05
3	Mg 279.077 IEC†	136.8	138.7	[5000]	ug/L	15:06:25
3	Sr 421.552†	64559.0	65493.4	[500]	ug/L	15:06:05
3	Sc 361.383	834641.8	834641.8	102.67	%	15:07:34
3	Y 371.029	694468.1	694468.1	100.73	%	15:07:34
3	Ag 328.068†	99953.3	97142.4	[500]	ug/L	15:07:39
3	As 188.979†	896.3	890.0	[500]	ug/L	15:07:59
3	B 249.677†	17860.0	17810.7	[500]	ug/L	15:07:39
3	Ba 233.527†	54899.7	53459.0	[500]	ug/L	15:07:39
3	Be 313.107†	1217368.2	1189427.4	[500]	ug/L	15:07:34
3	Cd 226.502†	35315.0	34572.7	[500]	ug/L	15:07:39
3	Co 228.616†	20045.7	19564.1	[500]	ug/L	15:07:39
3	Cr 267.716†	38383.9	37305.9	[500]	ug/L	15:07:39
3	Cu 324.752†	159693.5	150072.8	[500]	ug/L	15:07:39
3	Mn 257.610†	395095.8	384266.4	[500]	ug/L	15:07:34
3	Mo 202.031†	5755.1	5592.5	[500]	ug/L	15:07:59
3	Ni 231.604†	16464.5	15954.8	[500]	ug/L	15:07:39
3	P 214.914†	3536.0	3260.1	[2500]	ug/L	15:07:59
3	Pb 220.353†	3251.7	3209.9	[500]	ug/L	15:07:59
3	S 181.975 Axial†	594.6	549.0	[1000]	ug/L	15:07:59
3	Sb 206.836†	1242.7	1185.9	[500]	ug/L	15:07:59
3	Se 196.026†	590.8	594.2	[500]	ug/L	15:07:59
3	Si 251.611†	68952.8	66660.8	[2500]	ug/L	15:07:39
3	Sn 189.927†	2262.2	2195.4	[500]	ug/L	15:07:59
3	Ti 334.940†	289436.8	282994.4	[500]	ug/L	15:07:39
3	Tl 190.801†	1300.3	1298.3	[500]	ug/L	15:07:59
3	U 409.014†	15144.6	16831.6	[500]	ug/L	15:07:39
3	V 292.402†	62842.1	62525.0	[500]	ug/L	15:07:39
3	Zn 213.857†	43861.0	42102.8	[500]	ug/L	15:07:39
3	SiO2†	68736.5	66452.9	[5347.5]	ug/L	15:08:15

Mean Data: S0.5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sc 361.383	821838.2	11685.89	1.42%	101.10 %
Sc Radial	4478.4	49.32	1.10%	97.6 %
Y 371.029	684579.8	8918.61	1.30%	99.296 %
Y RADIAL	4786.3	43.73	0.91%	97.00 %
Ag 328.068†	97807.2	711.51	0.73%	[500] ug/L
Al 396.153Radial†	5348.9	25.10	0.47%	[5000] ug/L
As 188.979†	908.9	16.44	1.81%	[500] ug/L
B 249.677†	17877.1	82.08	0.46%	[500] ug/L
Ba 233.527†	53965.0	483.50	0.90%	[500] ug/L
Be 313.107†	1190749.6	1197.59	0.10%	[500] ug/L
Ca 317.933Radial†	2889.7	26.00	0.90%	[5000] ug/L
Cd 226.502†	34901.1	293.80	0.84%	[500] ug/L
Co 228.616†	19755.3	171.84	0.87%	[500] ug/L
Cr 267.716†	37591.4	278.43	0.74%	[500] ug/L
Cu 324.752†	151113.9	1153.94	0.76%	[500] ug/L
K 766.490 Radial†	26523.5	210.56	0.79%	[5000] ug/L
Mg 279.077 IEC†	139.3	1.12	0.80%	[5000] ug/L
Mn 257.610†	384191.1	339.66	0.09%	[500] ug/L
Mo 202.031†	5708.1	100.17	1.75%	[500] ug/L
Ni 231.604†	16108.4	138.06	0.86%	[500] ug/L
P 214.914†	3340.6	70.77	2.12%	[2500] ug/L
Pb 220.353†	3279.8	60.96	1.86%	[500] ug/L
S 181.975 Axial†	560.7	10.19	1.82%	[1000] ug/L

Sb 206.836†	1207.2	19.44	1.61%	[500] ug/L
Se 196.026†	608.0	12.95	2.13%	[500] ug/L
Si 251.611†	67211.0	510.60	0.76%	[2500] ug/L
Sn 189.927†	2228.2	28.45	1.28%	[500] ug/L
Sr 421.552†	65865.5	387.96	0.59%	[500] ug/L
Ti 334.940†	285129.9	2269.95	0.80%	[500] ug/L
Tl 190.801†	1322.7	21.84	1.65%	[500] ug/L
U 409.014†	16937.0	123.18	0.73%	[500] ug/L
V 292.402†	62987.0	446.60	0.71%	[500] ug/L
Zn 213.857†	42474.4	349.41	0.82%	[500] ug/L
SiO2†	67644.4	1039.26	1.54%	[5347.5] ug/L

Sequence No.: 4

Sample ID: SCAL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 3/16/2010 15:10:26

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: SCAL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Sc Radial	4476.0	4476.0	97.6 %	15:12:19
1	Y RADIAL	4771.9	4771.9	96.71 %	15:12:19
1	Al 396.153Radial†	10203.0	10543.2	[10000] ug/L	15:12:19
1	Ca 317.933Radial†	5637.9	5750.6	[10000] ug/L	15:12:19
1	Fe 238.204 Radial†	948.9	964.7	[10000] ug/L	15:12:39
1	K 766.490 Radial†	53581.7	52361.9	[10000] ug/L	15:12:19
1	Mg 279.077 IEC†	267.7	274.3	[10000] ug/L	15:12:39
1	Na 589.592 Radial†	26813.9	28287.5	[10000] ug/L	15:12:19
1	Sr 421.552†	128339.1	131513.2	[1000] ug/L	15:12:19
1	Sc 361.383	810472.5	810472.5	99.698 %	15:13:38
1	Y 371.029	674237.0	674237.0	97.795 %	15:13:38
1	Ag 328.068†	193754.1	194130.6	[1000] ug/L	15:13:38
1	As 188.979†	1781.1	1803.5	[1000] ug/L	15:13:58
1	B 249.677†	35007.2	35528.7	[1000] ug/L	15:13:38
1	Ba 233.527†	106207.2	106516.6	[1000] ug/L	15:13:38
1	Be 313.107†	2319643.5	2330402.0	[1000] ug/L	15:13:38
1	Cd 226.502†	68232.0	68615.1	[1000] ug/L	15:13:38
1	Co 228.616†	38363.2	38519.3	[1000] ug/L	15:13:58
1	Cr 267.716†	74056.0	74200.9	[1000] ug/L	15:13:38
1	Cu 324.752†	305928.0	301388.8	[1000] ug/L	15:13:38
1	Mn 257.610†	754063.1	755797.3	[1000] ug/L	15:13:38
1	Mo 202.031†	11412.4	11434.1	[1000] ug/L	15:13:58
1	Ni 231.604†	31401.1	31414.8	[1000] ug/L	15:13:58
1	P 214.914†	6841.0	6677.8	[5000] ug/L	15:13:58
1	Pb 220.353†	6444.3	6506.6	[1000] ug/L	15:13:58
1	S 181.975 Axial†	1162.4	1135.7	[2000] ug/L	15:13:58
1	Sb 206.836†	2456.9	2439.8	[1000] ug/L	15:13:58
1	Se 196.026†	1185.3	1207.7	[1000] ug/L	15:13:58
1	Si 251.611†	132142.0	132044.3	[5000] ug/L	15:13:38
1	Sn 189.927†	4466.5	4472.0	[1000] ug/L	15:13:58
1	Ti 334.940†	577056.2	579892.3	[1000] ug/L	15:13:38
1	Tl 190.801†	2563.0	2602.5	[1000] ug/L	15:13:58
1	U 409.014†	30525.0	32698.5	[1000] ug/L	15:13:38
1	V 292.402†	123186.5	124877.5	[1000] ug/L	15:13:38
1	Zn 213.857†	82416.1	82048.7	[1000] ug/L	15:13:38
1	SiO2†	133865.1	133775.5	[10695] ug/L	15:14:58
2	Sc Radial	4537.7	4537.7	98.9 %	15:12:44
2	Y RADIAL	4830.9	4830.9	97.90 %	15:12:44
2	Al 396.153Radial†	10159.4	10356.9	[10000] ug/L	15:12:44
2	Ca 317.933Radial†	5599.0	5632.7	[10000] ug/L	15:12:44
2	Fe 238.204 Radial†	946.9	949.4	[10000] ug/L	15:13:04
2	K 766.490 Radial†	53228.7	51257.7	[10000] ug/L	15:12:44
2	Mg 279.077 IEC†	266.1	269.0	[10000] ug/L	15:13:04
2	Na 589.592 Radial†	26598.5	27695.8	[10000] ug/L	15:12:44
2	Sr 421.552†	127710.0	129087.2	[1000] ug/L	15:12:44
2	Sc 361.383	821377.0	821377.0	101.04 %	15:14:05
2	Y 371.029	682748.7	682748.7	99.030 %	15:14:05
2	Ag 328.068†	196646.0	194412.8	[1000] ug/L	15:14:05
2	As 188.979†	1781.7	1780.4	[1000] ug/L	15:14:26
2	B 249.677†	35697.2	35745.4	[1000] ug/L	15:14:05
2	Ba 233.527†	107563.2	106444.4	[1000] ug/L	15:14:05
2	Be 313.107†	2349684.6	2329245.5	[1000] ug/L	15:14:05
2	Cd 226.502†	69286.8	68750.5	[1000] ug/L	15:14:05
2	Co 228.616†	38431.6	38076.1	[1000] ug/L	15:14:26
2	Cr 267.716†	75022.8	74171.6	[1000] ug/L	15:14:05
2	Cu 324.752†	310557.0	301896.5	[1000] ug/L	15:14:05
2	Mn 257.610†	764916.7	756498.1	[1000] ug/L	15:14:05
2	Mo 202.031†	11473.4	11342.6	[1000] ug/L	15:14:26
2	Ni 231.604†	31470.1	31064.9	[1000] ug/L	15:14:26

2	P 214.914†	6885.2	6630.4	[5000] ug/L	15:14:26
2	Pb 220.353†	6467.9	6444.2	[1000] ug/L	15:14:26
2	S 181.975 Axial†	1155.6	1113.6	[2000] ug/L	15:14:26
2	Sb 206.836†	2450.5	2400.8	[1000] ug/L	15:14:26
2	Se 196.026†	1192.7	1199.2	[1000] ug/L	15:14:26
2	Si 251.611†	134384.6	132504.1	[5000] ug/L	15:14:05
2	Sn 189.927†	4474.0	4420.0	[1000] ug/L	15:14:26
2	Ti 334.940†	585007.8	580077.9	[1000] ug/L	15:14:05
2	Tl 190.801†	2589.8	2594.9	[1000] ug/L	15:14:26
2	U 409.014†	31218.3	32978.2	[1000] ug/L	15:14:05
2	V 292.402†	124750.0	124784.6	[1000] ug/L	15:14:05
2	Zn 213.857†	83577.5	82100.7	[1000] ug/L	15:14:05
2	SiO2†	134959.2	133075.7	[10695] ug/L	15:15:03
3	Sc Radial	4447.2	4447.2	96.9 %	15:13:09
3	Y RADIAL	4758.1	4758.1	96.43 %	15:13:09
3	Al 396.153Radial†	10118.3	10523.4	[10000] ug/L	15:13:09
3	Ca 317.933Radial†	5609.8	5759.0	[10000] ug/L	15:13:09
3	Fe 238.204 Radial†	942.6	964.5	[10000] ug/L	15:13:29
3	K 766.490 Radial†	53165.1	52287.3	[10000] ug/L	15:13:09
3	Mg 279.077 IEC†	263.9	272.1	[10000] ug/L	15:13:29
3	Na 589.592 Radial†	26432.4	28071.7	[10000] ug/L	15:13:09
3	Sr 421.552†	127270.7	131261.6	[1000] ug/L	15:13:09
3	Sc 361.383	819570.1	819570.1	100.82 %	15:14:33
3	Y 371.029	681188.0	681188.0	98.804 %	15:14:33
3	Ag 328.068†	196568.0	194764.5	[1000] ug/L	15:14:33
3	As 188.979†	1785.9	1788.4	[1000] ug/L	15:14:53
3	B 249.677†	35746.8	35872.5	[1000] ug/L	15:14:33
3	Ba 233.527†	107464.6	106581.2	[1000] ug/L	15:14:33
3	Be 313.107†	2349370.3	2334060.9	[1000] ug/L	15:14:33
3	Cd 226.502†	69379.9	68994.0	[1000] ug/L	15:14:33
3	Co 228.616†	38282.5	38012.1	[1000] ug/L	15:14:53
3	Cr 267.716†	75036.6	74349.1	[1000] ug/L	15:14:33
3	Cu 324.752†	310370.9	302389.6	[1000] ug/L	15:14:33
3	Mn 257.610†	764263.9	757519.7	[1000] ug/L	15:14:33
3	Mo 202.031†	11387.2	11282.1	[1000] ug/L	15:14:53
3	Ni 231.604†	31395.5	31059.7	[1000] ug/L	15:14:53
3	P 214.914†	6805.9	6566.8	[5000] ug/L	15:14:53
3	Pb 220.353†	6428.1	6418.8	[1000] ug/L	15:14:53
3	S 181.975 Axial†	1147.7	1108.3	[2000] ug/L	15:14:53
3	Sb 206.836†	2444.0	2399.7	[1000] ug/L	15:14:53
3	Se 196.026†	1187.5	1196.6	[1000] ug/L	15:14:53
3	Si 251.611†	134192.4	132606.8	[5000] ug/L	15:14:33
3	Sn 189.927†	4456.7	4412.6	[1000] ug/L	15:14:53
3	Ti 334.940†	584709.8	581058.8	[1000] ug/L	15:14:33
3	Tl 190.801†	2539.6	2550.8	[1000] ug/L	15:14:53
3	U 409.014†	31189.9	33018.2	[1000] ug/L	15:14:33
3	V 292.402†	124684.6	124991.9	[1000] ug/L	15:14:33
3	Zn 213.857†	83616.9	82322.2	[1000] ug/L	15:14:33
3	SiO2†	133802.4	132222.7	[10695] ug/L	15:15:09

Mean Data: SCAL

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Sc 361.383	817139.9	5844.35	0.72%	100.52	%
Sc Radial	4487.0	46.25	1.03%	97.8	%
Y 371.029	679391.3	4531.41	0.67%	98.543	%
Y RADIAL	4786.9	38.66	0.81%	97.01	%
Ag 328.068†	194435.9	317.55	0.16%	[1000]	ug/L
Al 396.153Radial†	10474.5	102.34	0.98%	[10000]	ug/L
As 188.979†	1790.8	11.75	0.66%	[1000]	ug/L
B 249.677†	35715.5	173.86	0.49%	[1000]	ug/L
Ba 233.527†	106514.0	68.45	0.06%	[1000]	ug/L
Be 313.107†	2331236.1	2513.70	0.11%	[1000]	ug/L
Ca 317.933Radial†	5714.1	70.65	1.24%	[10000]	ug/L
Cd 226.502†	68786.6	192.01	0.28%	[1000]	ug/L
Co 228.616†	38202.5	276.21	0.72%	[1000]	ug/L
Cr 267.716†	74240.5	95.12	0.13%	[1000]	ug/L
Cu 324.752†	301891.6	500.40	0.17%	[1000]	ug/L
Fe 238.204 Radial†	959.6	8.77	0.91%	[10000]	ug/L
K 766.490 Radial†	51969.0	617.08	1.19%	[10000]	ug/L

Mg 279.077 IEC†	271.8	2.69	0.99%	[10000]	ug/L
Mn 257.610†	756605.0	866.13	0.11%	[1000]	ug/L
Mo 202.031†	11352.9	76.55	0.67%	[1000]	ug/L
Na 589.592 Radial†	28018.3	299.42	1.07%	[10000]	ug/L
Ni 231.604†	31179.8	203.54	0.65%	[1000]	ug/L
P 214.914†	6625.0	55.69	0.84%	[5000]	ug/L
Pb 220.353†	6456.5	45.20	0.70%	[1000]	ug/L
S 181.975 Axial†	1119.2	14.56	1.30%	[2000]	ug/L
Sb 206.836†	2413.4	22.86	0.95%	[1000]	ug/L
Se 196.026†	1201.2	5.77	0.48%	[1000]	ug/L
Si 251.611†	132385.1	299.57	0.23%	[5000]	ug/L
Sn 189.927†	4434.9	32.38	0.73%	[1000]	ug/L
Sr 421.552†	130620.7	1333.97	1.02%	[1000]	ug/L
Ti 334.940†	580343.0	626.84	0.11%	[1000]	ug/L
Tl 190.801†	2582.8	27.91	1.08%	[1000]	ug/L
U 409.014†	32898.3	174.17	0.53%	[1000]	ug/L
V 292.402†	124884.7	103.85	0.08%	[1000]	ug/L
Zn 213.857†	82157.2	145.23	0.18%	[1000]	ug/L
SiO2†	133024.7	777.63	0.58%	[10695]	ug/L

Sequence No.: 5

Sample ID: S10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 3/16/2010 15:17:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: S10

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Analysis Time
1	Sc Radial	4382.5	4382.5	95.5 %		15:19:39
1	Y RADIAL	4661.4	4661.4	94.47 %		15:19:39
1	Al 396.153Radial†	50629.9	53085.4	[50000] ug/L		15:19:18
1	Ca 317.933Radial†	26980.9	28215.8	[50000] ug/L		15:19:18
1	Fe 238.204 Radial†	1827.4	1905.1	[20000] ug/L		15:19:39
1	Mg 279.077 IEC†	1251.9	1310.4	[50000] ug/L		15:19:39
1	Na 589.592 Radial†	54090.9	57427.6	[20000] ug/L		15:19:18
1	Sc 361.383	801030.0	801030.0	98.536 %		15:20:36
1	Y 371.029	663754.4	663754.4	96.275 %		15:20:36
2	Sc Radial	4397.1	4397.1	95.8 %		15:20:04
2	Y RADIAL	4678.7	4678.7	94.82 %		15:20:04
2	Al 396.153Radial†	50492.7	52766.4	[50000] ug/L		15:19:44
2	Ca 317.933Radial†	26897.0	28034.6	[50000] ug/L		15:19:44
2	Fe 238.204 Radial†	1836.5	1908.3	[20000] ug/L		15:20:04
2	Mg 279.077 IEC†	1257.2	1311.6	[50000] ug/L		15:20:04
2	Na 589.592 Radial†	53666.4	56796.9	[20000] ug/L		15:19:44
2	Sc 361.383	792948.9	792948.9	97.542 %		15:20:41
2	Y 371.029	656739.7	656739.7	95.258 %		15:20:41
3	Sc Radial	4396.7	4396.7	95.8 %		15:20:29
3	Y RADIAL	4692.4	4692.4	95.10 %		15:20:29
3	Al 396.153Radial†	51471.4	53792.1	[50000] ug/L		15:20:09
3	Ca 317.933Radial†	27395.8	28557.5	[50000] ug/L		15:20:09
3	Fe 238.204 Radial†	1833.9	1905.6	[20000] ug/L		15:20:29
3	Mg 279.077 IEC†	1257.4	1312.0	[50000] ug/L		15:20:29
3	Na 589.592 Radial†	54620.6	57797.3	[20000] ug/L		15:20:09
3	Sc 361.383	800989.6	800989.6	98.531 %		15:20:47
3	Y 371.029	663470.5	663470.5	96.234 %		15:20:47

Mean Data: S10

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sc 361.383	798322.8	4654.04	0.58%	98.203 %	
Sc Radial	4392.1	8.32	0.19%	95.7 %	
Y 371.029	661321.5	3970.54	0.60%	95.922 %	
Y RADIAL	4677.5	15.53	0.33%	94.80 %	
Al 396.153Radial†	53214.6	524.89	0.99%	[50000] ug/L	
Ca 317.933Radial†	28269.3	265.52	0.94%	[50000] ug/L	
Fe 238.204 Radial†	1906.3	1.71	0.09%	[20000] ug/L	
Mg 279.077 IEC†	1311.3	0.80	0.06%	[50000] ug/L	
Na 589.592 Radial†	57340.6	505.86	0.88%	[20000] ug/L	

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin Thru 0	0.0	194.8	0.00000	0.999974	
Al 396.153Radial	3	Lin Thru 0	0.0	1.064	0.00000	0.999995	
As 188.979	3	Lin Thru 0	0.0	1.797	0.00000	0.999974	
B 249.677	3	Lin Thru 0	0.0	35.73	0.00000	0.999995	
Ba 233.527	3	Lin Thru 0	0.0	106.9	0.00000	0.999957	
Be 313.107	3	Lin Thru 0	0.0	2343	0.00000	0.999942	
Ca 317.933Radial	3	Lin Thru 0	0.0	0.5657	0.00000	0.999996	
Cd 226.502	3	Lin Thru 0	0.0	69.02	0.00000	0.999972	
Co 228.616	3	Lin Thru 0	0.0	38.49	0.00000	0.999879	
Cr 267.716	3	Lin Thru 0	0.0	74.48	0.00000	0.999961	
Cu 324.752	3	Lin Thru 0	0.0	302.1	0.00000	0.999983	
Fe 238.204 Radia	2	Lin Thru 0	0.0	0.0954	0.00000	0.999996	
K 766.490 Radial	3	Lin Thru 0	0.0	5.220	0.00000	0.999962	

Mg 279.077 IEC	3	Lin Thru 0	0.0	0.0263	0.00000	0.999959
Mn 257.610	3	Lin Thru 0	0.0	759.5	0.00000	0.999947
Mo 202.031	3	Lin Thru 0	0.0	11.37	0.00000	0.999981
Na 589.592 Radia	2	Lin Thru 0	0.0	2.854	0.00000	0.999958
Ni 231.604	3	Lin Thru 0	0.0	31.41	0.00000	0.999886
P 214.914	3	Lin Thru 0	0.0	1.328	0.00000	0.999979
Pb 220.353	3	Lin Thru 0	0.0	6.482	0.00000	0.999949
S 181.975 Axial	3	Lin Thru 0	0.0	0.5601	0.00000	0.999987
Sb 206.836	3	Lin Thru 0	0.0	2.415	0.00000	0.999981
Se 196.026	3	Lin Thru 0	0.0	1.205	0.00000	0.999955
Si 251.611	3	Lin Thru 0	0.0	26.57	0.00000	0.999964
Sn 189.927	3	Lin Thru 0	0.0	4.441	0.00000	0.999983
Sr 421.552	3	Lin Thru 0	0.0	130.9	0.00000	0.999982
Ti 334.940	3	Lin Thru 0	0.0	578.7	0.00000	0.999956
Tl 190.801	3	Lin Thru 0	0.0	2.597	0.00000	0.999922
U 409.014	3	Lin Thru 0	0.0	33.11	0.00000	0.999913
V 292.402	3	Lin Thru 0	0.0	125.2	0.00000	0.999976
Zn 213.857	3	Lin Thru 0	0.0	82.78	0.00000	0.999877
SiO2	3	Lin Thru 0	0.0	12.49	0.00000	0.999959

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 3/16/2010 15:22:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4533.5	4533.5	98.8 %		15:24:51
1	Y RADIAL	4824.0	4824.0	97.77 %		15:24:51
1	Al 396.153Radial†	5145.8	5292.9	4949.5 ug/L	4949.5 ppb	15:24:51
1	Ca 317.933Radial†	2836.7	2842.7	5024.8 ug/L	5024.8 ppb	15:25:11
1	Fe 238.204 Radial†	497.6	495.7	5209.2 ug/L	5209.2 ppb	15:25:11
1	K 766.490 Radial†	15357.9	12985.3	2484.2 ug/L	2484.2 ppb	15:24:51
1	Mg 279.077 IEC†	140.9	142.5	5424.1 ug/L	5424.1 ppb	15:25:11
1	Na 589.592 Radial†	6415.6	7297.2	2556.8 ug/L	2556.8 ppb	15:24:51
1	Sr 421.552†	69256.5	70056.6	535.15 ug/L	535.15 ppb	15:24:51
1	Sc 361.383	818220.5	818220.5	100.65 %		15:26:08
1	Y 371.029	683712.4	683712.4	99.170 %		15:26:08
1	Ag 328.068†	50326.2	49790.1	258.81 ug/L	258.81 ppb	15:26:08
1	As 188.979†	859.6	871.1	489.02 ug/L	489.02 ppb	15:26:28
1	B 249.677†	18223.3	18520.8	515.99 ug/L	515.99 ppb	15:26:08
1	Ba 233.527†	54927.9	54560.2	511.82 ug/L	511.82 ppb	15:26:08
1	Be 313.107†	618720.3	618447.7	265.13 ug/L	265.13 ppb	15:26:08
1	Cd 226.502†	34603.8	34556.3	500.57 ug/L	500.57 ppb	15:26:08
1	Co 228.616†	19943.2	19854.0	515.99 ug/L	515.99 ppb	15:26:08
1	Cr 267.716†	36833.3	36515.5	491.36 ug/L	491.36 ppb	15:26:08
1	Cu 324.752†	160410.1	153906.4	509.42 ug/L	509.42 ppb	15:26:08
1	Mn 257.610†	397880.0	394755.7	520.04 ug/L	520.04 ppb	15:26:08
1	Mo 202.031†	6251.1	6197.8	545.49 ug/L	545.49 ppb	15:26:28
1	Ni 231.604†	16556.4	16367.9	520.83 ug/L	520.83 ppb	15:26:08
1	P 214.914†	3572.3	3365.3	2435.3 ug/L	2435.3 ppb	15:26:28
1	Pb 220.353†	3242.7	3264.5	505.15 ug/L	505.15 ppb	15:26:28
1	S 181.975 Axial†	1457.7	1418.2	2531.2 ug/L	2531.2 ppb	15:26:28
1	Sb 206.836†	1268.6	1235.9	531.45 ug/L	531.45 ppb	15:26:28
1	Se 196.026†	3134.8	3133.3	2618.4 ug/L	2618.4 ppb	15:26:28
1	Si 251.611†	132803.4	131446.2	4940.0 ug/L	4940.0 ppb	15:26:08
1	Sn 189.927†	2453.7	2429.8	547.68 ug/L	547.68 ppb	15:26:28
1	Ti 334.940†	290898.5	290104.4	501.17 ug/L	501.17 ppb	15:26:08
1	Tl 190.801†	1389.2	1412.0	547.10 ug/L	547.10 ppb	15:26:28
1	U 409.014†	14812.0	16797.2	505.61 ug/L	505.61 ppb	15:26:08
1	V 292.402†	63463.3	64370.6	521.58 ug/L	521.58 ppb	15:26:08
1	Zn 213.857†	43839.9	42939.2	513.96 ug/L	513.96 ppb	15:26:08
1	SiO2†	132321.0	130969.9	10474 ug/L	10474 ppb	15:27:26
2	Sc Radial	4542.7	4542.7	99.0 %		15:25:16
2	Y RADIAL	4866.3	4866.3	98.62 %		15:25:16
2	Al 396.153Radial†	5195.5	5332.7	4987.3 ug/L	4987.3 ppb	15:25:16
2	Ca 317.933Radial†	2809.5	2809.4	4966.0 ug/L	4966.0 ppb	15:25:36
2	Fe 238.204 Radial†	491.2	488.2	5130.1 ug/L	5130.1 ppb	15:25:36
2	K 766.490 Radial†	15436.6	13033.4	2493.4 ug/L	2493.4 ppb	15:25:16
2	Mg 279.077 IEC†	143.5	144.8	5511.8 ug/L	5511.8 ppb	15:25:36
2	Na 589.592 Radial†	6401.8	7270.1	2547.4 ug/L	2547.4 ppb	15:25:16
2	Sr 421.552†	69644.9	70307.3	537.06 ug/L	537.06 ppb	15:25:16
2	Sc 361.383	824607.9	824607.9	101.44 %		15:26:34
2	Y 371.029	688870.1	688870.1	99.918 %		15:26:34
2	Ag 328.068†	50777.4	49847.6	259.09 ug/L	259.09 ppb	15:26:34
2	As 188.979†	853.4	858.4	481.97 ug/L	481.97 ppb	15:26:54
2	B 249.677†	18391.3	18546.2	516.70 ug/L	516.70 ppb	15:26:34
2	Ba 233.527†	55621.1	54820.8	514.25 ug/L	514.25 ppb	15:26:34
2	Be 313.107†	624368.7	619254.5	265.48 ug/L	265.48 ppb	15:26:34
2	Cd 226.502†	34967.8	34648.8	501.92 ug/L	501.92 ppb	15:26:34
2	Co 228.616†	20246.6	19999.7	519.75 ug/L	519.75 ppb	15:26:34
2	Cr 267.716†	37115.8	36510.6	491.29 ug/L	491.29 ppb	15:26:34
2	Cu 324.752†	161774.7	154017.1	509.79 ug/L	509.79 ppb	15:26:34
2	Mn 257.610†	401655.2	395415.4	520.89 ug/L	520.89 ppb	15:26:34
2	Mo 202.031†	6209.0	6108.2	537.61 ug/L	537.61 ppb	15:26:54
2	Ni 231.604†	16745.6	16427.0	522.71 ug/L	522.71 ppb	15:26:34

2	P 214.914†	3559.7	3325.4	2405.2 ug/L	2405.2 ppb	15:26:54
2	Pb 220.353†	3234.4	3231.3	500.03 ug/L	500.03 ppb	15:26:54
2	S 181.975 Axial†	1446.2	1395.6	2490.8 ug/L	2490.8 ppb	15:26:54
2	Sb 206.836†	1274.7	1232.1	529.59 ug/L	529.59 ppb	15:26:54
2	Se 196.026†	3109.9	3084.6	2577.8 ug/L	2577.8 ppb	15:26:54
2	Si 251.611†	134259.5	131859.7	4955.7 ug/L	4955.7 ppb	15:26:34
2	Sn 189.927†	2435.2	2392.7	539.32 ug/L	539.32 ppb	15:26:54
2	Ti 334.940†	293824.1	290749.8	502.28 ug/L	502.28 ppb	15:26:34
2	Tl 190.801†	1383.3	1395.5	540.72 ug/L	540.72 ppb	15:26:54
2	U 409.014†	14763.9	16635.8	500.74 ug/L	500.74 ppb	15:26:34
2	V 292.402†	64083.7	64493.8	522.45 ug/L	522.45 ppb	15:26:34
2	Zn 213.857†	44278.6	43034.4	515.10 ug/L	515.10 ppb	15:26:34
2	SiO2†	134353.7	131955.5	10553 ug/L	10553 ppb	15:27:31
3	Sc Radial	4613.4	4613.4	101 %		15:25:41
3	Y RADIAL	4940.4	4940.4	100.1 %		15:25:41
3	Al 396.153Radial†	5207.2	5263.9	4922.7 ug/L	4922.7 ppb	15:25:41
3	Ca 317.933Radial†	2838.9	2795.2	4940.8 ug/L	4940.8 ppb	15:26:01
3	Fe 238.204 Radial†	490.6	480.0	5044.3 ug/L	5044.3 ppb	15:26:01
3	K 766.490 Radial†	15587.2	12944.3	2476.4 ug/L	2476.4 ppb	15:25:41
3	Mg 279.077 IEC†	139.3	138.5	5269.9 ug/L	5269.9 ppb	15:26:01
3	Na 589.592 Radial†	6455.2	7224.2	2531.3 ug/L	2531.3 ppb	15:25:41
3	Sr 421.552†	70552.0	70131.7	535.72 ug/L	535.72 ppb	15:25:41
3	Sc 361.383	828696.0	828696.0	101.94 %		15:27:01
3	Y 371.029	693691.2	693691.2	100.62 %		15:27:01
3	Ag 328.068†	50949.4	49769.4	258.66 ug/L	258.66 ppb	15:27:01
3	As 188.979†	846.4	847.3	475.79 ug/L	475.79 ppb	15:27:21
3	B 249.677†	18475.4	18539.3	516.54 ug/L	516.54 ppb	15:27:01
3	Ba 233.527†	55623.0	54552.2	511.74 ug/L	511.74 ppb	15:27:01
3	Be 313.107†	626248.8	618062.3	264.97 ug/L	264.97 ppb	15:27:01
3	Cd 226.502†	34844.4	34357.7	497.71 ug/L	497.71 ppb	15:27:01
3	Co 228.616†	20142.1	19798.7	514.53 ug/L	514.53 ppb	15:27:01
3	Cr 267.716†	37119.9	36334.1	488.91 ug/L	488.91 ppb	15:27:01
3	Cu 324.752†	162161.2	153609.6	508.43 ug/L	508.43 ppb	15:27:01
3	Mn 257.610†	402017.7	393817.7	518.79 ug/L	518.79 ppb	15:27:01
3	Mo 202.031†	6207.8	6076.9	534.84 ug/L	534.84 ppb	15:27:21
3	Ni 231.604†	16718.7	16319.2	519.28 ug/L	519.28 ppb	15:27:01
3	P 214.914†	3559.5	3307.8	2392.2 ug/L	2392.2 ppb	15:27:21
3	Pb 220.353†	3250.8	3231.7	500.08 ug/L	500.08 ppb	15:27:21
3	S 181.975 Axial†	1444.1	1386.5	2474.6 ug/L	2474.6 ppb	15:27:21
3	Sb 206.836†	1256.5	1208.1	519.53 ug/L	519.53 ppb	15:27:21
3	Se 196.026†	3106.5	3066.2	2562.2 ug/L	2562.2 ppb	15:27:21
3	Si 251.611†	134172.3	131121.3	4927.9 ug/L	4927.9 ppb	15:27:01
3	Sn 189.927†	2424.7	2370.6	534.34 ug/L	534.34 ppb	15:27:21
3	Ti 334.940†	294607.2	290089.0	501.15 ug/L	501.15 ppb	15:27:01
3	Tl 190.801†	1371.9	1377.6	533.84 ug/L	533.84 ppb	15:27:21
3	U 409.014†	14945.8	16742.5	503.98 ug/L	503.98 ppb	15:27:01
3	V 292.402†	64317.5	64411.4	521.77 ug/L	521.77 ppb	15:27:01
3	Zn 213.857†	44344.2	42883.4	513.32 ug/L	513.32 ppb	15:27:01
3	SiO2†	133820.4	130778.9	10459 ug/L	10459 ppb	15:27:36

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823841.5	101.34 %	0.649			0.64%
Sc Radial	4563.2	99.5 %	0.95			0.96%
Y 371.029	688757.9	99.902 %	0.7238			0.72%
Y RADIAL	4876.9	98.84 %	1.194			1.21%
Ag 328.068†	49802.4	258.86 ug/L	0.220	258.86 ppb	0.220	0.08%
QC value within limits for Ag 328.068 Recovery = 103.54%						
Al 396.153Radial†	5296.5	4953.2 ug/L	32.43	4953.2 ppb	32.43	0.65%
QC value within limits for Al 396.153Radial Recovery = 99.06%						
As 188.979†	858.9	482.26 ug/L	6.623	482.26 ppb	6.623	1.37%
QC value within limits for As 188.979 Recovery = 96.45%						
B 249.677†	18535.4	516.41 ug/L	0.373	516.41 ppb	0.373	0.07%
QC value within limits for B 249.677 Recovery = 103.28%						
Ba 233.527†	54644.4	512.60 ug/L	1.432	512.60 ppb	1.432	0.28%
QC value within limits for Ba 233.527 Recovery = 102.52%						
Be 313.107†	618588.2	265.19 ug/L	0.261	265.19 ppb	0.261	0.10%
QC value within limits for Be 313.107 Recovery = 106.08%						
Ca 317.933Radial†	2815.8	4977.2 ug/L	43.09	4977.2 ppb	43.09	0.87%

QC value within limits for Ca 317.933 Radial Recovery = 99.54%

Cd 226.502†	34521.0	500.07 ug/L	2.150	500.07 ppb	2.150	0.43%
QC value within limits for Cd 226.502 Recovery = 100.01%						
Co 228.616†	19884.1	516.76 ug/L	2.695	516.76 ppb	2.695	0.52%
QC value within limits for Co 228.616 Recovery = 103.35%						
Cr 267.716†	36453.4	490.52 ug/L	1.395	490.52 ppb	1.395	0.28%
QC value within limits for Cr 267.716 Recovery = 98.10%						
Cu 324.752†	153844.4	509.22 ug/L	0.701	509.22 ppb	0.701	0.14%
QC value within limits for Cu 324.752 Recovery = 101.84%						
Fe 238.204 Radial†	488.0	5127.9 ug/L	82.47	5127.9 ppb	82.47	1.61%
QC value within limits for Fe 238.204 Radial Recovery = 102.56%						
K 766.490 Radial†	12987.7	2484.7 ug/L	8.53	2484.7 ppb	8.53	0.34%
QC value within limits for K 766.490 Radial Recovery = 99.39%						
Mg 279.077 IEC†	141.9	5401.9 ug/L	122.43	5401.9 ppb	122.43	2.27%
QC value within limits for Mg 279.077 IEC Recovery = 108.04%						
Mn 257.610†	394663.0	519.91 ug/L	1.057	519.91 ppb	1.057	0.20%
QC value within limits for Mn 257.610 Recovery = 103.98%						
Mo 202.031†	6127.6	539.31 ug/L	5.527	539.31 ppb	5.527	1.02%
QC value within limits for Mo 202.031 Recovery = 107.86%						
Na 589.592 Radial†	7263.8	2545.1 ug/L	12.93	2545.1 ppb	12.93	0.51%
QC value within limits for Na 589.592 Radial Recovery = 101.81%						
Ni 231.604†	16371.4	520.94 ug/L	1.717	520.94 ppb	1.717	0.33%
QC value within limits for Ni 231.604 Recovery = 104.19%						
P 214.914†	3332.9	2410.9 ug/L	22.11	2410.9 ppb	22.11	0.92%
QC value within limits for P 214.914 Recovery = 96.44%						
Pb 220.353†	3242.5	501.75 ug/L	2.941	501.75 ppb	2.941	0.59%
QC value within limits for Pb 220.353 Recovery = 100.35%						
S 181.975 Axial†	1400.1	2498.9 ug/L	29.12	2498.9 ppb	29.12	1.17%
QC value within limits for S 181.975 Axial Recovery = 99.96%						
Sb 206.836†	1225.4	526.85 ug/L	6.415	526.85 ppb	6.415	1.22%
QC value within limits for Sb 206.836 Recovery = 105.37%						
Se 196.026†	3094.7	2586.1 ug/L	29.03	2586.1 ppb	29.03	1.12%
QC value within limits for Se 196.026 Recovery = 103.45%						
Si 251.611†	131475.7	4941.2 ug/L	13.92	4941.2 ppb	13.92	0.28%
QC value within limits for Si 251.611 Recovery = 98.82%						
Sn 189.927†	2397.7	540.45 ug/L	6.741	540.45 ppb	6.741	1.25%
QC value within limits for Sn 189.927 Recovery = 108.09%						
Sr 421.552†	70165.2	535.98 ug/L	0.983	535.98 ppb	0.983	0.18%
QC value within limits for Sr 421.552 Recovery = 107.20%						
Ti 334.940†	290314.4	501.53 ug/L	0.643	501.53 ppb	0.643	0.13%
QC value within limits for Ti 334.940 Recovery = 100.31%						
Tl 190.801†	1395.0	540.55 ug/L	6.629	540.55 ppb	6.629	1.23%
QC value within limits for Tl 190.801 Recovery = 108.11%						
U 409.014†	16725.2	503.44 ug/L	2.476	503.44 ppb	2.476	0.49%
QC value within limits for U 409.014 Recovery = 100.69%						
V 292.402†	64425.3	521.93 ug/L	0.460	521.93 ppb	0.460	0.09%
QC value within limits for V 292.402 Recovery = 104.39%						
Zn 213.857†	42952.3	514.13 ug/L	0.906	514.13 ppb	0.906	0.18%
QC value within limits for Zn 213.857 Recovery = 102.83%						
SiO2†	131234.7	10495 ug/L	50.6	10495 ppb	50.6	0.48%
QC value within limits for SiO2 Recovery = 98.13%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: ICB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 3/16/2010 15:29:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4346.6	4346.6	94.7 %			15:32:00
1	Y RADIAL	4767.4	4767.4	96.62 %			15:31:40
1	Al 396.153Radial†	-74.7	7.0	6.6025 ug/L		6.6025 ppb	15:32:00
1	Ca 317.933Radial†	21.0	-5.7	-10.025 ug/L		-10.025 ppb	15:32:00
1	Fe 238.204 Radial†	9.4	2.0	21.153 ug/L		21.153 ppb	15:32:00
1	K 766.490 Radial†	2521.3	105.3	20.189 ug/L		20.189 ppb	15:31:40
1	Mg 279.077 IEC†	0.4	0.3	11.753 ug/L		11.753 ppb	15:32:00
1	Na 589.592 Radial†	-835.5	-76.7	-26.888 ug/L		-26.888 ppb	15:31:40
1	Sr 421.552†	27.5	3.3	0.0250 ug/L		0.0250 ppb	15:31:40
1	Sc 361.383	811254.7	811254.7	99.794 %			15:32:57
1	Y 371.029	685428.7	685428.7	99.419 %			15:32:57
1	Ag 328.068†	144.0	-66.3	-0.3339 ug/L		-0.3339 ppb	15:32:57
1	As 188.979†	-16.7	0.3	0.1866 ug/L		0.1866 ppb	15:33:17
1	B 249.677†	-130.4	284.7	7.9650 ug/L		7.9650 ppb	15:33:17
1	Ba 233.527†	4.7	-7.8	-0.0727 ug/L		-0.0727 ppb	15:33:17
1	Be 313.107†	-3969.7	-248.9	-0.1065 ug/L		-0.1065 ppb	15:32:57
1	Cd 226.502†	-172.9	3.1	0.0430 ug/L		0.0430 ppb	15:33:17
1	Co 228.616†	-43.6	-3.9	-0.1013 ug/L		-0.1013 ppb	15:33:17
1	Cr 267.716†	66.6	-12.8	-0.1701 ug/L		-0.1701 ppb	15:33:17
1	Cu 324.752†	5379.5	-75.6	-0.2491 ug/L		-0.2491 ppb	15:32:57
1	Mn 257.610†	423.8	-126.2	-0.1646 ug/L		-0.1646 ppb	15:33:17
1	Mo 202.031†	11.4	-1.5	-0.1273 ug/L		-0.1273 ppb	15:33:17
1	Ni 231.604†	92.0	10.7	0.3418 ug/L		0.3418 ppb	15:33:17
1	P 214.914†	191.0	7.5	5.7024 ug/L		5.7024 ppb	15:33:17
1	Pb 220.353†	-48.3	-5.6	-0.8653 ug/L		-0.8653 ppb	15:33:17
1	S 181.975 Axial†	25.2	-4.9	-8.7887 ug/L		-8.7887 ppb	15:33:17
1	Sb 206.836†	27.9	3.4	1.4489 ug/L		1.4489 ppb	15:33:17
1	Se 196.026†	-11.6	7.2	6.0050 ug/L		6.0050 ppb	15:33:17
1	Si 251.611†	542.1	45.0	1.6957 ug/L		1.6957 ppb	15:33:17
1	Sn 189.927†	17.2	9.3	2.0804 ug/L		2.0804 ppb	15:33:17
1	Ti 334.940†	-1160.3	-75.4	-0.1324 ug/L		-0.1324 ppb	15:32:57
1	Tl 190.801†	-24.1	7.7	2.9604 ug/L		2.9604 ppb	15:33:17
1	U 409.014†	-2086.9	-10.2	-0.3091 ug/L		-0.3091 ppb	15:32:57
1	V 292.402†	-1332.9	-18.0	-0.1487 ug/L		-0.1487 ppb	15:32:57
1	Zn 213.857†	673.5	57.8	0.6930 ug/L		0.6930 ppb	15:33:17
1	SiO2†	503.6	9.3	0.7473 ug/L		0.7473 ppb	15:34:28
2	Sc Radial	4369.0	4369.0	95.2 %			15:32:25
2	Y RADIAL	4930.3	4930.3	99.92 %			15:32:05
2	Al 396.153Radial†	-74.6	7.5	7.0298 ug/L		7.0298 ppb	15:32:25
2	Ca 317.933Radial†	22.8	-3.9	-6.8180 ug/L		-6.8180 ppb	15:32:25
2	Fe 238.204 Radial†	7.3	-0.2	-2.0698 ug/L		-2.0698 ppb	15:32:25
2	K 766.490 Radial†	2469.6	37.4	7.1773 ug/L		7.1773 ppb	15:32:05
2	Mg 279.077 IEC†	1.0	1.0	38.703 ug/L		38.703 ppb	15:32:25
2	Na 589.592 Radial†	-854.9	-92.5	-32.427 ug/L		-32.427 ppb	15:32:05
2	Sr 421.552†	38.8	15.0	0.1145 ug/L		0.1145 ppb	15:32:05
2	Sc 361.383	803882.5	803882.5	98.887 %			15:33:22
2	Y 371.029	677768.4	677768.4	98.308 %			15:33:22
2	Ag 328.068†	114.6	-94.7	-0.4855 ug/L		-0.4855 ppb	15:33:22
2	As 188.979†	-14.5	2.4	1.3338 ug/L		1.3338 ppb	15:33:42
2	B 249.677†	-117.8	296.2	8.2909 ug/L		8.2909 ppb	15:33:42
2	Ba 233.527†	4.6	-7.8	-0.0726 ug/L		-0.0726 ppb	15:33:42
2	Be 313.107†	-3902.4	-217.3	-0.0928 ug/L		-0.0928 ppb	15:33:22
2	Cd 226.502†	-156.9	17.6	0.2557 ug/L		0.2557 ppb	15:33:42
2	Co 228.616†	-51.5	-12.3	-0.3197 ug/L		-0.3197 ppb	15:33:42
2	Cr 267.716†	84.3	5.8	0.0777 ug/L		0.0777 ppb	15:33:42
2	Cu 324.752†	5313.1	-93.3	-0.3088 ug/L		-0.3088 ppb	15:33:22
2	Mn 257.610†	436.2	-109.8	-0.1463 ug/L		-0.1463 ppb	15:33:42
2	Mo 202.031†	10.5	-2.2	-0.1979 ug/L		-0.1979 ppb	15:33:42
2	Ni 231.604†	89.3	8.9	0.2837 ug/L		0.2837 ppb	15:33:42

2	P 214.914†	195.0	13.3	10.042 ug/L	10.042 ppb	15:33:42
2	Pb 220.353†	-42.9	-0.6	-0.0915 ug/L	-0.0915 ppb	15:33:42
2	S 181.975 Axial†	24.8	-5.1	-9.0431 ug/L	-9.0431 ppb	15:33:42
2	Sb 206.836†	35.4	11.3	4.6753 ug/L	4.6753 ppb	15:33:42
2	Se 196.026†	-14.8	3.8	3.1602 ug/L	3.1602 ppb	15:33:42
2	Si 251.611†	517.3	24.9	0.9403 ug/L	0.9403 ppb	15:33:42
2	Sn 189.927†	6.0	-1.9	-0.4294 ug/L	-0.4294 ppb	15:33:42
2	Ti 334.940†	-1077.9	-2.7	-0.0087 ug/L	-0.0087 ppb	15:33:22
2	Tl 190.801†	-25.5	6.0	2.2967 ug/L	2.2967 ppb	15:33:42
2	U 409.014†	-2065.4	-7.7	-0.2315 ug/L	-0.2315 ppb	15:33:22
2	V 292.402†	-1275.1	28.2	0.2234 ug/L	0.2234 ppb	15:33:22
2	Zn 213.857†	674.8	65.3	0.7873 ug/L	0.7873 ppb	15:33:42
2	SiO2†	517.3	27.8	2.2295 ug/L	2.2295 ppb	15:34:48
3	Sc Radial	4361.4	4361.4	95.1 %		15:32:50
3	Y RADIAL	4779.0	4779.0	96.85 %		15:32:30
3	Al 396.153Radial†	-82.2	-0.7	-0.6477 ug/L	-0.6477 ppb	15:32:50
3	Ca 317.933Radial†	22.2	-4.5	-7.9023 ug/L	-7.9023 ppb	15:32:50
3	Fe 238.204 Radial†	7.6	0.1	1.2445 ug/L	1.2445 ppb	15:32:50
3	K 766.490 Radial†	2469.1	41.4	7.9561 ug/L	7.9561 ppb	15:32:30
3	Mg 279.077 IEC†	2.9	3.0	112.65 ug/L	112.65 ppb	15:32:50
3	Na 589.592 Radial†	-866.3	-106.1	-37.189 ug/L	-37.189 ppb	15:32:30
3	Sr 421.552†	23.7	-0.8	-0.0060 ug/L	-0.0060 ppb	15:32:30
3	Sc 361.383	807937.3	807937.3	99.386 %		15:33:48
3	Y 371.029	682559.5	682559.5	99.003 %		15:33:48
3	Ag 328.068†	223.2	14.0	0.0705 ug/L	0.0705 ppb	15:33:48
3	As 188.979†	-20.6	-3.7	-2.0499 ug/L	-2.0499 ppb	15:34:08
3	B 249.677†	-163.2	251.2	7.0295 ug/L	7.0295 ppb	15:34:08
3	Ba 233.527†	10.9	-1.5	-0.0150 ug/L	-0.0150 ppb	15:34:08
3	Be 313.107†	-3821.2	-115.8	-0.0496 ug/L	-0.0496 ppb	15:33:48
3	Cd 226.502†	-179.9	-4.6	-0.0673 ug/L	-0.0673 ppb	15:34:08
3	Co 228.616†	-51.7	-12.2	-0.3159 ug/L	-0.3159 ppb	15:34:08
3	Cr 267.716†	102.2	23.4	0.3131 ug/L	0.3131 ppb	15:34:08
3	Cu 324.752†	5250.8	-183.0	-0.6057 ug/L	-0.6057 ppb	15:33:48
3	Mn 257.610†	454.9	-93.2	-0.1272 ug/L	-0.1272 ppb	15:34:08
3	Mo 202.031†	14.4	1.7	0.1477 ug/L	0.1477 ppb	15:34:08
3	Ni 231.604†	87.3	6.5	0.2058 ug/L	0.2058 ppb	15:34:08
3	P 214.914†	194.8	12.1	9.2431 ug/L	9.2431 ppb	15:34:08
3	Pb 220.353†	-47.0	-4.5	-0.6895 ug/L	-0.6895 ppb	15:34:08
3	S 181.975 Axial†	26.8	-3.2	-5.6531 ug/L	-5.6531 ppb	15:34:08
3	Sb 206.836†	29.7	5.3	2.2447 ug/L	2.2447 ppb	15:34:08
3	Se 196.026†	-20.8	-2.1	-1.7572 ug/L	-1.7572 ppb	15:34:08
3	Si 251.611†	517.8	22.8	0.8550 ug/L	0.8550 ppb	15:34:08
3	Sn 189.927†	17.4	9.5	2.1314 ug/L	2.1314 ppb	15:34:08
3	Ti 334.940†	-1128.8	-48.4	-0.0941 ug/L	-0.0941 ppb	15:33:48
3	Tl 190.801†	-36.1	-4.6	-1.7555 ug/L	-1.7555 ppb	15:34:08
3	U 409.014†	-2069.2	-1.0	-0.0313 ug/L	-0.0313 ppb	15:33:48
3	V 292.402†	-1366.0	-56.7	-0.4492 ug/L	-0.4492 ppb	15:33:48
3	Zn 213.857†	671.9	58.9	0.7112 ug/L	0.7112 ppb	15:34:08
3	SiO2†	517.6	25.4	2.0331 ug/L	2.0331 ppb	15:35:08

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807691.5	99.356 %	0.4542			0.46%
Sc Radial	4359.0	95.0 %	0.25			0.26%
Y 371.029	681918.9	98.910 %	0.5613			0.57%
Y RADIAL	4825.6	97.80 %	1.842			1.88%
Ag 328.068†	-49.0	-0.2496 ug/L	0.28739	-0.2496 ppb	0.28739	115.13%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.6	4.3282 ug/L	4.31456	4.3282 ppb	4.31456	99.68%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.3	-0.1765 ug/L	1.72083	-0.1765 ppb	1.72083	975.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	277.4	7.7618 ug/L	0.65483	7.7618 ppb	0.65483	8.44%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.7	-0.0534 ug/L	0.03330	-0.0534 ppb	0.03330	62.34%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-194.0	-0.0830 ug/L	0.02969	-0.0830 ppb	0.02969	35.78%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-4.7	-8.2485 ug/L	1.63139	-8.2485 ppb	1.63139	19.78%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	5.4	0.0772 ug/L	0.16420	0.0772 ppb	0.16420	212.82%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-9.4	-0.2456 ug/L	0.12500	-0.2456 ppb	0.12500	50.89%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	5.4	0.0736 ug/L	0.24162	0.0736 ppb	0.24162	328.41%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-117.3	-0.3879 ug/L	0.19100	-0.3879 ppb	0.19100	49.25%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.6	6.7759 ug/L	12.56075	6.7759 ppb	12.56075	185.37%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	61.4	11.774 ug/L	7.2976	11.774 ppb	7.2976	61.98%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.4	54.369 ug/L	52.2413	54.369 ppb	52.2413	96.09%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-109.8	-0.1461 ug/L	0.01868	-0.1461 ppb	0.01868	12.79%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-0.7	-0.0592 ug/L	0.18260	-0.0592 ppb	0.18260	308.58%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-91.8	-32.168 ug/L	5.1556	-32.168 ppb	5.1556	16.03%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	8.7	0.2771 ug/L	0.06824	0.2771 ppb	0.06824	24.63%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	10.9	8.3292 ug/L	2.30972	8.3292 ppb	2.30972	27.73%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-3.6	-0.5487 ug/L	0.40563	-0.5487 ppb	0.40563	73.92%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-4.4	-7.8283 ug/L	1.88804	-7.8283 ppb	1.88804	24.12%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	6.7	2.7896 ug/L	1.68082	2.7896 ppb	1.68082	60.25%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	3.0	2.4693 ug/L	3.92697	2.4693 ppb	3.92697	159.03%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	30.9	1.1637 ug/L	0.46268	1.1637 ppb	0.46268	39.76%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	5.6	1.2608 ug/L	1.46400	1.2608 ppb	1.46400	116.12%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	5.8	0.0445 ug/L	0.06255	0.0445 ppb	0.06255	140.60%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-42.2	-0.0784 ug/L	0.06333	-0.0784 ppb	0.06333	80.77%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	3.0	1.1672 ug/L	2.55279	1.1672 ppb	2.55279	218.71%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-6.3	-0.1907 ug/L	0.14334	-0.1907 ppb	0.14334	75.18%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-15.5	-0.1248 ug/L	0.33691	-0.1248 ppb	0.33691	269.90%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	60.7	0.7305 ug/L	0.05002	0.7305 ppb	0.05002	6.85%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	20.8	1.6700 ug/L	0.80508	1.6700 ppb	0.80508	48.21%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 8

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/16/2010 15:37:19

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4070.7	4070.7	88.7 %		15:39:32
1	Y RADIAL	5315.4	5315.4	107.7 %		15:39:12
1	Al 396.153Radial†	152.0	257.1	241.24 ug/L	241.24 ppb	15:39:32
1	Ca 317.933Radial†	138.9	128.7	227.56 ug/L	227.56 ppb	15:39:32
1	Fe 238.204 Radial†	17.6	12.0	126.03 ug/L	126.03 ppb	15:39:32
1	K 766.490 Radial†	3286.9	1148.6	219.85 ug/L	219.85 ppb	15:39:12
1	Mg 279.077 IEC†	7.4	8.3	316.42 ug/L	316.42 ppb	15:39:32
1	Na 589.592 Radial†	-19.1	783.6	274.57 ug/L	274.57 ppb	15:39:12
1	Sr 421.552†	656.5	714.1	5.4537 ug/L	5.4537 ppb	15:39:12
1	Sc 361.383	822604.4	822604.4	101.19 %		15:40:29
1	Y 371.029	694677.7	694677.7	100.76 %		15:40:29
1	Ag 328.068†	1134.4	910.5	4.6912 ug/L	4.6912 ppb	15:40:29
1	As 188.979†	30.5	47.1	26.289 ug/L	26.289 ppb	15:40:49
1	B 249.677†	1467.8	1865.9	52.182 ug/L	52.182 ppb	15:40:29
1	Ba 233.527†	571.1	551.9	5.1796 ug/L	5.1796 ppb	15:40:49
1	Be 313.107†	8161.2	11794.2	5.0462 ug/L	5.0462 ppb	15:40:29
1	Cd 226.502†	172.0	346.3	5.0177 ug/L	5.0177 ppb	15:40:49
1	Co 228.616†	153.8	191.8	4.9943 ug/L	4.9943 ppb	15:40:49
1	Cr 267.716†	456.0	371.2	4.9848 ug/L	4.9848 ppb	15:40:49
1	Cu 324.752†	8486.5	2920.5	9.6463 ug/L	9.6463 ppb	15:40:29
1	Mn 257.610†	8532.5	7881.2	10.376 ug/L	10.376 ppb	15:40:29
1	Mo 202.031†	124.0	109.7	9.6555 ug/L	9.6555 ppb	15:40:49
1	Ni 231.604†	251.8	167.4	5.3260 ug/L	5.3260 ppb	15:40:49
1	P 214.914†	390.5	202.0	150.25 ug/L	150.25 ppb	15:40:49
1	Pb 220.353†	11.7	54.3	8.4405 ug/L	8.4405 ppb	15:40:49
1	S 181.975 Axial†	83.5	52.4	93.510 ug/L	93.510 ppb	15:40:49
1	Sb 206.836†	54.7	29.6	12.604 ug/L	12.604 ppb	15:40:49
1	Se 196.026†	14.5	33.1	27.912 ug/L	27.912 ppb	15:40:49
1	Si 251.611†	3111.6	2576.8	96.854 ug/L	96.854 ppb	15:40:49
1	Sn 189.927†	58.4	49.7	11.222 ug/L	11.222 ppb	15:40:49
1	Ti 334.940†	1916.5	2981.3	5.1334 ug/L	5.1334 ppb	15:40:29
1	Tl 190.801†	36.1	67.5	26.033 ug/L	26.033 ppb	15:40:49
1	U 409.014†	-464.6	1621.9	48.957 ug/L	48.957 ppb	15:40:29
1	V 292.402†	-670.4	655.2	5.4452 ug/L	5.4452 ppb	15:40:29
1	Zn 213.857†	1684.0	1047.1	12.584 ug/L	12.584 ppb	15:40:49
1	SiO2†	3243.2	2709.7	216.74 ug/L	216.74 ppb	15:41:45
2	Sc Radial	4397.3	4397.3	95.9 %		15:39:57
2	Y RADIAL	4946.8	4946.8	100.3 %		15:39:37
2	Al 396.153Radial†	141.3	233.2	218.79 ug/L	218.79 ppb	15:39:57
2	Ca 317.933Radial†	139.5	117.7	208.10 ug/L	208.10 ppb	15:39:57
2	Fe 238.204 Radial†	20.3	13.3	139.33 ug/L	139.33 ppb	15:39:57
2	K 766.490 Radial†	3351.9	941.1	180.11 ug/L	180.11 ppb	15:39:37
2	Mg 279.077 IEC†	11.6	12.0	457.28 ug/L	457.28 ppb	15:39:57
2	Na 589.592 Radial†	-6.5	798.3	279.71 ug/L	279.71 ppb	15:39:37
2	Sr 421.552†	679.0	682.6	5.2132 ug/L	5.2132 ppb	15:39:37
2	Sc 361.383	821706.8	821706.8	101.08 %		15:40:55
2	Y 371.029	694526.9	694526.9	100.74 %		15:40:55
2	Ag 328.068†	1127.9	905.3	4.6653 ug/L	4.6653 ppb	15:40:55
2	As 188.979†	29.3	46.0	25.679 ug/L	25.679 ppb	15:41:15
2	B 249.677†	1469.9	1869.6	52.283 ug/L	52.283 ppb	15:40:55
2	Ba 233.527†	549.2	530.9	4.9826 ug/L	4.9826 ppb	15:41:15
2	Be 313.107†	8151.2	11793.2	5.0453 ug/L	5.0453 ppb	15:40:55
2	Cd 226.502†	190.8	365.1	5.2897 ug/L	5.2897 ppb	15:41:15
2	Co 228.616†	158.3	196.5	5.1146 ug/L	5.1146 ppb	15:41:15
2	Cr 267.716†	454.9	370.5	4.9759 ug/L	4.9759 ppb	15:41:15
2	Cu 324.752†	8535.0	2977.6	9.8342 ug/L	9.8342 ppb	15:40:55
2	Mn 257.610†	8491.7	7850.0	10.331 ug/L	10.331 ppb	15:40:55
2	Mo 202.031†	123.4	109.3	9.6238 ug/L	9.6238 ppb	15:41:15
2	Ni 231.604†	253.5	169.4	5.3894 ug/L	5.3894 ppb	15:41:15

2	P 214.914†	399.1	210.9	156.91 ug/L	156.91 ppb	15:41:15
2	Pb 220.353†	15.1	57.7	8.9568 ug/L	8.9568 ppb	15:41:15
2	S 181.975 Axial†	80.2	49.2	87.860 ug/L	87.860 ppb	15:41:15
2	Sb 206.836†	49.7	24.7	10.543 ug/L	10.543 ppb	15:41:15
2	Se 196.026†	15.6	34.2	28.911 ug/L	28.911 ppb	15:41:15
2	Si 251.611†	3099.6	2568.3	96.535 ug/L	96.535 ppb	15:41:15
2	Sn 189.927†	49.5	40.9	9.2463 ug/L	9.2463 ppb	15:41:15
2	Ti 334.940†	1796.4	2864.5	4.9162 ug/L	4.9162 ppb	15:40:55
2	Tl 190.801†	16.6	48.3	18.640 ug/L	18.640 ppb	15:41:15
2	U 409.014†	-358.2	1726.6	52.119 ug/L	52.119 ppb	15:40:55
2	V 292.402†	-698.3	626.9	5.2256 ug/L	5.2256 ppb	15:40:55
2	Zn 213.857†	1705.8	1070.4	12.863 ug/L	12.863 ppb	15:41:15
2	SiO2†	3200.1	2670.6	213.60 ug/L	213.60 ppb	15:41:50
3	Sc Radial	4388.6	4388.6	95.7 %		15:40:23
3	Y RADIAL	4819.5	4819.5	97.67 %		15:40:02
3	Al 396.153Radial†	140.3	232.5	218.13 ug/L	218.13 ppb	15:40:23
3	Ca 317.933Radial†	133.1	111.3	196.78 ug/L	196.78 ppb	15:40:23
3	Fe 238.204 Radial†	18.1	11.1	115.95 ug/L	115.95 ppb	15:40:23
3	K 766.490 Radial†	3408.9	1007.7	192.86 ug/L	192.86 ppb	15:40:02
3	Mg 279.077 IEC†	11.1	11.6	439.86 ug/L	439.86 ppb	15:40:23
3	Na 589.592 Radial†	-17.9	786.3	275.52 ug/L	275.52 ppb	15:40:02
3	Sr 421.552†	657.9	661.9	5.0551 ug/L	5.0551 ppb	15:40:02
3	Sc 361.383	825707.9	825707.9	101.57 %		15:41:20
3	Y 371.029	698806.2	698806.2	101.36 %		15:41:20
3	Ag 328.068†	1221.0	991.5	5.1000 ug/L	5.1000 ppb	15:41:20
3	As 188.979†	23.7	40.4	22.534 ug/L	22.534 ppb	15:41:40
3	B 249.677†	1541.7	1933.2	54.069 ug/L	54.069 ppb	15:41:20
3	Ba 233.527†	565.2	544.0	5.1044 ug/L	5.1044 ppb	15:41:40
3	Be 313.107†	8282.3	11883.1	5.0839 ug/L	5.0839 ppb	15:41:20
3	Cd 226.502†	176.9	350.5	5.0807 ug/L	5.0807 ppb	15:41:40
3	Co 228.616†	140.4	178.0	4.6356 ug/L	4.6356 ppb	15:41:40
3	Cr 267.716†	439.5	353.1	4.7399 ug/L	4.7399 ppb	15:41:40
3	Cu 324.752†	8508.3	2910.4	9.6102 ug/L	9.6102 ppb	15:41:20
3	Mn 257.610†	8608.4	7924.2	10.427 ug/L	10.427 ppb	15:41:20
3	Mo 202.031†	122.6	107.9	9.4986 ug/L	9.4986 ppb	15:41:40
3	Ni 231.604†	248.6	163.3	5.1965 ug/L	5.1965 ppb	15:41:40
3	P 214.914†	391.2	201.3	149.72 ug/L	149.72 ppb	15:41:40
3	Pb 220.353†	26.3	68.7	10.648 ug/L	10.648 ppb	15:41:40
3	S 181.975 Axial†	88.1	56.6	101.02 ug/L	101.02 ppb	15:41:40
3	Sb 206.836†	47.2	22.0	9.4692 ug/L	9.4692 ppb	15:41:40
3	Se 196.026†	20.8	39.2	33.003 ug/L	33.003 ppb	15:41:40
3	Si 251.611†	3107.1	2560.8	96.252 ug/L	96.252 ppb	15:41:40
3	Sn 189.927†	59.8	50.8	11.476 ug/L	11.476 ppb	15:41:40
3	Ti 334.940†	1853.5	2912.1	4.9980 ug/L	4.9980 ppb	15:41:20
3	Tl 190.801†	31.3	62.6	24.154 ug/L	24.154 ppb	15:41:40
3	U 409.014†	-326.6	1759.4	53.113 ug/L	53.113 ppb	15:41:20
3	V 292.402†	-703.2	625.4	5.2170 ug/L	5.2170 ppb	15:41:20
3	Zn 213.857†	1692.0	1048.7	12.606 ug/L	12.606 ppb	15:41:40
3	SiO2†	3283.7	2737.5	218.97 ug/L	218.97 ppb	15:41:55

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	823339.7	101.28 %	0.258			0.25%
Sc Radial	4285.5	93.4 %	4.06			4.34%
Y 371.029	696003.6	100.95 %	0.352			0.35%
Y RADIAL	5027.2	101.9 %	5.22			5.12%
Ag 328.068†	935.7	4.8188 ug/L	0.24384	4.8188 ppb	0.24384	5.06%
QC value within limits for Ag 328.068 Recovery = 96.38%						
Al 396.153Radial†	240.9	226.05 ug/L	13.156	226.05 ppb	13.156	5.82%
QC value within limits for Al 396.153Radial Recovery = 113.02%						
As 188.979†	44.5	24.834 ug/L	2.0149	24.834 ppb	2.0149	8.11%
QC value within limits for As 188.979 Recovery = 82.78%						
B 249.677†	1889.6	52.845 ug/L	1.0617	52.845 ppb	1.0617	2.01%
QC value within limits for B 249.677 Recovery = 105.69%						
Ba 233.527†	542.2	5.0888 ug/L	0.09939	5.0888 ppb	0.09939	1.95%
QC value within limits for Ba 233.527 Recovery = 101.78%						
Be 313.107†	11823.5	5.0585 ug/L	0.02201	5.0585 ppb	0.02201	0.44%
QC value within limits for Be 313.107 Recovery = 101.17%						
Ca 317.933Radial†	119.3	210.81 ug/L	15.573	210.81 ppb	15.573	7.39%

QC value within limits for Ca 317.933 Radial Recovery = 105.41%							
Cd 226.502†	354.0	5.1293 ug/L	0.14236	5.1293 ppb	0.14236	2.78%	
QC value within limits for Cd 226.502 Recovery = 102.59%							
Co 228.616†	188.8	4.9148 ug/L	0.24919	4.9148 ppb	0.24919	5.07%	
QC value within limits for Co 228.616 Recovery = 98.30%							
Cr 267.716†	364.9	4.9002 ug/L	0.13887	4.9002 ppb	0.13887	2.83%	
QC value within limits for Cr 267.716 Recovery = 98.00%							
Cu 324.752†	2936.2	9.6969 ug/L	0.12027	9.6969 ppb	0.12027	1.24%	
QC value within limits for Cu 324.752 Recovery = 96.97%							
Fe 238.204 Radial†	12.1	127.10 ug/L	11.724	127.10 ppb	11.724	9.22%	
QC value within limits for Fe 238.204 Radial Recovery = 127.10%							
K 766.490 Radial†	1032.5	197.61 ug/L	20.289	197.61 ppb	20.289	10.27%	
QC value greater than the upper limit for K 766.490 Radial Recovery = 131.74%							
Mg 279.077 IEC†	10.6	404.52 ug/L	76.789	404.52 ppb	76.789	18.98%	
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 134.84%							
Mn 257.610†	7885.2	10.378 ug/L	0.0481	10.378 ppb	0.0481	0.46%	
QC value within limits for Mn 257.610 Recovery = 103.78%							
Mo 202.031†	108.9	9.5927 ug/L	0.08297	9.5927 ppb	0.08297	0.86%	
QC value within limits for Mo 202.031 Recovery = 95.93%							
Na 589.592 Radial†	789.4	276.60 ug/L	2.734	276.60 ppb	2.734	0.99%	
QC value within limits for Na 589.592 Radial Recovery = 92.20%							
Ni 231.604†	166.7	5.3040 ug/L	0.09832	5.3040 ppb	0.09832	1.85%	
QC value within limits for Ni 231.604 Recovery = 106.08%							
P 214.914†	204.7	152.29 ug/L	4.005	152.29 ppb	4.005	2.63%	
QC value within limits for P 214.914 Recovery = 101.53%							
Pb 220.353†	60.2	9.3486 ug/L	1.15490	9.3486 ppb	1.15490	12.35%	
QC value within limits for Pb 220.353 Recovery = 93.49%							
S 181.975 Axial†	52.7	94.131 ug/L	6.6031	94.131 ppb	6.6031	7.01%	
QC value within limits for S 181.975 Axial Recovery = 94.13%							
Sb 206.836†	25.4	10.872 ug/L	1.5931	10.872 ppb	1.5931	14.65%	
QC value within limits for Sb 206.836 Recovery = 108.72%							
Se 196.026†	35.5	29.942 ug/L	2.6974	29.942 ppb	2.6974	9.01%	
QC value within limits for Se 196.026 Recovery = 99.81%							
Si 251.611†	2568.6	96.547 ug/L	0.3011	96.547 ppb	0.3011	0.31%	
QC value within limits for Si 251.611 Recovery = 96.55%							
Sn 189.927†	47.2	10.648 ug/L	1.2205	10.648 ppb	1.2205	11.46%	
QC value within limits for Sn 189.927 Recovery = 106.48%							
Sr 421.552†	686.2	5.2407 ug/L	0.20072	5.2407 ppb	0.20072	3.83%	
QC value within limits for Sr 421.552 Recovery = 104.81%							
Ti 334.940†	2919.3	5.0159 ug/L	0.10973	5.0159 ppb	0.10973	2.19%	
QC value within limits for Ti 334.940 Recovery = 100.32%							
Tl 190.801†	59.4	22.942 ug/L	3.8426	22.942 ppb	3.8426	16.75%	
QC value within limits for Tl 190.801 Recovery = 114.71%							
U 409.014†	1702.6	51.396 ug/L	2.1699	51.396 ppb	2.1699	4.22%	
QC value within limits for U 409.014 Recovery = 102.79%							
V 292.402†	635.9	5.2959 ug/L	0.12933	5.2959 ppb	0.12933	2.44%	
QC value within limits for V 292.402 Recovery = 105.92%							
Zn 213.857†	1055.4	12.684 ug/L	0.1554	12.684 ppb	0.1554	1.23%	
QC value within limits for Zn 213.857 Recovery = 126.84%							
SiO2†	2705.9	216.44 ug/L	2.697	216.44 ppb	2.697	1.25%	
QC value within limits for SiO2 Recovery = 101.61%							
QC Failed. Continue with analysis.							

Sequence No.: 9

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 13

Date Collected: 3/16/2010 15:44:07

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4059.4	4059.4	88.5 %		15:46:05
1	Y RADIAL	4338.0	4338.0	87.92 %		15:46:05
1	Al 396.153Radial†	493213.6	557467.5	524080 ug/L	524080 ppb	15:46:00
1	Ca 317.933Radial†	243383.1	275019.9	486130 ug/L	486130 ppb	15:46:00
1	Fe 238.204 Radial†	15734.4	17773.6	186220 ug/L	186220 ppb	15:46:05
1	K 766.490 Radial†	2270.9	10.6	-160.54 ug/L	-160.54 ppb	15:46:05
1	Mg 279.077 IEC†	11357.1	12834.6	488220 ug/L	488220 ppb	15:46:05
1	Na 589.592 Radial†	-749.6	-42.0	-14.728 ug/L	-14.728 ppb	15:46:05
1	Sr 421.552†	453.5	486.7	0.0882 ug/L	0.0882 ppb	15:46:05
1	Sc 361.383	701153.6	701153.6	86.250 %		15:46:32
1	Y 371.029	579484.6	579484.6	84.052 %		15:46:32
1	Ag 328.068†	-8589.0	-10168.8	-1.1942 ug/L	-1.1942 ppb	15:46:32
1	As 188.979†	-65.5	-58.9	10.673 ug/L	10.673 ppb	15:46:52
1	B 249.677†	267.8	725.9	-9.9315 ug/L	-9.9315 ppb	15:46:32
1	Ba 233.527†	-480.9	-570.1	0.3652 ug/L	0.3652 ppb	15:46:52
1	Be 313.107†	-4145.5	-1077.3	-0.5198 ug/L	-0.5198 ppb	15:46:32
1	Cd 226.502†	1065.1	1411.3	1.2236 ug/L	1.2236 ppb	15:46:52
1	Co 228.616†	4.1	44.6	-1.5256 ug/L	-1.5256 ppb	15:46:52
1	Cr 267.716†	-1197.1	-1467.4	0.0332 ug/L	0.0332 ppb	15:46:52
1	Cu 324.752†	2817.8	-2199.3	2.5558 ug/L	2.5558 ppb	15:46:32
1	Mn 257.610†	-127.7	-699.0	-2.4977 ug/L	-2.4977 ppb	15:46:32
1	Mo 202.031†	-221.8	-270.0	-3.4997 ug/L	-3.4997 ppb	15:46:52
1	Ni 231.604†	237.1	193.5	6.1602 ug/L	6.1602 ppb	15:46:52
1	P 214.914†	156.4	-2.6	-20.670 ug/L	-20.670 ppb	15:46:52
1	Pb 220.353†	-601.3	-654.3	-4.7426 ug/L	-4.7426 ppb	15:46:52
1	S 181.975 Axial†	47.4	24.8	-53.872 ug/L	-53.872 ppb	15:46:52
1	Sb 206.836†	70.2	56.9	5.6102 ug/L	5.6102 ppb	15:46:52
1	Se 196.026†	-756.1	-857.8	-9.6599 ug/L	-9.6599 ppb	15:46:52
1	Si 251.611†	414.9	-17.1	-0.3524 ug/L	-0.3524 ppb	15:46:52
1	Sn 189.927†	-338.6	-400.6	-14.520 ug/L	-14.520 ppb	15:46:52
1	Ti 334.940†	-14105.8	-15267.2	-1.0838 ug/L	-1.0838 ppb	15:46:32
1	Tl 190.801†	-57.8	-35.2	-13.825 ug/L	-13.825 ppb	15:46:52
1	U 409.014†	-691.0	1279.8	17.466 ug/L	17.466 ppb	15:46:32
1	V 292.402†	523.4	1924.5	-2.5399 ug/L	-2.5399 ppb	15:46:52
1	Zn 213.857†	2594.5	2391.0	0.9876 ug/L	0.9876 ppb	15:46:52
1	SiO2†	399.1	-32.6	-1.9632 ug/L	-1.9632 ppb	15:47:49
2	Sc Radial	4126.3	4126.3	89.9 %		15:46:15
2	Y RADIAL	4414.2	4414.2	89.46 %		15:46:15
2	Al 396.153Radial†	498476.5	554290.1	521100 ug/L	521100 ppb	15:46:10
2	Ca 317.933Radial†	245772.3	273220.9	482950 ug/L	482950 ppb	15:46:10
2	Fe 238.204 Radial†	16066.6	17854.9	187070 ug/L	187070 ppb	15:46:15
2	K 766.490 Radial†	2221.7	-85.6	-177.93 ug/L	-177.93 ppb	15:46:15
2	Mg 279.077 IEC†	11600.8	12897.6	490610 ug/L	490610 ppb	15:46:15
2	Na 589.592 Radial†	-754.2	-33.5	-11.724 ug/L	-11.724 ppb	15:46:15
2	Sr 421.552†	481.5	509.6	0.2868 ug/L	0.2868 ppb	15:46:15
2	Sc 361.383	704610.5	704610.5	86.676 %		15:46:58
2	Y 371.029	581977.8	581977.8	84.414 %		15:46:58
2	Ag 328.068†	-8594.2	-10126.0	-0.6650 ug/L	-0.6650 ppb	15:46:58
2	As 188.979†	-72.2	-66.2	6.7990 ug/L	6.7990 ppb	15:47:18
2	B 249.677†	220.5	669.7	-11.640 ug/L	-11.640 ppb	15:46:58
2	Ba 233.527†	-468.5	-553.0	0.5514 ug/L	0.5514 ppb	15:47:18
2	Be 313.107†	-4160.6	-1071.2	-0.5160 ug/L	-0.5160 ppb	15:46:58
2	Cd 226.502†	1081.8	1424.4	1.3250 ug/L	1.3250 ppb	15:47:18
2	Co 228.616†	-7.6	31.1	-1.8859 ug/L	-1.8859 ppb	15:47:18
2	Cr 267.716†	-1172.9	-1432.7	0.5909 ug/L	0.5909 ppb	15:47:18
2	Cu 324.752†	2970.8	-2038.8	3.1334 ug/L	3.1334 ppb	15:46:58
2	Mn 257.610†	-149.7	-723.6	-2.5440 ug/L	-2.5440 ppb	15:46:58
2	Mo 202.031†	-205.6	-250.0	-1.7162 ug/L	-1.7162 ppb	15:47:18
2	Ni 231.604†	222.9	175.8	5.5957 ug/L	5.5957 ppb	15:47:18

2	P 214.914†	155.7	-4.2	-23.461 ug/L	-23.461 ppb	15:47:18
2	Pb 220.353†	-651.7	-709.1	-14.023 ug/L	-14.023 ppb	15:47:18
2	S 181.975 Axial†	29.8	4.2	-90.149 ug/L	-90.149 ppb	15:47:18
2	Sb 206.836†	70.2	56.5	5.5061 ug/L	5.5061 ppb	15:47:18
2	Se 196.026†	-750.5	-847.1	0.7430 ug/L	0.7430 ppb	15:47:18
2	Si 251.611†	410.4	-24.7	-0.6584 ug/L	-0.6584 ppb	15:47:18
2	Sn 189.927†	-344.7	-405.7	-16.290 ug/L	-16.290 ppb	15:47:18
2	Ti 334.940†	-13930.6	-14984.8	-1.2171 ug/L	-1.2171 ppb	15:46:58
2	Tl 190.801†	-65.3	-43.5	-17.013 ug/L	-17.013 ppb	15:47:18
2	U 409.014†	-761.1	1202.9	15.046 ug/L	15.046 ppb	15:46:58
2	V 292.402†	553.6	1956.5	-2.3429 ug/L	-2.3429 ppb	15:47:18
2	Zn 213.857†	2599.4	2381.8	0.7526 ug/L	0.7526 ppb	15:47:18
2	SiO2†	411.3	-20.8	-1.0655 ug/L	-1.0655 ppb	15:47:54
3	Sc Radial	4128.3	4128.3	90.0 %		15:46:26
3	Y RADIAL	4429.7	4429.7	89.77 %		15:46:26
3	Al 396.153Radial†	500050.4	555770.2	522490 ug/L	522490 ppb	15:46:20
3	Ca 317.933Radial†	245872.1	273199.2	482910 ug/L	482910 ppb	15:46:20
3	Fe 238.204 Radial†	16035.6	17811.8	186620 ug/L	186620 ppb	15:46:26
3	K 766.490 Radial†	2254.9	-49.9	-171.08 ug/L	-171.08 ppb	15:46:26
3	Mg 279.077 IEC†	11564.8	12851.4	488850 ug/L	488850 ppb	15:46:26
3	Na 589.592 Radial†	-703.3	23.6	8.2545 ug/L	8.2545 ppb	15:46:26
3	Sr 421.552†	458.2	483.4	0.0867 ug/L	0.0867 ppb	15:46:26
3	Sc 361.383	699261.6	699261.6	86.018 %		15:47:23
3	Y 371.029	577938.5	577938.5	83.828 %		15:47:23
3	Ag 328.068†	-8666.3	-10285.6	-1.6232 ug/L	-1.6232 ppb	15:47:23
3	As 188.979†	-71.5	-66.1	6.7590 ug/L	6.7590 ppb	15:47:43
3	B 249.677†	127.8	563.9	-14.529 ug/L	-14.529 ppb	15:47:23
3	Ba 233.527†	-479.2	-569.6	0.3817 ug/L	0.3817 ppb	15:47:43
3	Be 313.107†	-4131.2	-1073.7	-0.5185 ug/L	-0.5185 ppb	15:47:23
3	Cd 226.502†	1046.8	1393.3	0.9205 ug/L	0.9205 ppb	15:47:43
3	Co 228.616†	19.4	62.4	-1.0660 ug/L	-1.0660 ppb	15:47:43
3	Cr 267.716†	-1192.2	-1465.5	0.1027 ug/L	0.1027 ppb	15:47:43
3	Cu 324.752†	2931.8	-2057.8	3.0478 ug/L	3.0478 ppb	15:47:23
3	Mn 257.610†	-267.2	-861.6	-2.6983 ug/L	-2.6983 ppb	15:47:23
3	Mo 202.031†	-211.5	-258.7	-2.5162 ug/L	-2.5162 ppb	15:47:43
3	Ni 231.604†	234.7	191.4	6.0924 ug/L	6.0924 ppb	15:47:43
3	P 214.914†	159.7	1.7	-18.196 ug/L	-18.196 ppb	15:47:43
3	Pb 220.353†	-629.5	-689.0	-10.546 ug/L	-10.546 ppb	15:47:43
3	S 181.975 Axial†	41.9	18.5	-64.824 ug/L	-64.824 ppb	15:47:43
3	Sb 206.836†	59.6	44.8	0.7020 ug/L	0.7020 ppb	15:47:43
3	Se 196.026†	-743.3	-845.3	1.3600 ug/L	1.3600 ppb	15:47:43
3	Si 251.611†	385.7	-49.9	-1.5965 ug/L	-1.5965 ppb	15:47:43
3	Sn 189.927†	-325.6	-386.5	-11.956 ug/L	-11.956 ppb	15:47:43
3	Ti 334.940†	-14118.4	-15326.1	-1.6671 ug/L	-1.6671 ppb	15:47:23
3	Tl 190.801†	-68.3	-47.6	-18.588 ug/L	-18.588 ppb	15:47:43
3	U 409.014†	-827.8	1118.7	12.555 ug/L	12.555 ppb	15:47:23
3	V 292.402†	503.3	1902.8	-2.7545 ug/L	-2.7545 ppb	15:47:43
3	Zn 213.857†	2577.5	2379.4	0.7873 ug/L	0.7873 ppb	15:47:43
3	SiO2†	341.0	-98.9	-7.3007 ug/L	-7.3007 ppb	15:47:59

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	701675.2	86.314 %	0.3337			0.39%
Sc Radial	4104.7	89.5 %	0.85			0.95%
Y 371.029	579800.3	84.098 %	0.2956			0.35%
Y RADIAL	4394.0	89.05 %	0.994			1.12%
Ag 328.068†	-10193.5	-1.1608 ug/L	0.48000	-1.1608 ppb	0.48000	41.35%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	555842.6	522560 ug/L	1494.7	522560 ppb	1494.7	0.29%
QC value within limits for Al 396.153Radial Recovery = 104.51%						
As 188.979†	-63.7	8.0771 ug/L	2.24859	8.0771 ppb	2.24859	27.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	653.2	-12.033 ug/L	2.3238	-12.033 ppb	2.3238	19.31%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-564.2	0.4328 ug/L	0.10307	0.4328 ppb	0.10307	23.82%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-1074.1	-0.5181 ug/L	0.00189	-0.5181 ppb	0.00189	0.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	273813.3	484000 ug/L	1847.1	484000 ppb	1847.1	0.38%

QC value within limits for Ca 317.933 Radial Recovery = 96.80%

Cd 226.502† 1409.6 1.1564 ug/L 0.21043 1.1564 ppb 0.21043 18.20%

QC value within limits for Cd 226.502 Recovery = Not calculated

Co 228.616† 46.0 -1.4925 ug/L 0.41098 -1.4925 ppb 0.41098 27.54%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716† -1455.2 0.2423 ug/L 0.30392 0.2423 ppb 0.30392 125.45%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752† -2098.6 2.9123 ug/L 0.31174 2.9123 ppb 0.31174 10.70%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 238.204 Radial† 17813.4 186640 ug/L 426.0 186640 ppb 426.0 0.23%

QC value within limits for Fe 238.204 Radial Recovery = 93.32%

K 766.490 Radial† -41.6 -169.85 ug/L 8.758 -169.85 ppb 8.758 5.16%

QC value within limits for K 766.490 Radial Recovery = Not calculated

Mg 279.077 IEC† 12861.2 489230 ug/L 1240.8 489230 ppb 1240.8 0.25%

QC value within limits for Mg 279.077 IEC Recovery = 97.85%

Mn 257.610† -761.4 -2.5800 ug/L 0.10501 -2.5800 ppb 0.10501 4.07%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031† -259.5 -2.5774 ug/L 0.89332 -2.5774 ppb 0.89332 34.66%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592 Radial† -17.3 -6.0657 ug/L 12.49227 -6.0657 ppb 12.49227 205.95%

QC value within limits for Na 589.592 Radial Recovery = Not calculated

Ni 231.604† 186.9 5.9494 ug/L 0.30821 5.9494 ppb 0.30821 5.18%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914† -1.7 -20.776 ug/L 2.6338 -20.776 ppb 2.6338 12.68%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353† -684.2 -9.7705 ug/L 4.68849 -9.7705 ppb 4.68849 47.99%

QC value within limits for Pb 220.353 Recovery = Not calculated

S 181.975 Axial† 15.9 -69.615 ug/L 18.6068 -69.615 ppb 18.6068 26.73%

QC value within limits for S 181.975 Axial Recovery = Not calculated

Sb 206.836† 52.7 3.9395 ug/L 2.80419 3.9395 ppb 2.80419 71.18%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026† -850.1 -2.5190 ug/L 6.19192 -2.5190 ppb 6.19192 245.81%

QC value within limits for Se 196.026 Recovery = Not calculated

Si 251.611† -30.6 -0.8691 ug/L 0.64828 -0.8691 ppb 0.64828 74.59%

QC value within limits for Si 251.611 Recovery = Not calculated

Sn 189.927† -397.6 -14.255 ug/L 2.1793 -14.255 ppb 2.1793 15.29%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 421.552† 493.2 0.1539 ug/L 0.11514 0.1539 ppb 0.11514 74.81%

QC value within limits for Sr 421.552 Recovery = Not calculated

Ti 334.940† -15192.7 -1.3227 ug/L 0.30563 -1.3227 ppb 0.30563 23.11%

QC value within limits for Ti 334.940 Recovery = Not calculated

Tl 190.801† -42.1 -16.475 ug/L 2.4262 -16.475 ppb 2.4262 14.73%

QC value within limits for Tl 190.801 Recovery = Not calculated

U 409.014† 1200.5 15.022 ug/L 2.4556 15.022 ppb 2.4556 16.35%

QC value within limits for U 409.014 Recovery = Not calculated

V 292.402† 1927.9 -2.5458 ug/L 0.20585 -2.5458 ppb 0.20585 8.09%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857† 2384.1 0.8425 ug/L 0.12684 0.8425 ppb 0.12684 15.06%

QC value within limits for Zn 213.857 Recovery = Not calculated

SiO2† -50.8 -3.4432 ug/L 3.37079 -3.4432 ppb 3.37079 97.90%

QC value within limits for SiO2 Recovery = Not calculated

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 14
 Date Collected: 3/16/2010 15:50:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4113.8	4113.8	89.7 %			15:52:22
1	Y RADIAL	4411.2	4411.2	89.40 %			15:52:22
1	Al 396.153Radial†	500130.7	557817.6	524390 ug/L		524390 ppb	15:52:02
1	Ca 317.933Radial†	245814.3	274097.4	484500 ug/L		484500 ppb	15:52:02
1	Fe 238.204 Radial†	16002.2	17837.4	186900 ug/L		186900 ppb	15:52:22
1	K 766.490 Radial†	28373.2	29085.2	5407.1 ug/L		5407.1 ppb	15:52:02
1	Mg 279.077 IEC†	11688.8	13034.9	495840 ug/L		495840 ppb	15:52:22
1	Na 589.592 Radial†	13723.6	16109.3	5644.5 ug/L		5644.5 ppb	15:52:02
1	Sr 421.552†	61877.8	68978.6	523.33 ug/L		523.33 ppb	15:52:02
1	Sc 361.383	723552.7	723552.7	89.006 %			15:53:20
1	Y 371.029	596200.2	596200.2	86.476 %			15:53:20
1	Ag 328.068†	38936.2	43535.2	276.41 ug/L		276.41 ppb	15:53:20
1	As 188.979†	771.9	884.3	539.05 ug/L		539.05 ppb	15:53:40
1	B 249.677†	17133.5	19665.2	518.69 ug/L		518.69 ppb	15:53:20
1	Ba 233.527†	47013.1	52807.9	500.98 ug/L		500.98 ppb	15:53:20
1	Be 313.107†	520282.7	588279.0	252.23 ug/L		252.23 ppb	15:53:20
1	Cd 226.502†	29696.1	33540.7	467.05 ug/L		467.05 ppb	15:53:40
1	Co 228.616†	15443.6	17391.1	449.22 ug/L		449.22 ppb	15:53:40
1	Cr 267.716†	31503.2	35315.1	494.51 ug/L		494.51 ppb	15:53:20
1	Cu 324.752†	152535.2	165910.6	558.75 ug/L		558.75 ppb	15:53:20
1	Mn 257.610†	328995.0	369082.8	484.12 ug/L		484.12 ppb	15:53:20
1	Mo 202.031†	4756.8	5331.5	489.12 ug/L		489.12 ppb	15:53:40
1	Ni 231.604†	12817.5	14319.3	455.64 ug/L		455.64 ppb	15:53:40
1	P 214.914†	3157.4	3363.5	2408.0 ug/L		2408.0 ppb	15:53:40
1	Pb 220.353†	2052.9	2349.3	459.51 ug/L		459.51 ppb	15:53:40
1	S 181.975 Axial†	1359.8	1497.6	2575.7 ug/L		2575.7 ppb	15:53:40
1	Sb 206.836†	1184.2	1306.0	540.75 ug/L		540.75 ppb	15:53:40
1	Se 196.026†	1982.8	2246.6	2570.1 ug/L		2570.1 ppb	15:53:40
1	Si 251.611†	125651.0	140673.7	5288.2 ug/L		5288.2 ppb	15:53:20
1	Sn 189.927†	1622.4	1814.8	483.96 ug/L		483.96 ppb	15:53:40
1	Ti 334.940†	252426.8	284694.8	516.05 ug/L		516.05 ppb	15:53:20
1	Tl 190.801†	971.0	1122.8	435.74 ug/L		435.74 ppb	15:53:40
1	U 409.014†	14199.9	18034.9	522.31 ug/L		522.31 ppb	15:53:20
1	V 292.402†	57989.7	66470.5	520.38 ug/L		520.38 ppb	15:53:20
1	Zn 213.857†	39747.9	44040.6	500.43 ug/L		500.43 ppb	15:53:20
1	SiO2†	124317.9	139178.8	11133 ug/L		11133 ppb	15:54:38
2	Sc Radial	4132.8	4132.8	90.1 %			15:52:48
2	Y RADIAL	4431.0	4431.0	89.80 %			15:52:48
2	Al 396.153Radial†	495042.5	549610.3	516670 ug/L		516670 ppb	15:52:28
2	Ca 317.933Radial†	243710.0	270503.7	478150 ug/L		478150 ppb	15:52:28
2	Fe 238.204 Radial†	16008.2	17762.1	186110 ug/L		186110 ppb	15:52:48
2	K 766.490 Radial†	28106.3	28643.8	5324.7 ug/L		5324.7 ppb	15:52:28
2	Mg 279.077 IEC†	11675.1	12960.0	492990 ug/L		492990 ppb	15:52:48
2	Na 589.592 Radial†	13440.4	15724.7	5509.7 ug/L		5509.7 ppb	15:52:28
2	Sr 421.552†	61153.5	67858.0	514.82 ug/L		514.82 ppb	15:52:28
2	Sc 361.383	713071.2	713071.2	87.716 %			15:53:46
2	Y 371.029	587827.1	587827.1	85.262 %			15:53:46
2	Ag 328.068†	38221.8	43363.7	275.37 ug/L		275.37 ppb	15:53:46
2	As 188.979†	735.7	855.8	522.97 ug/L		522.97 ppb	15:54:06
2	B 249.677†	16846.4	19620.9	517.57 ug/L		517.57 ppb	15:53:46
2	Ba 233.527†	46300.1	52771.5	500.62 ug/L		500.62 ppb	15:53:46
2	Be 313.107†	511474.6	586829.8	251.61 ug/L		251.61 ppb	15:53:46
2	Cd 226.502†	29407.5	33702.0	469.48 ug/L		469.48 ppb	15:54:06
2	Co 228.616†	15349.2	17538.5	453.07 ug/L		453.07 ppb	15:54:06
2	Cr 267.716†	31148.5	35431.0	495.98 ug/L		495.98 ppb	15:53:46
2	Cu 324.752†	149743.6	165247.2	556.52 ug/L		556.52 ppb	15:53:46
2	Mn 257.610†	323911.4	368720.5	483.68 ug/L		483.68 ppb	15:53:46
2	Mo 202.031†	4739.2	5390.0	494.13 ug/L		494.13 ppb	15:54:06
2	Ni 231.604†	12709.9	14408.4	458.47 ug/L		458.47 ppb	15:54:06

2	P 214.914†	3110.6	3362.2	2406.2 ug/L	2406.2 ppb	15:54:06
2	Pb 220.353†	2050.4	2380.3	462.63 ug/L	462.63 ppb	15:54:06
2	S 181.975 Axial†	1349.0	1507.8	2595.3 ug/L	2595.3 ppb	15:54:06
2	Sb 206.836†	1192.3	1334.8	553.06 ug/L	553.06 ppb	15:54:06
2	Se 196.026†	1938.7	2228.9	2550.8 ug/L	2550.8 ppb	15:54:06
2	Si 251.611†	123706.8	140532.3	5282.8 ug/L	5282.8 ppb	15:53:46
2	Sn 189.927†	1609.8	1827.3	485.69 ug/L	485.69 ppb	15:54:06
2	Ti 334.940†	248631.7	284537.0	515.16 ug/L	515.16 ppb	15:53:46
2	Tl 190.801†	966.6	1133.8	439.95 ug/L	439.95 ppb	15:54:06
2	U 409.014†	13890.1	17916.2	518.81 ug/L	518.81 ppb	15:53:46
2	V 292.402†	57029.9	66334.0	519.41 ug/L	519.41 ppb	15:53:46
2	Zn 213.857†	39034.8	43884.0	498.64 ug/L	498.64 ppb	15:53:46
2	SiO2†	123611.3	140426.3	11233 ug/L	11233 ppb	15:54:43
3	Sc Radial	4150.5	4150.5	90.5 %		15:53:13
3	Y RADIAL	4446.2	4446.2	90.11 %		15:53:13
3	Al 396.153Radial†	501050.0	553895.4	520700 ug/L	520700 ppb	15:52:53
3	Ca 317.933Radial†	246195.4	272091.5	480950 ug/L	480950 ppb	15:52:53
3	Fe 238.204 Radial†	16100.8	17788.3	186390 ug/L	186390 ppb	15:53:13
3	K 766.490 Radial†	28150.7	28559.2	5307.6 ug/L	5307.6 ppb	15:52:53
3	Mg 279.077 IEC†	11765.7	13004.5	494690 ug/L	494690 ppb	15:53:13
3	Na 589.592 Radial†	13514.0	15742.1	5515.8 ug/L	5515.8 ppb	15:52:53
3	Sr 421.552†	61699.8	68170.9	517.19 ug/L	517.19 ppb	15:52:53
3	Sc 361.383	714565.0	714565.0	87.900 %		15:54:12
3	Y 371.029	588870.0	588870.0	85.413 %		15:54:12
3	Ag 328.068†	38539.5	43634.1	276.80 ug/L	276.80 ppb	15:54:12
3	As 188.979†	748.5	868.5	530.14 ug/L	530.14 ppb	15:54:32
3	B 249.677†	17009.4	19766.2	521.59 ug/L	521.59 ppb	15:54:12
3	Ba 233.527†	46267.4	52623.8	499.24 ug/L	499.24 ppb	15:54:12
3	Be 313.107†	512413.5	586678.9	251.55 ug/L	251.55 ppb	15:54:12
3	Cd 226.502†	29599.2	33850.0	471.59 ug/L	471.59 ppb	15:54:32
3	Co 228.616†	15446.3	17612.3	454.99 ug/L	454.99 ppb	15:54:32
3	Cr 267.716†	31047.0	35241.2	493.46 ug/L	493.46 ppb	15:54:12
3	Cu 324.752†	150554.5	165812.8	558.40 ug/L	558.40 ppb	15:54:12
3	Mn 257.610†	324431.5	368540.2	483.40 ug/L	483.40 ppb	15:54:12
3	Mo 202.031†	4765.6	5408.8	495.83 ug/L	495.83 ppb	15:54:32
3	Ni 231.604†	12832.1	14517.1	461.93 ug/L	461.93 ppb	15:54:32
3	P 214.914†	3154.4	3404.7	2438.5 ug/L	2438.5 ppb	15:54:32
3	Pb 220.353†	2051.7	2376.9	463.01 ug/L	463.01 ppb	15:54:32
3	S 181.975 Axial†	1362.2	1519.5	2615.5 ug/L	2615.5 ppb	15:54:32
3	Sb 206.836†	1195.1	1335.1	553.14 ug/L	553.14 ppb	15:54:32
3	Se 196.026†	1972.7	2263.0	2581.1 ug/L	2581.1 ppb	15:54:32
3	Si 251.611†	123907.2	140465.4	5280.3 ug/L	5280.3 ppb	15:54:12
3	Sn 189.927†	1617.9	1832.6	487.36 ug/L	487.36 ppb	15:54:32
3	Ti 334.940†	248943.8	284299.5	514.99 ug/L	514.99 ppb	15:54:12
3	Tl 190.801†	982.7	1149.8	446.09 ug/L	446.09 ppb	15:54:32
3	U 409.014†	14010.4	18020.0	521.92 ug/L	521.92 ppb	15:54:12
3	V 292.402†	57099.1	66276.8	518.98 ug/L	518.98 ppb	15:54:12
3	Zn 213.857†	39095.8	43860.5	498.29 ug/L	498.29 ppb	15:54:12
3	SiO2†	123775.4	140318.4	11224 ug/L	11224 ppb	15:54:48

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	717062.9	88.207 %	0.6974			0.79%
Sc Radial	4132.4	90.1 %	0.40			0.44%
Y 371.029	590965.8	85.717 %	0.6618			0.77%
Y RADIAL	4429.5	89.77 %	0.355			0.40%
Ag 328.068†	43511.0	276.19 ug/L	0.739	276.19 ppb	0.739	0.27%
QC value within limits for Ag 328.068 Recovery = 110.48%						
Al 396.153Radial†	553774.4	520590 ug/L	3859.3	520590 ppb	3859.3	0.74%
QC value within limits for Al 396.153Radial Recovery = 104.12%						
As 188.979†	869.5	530.72 ug/L	8.056	530.72 ppb	8.056	1.52%
QC value within limits for As 188.979 Recovery = 106.14%						
B 249.677†	19684.1	519.28 ug/L	2.072	519.28 ppb	2.072	0.40%
QC value within limits for B 249.677 Recovery = 103.86%						
Ba 233.527†	52734.4	500.28 ug/L	0.918	500.28 ppb	0.918	0.18%
QC value within limits for Ba 233.527 Recovery = 100.06%						
Be 313.107†	587262.6	251.80 ug/L	0.378	251.80 ppb	0.378	0.15%
QC value within limits for Be 313.107 Recovery = 100.72%						
Ca 317.933Radial†	272230.8	481200 ug/L	3183.3	481200 ppb	3183.3	0.66%

QC value within limits for Ca 317.933 Radial Recovery = 96.24%

Cd 226.502†	33697.6	469.37 ug/L	2.271	469.37 ppb	2.271	0.48%
QC value within limits for Cd 226.502 Recovery = 93.87%						
Co 228.616†	17514.0	452.43 ug/L	2.940	452.43 ppb	2.940	0.65%
QC value within limits for Co 228.616 Recovery = 90.49%						
Cr 267.716†	35329.1	494.65 ug/L	1.266	494.65 ppb	1.266	0.26%
QC value within limits for Cr 267.716 Recovery = 98.93%						
Cu 324.752†	165656.9	557.89 ug/L	1.202	557.89 ppb	1.202	0.22%
QC value within limits for Cu 324.752 Recovery = 111.58%						
Fe 238.204 Radial†	17795.9	186470 ug/L	400.1	186470 ppb	400.1	0.21%
QC value within limits for Fe 238.204 Radial Recovery = 93.23%						
K 766.490 Radial†	28762.7	5346.5 ug/L	53.22	5346.5 ppb	53.22	1.00%
QC value within limits for K 766.490 Radial Recovery = 106.93%						
Mg 279.077 IEC†	12999.8	494510 ug/L	1434.3	494510 ppb	1434.3	0.29%
QC value within limits for Mg 279.077 IEC Recovery = 98.90%						
Mn 257.610†	368781.2	483.73 ug/L	0.362	483.73 ppb	0.362	0.07%
QC value within limits for Mn 257.610 Recovery = 96.75%						
Mo 202.031†	5376.8	493.03 ug/L	3.489	493.03 ppb	3.489	0.71%
QC value within limits for Mo 202.031 Recovery = 98.61%						
Na 589.592 Radial†	15858.7	5556.7 ug/L	76.10	5556.7 ppb	76.10	1.37%
QC value within limits for Na 589.592 Radial Recovery = 111.13%						
Ni 231.604†	14414.9	458.68 ug/L	3.152	458.68 ppb	3.152	0.69%
QC value within limits for Ni 231.604 Recovery = 91.74%						
P 214.914†	3376.8	2417.6 ug/L	18.21	2417.6 ppb	18.21	0.75%
QC value within limits for P 214.914 Recovery = 96.70%						
Pb 220.353†	2368.8	461.71 ug/L	1.917	461.71 ppb	1.917	0.42%
QC value within limits for Pb 220.353 Recovery = 92.34%						
S 181.975 Axial†	1508.3	2595.5 ug/L	19.90	2595.5 ppb	19.90	0.77%
QC value within limits for S 181.975 Axial Recovery = 103.82%						
Sb 206.836†	1325.3	548.98 ug/L	7.131	548.98 ppb	7.131	1.30%
QC value within limits for Sb 206.836 Recovery = 109.80%						
Se 196.026†	2246.2	2567.3 ug/L	15.38	2567.3 ppb	15.38	0.60%
QC value within limits for Se 196.026 Recovery = 102.69%						
Si 251.611†	140557.2	5283.8 ug/L	4.05	5283.8 ppb	4.05	0.08%
QC value within limits for Si 251.611 Recovery = 105.68%						
Sn 189.927†	1824.9	485.67 ug/L	1.700	485.67 ppb	1.700	0.35%
QC value within limits for Sn 189.927 Recovery = 97.13%						
Sr 421.552†	68335.9	518.45 ug/L	4.394	518.45 ppb	4.394	0.85%
QC value within limits for Sr 421.552 Recovery = 103.69%						
Ti 334.940†	284510.4	515.40 ug/L	0.571	515.40 ppb	0.571	0.11%
QC value within limits for Ti 334.940 Recovery = 103.08%						
Tl 190.801†	1135.4	440.59 ug/L	5.206	440.59 ppb	5.206	1.18%
QC value within limits for Tl 190.801 Recovery = 88.12%						
U 409.014†	17990.4	521.01 ug/L	1.917	521.01 ppb	1.917	0.37%
QC value within limits for U 409.014 Recovery = 104.20%						
V 292.402†	66360.5	519.59 ug/L	0.716	519.59 ppb	0.716	0.14%
QC value within limits for V 292.402 Recovery = 103.92%						
Zn 213.857†	43928.4	499.12 ug/L	1.147	499.12 ppb	1.147	0.23%
QC value within limits for Zn 213.857 Recovery = 99.82%						
SiO2†	139974.5	11197 ug/L	55.3	11197 ppb	55.3	0.49%
QC value within limits for SiO2 Recovery = 104.69%						

All analyte(s) passed QC.

Sequence No.: 11

Sample ID: LR1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 15

Date Collected: 3/16/2010 15:56:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3922.8	3922.8	85.5 %		15:59:11
1	Y RADIAL	4231.7	4231.7	85.76 %		15:59:11
1	Al 396.153Radial†	468774.9	548301.6	515470 ug/L	515470 ppb	15:58:51
1	Ca 317.933Radial†	231360.2	270539.8	478210 ug/L	478210 ppb	15:58:51
1	Fe 238.204 Radial†	34873.2	40775.2	427220 ug/L	427220 ppb	15:59:11
1	K 766.490 Radial†	2564.1	442.9	-279.20 ug/L	-279.20 ppb	15:58:51
1	Mg 279.077 IEC†	11042.3	12913.5	490970 ug/L	490970 ppb	15:59:11
1	Na 589.592 Radial†	1276475.4	1493598.3	523340 ug/L	523340 ppb	15:58:51
1	Sr 421.552†	1438.8	1656.9	9.0869 ug/L	9.0869 ppb	15:59:11
1	Sc 361.383	686146.2	686146.2	84.404 %		16:00:09
1	Y 371.029	568220.1	568220.1	82.418 %		16:00:09
1	Ag 328.068†	-19678.6	-23525.3	-7.4421 ug/L	-7.4421 ppb	16:00:09
1	As 188.979†	-166.1	-179.7	-0.0348 ug/L	-0.0348 ppb	16:00:29
1	B 249.677†	1032.0	1638.0	-23.558 ug/L	-23.558 ppb	16:00:09
1	Ba 233.527†	-1344.6	-1605.6	-1.9760 ug/L	-1.9760 ppb	16:00:29
1	Be 313.107†	-9786.5	-7865.8	-3.4088 ug/L	-3.4088 ppb	16:00:09
1	Cd 226.502†	2628.4	3290.4	6.5010 ug/L	6.5010 ppb	16:00:29
1	Co 228.616†	199.4	276.1	0.9499 ug/L	0.9499 ppb	16:00:29
1	Cr 267.716†	-931.7	-1183.3	23.396 ug/L	23.396 ppb	16:00:29
1	Cu 324.752†	527.7	-4841.1	-1.8030 ug/L	-1.8030 ppb	16:00:09
1	Mn 257.610†	-19426.7	-23567.2	-8.9271 ug/L	-8.9271 ppb	16:00:09
1	Mo 202.031†	-397.2	-483.5	-3.6599 ug/L	-3.6599 ppb	16:00:29
1	Ni 231.604†	230.8	192.0	6.1091 ug/L	6.1091 ppb	16:00:29
1	P 214.914†	454.8	354.9	53.977 ug/L	53.977 ppb	16:00:29
1	Pb 220.353†	-451.0	-491.5	-15.975 ug/L	-15.975 ppb	16:00:29
1	S 181.975 Axial†	51.3	30.6	-42.030 ug/L	-42.030 ppb	16:00:29
1	Sb 206.836†	74.3	63.5	5.4190 ug/L	5.4190 ppb	16:00:29
1	Se 196.026†	-1748.4	-2052.7	-311.18 ug/L	-311.18 ppb	16:00:29
1	Si 251.611†	-433.1	-1011.3	-37.536 ug/L	-37.536 ppb	16:00:29
1	Sn 189.927†	-353.1	-426.4	-35.570 ug/L	-35.570 ppb	16:00:29
1	Ti 334.940†	-11921.1	-13036.5	-5.1774 ug/L	-5.1774 ppb	16:00:09
1	Tl 190.801†	-90.7	-75.7	-29.562 ug/L	-29.562 ppb	16:00:29
1	U 409.014†	421878.6	501912.1	15110 ug/L	15110 ppb	16:00:09
1	V 292.402†	1274.4	2827.6	-1.7007 ug/L	-1.7007 ppb	16:00:29
1	Zn 213.857†	4556.7	4781.5	-6.1854 ug/L	-6.1854 ppb	16:00:29
1	SiO2†	-481.0	-1065.2	-84.148 ug/L	-84.148 ppb	16:01:26
2	Sc Radial	3913.6	3913.6	85.3 %		15:59:37
2	Y RADIAL	4227.4	4227.4	85.67 %		15:59:37
2	Al 396.153Radial†	478777.1	561312.9	527700 ug/L	527700 ppb	15:59:17
2	Ca 317.933Radial†	235551.9	276088.3	488020 ug/L	488020 ppb	15:59:17
2	Fe 238.204 Radial†	34813.1	40800.4	427480 ug/L	427480 ppb	15:59:37
2	K 766.490 Radial†	2442.1	306.9	-313.04 ug/L	-313.04 ppb	15:59:17
2	Mg 279.077 IEC†	11023.1	12921.4	491270 ug/L	491270 ppb	15:59:37
2	Na 589.592 Radial†	1301627.0	1526584.6	534890 ug/L	534890 ppb	15:59:17
2	Sr 421.552†	1446.6	1670.0	9.1135 ug/L	9.1135 ppb	15:59:37
2	Sc 361.383	683895.2	683895.2	84.127 %		16:00:35
2	Y 371.029	566721.5	566721.5	82.201 %		16:00:35
2	Ag 328.068†	-19570.4	-23473.5	-7.2435 ug/L	-7.2435 ppb	16:00:35
2	As 188.979†	-151.6	-163.2	9.2306 ug/L	9.2306 ppb	16:00:55
2	B 249.677†	1100.8	1723.8	-21.200 ug/L	-21.200 ppb	16:00:35
2	Ba 233.527†	-1333.6	-1597.7	-1.8919 ug/L	-1.8919 ppb	16:00:55
2	Be 313.107†	-9893.9	-8031.6	-3.4794 ug/L	-3.4794 ppb	16:00:35
2	Cd 226.502†	2689.6	3373.4	7.6819 ug/L	7.6819 ppb	16:00:55
2	Co 228.616†	200.4	278.0	0.9926 ug/L	0.9926 ppb	16:00:55
2	Cr 267.716†	-1028.3	-1301.9	21.824 ug/L	21.824 ppb	16:00:55
2	Cu 324.752†	512.5	-4857.0	-1.8553 ug/L	-1.8553 ppb	16:00:35
2	Mn 257.610†	-19247.4	-23429.9	-8.7323 ug/L	-8.7323 ppb	16:00:35
2	Mo 202.031†	-415.7	-506.9	-5.5887 ug/L	-5.5887 ppb	16:00:55
2	Ni 231.604†	237.7	201.1	6.3985 ug/L	6.3985 ppb	16:00:55

2	P 214.914†	466.8	371.0	68.984 ug/L	68.984 ppb	16:00:55
2	Pb 220.353†	-456.7	-500.1	-14.501 ug/L	-14.501 ppb	16:00:55
2	S 181.975 Axial†	48.3	27.2	-50.248 ug/L	-50.248 ppb	16:00:55
2	Sb 206.836†	71.2	60.1	3.7022 ug/L	3.7022 ppb	16:00:55
2	Se 196.026†	-1760.9	-2074.3	-324.47 ug/L	-324.47 ppb	16:00:55
2	Si 251.611†	-437.4	-1018.1	-37.767 ug/L	-37.767 ppb	16:00:55
2	Sn 189.927†	-335.3	-406.5	-29.369 ug/L	-29.369 ppb	16:00:55
2	Ti 334.940†	-11859.0	-13009.2	-3.8494 ug/L	-3.8494 ppb	16:00:35
2	Tl 190.801†	-94.0	-79.9	-31.181 ug/L	-31.181 ppb	16:00:55
2	U 409.014†	421181.3	502728.4	15134 ug/L	15134 ppb	16:00:35
2	V 292.402†	1378.6	2956.4	-0.6859 ug/L	-0.6859 ppb	16:00:55
2	Zn 213.857†	4565.9	4810.2	-5.8803 ug/L	-5.8803 ppb	16:00:55
2	SiO2†	-530.0	-1125.3	-88.902 ug/L	-88.902 ppb	16:01:31
3	Sc Radial	3934.9	3934.9	85.8 %		16:00:02
3	Y RADIAL	4243.0	4243.0	85.99 %		16:00:02
3	Al 396.153Radial†	471581.4	549891.2	516960 ug/L	516960 ppb	15:59:42
3	Ca 317.933Radial†	232060.8	270526.2	478190 ug/L	478190 ppb	15:59:42
3	Fe 238.204 Radial†	34802.3	40567.3	425040 ug/L	425040 ppb	16:00:02
3	K 766.490 Radial†	2414.6	259.3	-313.37 ug/L	-313.37 ppb	15:59:42
3	Mg 279.077 IEC†	11031.6	12861.4	488990 ug/L	488990 ppb	16:00:02
3	Na 589.592 Radial†	1274215.8	1486382.7	520810 ug/L	520810 ppb	15:59:42
3	Sr 421.552†	1441.7	1655.0	9.0728 ug/L	9.0728 ppb	16:00:02
3	Sc 361.383	682833.4	682833.4	83.997 %		16:01:01
3	Y 371.029	564299.4	564299.4	81.849 %		16:01:01
3	Ag 328.068†	-19690.6	-23652.6	-8.7741 ug/L	-8.7741 ppb	16:01:01
3	As 188.979†	-144.4	-154.8	13.296 ug/L	13.296 ppb	16:01:21
3	B 249.677†	1089.9	1712.9	-21.111 ug/L	-21.111 ppb	16:01:01
3	Ba 233.527†	-1307.1	-1568.7	-1.6963 ug/L	-1.6963 ppb	16:01:21
3	Be 313.107†	-9909.8	-8068.8	-3.4953 ug/L	-3.4953 ppb	16:01:01
3	Cd 226.502†	2670.2	3355.2	7.6673 ug/L	7.6673 ppb	16:01:21
3	Co 228.616†	203.9	282.6	1.1537 ug/L	1.1537 ppb	16:01:21
3	Cr 267.716†	-951.6	-1212.4	22.772 ug/L	22.772 ppb	16:01:21
3	Cu 324.752†	491.5	-4881.1	-2.0545 ug/L	-2.0545 ppb	16:01:01
3	Mn 257.610†	-19018.4	-23192.8	-8.5682 ug/L	-8.5682 ppb	16:01:01
3	Mo 202.031†	-381.0	-466.4	-2.3311 ug/L	-2.3311 ppb	16:01:21
3	Ni 231.604†	247.1	212.8	6.7712 ug/L	6.7712 ppb	16:01:21
3	P 214.914†	485.1	393.6	85.316 ug/L	85.316 ppb	16:01:21
3	Pb 220.353†	-445.3	-487.3	-14.687 ug/L	-14.687 ppb	16:01:21
3	S 181.975 Axial†	52.2	32.0	-39.746 ug/L	-39.746 ppb	16:01:21
3	Sb 206.836†	29.6	10.8	-16.341 ug/L	-16.341 ppb	16:01:21
3	Se 196.026†	-1766.1	-2083.8	-342.73 ug/L	-342.73 ppb	16:01:21
3	Si 251.611†	-465.3	-1052.2	-39.091 ug/L	-39.091 ppb	16:01:21
3	Sn 189.927†	-336.7	-408.9	-31.508 ug/L	-31.508 ppb	16:01:21
3	Ti 334.940†	-11840.0	-13008.4	-4.9730 ug/L	-4.9730 ppb	16:01:01
3	Tl 190.801†	-93.6	-79.6	-31.053 ug/L	-31.053 ppb	16:01:21
3	U 409.014†	420026.3	502131.9	15117 ug/L	15117 ppb	16:01:01
3	V 292.402†	1280.7	2842.4	-1.2694 ug/L	-1.2694 ppb	16:01:21
3	Zn 213.857†	4619.9	4883.0	-4.6373 ug/L	-4.6373 ppb	16:01:21
3	SiO2†	-441.0	-1020.4	-80.596 ug/L	-80.596 ppb	16:01:36

Mean Data: LR1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	684291.6	84.176 %	0.2081			0.25%
Sc Radial	3923.8	85.5 %	0.23			0.27%
Y 371.029	566413.7	82.156 %	0.2870			0.35%
Y RADIAL	4234.0	85.81 %	0.163			0.19%
Ag 328.068†	-23550.5	-7.8199 ug/L	0.83230	-7.8199 ppb	0.83230	10.64%
Al 396.153Radial†	553168.6	520040 ug/L	6672.9	520040 ppb	6672.9	1.28%
QC value within limits for Al 396.153Radial Recovery = 104.01%						
As 188.979†	-165.9	7.4972 ug/L	6.83226	7.4972 ppb	6.83226	91.13%
B 249.677†	1691.6	-21.956 ug/L	1.3880	-21.956 ppb	1.3880	6.32%
Ba 233.527†	-1590.7	-1.8547 ug/L	0.14349	-1.8547 ppb	0.14349	7.74%
Be 313.107†	-7988.7	-3.4612 ug/L	0.04606	-3.4612 ppb	0.04606	1.33%
Ca 317.933Radial†	272384.8	481470 ug/L	5669.3	481470 ppb	5669.3	1.18%
QC value within limits for Ca 317.933Radial Recovery = 96.29%						
Cd 226.502†	3339.7	7.2834 ug/L	0.67762	7.2834 ppb	0.67762	9.30%
Co 228.616†	278.9	1.0321 ug/L	0.10750	1.0321 ppb	0.10750	10.42%
Cr 267.716†	-1232.6	22.664 ug/L	0.7917	22.664 ppb	0.7917	3.49%
Cu 324.752†	-4859.7	-1.9043 ug/L	0.13273	-1.9043 ppb	0.13273	6.97%

Fe 238.204 Radial†	40714.3	426580 ug/L	1340.5	426580 ppb	1340.5	0.31%
QC value less than the lower limit for Fe 238.204 Radial Recovery = 85.32%						
K 766.490 Radial†	336.4	-301.87 ug/L	19.633	-301.87 ppb	19.633	6.50%
Mg 279.077 IEC†	12898.8	490410 ug/L	1238.0	490410 ppb	1238.0	0.25%
QC value within limits for Mg 279.077 IEC Recovery = 98.08%						
Mn 257.610†	-23396.6	-8.7425 ug/L	0.17965	-8.7425 ppb	0.17965	2.05%
Mo 202.031†	-485.6	-3.8599 ug/L	1.63798	-3.8599 ppb	1.63798	42.44%
Na 589.592 Radial†	1502188.5	526350 ug/L	7510.0	526350 ppb	7510.0	1.43%
QC value within limits for Na 589.592 Radial Recovery = 105.27%						
Ni 231.604†	202.0	6.4263 ug/L	0.33194	6.4263 ppb	0.33194	5.17%
P 214.914†	373.2	69.426 ug/L	15.6744	69.426 ppb	15.6744	22.58%
Pb 220.353†	-493.0	-15.054 ug/L	0.8027	-15.054 ppb	0.8027	5.33%
S 181.975 Axial†	29.9	-44.008 ug/L	5.5234	-44.008 ppb	5.5234	12.55%
Sb 206.836†	44.8	-2.4067 ug/L	12.09823	-2.4067 ppb	12.09823	502.69%
Se 196.026†	-2070.3	-326.13 ug/L	15.841	-326.13 ppb	15.841	4.86%
Si 251.611†	-1027.2	-38.132 ug/L	0.8388	-38.132 ppb	0.8388	2.20%
Sn 189.927†	-413.9	-32.149 ug/L	3.1499	-32.149 ppb	3.1499	9.80%
Sr 421.552†	1660.6	9.0911 ug/L	0.02065	9.0911 ppb	0.02065	0.23%
Ti 334.940†	-13018.1	-4.6666 ug/L	0.71504	-4.6666 ppb	0.71504	15.32%
Tl 190.801†	-78.4	-30.599 ug/L	0.9002	-30.599 ppb	0.9002	2.94%
U 409.014†	502257.5	15120 ug/L	12.7	15120 ppb	12.7	0.08%
QC value within limits for U 409.014 Recovery = 100.80%						
V 292.402†	2875.5	-1.2187 ug/L	0.50933	-1.2187 ppb	0.50933	41.79%
Zn 213.857†	4824.9	-5.5677 ug/L	0.82002	-5.5677 ppb	0.82002	14.73%
SiO2†	-1070.3	-84.549 ug/L	4.1674	-84.549 ppb	4.1674	4.93%

QC Failed. Continue with analysis.

Sequence No.: 12

Sample ID: LR2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 16

Date Collected: 3/16/2010 16:03:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: LR2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4480.9	4480.9	97.7 %		16:05:44
1	Y RADIAL	4757.3	4757.3	96.41 %		16:05:44
1	Al 396.153Radial†	418.0	513.8	11.798 ug/L	11.798 ppb	16:05:44
1	Ca 317.933Radial†	32.6	5.5	9.7331 ug/L	9.7331 ppb	16:06:04
1	Fe 238.204 Radial†	-18.8	-27.1	10.466 ug/L	10.466 ppb	16:06:04
1	K 766.490 Radial†	1523862.7	1557593.0	298390 ug/L	298390 ppb	16:05:39
1	Mg 279.077 IEC†	-2.8	-3.0	-11.281 ug/L	-11.281 ppb	16:06:04
1	Na 589.592 Radial†	-265.3	533.4	186.91 ug/L	186.91 ppb	16:05:44
1	Sr 421.552†	1244641.7	1274253.1	9734.4 ug/L	9734.4 ppb	16:05:39
1	Sc 361.383	781308.1	781308.1	96.110 %		16:07:22
1	Y 371.029	644485.3	644485.3	93.480 %		16:07:22
1	Ag 328.068†	-6474.4	-6947.1	5.6652 ug/L	5.6652 ppb	16:07:27
1	As 188.979†	17196.3	17909.3	10029 ug/L	10029 ppb	16:07:27
1	B 249.677†	174931.1	182426.1	5077.1 ug/L	5077.1 ppb	16:07:22
1	Ba 233.527†	1434600.3	1492647.9	13989 ug/L	13989 ppb	16:07:22
1	Be 313.107†	6571188.8	6840862.3	2942.6 ug/L	2942.6 ppb	16:07:15
1	Cd 226.502†	655948.6	682672.1	9897.5 ug/L	9897.5 ppb	16:07:22
1	Co 228.616†	364291.3	379074.5	9846.2 ug/L	9846.2 ppb	16:07:22
1	Cr 267.716†	1763290.5	1834573.6	24647 ug/L	24647 ppb	16:07:22
1	Cu 324.752†	5912643.8	6146469.8	20345 ug/L	20345 ppb	16:07:15
1	Mn 257.610†	6971470.1	7253063.6	9549.5 ug/L	9549.5 ppb	16:07:15
1	Mo 202.031†	106203.8	110489.2	9716.3 ug/L	9716.3 ppb	16:07:27
1	Ni 231.604†	305183.5	317453.3	10101 ug/L	10101 ppb	16:07:22
1	P 214.914†	23223.9	23979.8	14114 ug/L	14114 ppb	16:07:27
1	Pb 220.353†	153613.7	159873.5	24678 ug/L	24678 ppb	16:07:22
1	S 181.975 Axial†	27836.6	28933.0	51660 ug/L	51660 ppb	16:07:27
1	Sb 206.836†	24144.9	25097.6	10754 ug/L	10754 ppb	16:07:27
1	Se 196.026†	11645.7	12135.8	10100 ug/L	10100 ppb	16:07:27
1	Si 251.611†	1221809.2	1270759.2	47703 ug/L	47703 ppb	16:07:22
1	Sn 189.927†	43557.6	45312.4	10202 ug/L	10202 ppb	16:07:27
1	Ti 334.940†	5509498.8	5733562.6	9899.5 ug/L	9899.5 ppb	16:07:15
1	Tl 190.801†	24057.4	25062.8	9715.5 ug/L	9715.5 ppb	16:07:27
1	U 409.014†	-1186.7	846.3	-29.533 ug/L	-29.533 ppb	16:07:22
1	V 292.402†	1231447.4	1282603.3	10365 ug/L	10365 ppb	16:07:22
1	Zn 213.857†	1142518.8	1188140.9	14262 ug/L	14262 ppb	16:07:22
1	SiO2†	1205104.6	1253381.5	100110 ug/L	100110 ppb	16:08:13
2	Sc Radial	4458.1	4458.1	97.2 %		16:06:15
2	Y RADIAL	4769.3	4769.3	96.66 %		16:06:15
2	Al 396.153Radial†	397.9	495.2	-4.7881 ug/L	-4.7881 ppb	16:06:15
2	Ca 317.933Radial†	34.3	7.5	13.202 ug/L	13.202 ppb	16:06:35
2	Fe 238.204 Radial†	-15.6	-23.9	43.560 ug/L	43.560 ppb	16:06:35
2	K 766.490 Radial†	1518865.6	1560426.0	298930 ug/L	298930 ppb	16:06:10
2	Mg 279.077 IEC†	-5.6	-5.9	-121.21 ug/L	-121.21 ppb	16:06:35
2	Na 589.592 Radial†	-271.0	526.3	184.40 ug/L	184.40 ppb	16:06:15
2	Sr 421.552†	1237766.6	1273692.3	9730.1 ug/L	9730.1 ppb	16:06:10
2	Sc 361.383	779036.4	779036.4	95.831 %		16:07:42
2	Y 371.029	642700.6	642700.6	93.221 %		16:07:42
2	Ag 328.068†	-6377.4	-6865.4	6.0514 ug/L	6.0514 ppb	16:07:47
2	As 188.979†	17149.9	17913.1	10031 ug/L	10031 ppb	16:07:47
2	B 249.677†	174494.8	182501.6	5079.3 ug/L	5079.3 ppb	16:07:42
2	Ba 233.527†	1429098.3	1491259.2	13976 ug/L	13976 ppb	16:07:42
2	Be 313.107†	6499500.1	6785992.0	2919.1 ug/L	2919.1 ppb	16:07:35
2	Cd 226.502†	653425.8	682029.7	9888.2 ug/L	9888.2 ppb	16:07:42
2	Co 228.616†	362857.0	378683.1	9836.1 ug/L	9836.1 ppb	16:07:42
2	Cr 267.716†	1756841.4	1833193.9	24628 ug/L	24628 ppb	16:07:42
2	Cu 324.752†	5855774.6	6105065.8	20208 ug/L	20208 ppb	16:07:35
2	Mn 257.610†	6913450.6	7213671.6	9497.7 ug/L	9497.7 ppb	16:07:35
2	Mo 202.031†	105707.9	110293.9	9699.1 ug/L	9699.1 ppb	16:07:47
2	Ni 231.604†	303925.4	317066.3	10089 ug/L	10089 ppb	16:07:42

2	P 214.914†	23072.0	23891.8	14074 ug/L	14074 ppb	16:07:47
2	Pb 220.353†	153016.7	159716.5	24654 ug/L	24654 ppb	16:07:42
2	S 181.975 Axial†	27687.5	28861.9	51533 ug/L	51533 ppb	16:07:47
2	Sb 206.836†	24056.7	25078.7	10746 ug/L	10746 ppb	16:07:47
2	Se 196.026†	11650.7	12176.3	10134 ug/L	10134 ppb	16:07:47
2	Si 251.611†	1219167.7	1271709.7	47739 ug/L	47739 ppb	16:07:42
2	Sn 189.927†	43257.1	45131.0	10162 ug/L	10162 ppb	16:07:47
2	Ti 334.940†	5460836.3	5699499.1	9840.7 ug/L	9840.7 ppb	16:07:35
2	Tl 190.801†	23936.4	25009.6	9694.4 ug/L	9694.4 ppb	16:07:47
2	U 409.014†	-1419.7	599.6	-36.946 ug/L	-36.946 ppb	16:07:42
2	V 292.402†	1226403.4	1281076.3	10352 ug/L	10352 ppb	16:07:42
2	Zn 213.857†	1138533.4	1187448.6	14254 ug/L	14254 ppb	16:07:42
2	SiO2†	1189114.2	1240351.7	99066 ug/L	99066 ppb	16:08:19
3	Sc Radial	4257.7	4257.7	92.8 %		16:06:45
3	Y RADIAL	4576.2	4576.2	92.74 %		16:06:45
3	Al 396.153Radial†	397.5	514.1	12.051 ug/L	12.051 ppb	16:06:45
3	Ca 317.933Radial†	31.9	6.5	11.526 ug/L	11.526 ppb	16:07:05
3	Fe 238.204 Radial†	-16.9	-26.0	22.757 ug/L	22.757 ppb	16:07:05
3	K 766.490 Radial†	1476676.9	1588542.6	304320 ug/L	304320 ppb	16:06:40
3	Mg 279.077 IEC†	-5.0	-5.4	-105.37 ug/L	-105.37 ppb	16:07:05
3	Na 589.592 Radial†	-366.1	410.6	143.87 ug/L	143.87 ppb	16:06:45
3	Sr 421.552†	1204386.7	1297683.7	9913.4 ug/L	9913.4 ppb	16:06:40
3	Sc 361.383	775849.2	775849.2	95.439 %		16:08:02
3	Y 371.029	640172.2	640172.2	92.854 %		16:08:02
3	Ag 328.068†	-6256.4	-6766.0	6.6607 ug/L	6.6607 ppb	16:08:07
3	As 188.979†	17105.9	17940.5	10046 ug/L	10046 ppb	16:08:07
3	B 249.677†	173656.9	182371.7	5075.5 ug/L	5075.5 ppb	16:08:02
3	Ba 233.527†	1427778.9	1496002.9	14021 ug/L	14021 ppb	16:08:02
3	Be 313.107†	6445018.8	6756768.3	2906.5 ug/L	2906.5 ppb	16:07:55
3	Cd 226.502†	652973.8	684357.1	9922.0 ug/L	9922.0 ppb	16:08:02
3	Co 228.616†	363060.8	380452.1	9882.2 ug/L	9882.2 ppb	16:08:02
3	Cr 267.716†	1754648.9	1838427.6	24699 ug/L	24699 ppb	16:08:02
3	Cu 324.752†	5815557.9	6088028.9	20151 ug/L	20151 ppb	16:07:55
3	Mn 257.610†	6859598.7	7186881.9	9462.4 ug/L	9462.4 ppb	16:07:55
3	Mo 202.031†	105478.8	110507.1	9717.9 ug/L	9717.9 ppb	16:08:07
3	Ni 231.604†	303827.9	318267.0	10127 ug/L	10127 ppb	16:08:02
3	P 214.914†	23088.7	24008.2	14173 ug/L	14173 ppb	16:08:07
3	Pb 220.353†	152925.4	160276.8	24740 ug/L	24740 ppb	16:08:02
3	S 181.975 Axial†	27633.2	28923.7	51643 ug/L	51643 ppb	16:08:07
3	Sb 206.836†	24030.7	25154.7	10779 ug/L	10779 ppb	16:08:07
3	Se 196.026†	11617.7	12191.7	10147 ug/L	10147 ppb	16:08:07
3	Si 251.611†	1215370.6	1272957.4	47786 ug/L	47786 ppb	16:08:02
3	Sn 189.927†	43294.2	45355.4	10212 ug/L	10212 ppb	16:08:07
3	Ti 334.940†	5418595.2	5678648.2	9804.6 ug/L	9804.6 ppb	16:07:55
3	Tl 190.801†	23976.5	25154.2	9749.3 ug/L	9749.3 ppb	16:08:07
3	U 409.014†	-1326.8	690.8	-34.345 ug/L	-34.345 ppb	16:08:02
3	V 292.402†	1224571.1	1284413.5	10379 ug/L	10379 ppb	16:08:02
3	Zn 213.857†	1137209.3	1190941.7	14296 ug/L	14296 ppb	16:08:02
3	SiO2†	1214824.2	1272387.8	101630 ug/L	101630 ppb	16:08:25

Mean Data: LR2

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	778731.2	95.793 %	0.3373			0.35%
Sc Radial	4398.9	95.9 %	2.68			2.79%
Y 371.029	642452.7	93.185 %	0.3143			0.34%
Y RADIAL	4701.0	95.27 %	2.193			2.30%
Ag 328.068†	-6859.5	6.1258 ug/L	0.50188	6.1258 ppb	0.50188	8.19%
Al 396.153Radial†	507.7	6.3536 ug/L	9.64978	6.3536 ppb	9.64978	151.88%
As 188.979†	17921.0	10035 ug/L	9.1	10035 ppb	9.1	0.09%
QC value within limits for As 188.979 Recovery = 100.35%						
B 249.677†	182433.2	5077.3 ug/L	1.89	5077.3 ppb	1.89	0.04%
QC value within limits for B 249.677 Recovery = 101.55%						
Ba 233.527†	1493303.4	13996 ug/L	22.8	13996 ppb	22.8	0.16%
QC value within limits for Ba 233.527 Recovery = 93.30%						
Be 313.107†	6794540.9	2922.7 ug/L	18.33	2922.7 ppb	18.33	0.63%
QC value within limits for Be 313.107 Recovery = 97.42%						
Ca 317.933Radial†	6.5	11.487 ug/L	1.7346	11.487 ppb	1.7346	15.10%
Cd 226.502†	683019.6	9902.6 ug/L	17.43	9902.6 ppb	17.43	0.18%
QC value within limits for Cd 226.502 Recovery = 99.03%						

Co 228.616†	379403.2	9854.8 ug/L	24.22	9854.8 ppb	24.22	0.25%
QC value within limits for Co 228.616 Recovery = 98.55%						
Cr 267.716†	1835398.3	24658 ug/L	36.4	24658 ppb	36.4	0.15%
QC value within limits for Cr 267.716 Recovery = 98.63%						
Cu 324.752†	6113188.2	20235 ug/L	99.5	20235 ppb	99.5	0.49%
QC value within limits for Cu 324.752 Recovery = 101.17%						
Fe 238.204 Radial†	-25.7	25.594 ug/L	16.7285	25.594 ppb	16.7285	65.36%
K 766.490 Radial†	1568853.9	300550 ug/L	3277.9	300550 ppb	3277.9	1.09%
QC value within limits for K 766.490 Radial Recovery = 100.18%						
Mg 279.077 IEC†	-4.8	-79.289 ug/L	59.4268	-79.289 ppb	59.4268	74.95%
Mn 257.610†	7217872.4	9503.2 ug/L	43.83	9503.2 ppb	43.83	0.46%
QC value within limits for Mn 257.610 Recovery = 95.03%						
Mo 202.031†	110430.1	9711.1 ug/L	10.40	9711.1 ppb	10.40	0.11%
QC value within limits for Mo 202.031 Recovery = 97.11%						
Na 589.592 Radial†	490.1	171.73 ug/L	24.152	171.73 ppb	24.152	14.06%
Ni 231.604†	317595.5	10106 ug/L	19.5	10106 ppb	19.5	0.19%
QC value within limits for Ni 231.604 Recovery = 101.06%						
P 214.914†	23959.9	14120 ug/L	50.0	14120 ppb	50.0	0.35%
QC value within limits for P 214.914 Recovery = 94.14%						
Pb 220.353†	159955.6	24691 ug/L	44.6	24691 ppb	44.6	0.18%
QC value within limits for Pb 220.353 Recovery = 98.76%						
S 181.975 Axial†	28906.2	51612 ug/L	69.0	51612 ppb	69.0	0.13%
QC value within limits for S 181.975 Axial Recovery = 103.22%						
Sb 206.836†	25110.3	10760 ug/L	17.0	10760 ppb	17.0	0.16%
QC value within limits for Sb 206.836 Recovery = 107.60%						
Se 196.026†	12167.9	10127 ug/L	24.0	10127 ppb	24.0	0.24%
QC value within limits for Se 196.026 Recovery = 101.27%						
Si 251.611†	1271808.8	47742 ug/L	41.5	47742 ppb	41.5	0.09%
QC value within limits for Si 251.611 Recovery = 95.48%						
Sn 189.927†	45266.2	10192 ug/L	26.8	10192 ppb	26.8	0.26%
QC value within limits for Sn 189.927 Recovery = 101.92%						
Sr 421.552†	1281876.4	9792.7 ug/L	104.60	9792.7 ppb	104.60	1.07%
QC value within limits for Sr 421.552 Recovery = 97.93%						
Ti 334.940†	5703903.3	9848.3 ug/L	47.91	9848.3 ppb	47.91	0.49%
QC value within limits for Ti 334.940 Recovery = 98.48%						
Tl 190.801†	25075.5	9719.7 ug/L	27.72	9719.7 ppb	27.72	0.29%
QC value within limits for Tl 190.801 Recovery = 97.20%						
U 409.014†	712.2	-33.608 ug/L	3.7613	-33.608 ppb	3.7613	11.19%
V 292.402†	1282697.7	10365 ug/L	13.5	10365 ppb	13.5	0.13%
QC value within limits for V 292.402 Recovery = 103.65%						
Zn 213.857†	1188843.7	14270 ug/L	22.3	14270 ppb	22.3	0.16%
QC value within limits for Zn 213.857 Recovery = 95.14%						
SiO2†	1255373.6	100270 ug/L	1289.9	100270 ppb	1289.9	1.29%
QC value within limits for SiO2 Recovery = 93.71%						
All analyte(s) passed QC.						

User canceled analysis.

===== Analysis Begun

Start Time: 3/16/2010 16:17:19

Plasma On Time: 3/15/2010 06:51:19

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\031610.sif

Batch ID:

Results Data Set: 031610

Results Library: C:\pe\Optima3\Results\Results.mdb

Sequence No.: 13

Autosampler Location: 7

Sample ID: CCV

Date Collected: 3/16/2010 16:17:20

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

----- Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4343.1	4343.1	94.7 %		16:19:12
1	Y RADIAL	4667.4	4667.4	94.59 %		16:19:12
1	Al 396.153Radial†	5020.2	5388.5	5041.5 ug/L	5041.5 ppb	16:19:12
1	Ca 317.933Radial†	2796.8	2926.3	5172.6 ug/L	5172.6 ppb	16:19:32
1	Fe 238.204 Radial†	476.8	495.8	5209.6 ug/L	5209.6 ppb	16:19:32
1	K 766.490 Radial†	28584.9	27638.0	5288.2 ug/L	5288.2 ppb	16:19:12
1	Mg 279.077 IEC†	135.1	142.6	5426.9 ug/L	5426.9 ppb	16:19:32
1	Na 589.592 Radial†	27865.8	30239.3	10595 ug/L	10595 ppb	16:19:12
1	Sr 421.552†	64758.6	68377.8	522.32 ug/L	522.32 ppb	16:19:12
1	Sc 361.383	801728.6	801728.6	98.622 %		16:20:30
1	Y 371.029	668731.2	668731.2	96.997 %		16:20:30
1	Ag 328.068†	97247.0	98394.9	508.29 ug/L	508.29 ppb	16:20:35
1	As 188.979†	902.1	931.7	522.82 ug/L	522.82 ppb	16:20:55
1	B 249.677†	18102.9	18771.1	523.00 ug/L	523.00 ppb	16:20:35
1	Ba 233.527†	53314.7	54047.0	506.99 ug/L	506.99 ppb	16:20:35
1	Be 313.107†	1175567.6	1195719.1	511.53 ug/L	511.53 ppb	16:20:30
1	Cd 226.502†	34282.8	34938.1	506.10 ug/L	506.10 ppb	16:20:35
1	Co 228.616†	19502.7	19814.9	514.88 ug/L	514.88 ppb	16:20:35
1	Cr 267.716†	37257.1	37698.1	507.23 ug/L	507.23 ppb	16:20:35
1	Cu 324.752†	155590.7	152298.1	504.09 ug/L	504.09 ppb	16:20:35
1	Mn 257.610†	373031.4	377691.6	497.57 ug/L	497.57 ppb	16:20:35
1	Mo 202.031†	5650.7	5716.8	503.19 ug/L	503.19 ppb	16:20:55
1	Ni 231.604†	16033.9	16176.4	514.73 ug/L	514.73 ppb	16:20:35
1	P 214.914†	3481.1	3345.9	2421.3 ug/L	2421.3 ppb	16:20:55
1	Pb 220.353†	3199.3	3286.8	508.50 ug/L	508.50 ppb	16:20:55
1	S 181.975 Axial†	585.8	563.8	1005.8 ug/L	1005.8 ppb	16:20:55
1	Sb 206.836†	1216.8	1209.2	518.83 ug/L	518.83 ppb	16:20:55
1	Se 196.026†	583.5	610.4	524.67 ug/L	524.67 ppb	16:20:55
1	Si 251.611†	67236.5	67677.6	2540.7 ug/L	2540.7 ppb	16:20:35
1	Sn 189.927†	2206.7	2229.5	502.61 ug/L	502.61 ppb	16:20:55
1	Ti 334.940†	281528.0	286548.2	495.04 ug/L	495.04 ppb	16:20:35
1	Tl 190.801†	1264.3	1313.7	509.11 ug/L	509.11 ppb	16:20:55
1	U 409.014†	14865.8	17154.4	516.36 ug/L	516.36 ppb	16:20:35
1	V 292.402†	61041.0	63211.4	511.74 ug/L	511.74 ppb	16:20:35
1	Zn 213.857†	42805.4	42786.2	512.15 ug/L	512.15 ppb	16:20:35
1	SiO2†	66827.4	67265.7	5373.1 ug/L	5373.1 ppb	16:22:02
2	Sc Radial	4264.4	4264.4	93.0 %		16:19:37
2	Y RADIAL	4570.7	4570.7	92.63 %		16:19:37
2	Al 396.153Radial†	4921.6	5380.4	5033.8 ug/L	5033.8 ppb	16:19:37
2	Ca 317.933Radial†	2780.8	2963.8	5238.8 ug/L	5238.8 ppb	16:19:58
2	Fe 238.204 Radial†	479.3	507.8	5335.8 ug/L	5335.8 ppb	16:19:58
2	K 766.490 Radial†	28189.9	27770.7	5313.6 ug/L	5313.6 ppb	16:19:37
2	Mg 279.077 IEC†	133.5	143.6	5463.6 ug/L	5463.6 ppb	16:19:58
2	Na 589.592 Radial†	27392.6	30273.8	10608 ug/L	10608 ppb	16:19:37
2	Sr 421.552†	63432.6	68214.5	521.07 ug/L	521.07 ppb	16:19:37
2	Sc 361.383	799128.2	799128.2	98.302 %		16:21:00

2	Y 371.029	666294.2	666294.2	96.643 %		16:21:00
2	Ag 328.068†	98225.5	99711.2	515.12 ug/L	515.12 ppb	16:21:06
2	As 188.979†	896.9	929.4	521.64 ug/L	521.64 ppb	16:21:26
2	B 249.677†	18287.8	19019.0	529.89 ug/L	529.89 ppb	16:21:06
2	Ba 233.527†	54141.0	55063.5	516.53 ug/L	516.53 ppb	16:21:06
2	Be 313.107†	1170272.5	1194211.3	510.91 ug/L	510.91 ppb	16:21:00
2	Cd 226.502†	34890.8	35669.7	516.70 ug/L	516.70 ppb	16:21:06
2	Co 228.616†	19824.0	20206.1	525.03 ug/L	525.03 ppb	16:21:06
2	Cr 267.716†	37881.3	38456.0	517.42 ug/L	517.42 ppb	16:21:06
2	Cu 324.752†	156749.2	153989.9	509.70 ug/L	509.70 ppb	16:21:06
2	Mn 257.610†	378562.7	384549.3	506.61 ug/L	506.61 ppb	16:21:06
2	Mo 202.031†	5635.1	5719.6	503.45 ug/L	503.45 ppb	16:21:26
2	Ni 231.604†	16293.7	16493.7	524.82 ug/L	524.82 ppb	16:21:06
2	P 214.914†	3466.3	3342.3	2417.4 ug/L	2417.4 ppb	16:21:26
2	Pb 220.353†	3231.6	3330.2	515.18 ug/L	515.18 ppb	16:21:26
2	S 181.975 Axial†	582.5	562.4	1003.3 ug/L	1003.3 ppb	16:21:26
2	Sb 206.836†	1217.5	1214.0	520.88 ug/L	520.88 ppb	16:21:26
2	Se 196.026†	575.2	603.9	519.63 ug/L	519.63 ppb	16:21:26
2	Si 251.611†	68118.6	68796.8	2582.8 ug/L	2582.8 ppb	16:21:06
2	Sn 189.927†	2213.4	2243.6	505.80 ug/L	505.80 ppb	16:21:26
2	Ti 334.940†	284648.4	290651.4	502.13 ug/L	502.13 ppb	16:21:06
2	Tl 190.801†	1263.4	1317.0	510.40 ug/L	510.40 ppb	16:21:26
2	U 409.014†	15018.5	17358.8	522.50 ug/L	522.50 ppb	16:21:06
2	V 292.402†	61921.3	64308.4	520.49 ug/L	520.49 ppb	16:21:06
2	Zn 213.857†	43332.6	43463.8	520.25 ug/L	520.25 ppb	16:21:06
2	SiO2†	67694.4	68368.1	5461.4 ug/L	5461.4 ppb	16:22:07
3	Sc Radial	4478.7	4478.7	97.6 %		16:20:03
3	Y RADIAL	4774.3	4774.3	96.76 %		16:20:03
3	Al 396.153Radial†	5169.4	5380.8	5034.3 ug/L	5034.3 ppb	16:20:03
3	Ca 317.933Radial†	2804.6	2844.9	5028.7 ug/L	5028.7 ppb	16:20:23
3	Fe 238.204 Radial†	479.6	483.4	5079.9 ug/L	5079.9 ppb	16:20:23
3	K 766.490 Radial†	29165.1	27318.2	5227.0 ug/L	5227.0 ppb	16:20:03
3	Mg 279.077 IEC†	133.4	136.5	5195.3 ug/L	5195.3 ppb	16:20:23
3	Na 589.592 Radial†	28716.0	30219.0	10588 ug/L	10588 ppb	16:20:03
3	Sr 421.552†	66660.6	68254.9	521.38 ug/L	521.38 ppb	16:20:03
3	Sc 361.383	803091.7	803091.7	98.790 %		16:21:31
3	Y 371.029	668158.6	668158.6	96.914 %		16:21:31
3	Ag 328.068†	97205.9	98186.0	507.18 ug/L	507.18 ppb	16:21:36
3	As 188.979†	899.9	927.9	520.69 ug/L	520.69 ppb	16:21:56
3	B 249.677†	17936.5	18571.5	517.43 ug/L	517.43 ppb	16:21:36
3	Ba 233.527†	53594.2	54238.2	508.78 ug/L	508.78 ppb	16:21:36
3	Be 313.107†	1171475.8	1189554.0	508.90 ug/L	508.90 ppb	16:21:31
3	Cd 226.502†	34559.4	35159.0	509.32 ug/L	509.32 ppb	16:21:36
3	Co 228.616†	19593.9	19873.8	516.41 ug/L	516.41 ppb	16:21:36
3	Cr 267.716†	37400.3	37778.8	508.30 ug/L	508.30 ppb	16:21:36
3	Cu 324.752†	154781.1	151210.7	500.49 ug/L	500.49 ppb	16:21:36
3	Mn 257.610†	373954.1	377983.6	497.95 ug/L	497.95 ppb	16:21:36
3	Mo 202.031†	5637.0	5693.2	501.11 ug/L	501.11 ppb	16:21:56
3	Ni 231.604†	16066.6	16182.0	514.91 ug/L	514.91 ppb	16:21:36
3	P 214.914†	3459.4	3317.9	2401.1 ug/L	2401.1 ppb	16:21:56
3	Pb 220.353†	3194.5	3276.4	506.92 ug/L	506.92 ppb	16:21:56
3	S 181.975 Axial†	575.6	552.5	985.49 ug/L	985.49 ppb	16:21:56
3	Sb 206.836†	1221.5	1211.9	519.89 ug/L	519.89 ppb	16:21:56
3	Se 196.026†	578.8	604.7	519.55 ug/L	519.55 ppb	16:21:56
3	Si 251.611†	67179.4	67504.1	2534.2 ug/L	2534.2 ppb	16:21:36
3	Sn 189.927†	2206.4	2225.4	501.66 ug/L	501.66 ppb	16:21:56
3	Ti 334.940†	281584.9	286121.3	494.30 ug/L	494.30 ppb	16:21:36
3	Tl 190.801†	1264.4	1311.6	508.30 ug/L	508.30 ppb	16:21:56
3	U 409.014†	14736.1	16997.6	511.64 ug/L	511.64 ppb	16:21:36
3	V 292.402†	61051.5	63117.1	510.96 ug/L	510.96 ppb	16:21:36
3	Zn 213.857†	42816.2	42723.5	511.42 ug/L	511.42 ppb	16:21:36
3	SiO2†	67251.3	67579.7	5398.3 ug/L	5398.3 ppb	16:22:12

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801316.2	98.572 %	0.2477			0.25%
Sc Radial	4362.1	95.1 %	2.36			2.49%
Y 371.029	667728.0	96.851 %	0.1848			0.19%
Y RADIAL	4670.8	94.66 %	2.064			2.18%

Ag 328.068†	98764.0	510.20 ug/L	4.297	510.20 ppb	4.297	0.84%
QC value within limits for Ag 328.068 Recovery = 102.04%						
Al 396.153Radial†	5383.3	5036.5 ug/L	4.29	5036.5 ppb	4.29	0.09%
QC value within limits for Al 396.153Radial Recovery = 100.73%						
As 188.979†	929.7	521.72 ug/L	1.067	521.72 ppb	1.067	0.20%
QC value within limits for As 188.979 Recovery = 104.34%						
B 249.677†	18787.2	523.44 ug/L	6.240	523.44 ppb	6.240	1.19%
QC value within limits for B 249.677 Recovery = 104.69%						
Ba 233.527†	54449.6	510.77 ug/L	5.069	510.77 ppb	5.069	0.99%
QC value within limits for Ba 233.527 Recovery = 102.15%						
Be 313.107†	1193161.5	510.45 ug/L	1.375	510.45 ppb	1.375	0.27%
QC value within limits for Be 313.107 Recovery = 102.09%						
Ca 317.933Radial†	2911.7	5146.7 ug/L	107.43	5146.7 ppb	107.43	2.09%
QC value within limits for Ca 317.933Radial Recovery = 102.93%						
Cd 226.502†	35255.6	510.70 ug/L	5.432	510.70 ppb	5.432	1.06%
QC value within limits for Cd 226.502 Recovery = 102.14%						
Co 228.616†	19964.9	518.77 ug/L	5.471	518.77 ppb	5.471	1.05%
QC value within limits for Co 228.616 Recovery = 103.75%						
Cr 267.716†	37977.6	510.98 ug/L	5.605	510.98 ppb	5.605	1.10%
QC value within limits for Cr 267.716 Recovery = 102.20%						
Cu 324.752†	152499.6	504.76 ug/L	4.639	504.76 ppb	4.639	0.92%
QC value within limits for Cu 324.752 Recovery = 100.95%						
Fe 238.204 Radial†	495.6	5208.4 ug/L	127.96	5208.4 ppb	127.96	2.46%
QC value within limits for Fe 238.204 Radial Recovery = 104.17%						
K 766.490 Radial†	27575.7	5276.3 ug/L	44.53	5276.3 ppb	44.53	0.84%
QC value within limits for K 766.490 Radial Recovery = 105.53%						
Mg 279.077 IEC†	140.9	5361.9 ug/L	145.51	5361.9 ppb	145.51	2.71%
QC value within limits for Mg 279.077 IEC Recovery = 107.24%						
Mn 257.610†	380074.9	500.71 ug/L	5.113	500.71 ppb	5.113	1.02%
QC value within limits for Mn 257.610 Recovery = 100.14%						
Mo 202.031†	5709.9	502.58 ug/L	1.284	502.58 ppb	1.284	0.26%
QC value within limits for Mo 202.031 Recovery = 100.52%						
Na 589.592 Radial†	30244.1	10597 ug/L	9.7	10597 ppb	9.7	0.09%
QC value within limits for Na 589.592 Radial Recovery = 105.97%						
Ni 231.604†	16284.0	518.15 ug/L	5.778	518.15 ppb	5.778	1.12%
QC value within limits for Ni 231.604 Recovery = 103.63%						
P 214.914†	3335.3	2413.3 ug/L	10.75	2413.3 ppb	10.75	0.45%
QC value within limits for P 214.914 Recovery = 96.53%						
Pb 220.353†	3297.8	510.20 ug/L	4.388	510.20 ppb	4.388	0.86%
QC value within limits for Pb 220.353 Recovery = 102.04%						
S 181.975 Axial†	559.6	998.18 ug/L	11.067	998.18 ppb	11.067	1.11%
QC value within limits for S 181.975 Axial Recovery = 99.82%						
Sb 206.836†	1211.7	519.87 ug/L	1.023	519.87 ppb	1.023	0.20%
QC value within limits for Sb 206.836 Recovery = 103.97%						
Se 196.026†	606.4	521.28 ug/L	2.933	521.28 ppb	2.933	0.56%
QC value within limits for Se 196.026 Recovery = 104.26%						
Si 251.611†	67992.8	2552.6 ug/L	26.39	2552.6 ppb	26.39	1.03%
QC value within limits for Si 251.611 Recovery = 102.10%						
Sn 189.927†	2232.8	503.36 ug/L	2.166	503.36 ppb	2.166	0.43%
QC value within limits for Sn 189.927 Recovery = 100.67%						
Sr 421.552†	68282.4	521.59 ug/L	0.650	521.59 ppb	0.650	0.12%
QC value within limits for Sr 421.552 Recovery = 104.32%						
Ti 334.940†	287773.6	497.15 ug/L	4.322	497.15 ppb	4.322	0.87%
QC value within limits for Ti 334.940 Recovery = 99.43%						
Tl 190.801†	1314.1	509.27 ug/L	1.059	509.27 ppb	1.059	0.21%
QC value within limits for Tl 190.801 Recovery = 101.85%						
U 409.014†	17170.3	516.83 ug/L	5.445	516.83 ppb	5.445	1.05%
QC value within limits for U 409.014 Recovery = 103.37%						
V 292.402†	63545.6	514.40 ug/L	5.291	514.40 ppb	5.291	1.03%
QC value within limits for V 292.402 Recovery = 102.88%						
Zn 213.857†	42991.2	514.61 ug/L	4.899	514.61 ppb	4.899	0.95%
QC value within limits for Zn 213.857 Recovery = 102.92%						
SiO2†	67737.8	5410.9 ug/L	45.47	5410.9 ppb	45.47	0.84%
QC value within limits for SiO2 Recovery = 101.19%						
All analyte(s) passed QC.						

Sequence No.: 14

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/16/2010 16:24:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4371.9	4371.9	95.3 %		16:26:15
1	Y RADIAL	4746.6	4746.6	96.20 %		16:26:15
1	Al 396.153Radial†	-85.9	-4.3	-4.0396 ug/L	-4.0396 ppb	16:26:35
1	Ca 317.933Radial†	33.7	7.5	13.220 ug/L	13.220 ppb	16:26:35
1	Fe 238.204 Radial†	8.6	1.2	12.506 ug/L	12.506 ppb	16:26:35
1	K 766.490 Radial†	2867.5	453.2	86.808 ug/L	86.808 ppb	16:26:15
1	Mg 279.077 IEC†	1.8	1.9	70.436 ug/L	70.436 ppb	16:26:35
1	Na 589.592 Radial†	-715.9	53.9	18.879 ug/L	18.879 ppb	16:26:15
1	Sr 421.552†	36.2	12.2	0.0929 ug/L	0.0929 ppb	16:26:15
1	Sc 361.383	787326.6	787326.6	96.851 %		16:27:32
1	Y 371.029	666916.4	666916.4	96.734 %		16:27:32
1	Ag 328.068†	101.6	-105.7	-0.5389 ug/L	-0.5389 ppb	16:27:32
1	As 188.979†	-13.3	3.3	1.8405 ug/L	1.8405 ppb	16:27:52
1	B 249.677†	204.0	626.0	17.517 ug/L	17.517 ppb	16:27:52
1	Ba 233.527†	28.9	17.3	0.1621 ug/L	0.1621 ppb	16:27:52
1	Be 313.107†	-3550.2	63.3	0.0269 ug/L	0.0269 ppb	16:27:32
1	Cd 226.502†	-102.7	70.3	1.0182 ug/L	1.0182 ppb	16:27:52
1	Co 228.616†	-37.1	1.6	0.0415 ug/L	0.0415 ppb	16:27:52
1	Cr 267.716†	92.8	16.3	0.2209 ug/L	0.2209 ppb	16:27:52
1	Cu 324.752†	5277.9	-16.7	-0.0539 ug/L	-0.0539 ppb	16:27:32
1	Mn 257.610†	544.4	11.2	0.0131 ug/L	0.0131 ppb	16:27:52
1	Mo 202.031†	16.8	4.5	0.3979 ug/L	0.3979 ppb	16:27:52
1	Ni 231.604†	105.1	27.0	0.8611 ug/L	0.8611 ppb	16:27:52
1	P 214.914†	188.9	11.1	8.3668 ug/L	8.3668 ppb	16:27:52
1	Pb 220.353†	-25.7	16.2	2.4986 ug/L	2.4986 ppb	16:27:52
1	S 181.975 Axial†	27.6	-1.7	-2.9863 ug/L	-2.9863 ppb	16:27:52
1	Sb 206.836†	37.4	14.1	5.8614 ug/L	5.8614 ppb	16:27:52
1	Se 196.026†	-24.7	-6.7	-5.5157 ug/L	-5.5157 ppb	16:27:52
1	Si 251.611†	549.0	68.7	2.5789 ug/L	2.5789 ppb	16:27:52
1	Sn 189.927†	11.6	3.9	0.8903 ug/L	0.8903 ppb	16:27:52
1	Ti 334.940†	-1083.1	-31.0	-0.0571 ug/L	-0.0571 ppb	16:27:32
1	Tl 190.801†	-24.7	6.3	2.4378 ug/L	2.4378 ppb	16:27:52
1	U 409.014†	-2059.7	-45.7	-1.3813 ug/L	-1.3813 ppb	16:27:32
1	V 292.402†	-1307.6	-32.4	-0.2568 ug/L	-0.2568 ppb	16:27:32
1	Zn 213.857†	727.4	134.0	1.6113 ug/L	1.6113 ppb	16:27:52
1	SiO2†	563.9	86.9	6.9473 ug/L	6.9473 ppb	16:29:03
2	Sc Radial	4415.2	4415.2	96.2 %		16:26:40
2	Y RADIAL	4775.2	4775.2	96.78 %		16:26:40
2	Al 396.153Radial†	-89.9	-7.6	-7.2116 ug/L	-7.2116 ppb	16:27:00
2	Ca 317.933Radial†	29.0	2.2	3.9596 ug/L	3.9596 ppb	16:27:00
2	Fe 238.204 Radial†	7.7	0.1	1.5514 ug/L	1.5514 ppb	16:27:00
2	K 766.490 Radial†	2875.7	432.2	82.806 ug/L	82.806 ppb	16:26:40
2	Mg 279.077 IEC†	1.3	1.2	47.470 ug/L	47.470 ppb	16:27:00
2	Na 589.592 Radial†	-771.3	3.7	1.2838 ug/L	1.2838 ppb	16:26:40
2	Sr 421.552†	48.0	24.2	0.1845 ug/L	0.1845 ppb	16:26:40
2	Sc 361.383	788692.8	788692.8	97.019 %		16:27:57
2	Y 371.029	667249.3	667249.3	96.782 %		16:27:57
2	Ag 328.068†	169.6	-35.8	-0.1832 ug/L	-0.1832 ppb	16:27:57
2	As 188.979†	-18.3	-1.8	-1.0102 ug/L	-1.0102 ppb	16:28:17
2	B 249.677†	208.5	630.3	17.638 ug/L	17.638 ppb	16:28:17
2	Ba 233.527†	30.0	18.4	0.1724 ug/L	0.1724 ppb	16:28:17
2	Be 313.107†	-3734.5	-120.2	-0.0515 ug/L	-0.0515 ppb	16:27:57
2	Cd 226.502†	-113.5	59.4	0.8600 ug/L	0.8600 ppb	16:28:17
2	Co 228.616†	-48.2	-9.9	-0.2548 ug/L	-0.2548 ppb	16:28:17
2	Cr 267.716†	78.3	1.2	0.0159 ug/L	0.0159 ppb	16:28:17
2	Cu 324.752†	5476.9	178.9	0.5924 ug/L	0.5924 ppb	16:27:57
2	Mn 257.610†	547.4	13.3	0.0157 ug/L	0.0157 ppb	16:28:17
2	Mo 202.031†	18.5	6.2	0.5495 ug/L	0.5495 ppb	16:28:17
2	Ni 231.604†	88.5	9.8	0.3118 ug/L	0.3118 ppb	16:28:17

2	P 214.914†	190.2	12.1	9.0413 ug/L	9.0413 ppb	16:28:17
2	Pb 220.353†	-41.2	0.3	0.0418 ug/L	0.0418 ppb	16:28:17
2	S 181.975 Axial†	30.6	1.4	2.4851 ug/L	2.4851 ppb	16:28:17
2	Sb 206.836†	41.0	17.8	7.3939 ug/L	7.3939 ppb	16:28:17
2	Se 196.026†	-17.6	0.6	0.5421 ug/L	0.5421 ppb	16:28:17
2	Si 251.611†	543.1	61.6	2.3110 ug/L	2.3110 ppb	16:28:17
2	Sn 189.927†	14.3	6.7	1.5178 ug/L	1.5178 ppb	16:28:17
2	Ti 334.940†	-1089.5	-35.7	-0.0651 ug/L	-0.0651 ppb	16:27:57
2	Tl 190.801†	-23.6	7.5	2.8713 ug/L	2.8713 ppb	16:28:17
2	U 409.014†	-2019.7	-0.8	-0.0230 ug/L	-0.0230 ppb	16:27:57
2	V 292.402†	-1273.3	5.3	0.0505 ug/L	0.0505 ppb	16:27:57
2	Zn 213.857†	720.8	125.8	1.5166 ug/L	1.5166 ppb	16:28:17
2	SiO2†	536.5	57.7	4.6059 ug/L	4.6059 ppb	16:29:23
3	Sc Radial	4316.8	4316.8	94.1 %		16:27:05
3	Y RADIAL	4662.5	4662.5	94.49 %		16:27:05
3	Al 396.153Radial†	-76.3	4.8	4.4700 ug/L	4.4700 ppb	16:27:25
3	Ca 317.933Radial†	30.5	4.5	7.9905 ug/L	7.9905 ppb	16:27:25
3	Fe 238.204 Radial†	9.3	2.0	20.846 ug/L	20.846 ppb	16:27:25
3	K 766.490 Radial†	2796.8	416.5	79.797 ug/L	79.797 ppb	16:27:05
3	Mg 279.077 IEC†	-0.8	-0.9	-35.942 ug/L	-35.942 ppb	16:27:25
3	Na 589.592 Radial†	-752.1	5.8	2.0443 ug/L	2.0443 ppb	16:27:05
3	Sr 421.552†	43.8	20.8	0.1588 ug/L	0.1588 ppb	16:27:05
3	Sc 361.383	793987.8	793987.8	97.670 %		16:28:22
3	Y 371.029	670892.2	670892.2	97.310 %		16:28:22
3	Ag 328.068†	154.4	-52.5	-0.2614 ug/L	-0.2614 ppb	16:28:22
3	As 188.979†	-10.9	5.9	3.2669 ug/L	3.2669 ppb	16:28:42
3	B 249.677†	205.8	626.1	17.518 ug/L	17.518 ppb	16:28:42
3	Ba 233.527†	29.0	17.2	0.1611 ug/L	0.1611 ppb	16:28:42
3	Be 313.107†	-3687.1	-46.1	-0.0195 ug/L	-0.0195 ppb	16:28:22
3	Cd 226.502†	-102.3	71.6	1.0340 ug/L	1.0340 ppb	16:28:42
3	Co 228.616†	-49.4	-10.8	-0.2802 ug/L	-0.2802 ppb	16:28:42
3	Cr 267.716†	69.3	-8.6	-0.1115 ug/L	-0.1115 ppb	16:28:42
3	Cu 324.752†	5399.0	61.6	0.2072 ug/L	0.2072 ppb	16:28:22
3	Mn 257.610†	532.4	-5.8	-0.0041 ug/L	-0.0041 ppb	16:28:42
3	Mo 202.031†	14.8	2.3	0.2024 ug/L	0.2024 ppb	16:28:42
3	Ni 231.604†	81.3	1.8	0.0576 ug/L	0.0576 ppb	16:28:42
3	P 214.914†	199.4	20.2	15.156 ug/L	15.156 ppb	16:28:42
3	Pb 220.353†	-45.6	-3.9	-0.5985 ug/L	-0.5985 ppb	16:28:42
3	S 181.975 Axial†	33.8	4.5	7.9707 ug/L	7.9707 ppb	16:28:42
3	Sb 206.836†	25.3	1.4	0.5872 ug/L	0.5872 ppb	16:28:42
3	Se 196.026†	-10.0	8.5	7.1357 ug/L	7.1357 ppb	16:28:42
3	Si 251.611†	522.2	36.4	1.3687 ug/L	1.3687 ppb	16:28:42
3	Sn 189.927†	7.5	-0.3	-0.0734 ug/L	-0.0734 ppb	16:28:42
3	Ti 334.940†	-1022.9	40.0	0.0749 ug/L	0.0749 ppb	16:28:22
3	Tl 190.801†	-20.9	10.4	4.0094 ug/L	4.0094 ppb	16:28:42
3	U 409.014†	-2162.2	-132.8	-4.0135 ug/L	-4.0135 ppb	16:28:22
3	V 292.402†	-1328.0	-42.0	-0.3439 ug/L	-0.3439 ppb	16:28:22
3	Zn 213.857†	722.9	123.1	1.4830 ug/L	1.4830 ppb	16:28:42
3	SiO2†	538.1	55.6	4.4503 ug/L	4.4503 ppb	16:29:43

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	790002.4	97.180 %		0.4328			0.45%
Sc Radial	4368.0	95.2 %		1.07			1.13%
Y 371.029	668352.7	96.942 %		0.3199			0.33%
Y RADIAL	4728.1	95.82 %		1.187			1.24%
Ag 328.068†	-64.7	-0.3279 ug/L		0.18691	-0.3279 ppb	0.18691	57.01%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	-2.4	-2.2604 ug/L		6.04060	-2.2604 ppb	6.04060	267.24%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	2.5	1.3657 ug/L		2.17775	1.3657 ppb	2.17775	159.46%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	627.5	17.558 ug/L		0.0695	17.558 ppb	0.0695	0.40%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	17.7	0.1652 ug/L		0.00623	0.1652 ppb	0.00623	3.77%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-34.3	-0.0147 ug/L		0.03941	-0.0147 ppb	0.03941	268.36%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	4.7	8.3902 ug/L		4.64331	8.3902 ppb	4.64331	55.34%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	67.1	0.9707 ug/L	0.09621	0.9707 ppb	0.09621	9.91%			
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-6.4	-0.1645 ug/L	0.17887	-0.1645 ppb	0.17887	108.76%			
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	3.0	0.0418 ug/L	0.16771	0.0418 ppb	0.16771	401.70%			
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	74.6	0.2486 ug/L	0.32512	0.2486 ppb	0.32512	130.79%			
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	1.1	11.635 ug/L	9.6768	11.635 ppb	9.6768	83.17%			
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	434.0	83.137 ug/L	3.5173	83.137 ppb	3.5173	4.23%			
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	0.7	27.321 ug/L	55.9783	27.321 ppb	55.9783	204.89%			
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	6.2	0.0082 ug/L	0.01077	0.0082 ppb	0.01077	131.03%			
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	4.3	0.3833 ug/L	0.17402	0.3833 ppb	0.17402	45.40%			
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	21.1	7.4025 ug/L	9.94649	7.4025 ppb	9.94649	134.37%			
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	12.9	0.4102 ug/L	0.41069	0.4102 ppb	0.41069	100.12%			
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	14.5	10.855 ug/L	3.7405	10.855 ppb	3.7405	34.46%			
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	4.2	0.6473 ug/L	1.63496	0.6473 ppb	1.63496	252.58%			
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	1.4	2.4899 ug/L	5.47851	2.4899 ppb	5.47851	220.03%			
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	11.1	4.6142 ug/L	3.57069	4.6142 ppb	3.57069	77.39%			
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	0.8	0.7207 ug/L	6.32757	0.7207 ppb	6.32757	877.95%			
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	55.6	2.0862 ug/L	0.63563	2.0862 ppb	0.63563	30.47%			
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	3.5	0.7783 ug/L	0.80147	0.7783 ppb	0.80147	102.98%			
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	19.0	0.1454 ug/L	0.04725	0.1454 ppb	0.04725	32.50%			
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	-8.9	-0.0157 ug/L	0.07859	-0.0157 ppb	0.07859	499.33%			
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	8.1	3.1062 ug/L	0.81173	3.1062 ppb	0.81173	26.13%			
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	-59.8	-1.8059 ug/L	2.02889	-1.8059 ppb	2.02889	112.34%			
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	-23.1	-0.1834 ug/L	0.20722	-0.1834 ppb	0.20722	113.00%			
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	127.6	1.5370 ug/L	0.06652	1.5370 ppb	0.06652	4.33%			
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	66.7	5.3345 ug/L	1.39889	5.3345 ppb	1.39889	26.22%			
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

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Analysis Begun

Start Time: 3/16/2010 16:30:36

Plasma On Time: 3/15/2010 06:51:19

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601 Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\031610.sif

Batch ID:

Results Data Set: 031610

Results Library: C:\pe\Optima3\Results\Results.mdb
=====

Method Loaded

Method Name: General Eng.2AX

Method Last Saved: 3/15/2010 08:46:50

IEC File: 011110.iec

MSF File:

Method Description:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Al 396.153Radial	Lin Thru 0	Peak Area	Radial	Sc 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
B 249.677	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Ca 317.933Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Cd 226.502	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Fe 238.204 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
K 766.490 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mg 279.077 IEC	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Na 589.592 Radial	Lin Thru 0	Peak Area	Radial	Sc Radial	No
Ni 231.604	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
P 214.914	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
S 181.975 Axial	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sc 361.383	Lin Thru 0	Peak Area	Axial	n/a	n/a
Sc Radial	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Se 196.026	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Si 251.611	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	Sc Radial	Yes
Ti 334.940	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
U 409.014	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Zn 213.857	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes
Y RADIAL	Lin, Calc Int	Peak Area	Radial	n/a	n/a
SiO2	Lin Thru 0	Peak Area	Axial	Sc 361.383	Yes

Sequence No.: 1

Autosampler Location: 35

Sample ID: LR1

Date Collected: 3/16/2010 16:30:38

Analyst: HSC

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: LR1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4178.0	4178.0	91.1 %		16:32:51
1	Y RADIAL	4673.3	4673.3	94.71 %		16:32:31
1	Al 396.153Radial†	-102.3	-26.5	-23.594 ug/L	-23.594 ppb	16:32:51

1	Ca 317.933Radial†	19.3	-6.7	-11.798 ug/L	-11.798 ppb	16:32:51
1	Fe 238.204 Radial†	33758.8	37060.8	388300 ug/L	388300 ppb	16:32:31
1	K 766.490 Radial†	2362.6	38.5	7.4411 ug/L	7.4411 ppb	16:32:31
1	Mg 279.077 IEC†	6.5	7.0	-139.40 ug/L	-139.40 ppb	16:32:51
1	Na 589.592 Radial†	-779.9	-51.3	-17.977 ug/L	-17.977 ppb	16:32:31
1	Sr 421.552†	87.2	70.0	0.5348 ug/L	0.5348 ppb	16:32:31
1	Sc 361.383	764780.4	764780.4	94.077 %		16:33:48
1	Y 371.029	642331.2	642331.2	93.168 %		16:33:48
1	Ag 328.068†	-21658.0	-23232.1	0.9837 ug/L	0.9837 ppb	16:33:48
1	As 188.979†	-158.8	-151.8	6.5554 ug/L	6.5554 ppb	16:34:08
1	B 249.677†	1692.3	2214.2	-1.1446 ug/L	-1.1446 ppb	16:33:48
1	Ba 233.527†	-1588.7	-1701.2	-3.9853 ug/L	-3.9853 ppb	16:33:48
1	Be 313.107†	-3659.4	-160.8	-0.0691 ug/L	-0.0691 ppb	16:33:48
1	Cd 226.502†	2527.2	2862.6	1.3801 ug/L	1.3801 ppb	16:33:48
1	Co 228.616†	617.5	696.3	12.414 ug/L	12.414 ppb	16:34:08
1	Cr 267.716†	-453.6	-561.7	33.650 ug/L	33.650 ppb	16:34:08
1	Cu 324.752†	-1160.1	-6699.4	-1.6549 ug/L	-1.6549 ppb	16:33:48
1	Mn 257.610†	-29841.1	-32270.7	-4.1484 ug/L	-4.1484 ppb	16:33:48
1	Mo 202.031†	-275.5	-305.7	3.2627 ug/L	3.2627 ppb	16:33:48
1	Ni 231.604†	146.4	74.2	2.3514 ug/L	2.3514 ppb	16:34:08
1	P 214.914†	599.1	452.9	32.637 ug/L	32.637 ppb	16:34:08
1	Pb 220.353†	183.3	237.6	-18.650 ug/L	-18.650 ppb	16:34:08
1	S 181.975 Axial†	41.2	13.6	24.338 ug/L	24.338 ppb	16:34:08
1	Sb 206.836†	27.2	4.4	-2.9939 ug/L	-2.9939 ppb	16:34:08
1	Se 196.026†	-1541.1	-1619.3	-227.53 ug/L	-227.53 ppb	16:34:08
1	Si 251.611†	-393.0	-916.0	-34.140 ug/L	-34.140 ppb	16:33:48
1	Sn 189.927†	-13.5	-22.3	-27.322 ug/L	-27.322 ppb	16:34:08
1	Tl 334.940†	-1126.4	-110.0	-0.2367 ug/L	-0.2367 ppb	16:33:48
1	Tl 190.801†	-33.7	-4.0	-1.9193 ug/L	-1.9193 ppb	16:34:08
1	U 409.014†	-111.7	1962.2	15.012 ug/L	15.012 ppb	16:33:48
1	V 292.402†	5142.6	6784.1	-2.6119 ug/L	-2.6119 ppb	16:33:48
1	Zn 213.857†	3645.6	3258.0	-18.735 ug/L	-18.735 ppb	16:34:08
1	SiO2†	-444.1	-967.4	-76.741 ug/L	-76.741 ppb	16:35:05
2	Sc Radial	4172.9	4172.9	91.0 %		16:33:16
2	Y RADIAL	4662.2	4662.2	94.49 %		16:32:56
2	Al 396.153Radial†	-89.5	-12.5	-10.503 ug/L	-10.503 ppb	16:33:16
2	Ca 317.933Radial†	19.3	-6.7	-11.776 ug/L	-11.776 ppb	16:33:16
2	Fe 238.204 Radial†	33500.5	36821.7	385800 ug/L	385800 ppb	16:32:56
2	K 766.490 Radial†	2258.6	-72.7	-13.881 ug/L	-13.881 ppb	16:32:56
2	Mg 279.077 IEC†	11.8	12.9	86.864 ug/L	86.864 ppb	16:33:16
2	Na 589.592 Radial†	-737.8	-6.1	-2.1238 ug/L	-2.1238 ppb	16:32:56
2	Sr 421.552†	98.1	82.1	0.6276 ug/L	0.6276 ppb	16:32:56
2	Sc 361.383	783031.3	783031.3	96.322 %		16:34:14
2	Y 371.029	657998.2	657998.2	95.440 %		16:34:14
2	Ag 328.068†	-22196.5	-23254.6	0.0883 ug/L	0.0883 ppb	16:34:14
2	As 188.979†	-157.0	-145.9	9.2238 ug/L	9.2238 ppb	16:34:34
2	B 249.677†	1716.1	2196.9	-1.2203 ug/L	-1.2203 ppb	16:34:14
2	Ba 233.527†	-1551.7	-1623.4	-3.3346 ug/L	-3.3346 ppb	16:34:14
2	Be 313.107†	-3723.3	-136.4	-0.0588 ug/L	-0.0588 ppb	16:34:14
2	Cd 226.502†	2555.9	2829.9	1.1656 ug/L	1.1656 ppb	16:34:14
2	Co 228.616†	618.5	681.9	12.080 ug/L	12.080 ppb	16:34:34
2	Cr 267.716†	-478.4	-576.2	33.188 ug/L	33.188 ppb	16:34:34
2	Cu 324.752†	-1234.5	-6747.9	-1.9503 ug/L	-1.9503 ppb	16:34:14
2	Mn 257.610†	-30914.3	-32645.6	-4.8985 ug/L	-4.8985 ppb	16:34:14
2	Mo 202.031†	-279.3	-302.8	3.3239 ug/L	3.3239 ppb	16:34:14
2	Ni 231.604†	175.0	100.3	3.1822 ug/L	3.1822 ppb	16:34:34
2	P 214.914†	591.7	430.4	17.797 ug/L	17.797 ppb	16:34:34
2	Pb 220.353†	155.7	204.5	-23.407 ug/L	-23.407 ppb	16:34:34
2	S 181.975 Axial†	38.7	10.0	17.932 ug/L	17.932 ppb	16:34:34
2	Sb 206.836†	14.3	-9.7	-8.7838 ug/L	-8.7838 ppb	16:34:34
2	Se 196.026†	-1549.6	-1590.0	-210.41 ug/L	-210.41 ppb	16:34:34
2	Si 251.611†	-430.9	-945.6	-35.257 ug/L	-35.257 ppb	16:34:14
2	Sn 189.927†	-13.1	-21.6	-27.013 ug/L	-27.013 ppb	16:34:34
2	Ti 334.940†	-1185.8	-143.8	-0.3151 ug/L	-0.3151 ppb	16:34:14
2	Tl 190.801†	-31.9	-1.3	-0.8870 ug/L	-0.8870 ppb	16:34:34
2	U 409.014†	15.4	2097.0	19.368 ug/L	19.368 ppb	16:34:14
2	V 292.402†	5197.3	6713.5	-2.7956 ug/L	-2.7956 ppb	16:34:14
2	Zn 213.857†	3629.1	3150.5	-19.663 ug/L	-19.663 ppb	16:34:34
2	SiO2†	-403.4	-914.1	-72.480 ug/L	-72.480 ppb	16:35:10
3	Sc Radial	4104.7	4104.7	89.5 %		16:33:41
3	Y RADIAL	4660.7	4660.7	94.46 %		16:33:21

3	Al 396.153Radial†	-105.0	-31.6	-28.511 ug/L	-28.511 ppb	16:33:41
3	Ca 317.933Radial†	20.5	-4.9	-8.6467 ug/L	-8.6467 ppb	16:33:41
3	Fe 238.204 Radial†	33559.2	37499.5	392900 ug/L	392900 ppb	16:33:21
3	K 766.490 Radial†	2342.2	62.0	11.942 ug/L	11.942 ppb	16:33:21
3	Mg 279.077 IEC†	10.3	11.5	25.641 ug/L	25.641 ppb	16:33:41
3	Na 589.592 Radial†	-784.4	-71.6	-25.101 ug/L	-25.101 ppb	16:33:21
3	Sr 421.552†	66.7	48.7	0.3723 ug/L	0.3723 ppb	16:33:21
3	Sc 361.383	785853.1	785853.1	96.669 %		16:34:40
3	Y 371.029	661029.2	661029.2	95.880 %		16:34:40
3	Ag 328.068†	-22125.7	-23098.6	3.0871 ug/L	3.0871 ppb	16:34:40
3	As 188.979†	-160.5	-149.0	9.1814 ug/L	9.1814 ppb	16:35:00
3	B 249.677†	1620.9	2092.1	-5.3085 ug/L	-5.3085 ppb	16:34:40
3	Ba 233.527†	-1600.3	-1668.0	-3.5346 ug/L	-3.5346 ppb	16:34:40
3	Be 313.107†	-3747.1	-147.2	-0.0630 ug/L	-0.0630 ppb	16:34:40
3	Cd 226.502†	2533.2	2796.8	-0.0473 ug/L	-0.0473 ppb	16:34:40
3	Co 228.616†	621.3	682.5	11.998 ug/L	11.998 ppb	16:35:00
3	Cr 267.716†	-442.2	-536.9	34.468 ug/L	34.468 ppb	16:35:00
3	Cu 324.752†	-1423.8	-6939.1	-2.2069 ug/L	-2.2069 ppb	16:34:40
3	Mn 257.610†	-30998.2	-32617.1	-4.1575 ug/L	-4.1575 ppb	16:34:40
3	Mo 202.031†	-248.4	-269.8	6.7716 ug/L	6.7716 ppb	16:34:40
3	Ni 231.604†	178.9	103.6	3.2886 ug/L	3.2886 ppb	16:35:00
3	P 214.914†	607.7	444.7	22.974 ug/L	22.974 ppb	16:35:00
3	Pb 220.353†	172.2	220.9	-21.879 ug/L	-21.879 ppb	16:35:00
3	S 181.975 Axial†	39.8	11.0	19.628 ug/L	19.628 ppb	16:35:00
3	Sb 206.836†	15.5	-8.5	-8.2826 ug/L	-8.2826 ppb	16:35:00
3	Se 196.026†	-1553.6	-1588.4	-188.62 ug/L	-188.62 ppb	16:35:00
3	Si 251.611†	-458.3	-972.3	-36.298 ug/L	-36.298 ppb	16:34:40
3	Sn 189.927†	-11.8	-20.2	-27.109 ug/L	-27.109 ppb	16:35:00
3	Ti 334.940†	-1097.1	-47.6	-0.1438 ug/L	-0.1438 ppb	16:34:40
3	Tl 190.801†	-26.2	4.7	1.4145 ug/L	1.4145 ppb	16:35:00
3	U 409.014†	-16.4	2064.1	17.562 ug/L	17.562 ppb	16:34:40
3	V 292.402†	5258.1	6757.0	-3.4443 ug/L	-3.4443 ppb	16:34:40
3	Zn 213.857†	3619.6	3127.2	-21.008 ug/L	-21.008 ppb	16:35:00
3	SiO2†	-364.6	-872.5	-69.227 ug/L	-69.227 ppb	16:35:15

Mean Data: LR1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	777888.3	95.690 %		1.4071			1.47%
Sc Radial	4151.8	90.5 %		0.89			0.99%
Y 371.029	653786.2	94.829 %		1.4556			1.53%
Y RADIAL	4665.4	94.55 %		0.139			0.15%
Ag 328.068†	-23195.1	1.3864 ug/L		1.53941	1.3864 ppb	1.53941	111.04%
Al 396.153Radial†	-23.5	-20.869 ug/L		9.3079	-20.869 ppb	9.3079	44.60%
As 188.979†	-148.9	8.3202 ug/L		1.52849	8.3202 ppb	1.52849	18.37%
B 249.677†	2167.7	-2.5578 ug/L		2.38247	-2.5578 ppb	2.38247	93.15%
Ba 233.527†	-1664.2	-3.6182 ug/L		0.33328	-3.6182 ppb	0.33328	9.21%
Be 313.107†	-148.1	-0.0636 ug/L		0.00516	-0.0636 ppb	0.00516	8.12%
Ca 317.933Radial†	-6.1	-10.740 ug/L		1.8133	-10.740 ppb	1.8133	16.88%
Cd 226.502†	2829.7	0.8328 ug/L		0.76968	0.8328 ppb	0.76968	92.42%
Co 228.616†	686.9	12.164 ug/L		0.2206	12.164 ppb	0.2206	1.81%
Cr 267.716†	-558.3	33.769 ug/L		0.6484	33.769 ppb	0.6484	1.92%
Cu 324.752†	-6795.5	-1.9374 ug/L		0.27623	-1.9374 ppb	0.27623	14.26%
Fe 238.204 Radial†	37127.3	389000 ug/L		3601.3	389000 ppb	3601.3	0.93%
K 766.490 Radial†	9.3	1.8342 ug/L		13.79430	1.8342 ppb	13.79430	752.07%
Mg 279.077 IEC†	10.5	-8.9642 ug/L		117.03310	-8.9642 ppb	117.03310	>999.9%
Mn 257.610†	-32511.1	-4.4015 ug/L		0.43044	-4.4015 ppb	0.43044	9.78%
Mo 202.031†	-292.8	4.4527 ug/L		2.00843	4.4527 ppb	2.00843	45.11%
Na 589.592 Radial†	-43.0	-15.067 ug/L		11.7617	-15.067 ppb	11.7617	78.06%
Ni 231.604†	92.7	2.9407 ug/L		0.51311	2.9407 ppb	0.51311	17.45%
P 214.914†	442.7	24.469 ug/L		7.5320	24.469 ppb	7.5320	30.78%
Pb 220.353†	221.0	-21.312 ug/L		2.4287	-21.312 ppb	2.4287	11.40%
S 181.975 Axial†	11.6	20.633 ug/L		3.3194	20.633 ppb	3.3194	16.09%
Sb 206.836†	-4.6	-6.6867 ug/L		3.20791	-6.6867 ppb	3.20791	47.97%
Se 196.026†	-1599.2	-208.86 ug/L		19.500	-208.86 ppb	19.500	9.34%
Si 251.611†	-944.6	-35.231 ug/L		1.0792	-35.231 ppb	1.0792	3.06%
Sn 189.927†	-21.4	-27.148 ug/L		0.1584	-27.148 ppb	0.1584	0.58%
Sr 421.552†	67.0	0.5116 ug/L		0.12919	0.5116 ppb	0.12919	25.25%
Ti 334.940†	-100.4	-0.2319 ug/L		0.08576	-0.2319 ppb	0.08576	36.98%
Tl 190.801†	-0.2	-0.4639 ug/L		1.70669	-0.4639 ppb	1.70669	367.90%

U 409.014†	2041.1	17.314 ug/L	2.1885	17.314 ppb	2.1885	12.64%
V 292.402†	6751.5	-2.9506 ug/L	0.43730	-2.9506 ppb	0.43730	14.82%
Zn 213.857†	3178.6	-19.802 ug/L	1.1425	-19.802 ppb	1.1425	5.77%
Sio2†	-918.0	-72.816 ug/L	3.7681	-72.816 ppb	3.7681	5.17%

Sequence No.: 2

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/16/2010 16:37:27

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4315.2	4315.2	94.1 %		16:39:19
1	Y RADIAL	4632.6	4632.6	93.88 %		16:39:19
1	Al 396.153Radial†	4927.8	5324.7	4981.8 ug/L	4981.8 ppb	16:39:19
1	Ca 317.933Radial†	2725.2	2869.4	5071.9 ug/L	5071.9 ppb	16:39:39
1	Fe 238.204 Radial†	463.1	484.5	5091.4 ug/L	5091.4 ppb	16:39:39
1	K 766.490 Radial†	27434.8	26611.1	5091.7 ug/L	5091.7 ppb	16:39:19
1	Mg 279.077 IEC†	129.3	137.3	5226.0 ug/L	5226.0 ppb	16:39:39
1	Na 589.592 Radial†	26481.5	28958.5	10147 ug/L	10147 ppb	16:39:19
1	Sr 421.552†	62652.8	66582.5	508.61 ug/L	508.61 ppb	16:39:19
1	Sc 361.383	801745.1	801745.1	98.624 %		16:40:36
1	Y 371.029	667993.0	667993.0	96.890 %		16:40:36
1	Ag 328.068†	96168.2	97299.1	502.61 ug/L	502.61 ppb	16:40:41
1	As 188.979†	868.3	897.5	503.71 ug/L	503.71 ppb	16:41:01
1	B 249.677†	17206.6	17862.0	497.59 ug/L	497.59 ppb	16:40:41
1	Ba 233.527†	52747.2	53470.5	501.58 ug/L	501.58 ppb	16:40:41
1	Be 313.107†	1161545.8	1181477.2	505.44 ug/L	505.44 ppb	16:40:36
1	Cd 226.502†	33881.3	34530.2	500.20 ug/L	500.20 ppb	16:40:41
1	Co 228.616†	19296.5	19605.5	509.43 ug/L	509.43 ppb	16:40:41
1	Cr 267.716†	36883.4	37318.3	502.11 ug/L	502.11 ppb	16:40:41
1	Cu 324.752†	153095.3	149764.5	495.71 ug/L	495.71 ppb	16:40:41
1	Mn 257.610†	368709.7	373301.9	491.79 ug/L	491.79 ppb	16:40:41
1	Mo 202.031†	5567.3	5632.1	495.74 ug/L	495.74 ppb	16:41:01
1	Ni 231.604†	15807.7	15946.8	507.42 ug/L	507.42 ppb	16:40:41
1	P 214.914†	3421.5	3285.3	2377.4 ug/L	2377.4 ppb	16:41:01
1	Pb 220.353†	3144.4	3231.0	499.88 ug/L	499.88 ppb	16:41:01
1	S 181.975 Axial†	567.3	545.1	972.34 ug/L	972.34 ppb	16:41:01
1	Sb 206.836†	1186.0	1178.0	505.59 ug/L	505.59 ppb	16:41:01
1	Se 196.026†	578.2	605.0	519.78 ug/L	519.78 ppb	16:41:01
1	Si 251.611†	66187.1	66612.1	2500.7 ug/L	2500.7 ppb	16:40:41
1	Sn 189.927†	2163.4	2185.6	492.72 ug/L	492.72 ppb	16:41:01
1	Ti 334.940†	277617.5	282577.3	488.18 ug/L	488.18 ppb	16:40:41
1	Tl 190.801†	1247.7	1296.9	502.58 ug/L	502.58 ppb	16:41:01
1	U 409.014†	14548.0	16831.9	506.64 ug/L	506.64 ppb	16:40:41
1	V 292.402†	60211.4	62369.0	504.91 ug/L	504.91 ppb	16:40:41
1	Zn 213.857†	42023.6	41992.6	502.64 ug/L	502.64 ppb	16:40:41
1	SiO2†	65516.6	65935.2	5266.7 ug/L	5266.7 ppb	16:42:08
2	Sc Radial	4370.0	4370.0	95.3 %		16:39:44
2	Y RADIAL	4678.0	4678.0	94.81 %		16:39:44
2	Al 396.153Radial†	4955.6	5288.2	4947.7 ug/L	4947.7 ppb	16:39:44
2	Ca 317.933Radial†	2742.6	2851.4	5040.1 ug/L	5040.1 ppb	16:40:04
2	Fe 238.204 Radial†	459.9	474.9	4990.8 ug/L	4990.8 ppb	16:40:04
2	K 766.490 Radial†	27720.6	26545.3	5079.1 ug/L	5079.1 ppb	16:39:44
2	Mg 279.077 IEC†	127.4	133.6	5085.7 ug/L	5085.7 ppb	16:40:04
2	Na 589.592 Radial†	26677.7	28811.2	10095 ug/L	10095 ppb	16:39:44
2	Sr 421.552†	63286.9	66412.6	507.31 ug/L	507.31 ppb	16:39:44
2	Sc 361.383	809268.5	809268.5	99.550 %		16:41:07
2	Y 371.029	674590.1	674590.1	97.847 %		16:41:07
2	Ag 328.068†	95983.0	96206.5	496.95 ug/L	496.95 ppb	16:41:12
2	As 188.979†	863.9	884.9	496.61 ug/L	496.61 ppb	16:41:32
2	B 249.677†	17126.9	17619.7	490.84 ug/L	490.84 ppb	16:41:12
2	Ba 233.527†	52564.3	52789.6	495.19 ug/L	495.19 ppb	16:41:12
2	Be 313.107†	1169968.8	1178989.2	504.36 ug/L	504.36 ppb	16:41:07
2	Cd 226.502†	33737.4	34066.3	493.48 ug/L	493.48 ppb	16:41:12
2	Co 228.616†	19233.6	19360.4	503.07 ug/L	503.07 ppb	16:41:12
2	Cr 267.716†	36758.6	36845.4	495.74 ug/L	495.74 ppb	16:41:12
2	Cu 324.752†	152629.8	147853.9	489.38 ug/L	489.38 ppb	16:41:12
2	Mn 257.610†	367263.0	368373.1	485.29 ug/L	485.29 ppb	16:41:12
2	Mo 202.031†	5567.7	5580.0	491.15 ug/L	491.15 ppb	16:41:32
2	Ni 231.604†	15822.5	15812.7	503.16 ug/L	503.16 ppb	16:41:12

2	P 214.914†	3423.8	3255.4	2356.1 ug/L	2356.1 ppb	16:41:32
2	Pb 220.353†	3147.0	3204.1	495.73 ug/L	495.73 ppb	16:41:32
2	S 181.975 Axial†	569.1	541.6	966.02 ug/L	966.02 ppb	16:41:32
2	Sb 206.836†	1181.6	1162.4	499.03 ug/L	499.03 ppb	16:41:32
2	Se 196.026†	569.5	590.8	507.70 ug/L	507.70 ppb	16:41:32
2	Si 251.611†	66069.2	65869.8	2472.8 ug/L	2472.8 ppb	16:41:12
2	Sn 189.927†	2175.3	2177.1	490.81 ug/L	490.81 ppb	16:41:32
2	Ti 334.940†	276699.2	279037.9	482.08 ug/L	482.08 ppb	16:41:12
2	Tl 190.801†	1261.8	1299.3	503.48 ug/L	503.48 ppb	16:41:32
2	U 409.014†	14441.7	16588.1	499.31 ug/L	499.31 ppb	16:41:12
2	V 292.402†	60031.5	61620.7	498.87 ug/L	498.87 ppb	16:41:12
2	Zn 213.857†	41955.8	41528.4	497.08 ug/L	497.08 ppb	16:41:12
2	SiO2†	65960.1	65763.1	5253.1 ug/L	5253.1 ppb	16:42:13
3	Sc Radial	4337.2	4337.2	94.5 %		16:40:09
3	Y RADIAL	4644.1	4644.1	94.12 %		16:40:09
3	Al 396.153Radial†	4936.7	5307.4	4965.6 ug/L	4965.6 ppb	16:40:09
3	Ca 317.933Radial†	2749.3	2880.1	5090.9 ug/L	5090.9 ppb	16:40:29
3	Fe 238.204 Radial†	466.5	485.5	5102.7 ug/L	5102.7 ppb	16:40:29
3	K 766.490 Radial†	27628.7	26667.7	5102.5 ug/L	5102.5 ppb	16:40:09
3	Mg 279.077 IEC†	129.1	136.5	5195.0 ug/L	5195.0 ppb	16:40:29
3	Na 589.592 Radial†	26738.1	29086.5	10192 ug/L	10192 ppb	16:40:09
3	Sr 421.552†	63022.6	66634.4	509.00 ug/L	509.00 ppb	16:40:09
3	Sc 361.383	802959.7	802959.7	98.774 %		16:41:38
3	Y 371.029	670274.4	670274.4	97.221 %		16:41:38
3	Ag 328.068†	96345.5	97331.0	502.79 ug/L	502.79 ppb	16:41:43
3	As 188.979†	870.7	898.6	504.33 ug/L	504.33 ppb	16:42:03
3	B 249.677†	17355.7	17986.5	501.06 ug/L	501.06 ppb	16:41:43
3	Ba 233.527†	53076.5	53723.0	503.95 ug/L	503.95 ppb	16:41:43
3	Be 313.107†	1163258.5	1181429.7	505.42 ug/L	505.42 ppb	16:41:38
3	Cd 226.502†	34072.8	34672.1	502.26 ug/L	502.26 ppb	16:41:43
3	Co 228.616†	19499.0	19781.0	513.99 ug/L	513.99 ppb	16:41:43
3	Cr 267.716†	37061.9	37442.5	503.78 ug/L	503.78 ppb	16:41:43
3	Cu 324.752†	153412.4	149850.8	496.00 ug/L	496.00 ppb	16:41:43
3	Mn 257.610†	370844.8	374898.0	493.89 ug/L	493.89 ppb	16:41:43
3	Mo 202.031†	5565.2	5621.5	494.80 ug/L	494.80 ppb	16:42:03
3	Ni 231.604†	15975.6	16092.5	512.06 ug/L	512.06 ppb	16:41:43
3	P 214.914†	3423.0	3281.6	2374.5 ug/L	2374.5 ppb	16:42:03
3	Pb 220.353†	3133.4	3215.0	497.41 ug/L	497.41 ppb	16:42:03
3	S 181.975 Axial†	567.9	544.8	971.79 ug/L	971.79 ppb	16:42:03
3	Sb 206.836†	1188.8	1179.1	506.01 ug/L	506.01 ppb	16:42:03
3	Se 196.026†	577.8	603.8	518.81 ug/L	518.81 ppb	16:42:03
3	Si 251.611†	66589.6	66918.1	2512.2 ug/L	2512.2 ppb	16:41:43
3	Sn 189.927†	2161.7	2180.6	491.58 ug/L	491.58 ppb	16:42:03
3	Ti 334.940†	279058.1	283610.0	489.97 ug/L	489.97 ppb	16:41:43
3	Tl 190.801†	1243.7	1290.9	500.29 ug/L	500.29 ppb	16:42:03
3	U 409.014†	14494.5	16755.5	504.33 ug/L	504.33 ppb	16:41:43
3	V 292.402†	60590.3	62660.2	507.21 ug/L	507.21 ppb	16:41:43
3	Zn 213.857†	42324.8	42233.1	505.52 ug/L	505.52 ppb	16:41:43
3	SiO2†	66350.3	66678.7	5326.3 ug/L	5326.3 ppb	16:42:19

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804657.8	98.983 %	0.4968			0.50%
Sc Radial	4340.8	94.6 %	0.60			0.64%
Y 371.029	670952.5	97.319 %	0.4860			0.50%
Y RADIAL	4651.6	94.27 %	0.479			0.51%
Ag 328.068†	96945.6	500.79 ug/L	3.319	500.79 ppb	3.319	0.66%
QC value within limits for Ag 328.068 Recovery = 100.16%						
Al 396.153Radial†	5306.8	4965.0 ug/L	17.07	4965.0 ppb	17.07	0.34%
QC value within limits for Al 396.153Radial Recovery = 99.30%						
As 188.979†	893.6	501.55 ug/L	4.285	501.55 ppb	4.285	0.85%
QC value within limits for As 188.979 Recovery = 100.31%						
B 249.677†	17822.7	496.50 ug/L	5.195	496.50 ppb	5.195	1.05%
QC value within limits for B 249.677 Recovery = 99.30%						
Ba 233.527†	53327.7	500.24 ug/L	4.529	500.24 ppb	4.529	0.91%
QC value within limits for Ba 233.527 Recovery = 100.05%						
Be 313.107†	1180632.0	505.07 ug/L	0.617	505.07 ppb	0.617	0.12%
QC value within limits for Be 313.107 Recovery = 101.01%						
Ca 317.933Radial†	2866.9	5067.6 ug/L	25.67	5067.6 ppb	25.67	0.51%

QC value within limits for Ca 317.933 Radial Recovery = 101.35%						
Cd 226.502†	34422.9	498.65 ug/L	4.588	498.65 ppb	4.588	0.92%
QC value within limits for Cd 226.502 Recovery = 99.73%						
Co 228.616†	19582.3	508.83 ug/L	5.484	508.83 ppb	5.484	1.08%
QC value within limits for Co 228.616 Recovery = 101.77%						
Cr 267.716†	37202.1	500.54 ug/L	4.242	500.54 ppb	4.242	0.85%
QC value within limits for Cr 267.716 Recovery = 100.11%						
Cu 324.752†	149156.4	493.70 ug/L	3.738	493.70 ppb	3.738	0.76%
QC value within limits for Cu 324.752 Recovery = 98.74%						
Fe 238.204 Radial†	481.6	5061.6 ug/L	61.61	5061.6 ppb	61.61	1.22%
QC value within limits for Fe 238.204 Radial Recovery = 101.23%						
K 766.490 Radial†	26608.0	5091.1 ug/L	11.71	5091.1 ppb	11.71	0.23%
QC value within limits for K 766.490 Radial Recovery = 101.82%						
Mg 279.077 IEC†	135.8	5168.9 ug/L	73.72	5168.9 ppb	73.72	1.43%
QC value within limits for Mg 279.077 IEC Recovery = 103.38%						
Mn 257.610†	372191.0	490.32 ug/L	4.482	490.32 ppb	4.482	0.91%
QC value within limits for Mn 257.610 Recovery = 98.06%						
Mo 202.031†	5611.2	493.90 ug/L	2.426	493.90 ppb	2.426	0.49%
QC value within limits for Mo 202.031 Recovery = 98.78%						
Na 589.592 Radial†	28952.1	10144 ug/L	48.3	10144 ppb	48.3	0.48%
QC value within limits for Na 589.592 Radial Recovery = 101.44%						
Ni 231.604†	15950.7	507.55 ug/L	4.454	507.55 ppb	4.454	0.88%
QC value within limits for Ni 231.604 Recovery = 101.51%						
P 214.914†	3274.1	2369.3 ug/L	11.52	2369.3 ppb	11.52	0.49%
QC value within limits for P 214.914 Recovery = 94.77%						
Pb 220.353†	3216.7	497.67 ug/L	2.092	497.67 ppb	2.092	0.42%
QC value within limits for Pb 220.353 Recovery = 99.53%						
S 181.975 Axial†	543.8	970.05 ug/L	3.502	970.05 ppb	3.502	0.36%
QC value within limits for S 181.975 Axial Recovery = 97.01%						
Sb 206.836†	1173.2	503.54 ug/L	3.913	503.54 ppb	3.913	0.78%
QC value within limits for Sb 206.836 Recovery = 100.71%						
Se 196.026†	599.9	515.43 ug/L	6.714	515.43 ppb	6.714	1.30%
QC value within limits for Se 196.026 Recovery = 103.09%						
Si 251.611†	66466.7	2495.3 ug/L	20.26	2495.3 ppb	20.26	0.81%
QC value within limits for Si 251.611 Recovery = 99.81%						
Sn 189.927†	2181.1	491.70 ug/L	0.961	491.70 ppb	0.961	0.20%
QC value within limits for Sn 189.927 Recovery = 98.34%						
Sr 421.552†	66543.2	508.31 ug/L	0.886	508.31 ppb	0.886	0.17%
QC value within limits for Sr 421.552 Recovery = 101.66%						
Ti 334.940†	281741.8	486.75 ug/L	4.139	486.75 ppb	4.139	0.85%
QC value within limits for Ti 334.940 Recovery = 97.35%						
Tl 190.801†	1295.7	502.11 ug/L	1.643	502.11 ppb	1.643	0.33%
QC value within limits for Tl 190.801 Recovery = 100.42%						
U 409.014†	16725.2	503.43 ug/L	3.752	503.43 ppb	3.752	0.75%
QC value within limits for U 409.014 Recovery = 100.69%						
V 292.402†	62216.6	503.66 ug/L	4.307	503.66 ppb	4.307	0.86%
QC value within limits for V 292.402 Recovery = 100.73%						
Zn 213.857†	41918.0	501.75 ug/L	4.286	501.75 ppb	4.286	0.85%
QC value within limits for Zn 213.857 Recovery = 100.35%						
SiO2†	66125.6	5282.1 ug/L	38.94	5282.1 ppb	38.94	0.74%
QC value within limits for SiO2 Recovery = 98.78%						
All analyte(s) passed QC.						

Sequence No.: 3

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/16/2010 16:44:29

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4387.0	4387.0	95.6 %		16:46:22
1	Y RADIAL	4715.2	4715.2	95.56 %		16:46:22
1	Al 396.153Radial†	-63.7	19.2	18.038 ug/L	18.038 ppb	16:46:42
1	Ca 317.933Radial†	32.9	6.5	11.549 ug/L	11.549 ppb	16:46:42
1	Fe 238.204 Radial†	8.7	1.2	13.058 ug/L	13.058 ppb	16:46:42
1	K 766.490 Radial†	2648.5	213.9	40.977 ug/L	40.977 ppb	16:46:22
1	Mg 279.077 IEC†	1.9	1.9	71.985 ug/L	71.985 ppb	16:46:42
1	Na 589.592 Radial†	-843.2	-76.7	-26.871 ug/L	-26.871 ppb	16:46:22
1	Sr 421.552†	43.8	20.0	0.1530 ug/L	0.1530 ppb	16:46:22
1	Sc 361.383	788216.0	788216.0	96.960 %		16:47:39
1	Y 371.029	665925.8	665925.8	96.590 %		16:47:39
1	Ag 328.068†	95.6	-112.0	-0.5679 ug/L	-0.5679 ppb	16:47:39
1	As 188.979†	-17.1	-0.6	-0.3326 ug/L	-0.3326 ppb	16:47:59
1	B 249.677†	-50.6	363.2	10.161 ug/L	10.161 ppb	16:47:59
1	Ba 233.527†	29.0	17.4	0.1637 ug/L	0.1637 ppb	16:47:59
1	Be 313.107†	-3693.8	-80.6	-0.0347 ug/L	-0.0347 ppb	16:47:39
1	Cd 226.502†	-145.4	26.4	0.3809 ug/L	0.3809 ppb	16:47:59
1	Co 228.616†	-33.6	5.2	0.1345 ug/L	0.1345 ppb	16:47:59
1	Cr 267.716†	61.4	-16.2	-0.2154 ug/L	-0.2154 ppb	16:47:59
1	Cu 324.752†	5376.1	78.4	0.2614 ug/L	0.2614 ppb	16:47:39
1	Mn 257.610†	522.4	-12.2	-0.0177 ug/L	-0.0177 ppb	16:47:59
1	Mo 202.031†	10.9	-1.6	-0.1390 ug/L	-0.1390 ppb	16:47:59
1	Ni 231.604†	69.7	-9.6	-0.3046 ug/L	-0.3046 ppb	16:47:59
1	P 214.914†	186.3	8.2	6.1310 ug/L	6.1310 ppb	16:47:59
1	Pb 220.353†	-40.6	0.9	0.1480 ug/L	0.1480 ppb	16:47:59
1	S 181.975 Axial†	33.4	4.3	7.6688 ug/L	7.6688 ppb	16:47:59
1	Sb 206.836†	28.0	4.3	1.8083 ug/L	1.8083 ppb	16:47:59
1	Se 196.026†	-22.2	-4.1	-3.3885 ug/L	-3.3885 ppb	16:47:59
1	Si 251.611†	515.0	33.0	1.2423 ug/L	1.2423 ppb	16:47:59
1	Sn 189.927†	11.1	3.5	0.7907 ug/L	0.7907 ppb	16:47:59
1	Ti 334.940†	-1124.9	-72.9	-0.1292 ug/L	-0.1292 ppb	16:47:39
1	Tl 190.801†	-20.5	10.7	4.1124 ug/L	4.1124 ppb	16:47:59
1	U 409.014†	-2091.8	-76.4	-2.3074 ug/L	-2.3074 ppb	16:47:39
1	V 292.402†	-1246.4	32.2	0.2508 ug/L	0.2508 ppb	16:47:39
1	Zn 213.857†	666.7	70.5	0.8516 ug/L	0.8516 ppb	16:47:59
1	SiO2†	520.5	41.5	3.3296 ug/L	3.3296 ppb	16:49:10
2	Sc Radial	4377.6	4377.6	95.4 %		16:46:47
2	Y RADIAL	4720.4	4720.4	95.66 %		16:46:47
2	Al 396.153Radial†	-79.9	2.1	1.9430 ug/L	1.9430 ppb	16:47:07
2	Ca 317.933Radial†	29.2	2.7	4.8267 ug/L	4.8267 ppb	16:47:07
2	Fe 238.204 Radial†	6.6	-0.9	-9.4197 ug/L	-9.4197 ppb	16:47:07
2	K 766.490 Radial†	2782.9	360.7	69.111 ug/L	69.111 ppb	16:46:47
2	Mg 279.077 IEC†	2.9	2.9	112.10 ug/L	112.10 ppb	16:47:07
2	Na 589.592 Radial†	-849.1	-84.8	-29.702 ug/L	-29.702 ppb	16:46:47
2	Sr 421.552†	13.7	-11.4	-0.0870 ug/L	-0.0870 ppb	16:46:47
2	Sc 361.383	786625.0	786625.0	96.764 %		16:48:04
2	Y 371.029	664837.3	664837.3	96.432 %		16:48:04
2	Ag 328.068†	100.3	-107.0	-0.5472 ug/L	-0.5472 ppb	16:48:04
2	As 188.979†	-14.0	2.6	1.4529 ug/L	1.4529 ppb	16:48:24
2	B 249.677†	-87.3	325.1	9.1001 ug/L	9.1001 ppb	16:48:24
2	Ba 233.527†	20.3	8.5	0.0789 ug/L	0.0789 ppb	16:48:24
2	Be 313.107†	-3657.3	-50.6	-0.0218 ug/L	-0.0218 ppb	16:48:04
2	Cd 226.502†	-131.6	40.3	0.5842 ug/L	0.5842 ppb	16:48:24
2	Co 228.616†	-42.2	-3.8	-0.0988 ug/L	-0.0988 ppb	16:48:24
2	Cr 267.716†	64.9	-12.5	-0.1660 ug/L	-0.1660 ppb	16:48:24
2	Cu 324.752†	5368.6	81.9	0.2741 ug/L	0.2741 ppb	16:48:04
2	Mn 257.610†	519.6	-14.0	-0.0239 ug/L	-0.0239 ppb	16:48:24
2	Mo 202.031†	10.9	-1.5	-0.1361 ug/L	-0.1361 ppb	16:48:24
2	Ni 231.604†	89.1	10.7	0.3409 ug/L	0.3409 ppb	16:48:24

2	P 214.914†	185.7	8.0	5.9713 ug/L	5.9713 ppb	16:48:24
2	Pb 220.353†	-31.4	10.3	1.5968 ug/L	1.5968 ppb	16:48:24
2	S 181.975 Axial†	26.0	-3.3	-5.8602 ug/L	-5.8602 ppb	16:48:24
2	Sb 206.836†	33.5	10.1	4.2006 ug/L	4.2006 ppb	16:48:24
2	Se 196.026†	-11.3	7.1	5.9034 ug/L	5.9034 ppb	16:48:24
2	Si 251.611†	502.6	21.2	0.8008 ug/L	0.8008 ppb	16:48:24
2	Sn 189.927†	8.0	0.3	0.0702 ug/L	0.0702 ppb	16:48:24
2	Ti 334.940†	-1111.3	-61.2	-0.1113 ug/L	-0.1113 ppb	16:48:04
2	Tl 190.801†	-21.2	9.9	3.8130 ug/L	3.8130 ppb	16:48:24
2	U 409.014†	-2222.6	-215.9	-6.5201 ug/L	-6.5201 ppb	16:48:04
2	V 292.402†	-1290.6	-16.0	-0.1388 ug/L	-0.1388 ppb	16:48:04
2	Zn 213.857†	668.9	74.2	0.8948 ug/L	0.8948 ppb	16:48:24
2	SiO2†	531.1	53.5	4.2890 ug/L	4.2890 ppb	16:49:30
3	Sc Radial	4420.1	4420.1	96.3 %		16:47:12
3	Y RADIAL	4763.4	4763.4	96.54 %		16:47:12
3	Al 396.153Radial†	-73.2	9.8	9.2108 ug/L	9.2108 ppb	16:47:32
3	Ca 317.933Radial†	33.3	6.7	11.929 ug/L	11.929 ppb	16:47:32
3	Fe 238.204 Radial†	8.3	0.8	8.1641 ug/L	8.1641 ppb	16:47:32
3	K 766.490 Radial†	2543.0	83.7	16.029 ug/L	16.029 ppb	16:47:12
3	Mg 279.077 IEC†	0.7	0.6	24.008 ug/L	24.008 ppb	16:47:32
3	Na 589.592 Radial†	-821.5	-47.5	-16.649 ug/L	-16.649 ppb	16:47:12
3	Sr 421.552†	48.0	24.1	0.1838 ug/L	0.1838 ppb	16:47:12
3	Sc 361.383	791550.2	791550.2	97.370 %		16:48:29
3	Y 371.029	669772.0	669772.0	97.148 %		16:48:29
3	Ag 328.068†	158.7	-47.6	-0.2362 ug/L	-0.2362 ppb	16:48:29
3	As 188.979†	-18.3	-1.8	-0.9848 ug/L	-0.9848 ppb	16:48:50
3	B 249.677†	-101.4	311.2	8.7068 ug/L	8.7068 ppb	16:48:50
3	Ba 233.527†	13.5	1.4	0.0125 ug/L	0.0125 ppb	16:48:50
3	Be 313.107†	-3761.2	-133.7	-0.0568 ug/L	-0.0568 ppb	16:48:29
3	Cd 226.502†	-140.0	32.6	0.4695 ug/L	0.4695 ppb	16:48:50
3	Co 228.616†	-30.5	8.6	0.2227 ug/L	0.2227 ppb	16:48:50
3	Cr 267.716†	88.3	11.1	0.1533 ug/L	0.1533 ppb	16:48:50
3	Cu 324.752†	5453.5	134.5	0.4506 ug/L	0.4506 ppb	16:48:29
3	Mn 257.610†	531.9	-4.6	-0.0063 ug/L	-0.0063 ppb	16:48:50
3	Mo 202.031†	15.1	2.7	0.2370 ug/L	0.2370 ppb	16:48:50
3	Ni 231.604†	80.7	1.5	0.0466 ug/L	0.0466 ppb	16:48:50
3	P 214.914†	183.2	4.3	3.1330 ug/L	3.1330 ppb	16:48:50
3	Pb 220.353†	-37.1	4.7	0.7236 ug/L	0.7236 ppb	16:48:50
3	S 181.975 Axial†	31.2	1.8	3.2952 ug/L	3.2952 ppb	16:48:50
3	Sb 206.836†	38.0	14.5	5.9992 ug/L	5.9992 ppb	16:48:50
3	Se 196.026†	-22.1	-3.9	-3.2267 ug/L	-3.2267 ppb	16:48:50
3	Si 251.611†	505.5	21.0	0.7870 ug/L	0.7870 ppb	16:48:50
3	Sn 189.927†	9.7	2.0	0.4476 ug/L	0.4476 ppb	16:48:50
3	Ti 334.940†	-999.7	60.6	0.1082 ug/L	0.1082 ppb	16:48:29
3	Tl 190.801†	-34.3	-3.4	-1.3201 ug/L	-1.3201 ppb	16:48:50
3	U 409.014†	-2315.5	-297.0	-8.9724 ug/L	-8.9724 ppb	16:48:29
3	V 292.402†	-1328.0	-46.2	-0.3835 ug/L	-0.3835 ppb	16:48:29
3	Zn 213.857†	679.8	81.1	0.9771 ug/L	0.9771 ppb	16:48:50
3	SiO2†	537.4	56.6	4.5246 ug/L	4.5246 ppb	16:49:50

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	788797.1	97.032 %	0.3092			0.32%
Sc Radial	4394.9	95.8 %	0.49			0.51%
Y 371.029	666845.0	96.723 %	0.3760			0.39%
Y RADIAL	4733.0	95.92 %	0.537			0.56%
Ag 328.068†	-88.8	-0.4504 ug/L	0.18585	-0.4504 ppb	0.18585	41.26%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.3	9.7304 ug/L	8.05984	9.7304 ppb	8.05984	82.83%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	0.1	0.0452 ug/L	1.26202	0.0452 ppb	1.26202	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	333.2	9.3226 ug/L	0.75203	9.3226 ppb	0.75203	8.07%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	9.1	0.0851 ug/L	0.07580	0.0851 ppb	0.07580	89.11%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-88.3	-0.0378 ug/L	0.01771	-0.0378 ppb	0.01771	46.85%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	5.3	9.4347 ug/L	3.99516	9.4347 ppb	3.99516	42.35%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	33.1	0.4782 ug/L	0.10193	0.4782 ppb	0.10193	21.31%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	3.3	0.0861 ug/L	0.16614	0.0861 ppb	0.16614	192.92%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-5.9	-0.0760 ug/L	0.20012	-0.0760 ppb	0.20012	263.28%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	98.3	0.3287 ug/L	0.10576	0.3287 ppb	0.10576	32.17%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	3.9342 ug/L	11.82078	3.9342 ppb	11.82078	300.47%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	219.4	42.039 ug/L	26.5572	42.039 ppb	26.5572	63.17%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	1.8	69.365 ug/L	44.1060	69.365 ppb	44.1060	63.59%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-10.3	-0.0160 ug/L	0.00893	-0.0160 ppb	0.00893	55.96%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-0.1	-0.0127 ug/L	0.21627	-0.0127 ppb	0.21627	>999.9%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-69.7	-24.407 ug/L	6.8664	-24.407 ppb	6.8664	28.13%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	0.9	0.0276 ug/L	0.32317	0.0276 ppb	0.32317	>999.9%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	6.8	5.0784 ug/L	1.68671	5.0784 ppb	1.68671	33.21%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	5.3	0.8228 ug/L	0.72946	0.8228 ppb	0.72946	88.66%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	1.0	1.7013 ug/L	6.90389	1.7013 ppb	6.90389	405.81%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	9.7	4.0027 ug/L	2.10244	4.0027 ppb	2.10244	52.53%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-0.3	-0.2373 ug/L	5.31857	-0.2373 ppb	5.31857	>999.9%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	25.1	0.9434 ug/L	0.25897	0.9434 ppb	0.25897	27.45%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	1.9	0.4362 ug/L	0.36038	0.4362 ppb	0.36038	82.62%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	10.9	0.0833 ug/L	0.14827	0.0833 ppb	0.14827	178.10%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	-24.5	-0.0441 ug/L	0.13220	-0.0441 ppb	0.13220	299.77%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	5.7	2.2018 ug/L	3.05368	2.2018 ppb	3.05368	138.69%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-196.5	-5.9333 ug/L	3.37103	-5.9333 ppb	3.37103	56.82%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-10.0	-0.0905 ug/L	0.31987	-0.0905 ppb	0.31987	353.45%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	75.2	0.9078 ug/L	0.06377	0.9078 ppb	0.06377	7.02%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†		50.5	4.0477 ug/L	0.63299	4.0477 ppb	0.63299	15.64%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/16/2010 17:06:01

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4387.0	4387.0	95.6 %		17:07:53
1	Y RADIAL	4674.3	4674.3	94.73 %		17:07:53
1	Al 396.153Radial†	5005.1	5319.7	4976.7 ug/L	4976.7 ppb	17:07:53
1	Ca 317.933Radial†	2764.5	2863.1	5060.8 ug/L	5060.8 ppb	17:08:13
1	Fe 238.204 Radial†	467.7	481.2	5057.5 ug/L	5057.5 ppb	17:08:13
1	K 766.490 Radial†	28267.5	27004.2	5166.9 ug/L	5166.9 ppb	17:07:53
1	Mg 279.077 IEC†	134.3	140.4	5341.1 ug/L	5341.1 ppb	17:08:13
1	Na 589.592 Radial†	27781.2	29856.6	10461 ug/L	10461 ppb	17:07:53
1	Sr 421.552†	64305.2	67219.8	513.48 ug/L	513.48 ppb	17:07:53
1	Sc 361.383	799642.2	799642.2	98.366 %		17:09:10
1	Y 371.029	667318.0	667318.0	96.792 %		17:09:10
1	Ag 328.068†	96816.1	98214.2	507.32 ug/L	507.32 ppb	17:09:15
1	As 188.979†	877.1	908.7	509.94 ug/L	509.94 ppb	17:09:35
1	B 249.677†	17318.8	18021.9	502.06 ug/L	502.06 ppb	17:09:15
1	Ba 233.527†	53191.1	54062.4	507.13 ug/L	507.13 ppb	17:09:15
1	Be 313.107†	1165588.6	1188684.5	508.53 ug/L	508.53 ppb	17:09:10
1	Cd 226.502†	34217.6	34962.5	506.47 ug/L	506.47 ppb	17:09:15
1	Co 228.616†	19451.0	19814.1	514.86 ug/L	514.86 ppb	17:09:15
1	Cr 267.716†	37182.0	37720.3	507.51 ug/L	507.51 ppb	17:09:15
1	Cu 324.752†	154406.8	151506.1	501.47 ug/L	501.47 ppb	17:09:15
1	Mn 257.610†	371373.7	376993.4	496.64 ug/L	496.64 ppb	17:09:15
1	Mo 202.031†	5643.8	5724.8	503.88 ug/L	503.88 ppb	17:09:35
1	Ni 231.604†	15945.7	16129.3	513.23 ug/L	513.23 ppb	17:09:15
1	P 214.914†	3468.1	3341.8	2418.9 ug/L	2418.9 ppb	17:09:35
1	Pb 220.353†	3192.4	3288.2	508.73 ug/L	508.73 ppb	17:09:35
1	S 181.975 Axial†	597.4	577.1	1029.6 ug/L	1029.6 ppb	17:09:35
1	Sb 206.836†	1215.3	1211.0	519.62 ug/L	519.62 ppb	17:09:35
1	Se 196.026†	585.5	614.0	527.20 ug/L	527.20 ppb	17:09:35
1	Si 251.611†	66837.1	67449.4	2532.1 ug/L	2532.1 ppb	17:09:15
1	Sn 189.927†	2211.4	2240.2	505.00 ug/L	505.00 ppb	17:09:35
1	Ti 334.940†	279573.5	285306.0	492.88 ug/L	492.88 ppb	17:09:15
1	Tl 190.801†	1277.2	1330.2	515.44 ug/L	515.44 ppb	17:09:35
1	U 409.014†	14670.6	16995.4	511.57 ug/L	511.57 ppb	17:09:15
1	V 292.402†	60820.8	63149.1	511.26 ug/L	511.26 ppb	17:09:15
1	Zn 213.857†	42581.5	42671.9	510.81 ug/L	510.81 ppb	17:09:15
1	SiO2†	66084.0	66686.7	5326.7 ug/L	5326.7 ppb	17:10:42
2	Sc Radial	4319.4	4319.4	94.2 %		17:08:18
2	Y RADIAL	4620.9	4620.9	93.65 %		17:08:18
2	Al 396.153Radial†	4900.2	5290.3	4949.5 ug/L	4949.5 ppb	17:08:18
2	Ca 317.933Radial†	2760.2	2903.7	5132.6 ug/L	5132.6 ppb	17:08:38
2	Fe 238.204 Radial†	470.6	492.0	5169.9 ug/L	5169.9 ppb	17:08:38
2	K 766.490 Radial†	28079.0	27266.7	5217.2 ug/L	5217.2 ppb	17:08:18
2	Mg 279.077 IEC†	133.1	141.2	5374.4 ug/L	5374.4 ppb	17:08:38
2	Na 589.592 Radial†	27304.4	29804.8	10443 ug/L	10443 ppb	17:08:18
2	Sr 421.552†	63403.3	67314.3	514.20 ug/L	514.20 ppb	17:08:18
2	Sc 361.383	808758.9	808758.9	99.487 %		17:09:41
2	Y 371.029	673856.3	673856.3	97.740 %		17:09:41
2	Ag 328.068†	97333.5	97624.7	504.32 ug/L	504.32 ppb	17:09:46
2	As 188.979†	863.5	885.0	496.78 ug/L	496.78 ppb	17:10:06
2	B 249.677†	17423.6	17928.8	499.44 ug/L	499.44 ppb	17:09:46
2	Ba 233.527†	53602.5	53866.3	505.30 ug/L	505.30 ppb	17:09:46
2	Be 313.107†	1176744.4	1186540.3	507.61 ug/L	507.61 ppb	17:09:41
2	Cd 226.502†	34596.1	34950.8	506.29 ug/L	506.29 ppb	17:09:46
2	Co 228.616†	19599.2	19740.1	512.92 ug/L	512.92 ppb	17:09:46
2	Cr 267.716†	37475.8	37589.5	505.76 ug/L	505.76 ppb	17:09:46
2	Cu 324.752†	155177.3	150511.1	498.18 ug/L	498.18 ppb	17:09:46
2	Mn 257.610†	374676.1	376056.9	495.41 ug/L	495.41 ppb	17:09:46
2	Mo 202.031†	5614.5	5630.6	495.61 ug/L	495.61 ppb	17:10:06
2	Ni 231.604†	16096.8	16098.3	512.25 ug/L	512.25 ppb	17:09:46

2	P 214.914†	3466.4	3300.4	2388.2 ug/L	2388.2 ppb	17:10:06
2	Pb 220.353†	3185.5	3244.7	501.97 ug/L	501.97 ppb	17:10:06
2	S 181.975 Axial†	588.8	561.7	1002.0 ug/L	1002.0 ppb	17:10:06
2	Sb 206.836†	1196.1	1177.7	505.57 ug/L	505.57 ppb	17:10:06
2	Se 196.026†	581.5	603.2	518.53 ug/L	518.53 ppb	17:10:06
2	Si 251.611†	67233.3	67081.7	2518.4 ug/L	2518.4 ppb	17:09:46
2	Sn 189.927†	2205.5	2208.9	497.95 ug/L	497.95 ppb	17:10:06
2	Ti 334.940†	281831.1	284371.5	491.28 ug/L	491.28 ppb	17:09:46
2	Tl 190.801†	1248.4	1286.6	498.64 ug/L	498.64 ppb	17:10:06
2	U 409.014†	14855.0	17012.6	512.08 ug/L	512.08 ppb	17:09:46
2	V 292.402†	61234.6	62868.0	508.89 ug/L	508.89 ppb	17:09:46
2	Zn 213.857†	42921.0	42525.1	509.03 ug/L	509.03 ppb	17:09:46
2	SiO2†	66194.3	66040.3	5275.2 ug/L	5275.2 ppb	17:10:47
3	Sc Radial	4427.5	4427.5	96.5 %		17:08:43
3	Y RADIAL	4754.7	4754.7	96.36 %		17:08:43
3	Al 396.153Radial†	5069.8	5339.0	4995.2 ug/L	4995.2 ppb	17:08:43
3	Ca 317.933Radial†	2765.0	2837.2	5015.0 ug/L	5015.0 ppb	17:09:03
3	Fe 238.204 Radial†	469.3	478.4	5027.5 ug/L	5027.5 ppb	17:09:03
3	K 766.490 Radial†	28641.2	27121.2	5189.3 ug/L	5189.3 ppb	17:08:43
3	Mg 279.077 IEC†	132.6	137.3	5225.8 ug/L	5225.8 ppb	17:09:03
3	Na 589.592 Radial†	28011.2	29829.3	10452 ug/L	10452 ppb	17:08:43
3	Sr 421.552†	65275.1	67610.0	516.46 ug/L	516.46 ppb	17:08:43
3	Sc 361.383	802839.7	802839.7	98.759 %		17:10:12
3	Y 371.029	669426.8	669426.8	97.098 %		17:10:12
3	Ag 328.068†	96378.4	97378.9	503.01 ug/L	503.01 ppb	17:10:17
3	As 188.979†	867.4	895.4	502.50 ug/L	502.50 ppb	17:10:37
3	B 249.677†	17236.0	17867.9	497.76 ug/L	497.76 ppb	17:10:17
3	Ba 233.527†	52937.9	53590.7	502.71 ug/L	502.71 ppb	17:10:17
3	Be 313.107†	1166701.1	1185091.5	506.98 ug/L	506.98 ppb	17:10:12
3	Cd 226.502†	34089.7	34694.4	502.58 ug/L	502.58 ppb	17:10:17
3	Co 228.616†	19384.4	19667.8	511.06 ug/L	511.06 ppb	17:10:17
3	Cr 267.716†	37071.2	37457.5	503.97 ug/L	503.97 ppb	17:10:17
3	Cu 324.752†	153259.4	149719.1	495.55 ug/L	495.55 ppb	17:10:17
3	Mn 257.610†	370097.9	374197.8	492.96 ug/L	492.96 ppb	17:10:17
3	Mo 202.031†	5593.0	5650.4	497.34 ug/L	497.34 ppb	17:10:37
3	Ni 231.604†	15902.1	16020.5	509.77 ug/L	509.77 ppb	17:10:17
3	P 214.914†	3439.3	3298.6	2387.5 ug/L	2387.5 ppb	17:10:37
3	Pb 220.353†	3170.9	3253.5	503.37 ug/L	503.37 ppb	17:10:37
3	S 181.975 Axial†	589.9	567.2	1011.7 ug/L	1011.7 ppb	17:10:37
3	Sb 206.836†	1201.7	1192.3	511.61 ug/L	511.61 ppb	17:10:37
3	Se 196.026†	559.9	585.7	503.59 ug/L	503.59 ppb	17:10:37
3	Si 251.611†	66364.3	66700.0	2504.0 ug/L	2504.0 ppb	17:10:17
3	Sn 189.927†	2178.9	2198.3	495.57 ug/L	495.57 ppb	17:10:37
3	Ti 334.940†	278575.3	283163.4	489.19 ug/L	489.19 ppb	17:10:17
3	Tl 190.801†	1252.9	1300.5	503.96 ug/L	503.96 ppb	17:10:37
3	U 409.014†	14535.0	16798.6	505.64 ug/L	505.64 ppb	17:10:17
3	V 292.402†	60502.0	62580.0	506.62 ug/L	506.62 ppb	17:10:17
3	Zn 213.857†	42302.0	42216.4	505.34 ug/L	505.34 ppb	17:10:17
3	SiO2†	64811.9	65131.0	5202.3 ug/L	5202.3 ppb	17:10:52

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	803746.9	98.871 %	0.5690			0.58%
Sc Radial	4377.9	95.4 %	1.19			1.25%
Y 371.029	670200.4	97.210 %	0.4840			0.50%
Y RADIAL	4683.3	94.91 %	1.366			1.44%
Ag 328.068†	97739.3	504.88 ug/L	2.210	504.88 ppb	2.210	0.44%
QC value within limits for Ag 328.068 Recovery = 100.98%						
Al 396.153Radial†	5316.3	4973.8 ug/L	22.99	4973.8 ppb	22.99	0.46%
QC value within limits for Al 396.153Radial Recovery = 99.48%						
As 188.979†	896.3	503.07 ug/L	6.599	503.07 ppb	6.599	1.31%
QC value within limits for As 188.979 Recovery = 100.61%						
B 249.677†	17939.5	499.75 ug/L	2.163	499.75 ppb	2.163	0.43%
QC value within limits for B 249.677 Recovery = 99.95%						
Ba 233.527†	53839.8	505.04 ug/L	2.223	505.04 ppb	2.223	0.44%
QC value within limits for Ba 233.527 Recovery = 101.01%						
Be 313.107†	1186772.1	507.70 ug/L	0.776	507.70 ppb	0.776	0.15%
QC value within limits for Be 313.107 Recovery = 101.54%						
Ca 317.933Radial†	2868.0	5069.5 ug/L	59.30	5069.5 ppb	59.30	1.17%

QC value within limits for Ca 317.933 Radial Recovery = 101.39%

Cd 226.502†	34869.2	505.11 ug/L	2.192	505.11 ppb	2.192	0.43%
QC value within limits for Cd 226.502 Recovery = 101.02%						
Co 228.616†	19740.6	512.95 ug/L	1.904	512.95 ppb	1.904	0.37%
QC value within limits for Co 228.616 Recovery = 102.59%						
Cr 267.716†	37589.1	505.75 ug/L	1.768	505.75 ppb	1.768	0.35%
QC value within limits for Cr 267.716 Recovery = 101.15%						
Cu 324.752†	150578.8	498.40 ug/L	2.963	498.40 ppb	2.963	0.59%
QC value within limits for Cu 324.752 Recovery = 99.68%						
Fe 238.204 Radial†	483.9	5085.0 ug/L	75.08	5085.0 ppb	75.08	1.48%
QC value within limits for Fe 238.204 Radial Recovery = 101.70%						
K 766.490 Radial†	27130.7	5191.1 ug/L	25.19	5191.1 ppb	25.19	0.49%
QC value within limits for K 766.490 Radial Recovery = 103.82%						
Mg 279.077 IEC†	139.6	5313.8 ug/L	77.98	5313.8 ppb	77.98	1.47%
QC value within limits for Mg 279.077 IEC Recovery = 106.28%						
Mn 257.610†	375749.4	495.00 ug/L	1.874	495.00 ppb	1.874	0.38%
QC value within limits for Mn 257.610 Recovery = 99.00%						
Mo 202.031†	5668.6	498.95 ug/L	4.361	498.95 ppb	4.361	0.87%
QC value within limits for Mo 202.031 Recovery = 99.79%						
Na 589.592 Radial†	29830.2	10452 ug/L	9.1	10452 ppb	9.1	0.09%
QC value within limits for Na 589.592 Radial Recovery = 104.52%						
Ni 231.604†	16082.7	511.75 ug/L	1.784	511.75 ppb	1.784	0.35%
QC value within limits for Ni 231.604 Recovery = 102.35%						
P 214.914†	3313.6	2398.2 ug/L	17.94	2398.2 ppb	17.94	0.75%
QC value within limits for P 214.914 Recovery = 95.93%						
Pb 220.353†	3262.1	504.69 ug/L	3.568	504.69 ppb	3.568	0.71%
QC value within limits for Pb 220.353 Recovery = 100.94%						
S 181.975 Axial†	568.7	1014.4 ug/L	13.99	1014.4 ppb	13.99	1.38%
QC value within limits for S 181.975 Axial Recovery = 101.44%						
Sb 206.836†	1193.7	512.27 ug/L	7.047	512.27 ppb	7.047	1.38%
QC value within limits for Sb 206.836 Recovery = 102.45%						
Se 196.026†	601.0	516.44 ug/L	11.940	516.44 ppb	11.940	2.31%
QC value within limits for Se 196.026 Recovery = 103.29%						
Si 251.611†	67077.0	2518.2 ug/L	14.06	2518.2 ppb	14.06	0.56%
QC value within limits for Si 251.611 Recovery = 100.73%						
Sn 189.927†	2215.8	499.51 ug/L	4.903	499.51 ppb	4.903	0.98%
QC value within limits for Sn 189.927 Recovery = 99.90%						
Sr 421.552†	67381.4	514.71 ug/L	1.555	514.71 ppb	1.555	0.30%
QC value within limits for Sr 421.552 Recovery = 102.94%						
Ti 334.940†	284280.3	491.12 ug/L	1.853	491.12 ppb	1.853	0.38%
QC value within limits for Ti 334.940 Recovery = 98.22%						
Tl 190.801†	1305.8	506.01 ug/L	8.585	506.01 ppb	8.585	1.70%
QC value within limits for Tl 190.801 Recovery = 101.20%						
U 409.014†	16935.5	509.77 ug/L	3.581	509.77 ppb	3.581	0.70%
QC value within limits for U 409.014 Recovery = 101.95%						
V 292.402†	62865.7	508.93 ug/L	2.321	508.93 ppb	2.321	0.46%
QC value within limits for V 292.402 Recovery = 101.79%						
Zn 213.857†	42471.1	508.39 ug/L	2.789	508.39 ppb	2.789	0.55%
QC value within limits for Zn 213.857 Recovery = 101.68%						
SiO2†	65952.7	5268.1 ug/L	62.51	5268.1 ppb	62.51	1.19%
QC value within limits for SiO2 Recovery = 98.51%						

All analyte(s) passed QC.

Sequence No.: 7

Sample ID: PQL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 11

Date Collected: 3/16/2010 17:13:03

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: PQL

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4384.4	4384.4	95.6	%		17:14:56
1	Y RADIAL	4732.5	4732.5	95.91	%		17:14:56
1	Al 396.153Radial†	129.7	221.6	207.83	ug/L	207.83 ppb	17:15:16
1	Ca 317.933Radial†	142.0	120.8	213.49	ug/L	213.49 ppb	17:15:16
1	Fe 238.204 Radial†	16.3	9.2	96.515	ug/L	96.515 ppb	17:15:16
1	K 766.490 Radial†	3625.2	1237.5	236.88	ug/L	236.88 ppb	17:14:56
1	Mg 279.077 IEC†	10.4	10.8	412.43	ug/L	412.43 ppb	17:15:16
1	Na 589.592 Radial†	66.8	875.0	306.58	ug/L	306.58 ppb	17:14:56
1	Sr 421.552†	690.0	696.2	5.3170	ug/L	5.3170 ppb	17:14:56
1	Sc 361.383	783381.6	783381.6	96.365	%		17:16:13
1	Y 371.029	662615.7	662615.7	96.110	%		17:16:13
1	Ag 328.068†	1199.7	1034.3	5.3187	ug/L	5.3187 ppb	17:16:13
1	As 188.979†	32.3	50.5	28.169	ug/L	28.169 ppb	17:16:33
1	B 249.677†	1594.3	2069.8	57.893	ug/L	57.893 ppb	17:16:13
1	Ba 233.527†	565.1	573.9	5.3834	ug/L	5.3834 ppb	17:16:33
1	Be 313.107†	7718.7	11738.8	5.0223	ug/L	5.0223 ppb	17:16:13
1	Cd 226.502†	184.6	367.9	5.3326	ug/L	5.3326 ppb	17:16:33
1	Co 228.616†	143.9	189.1	4.9249	ug/L	4.9249 ppb	17:16:33
1	Cr 267.716†	449.2	386.6	5.1901	ug/L	5.1901 ppb	17:16:33
1	Cu 324.752†	8253.4	3098.5	10.236	ug/L	10.236 ppb	17:16:13
1	Mn 257.610†	8257.8	8018.4	10.550	ug/L	10.550 ppb	17:16:13
1	Mo 202.031†	119.1	110.8	9.7495	ug/L	9.7495 ppb	17:16:33
1	Ni 231.604†	249.1	177.0	5.6339	ug/L	5.6339 ppb	17:16:33
1	P 214.914†	379.6	210.0	156.16	ug/L	156.16 ppb	17:16:33
1	Pb 220.353†	21.3	64.9	10.064	ug/L	10.064 ppb	17:16:33
1	S 181.975 Axial†	95.7	69.1	123.40	ug/L	123.40 ppb	17:16:33
1	Sb 206.836†	48.0	25.3	10.798	ug/L	10.798 ppb	17:16:33
1	Se 196.026†	17.4	36.8	30.937	ug/L	30.937 ppb	17:16:33
1	Si 251.611†	3024.9	2640.8	99.259	ug/L	99.259 ppb	17:16:33
1	Sn 189.927†	46.9	40.7	9.1969	ug/L	9.1969 ppb	17:16:33
1	Ti 334.940†	1767.9	2921.9	5.0227	ug/L	5.0227 ppb	17:16:13
1	Tl 190.801†	28.8	61.6	23.797	ug/L	23.797 ppb	17:16:33
1	U 409.014†	-564.9	1494.8	45.123	ug/L	45.123 ppb	17:16:13
1	V 292.402†	-711.8	579.1	4.8369	ug/L	4.8369 ppb	17:16:13
1	Zn 213.857†	1734.8	1183.1	14.229	ug/L	14.229 ppb	17:16:33
1	SiO2†	3120.4	2742.7	219.38	ug/L	219.38 ppb	17:17:29
2	Sc Radial	4325.7	4325.7	94.3	%		17:15:21
2	Y RADIAL	4679.5	4679.5	94.84	%		17:15:21
2	Al 396.153Radial†	132.8	226.6	212.55	ug/L	212.55 ppb	17:15:41
2	Ca 317.933Radial†	133.9	114.2	201.81	ug/L	201.81 ppb	17:15:41
2	Fe 238.204 Radial†	17.5	10.7	112.12	ug/L	112.12 ppb	17:15:41
2	K 766.490 Radial†	3502.5	1158.8	221.80	ug/L	221.80 ppb	17:15:21
2	Mg 279.077 IEC†	7.5	7.8	298.69	ug/L	298.69 ppb	17:15:41
2	Na 589.592 Radial†	78.0	887.8	311.07	ug/L	311.07 ppb	17:15:21
2	Sr 421.552†	638.3	651.2	4.9734	ug/L	4.9734 ppb	17:15:21
2	Sc 361.383	788805.9	788805.9	97.033	%		17:16:39
2	Y 371.029	667358.2	667358.2	96.798	%		17:16:39
2	Ag 328.068†	1091.3	914.0	4.7054	ug/L	4.7054 ppb	17:16:39
2	As 188.979†	29.3	47.2	26.313	ug/L	26.313 ppb	17:16:59
2	B 249.677†	1635.9	2101.2	58.771	ug/L	58.771 ppb	17:16:39
2	Ba 233.527†	557.9	562.5	5.2774	ug/L	5.2774 ppb	17:16:59
2	Be 313.107†	7848.2	11817.2	5.0554	ug/L	5.0554 ppb	17:16:39
2	Cd 226.502†	199.3	381.7	5.5313	ug/L	5.5313 ppb	17:16:59
2	Co 228.616†	146.4	190.8	4.9683	ug/L	4.9683 ppb	17:16:59
2	Cr 267.716†	454.2	388.6	5.2174	ug/L	5.2174 ppb	17:16:59
2	Cu 324.752†	8327.3	3115.8	10.293	ug/L	10.293 ppb	17:16:39
2	Mn 257.610†	8263.2	7965.0	10.486	ug/L	10.486 ppb	17:16:39
2	Mo 202.031†	126.1	117.1	10.309	ug/L	10.309 ppb	17:16:59
2	Ni 231.604†	253.3	179.6	5.7161	ug/L	5.7161 ppb	17:16:59

2	P 214.914†	388.2	216.2	160.81 ug/L	160.81 ppb	17:16:59
2	Pb 220.353†	41.1	85.1	13.184 ug/L	13.184 ppb	17:16:59
2	S 181.975 Axial†	100.5	73.4	131.07 ug/L	131.07 ppb	17:16:59
2	Sb 206.836†	53.7	30.8	13.094 ug/L	13.094 ppb	17:16:59
2	Se 196.026†	22.5	42.0	35.294 ug/L	35.294 ppb	17:16:59
2	Si 251.611†	3066.3	2661.9	100.05 ug/L	100.05 ppb	17:16:59
2	Sn 189.927†	47.9	41.4	9.3524 ug/L	9.3524 ppb	17:16:59
2	Ti 334.940†	1671.3	2809.8	4.8358 ug/L	4.8358 ppb	17:16:39
2	Tl 190.801†	23.4	55.9	21.588 ug/L	21.588 ppb	17:16:59
2	U 409.014†	-511.8	1553.5	46.894 ug/L	46.894 ppb	17:16:39
2	V 292.402†	-698.6	597.7	4.9932 ug/L	4.9932 ppb	17:16:39
2	Zn 213.857†	1745.0	1181.3	14.204 ug/L	14.204 ppb	17:16:59
2	SiO2†	3172.5	2774.2	221.88 ug/L	221.88 ppb	17:17:34
3	Sc Radial	4425.5	4425.5	96.5 %		17:15:46
3	Y RADIAL	4804.3	4804.3	97.37 %		17:15:46
3	Al 396.153Radial†	130.8	221.4	207.65 ug/L	207.65 ppb	17:16:06
3	Ca 317.933Radial†	141.0	118.3	209.15 ug/L	209.15 ppb	17:16:06
3	Fe 238.204 Radial†	19.2	12.0	126.12 ug/L	126.12 ppb	17:16:06
3	K 766.490 Radial†	3596.7	1172.7	224.45 ug/L	224.45 ppb	17:15:46
3	Mg 279.077 IEC†	13.5	14.0	530.86 ug/L	530.86 ppb	17:16:06
3	Na 589.592 Radial†	105.8	914.8	320.54 ug/L	320.54 ppb	17:15:46
3	Sr 421.552†	679.2	678.3	5.1799 ug/L	5.1799 ppb	17:15:46
3	Sc 361.383	793549.4	793549.4	97.616 %		17:17:04
3	Y 371.029	670214.8	670214.8	97.212 %		17:17:04
3	Ag 328.068†	1191.6	1010.1	5.1961 ug/L	5.1961 ppb	17:17:04
3	As 188.979†	21.8	39.4	21.986 ug/L	21.986 ppb	17:17:24
3	B 249.677†	1566.1	2019.7	56.486 ug/L	56.486 ppb	17:17:04
3	Ba 233.527†	555.5	556.6	5.2225 ug/L	5.2225 ppb	17:17:24
3	Be 313.107†	7846.2	11766.8	5.0340 ug/L	5.0340 ppb	17:17:04
3	Cd 226.502†	187.1	368.0	5.3334 ug/L	5.3334 ppb	17:17:24
3	Co 228.616†	148.4	191.9	4.9978 ug/L	4.9978 ppb	17:17:24
3	Cr 267.716†	447.2	378.6	5.0821 ug/L	5.0821 ppb	17:17:24
3	Cu 324.752†	8257.7	2993.1	9.8836 ug/L	9.8836 ppb	17:17:04
3	Mn 257.610†	8325.7	7978.1	10.495 ug/L	10.495 ppb	17:17:04
3	Mo 202.031†	126.0	116.3	10.237 ug/L	10.237 ppb	17:17:24
3	Ni 231.604†	262.1	187.1	5.9540 ug/L	5.9540 ppb	17:17:24
3	P 214.914†	387.1	212.6	158.21 ug/L	158.21 ppb	17:17:24
3	Pb 220.353†	25.9	69.3	10.743 ug/L	10.743 ppb	17:17:24
3	S 181.975 Axial†	92.0	64.1	114.48 ug/L	114.48 ppb	17:17:24
3	Sb 206.836†	49.6	26.3	11.271 ug/L	11.271 ppb	17:17:24
3	Se 196.026†	22.9	42.2	35.495 ug/L	35.495 ppb	17:17:24
3	Si 251.611†	3034.6	2610.5	98.114 ug/L	98.114 ppb	17:17:24
3	Sn 189.927†	56.6	50.0	11.292 ug/L	11.292 ppb	17:17:24
3	Ti 334.940†	1720.4	2849.7	4.8835 ug/L	4.8835 ppb	17:17:04
3	Tl 190.801†	18.4	50.6	19.546 ug/L	19.546 ppb	17:17:24
3	U 409.014†	-264.8	1809.7	54.631 ug/L	54.631 ppb	17:17:04
3	V 292.402†	-715.0	585.2	4.9093 ug/L	4.9093 ppb	17:17:04
3	Zn 213.857†	1712.6	1137.3	13.669 ug/L	13.669 ppb	17:17:24
3	SiO2†	3096.5	2676.8	214.09 ug/L	214.09 ppb	17:17:39

Mean Data: PQL

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	788579.0	97.005 %	0.6258			0.65%
Sc Radial	4378.5	95.4 %	1.09			1.15%
Y 371.029	666729.6	96.706 %	0.5567			0.58%
Y RADIAL	4738.8	96.04 %	1.269			1.32%
Ag 328.068†	986.2	5.0734 ug/L	0.32455	5.0734 ppb	0.32455	6.40%
QC value within limits for Ag 328.068 Recovery = 101.47%						
Al 396.153Radial†	223.2	209.34 ug/L	2.782	209.34 ppb	2.782	1.33%
QC value within limits for Al 396.153Radial Recovery = 104.67%						
As 188.979†	45.7	25.489 ug/L	3.1731	25.489 ppb	3.1731	12.45%
QC value within limits for As 188.979 Recovery = 84.96%						
B 249.677†	2063.6	57.717 ug/L	1.1530	57.717 ppb	1.1530	2.00%
QC value within limits for B 249.677 Recovery = 115.43%						
Ba 233.527†	564.3	5.2944 ug/L	0.08181	5.2944 ppb	0.08181	1.55%
QC value within limits for Ba 233.527 Recovery = 105.89%						
Be 313.107†	11774.3	5.0372 ug/L	0.01675	5.0372 ppb	0.01675	0.33%
QC value within limits for Be 313.107 Recovery = 100.74%						
Ca 317.933Radial†	117.8	208.15 ug/L	5.906	208.15 ppb	5.906	2.84%

QC value within limits for Ca 317.933 Radial Recovery = 104.08%

Cd 226.502†	372.5	5.3991 ug/L	0.11452	5.3991 ppb	0.11452	2.12%
QC value within limits for Cd 226.502 Recovery = 107.98%						
Co 228.616†	190.6	4.9636 ug/L	0.03668	4.9636 ppb	0.03668	0.74%
QC value within limits for Co 228.616 Recovery = 99.27%						
Cr 267.716†	384.6	5.1632 ug/L	0.07154	5.1632 ppb	0.07154	1.39%
QC value within limits for Cr 267.716 Recovery = 103.26%						
Cu 324.752†	3069.1	10.138 ug/L	0.2218	10.138 ppb	0.2218	2.19%
QC value within limits for Cu 324.752 Recovery = 101.38%						
Fe 238.204 Radial†	10.6	111.59 ug/L	14.811	111.59 ppb	14.811	13.27%
QC value within limits for Fe 238.204 Radial Recovery = 111.59%						
K 766.490 Radial†	1189.7	227.71 ug/L	8.051	227.71 ppb	8.051	3.54%
QC value greater than the upper limit for K 766.490 Radial Recovery = 151.81%						
Mg 279.077 IEC†	10.9	413.99 ug/L	116.097	413.99 ppb	116.097	28.04%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 138.00%						
Mn 257.610†	7987.1	10.510 ug/L	0.0347	10.510 ppb	0.0347	0.33%
QC value within limits for Mn 257.610 Recovery = 105.10%						
Mo 202.031†	114.7	10.099 ug/L	0.3044	10.099 ppb	0.3044	3.01%
QC value within limits for Mo 202.031 Recovery = 100.99%						
Na 589.592 Radial†	892.5	312.73 ug/L	7.124	312.73 ppb	7.124	2.28%
QC value within limits for Na 589.592 Radial Recovery = 104.24%						
Ni 231.604†	181.3	5.7680 ug/L	0.16621	5.7680 ppb	0.16621	2.88%
QC value within limits for Ni 231.604 Recovery = 115.36%						
P 214.914†	212.9	158.39 ug/L	2.329	158.39 ppb	2.329	1.47%
QC value within limits for P 214.914 Recovery = 105.60%						
Pb 220.353†	73.1	11.330 ug/L	1.6411	11.330 ppb	1.6411	14.48%
QC value within limits for Pb 220.353 Recovery = 113.30%						
S 181.975 Axial†	68.9	122.98 ug/L	8.305	122.98 ppb	8.305	6.75%
QC value within limits for S 181.975 Axial Recovery = 122.98%						
Sb 206.836†	27.4	11.721 ug/L	1.2125	11.721 ppb	1.2125	10.34%
QC value within limits for Sb 206.836 Recovery = 117.21%						
Se 196.026†	40.4	33.909 ug/L	2.5758	33.909 ppb	2.5758	7.60%
QC value within limits for Se 196.026 Recovery = 113.03%						
Si 251.611†	2637.7	99.140 ug/L	0.9722	99.140 ppb	0.9722	0.98%
QC value within limits for Si 251.611 Recovery = 99.14%						
Sn 189.927†	44.0	9.9473 ug/L	1.16759	9.9473 ppb	1.16759	11.74%
QC value within limits for Sn 189.927 Recovery = 99.47%						
Sr 421.552†	675.2	5.1568 ug/L	0.17292	5.1568 ppb	0.17292	3.35%
QC value within limits for Sr 421.552 Recovery = 103.14%						
Ti 334.940†	2860.4	4.9140 ug/L	0.09709	4.9140 ppb	0.09709	1.98%
QC value within limits for Ti 334.940 Recovery = 98.28%						
Tl 190.801†	56.1	21.643 ug/L	2.1260	21.643 ppb	2.1260	9.82%
QC value within limits for Tl 190.801 Recovery = 108.22%						
U 409.014†	1619.4	48.883 ug/L	5.0563	48.883 ppb	5.0563	10.34%
QC value within limits for U 409.014 Recovery = 97.77%						
V 292.402†	587.3	4.9131 ug/L	0.07820	4.9131 ppb	0.07820	1.59%
QC value within limits for V 292.402 Recovery = 98.26%						
Zn 213.857†	1167.2	14.034 ug/L	0.3159	14.034 ppb	0.3159	2.25%
QC value greater than the upper limit for Zn 213.857 Recovery = 140.34%						
SiO2†	2731.2	218.45 ug/L	3.981	218.45 ppb	3.981	1.82%
QC value within limits for SiO2 Recovery = 102.56%						

QC Failed. Continue with analysis.

Sequence No.: 8

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/16/2010 17:19:50

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4286.8	4286.8	93.4 %		17:22:03
1	Y RADIAL	4717.4	4717.4	95.60 %		17:21:43
1	Al 396.153Radial†	-82.6	-2.6	-2.4024 ug/L	-2.4024 ppb	17:22:03
1	Ca 317.933Radial†	31.5	5.9	10.342 ug/L	10.342 ppb	17:22:03
1	Fe 238.204 Radial†	10.1	2.9	30.374 ug/L	30.374 ppb	17:22:03
1	K 766.490 Radial†	2798.7	439.4	84.178 ug/L	84.178 ppb	17:21:43
1	Mg 279.077 IEC†	0.3	0.3	11.127 ug/L	11.127 ppb	17:22:03
1	Na 589.592 Radial†	-802.2	-53.4	-18.700 ug/L	-18.700 ppb	17:21:43
1	Sr 421.552†	7.2	-18.0	-0.1379 ug/L	-0.1379 ppb	17:21:43
1	Sc 361.383	793206.0	793206.0	97.574 %		17:23:00
1	Y 371.029	672267.0	672267.0	97.510 %		17:23:00
1	Ag 328.068†	216.7	11.5	0.0671 ug/L	0.0671 ppb	17:23:00
1	As 188.979†	-21.8	-5.3	-2.9255 ug/L	-2.9255 ppb	17:23:20
1	B 249.677†	-218.6	191.3	5.3485 ug/L	5.3485 ppb	17:23:20
1	Ba 233.527†	24.0	12.1	0.1146 ug/L	0.1146 ppb	17:23:20
1	Be 313.107†	-3753.8	-118.1	-0.0504 ug/L	-0.0504 ppb	17:23:00
1	Cd 226.502†	-154.2	18.3	0.2626 ug/L	0.2626 ppb	17:23:20
1	Co 228.616†	-37.3	1.6	0.0400 ug/L	0.0400 ppb	17:23:20
1	Cr 267.716†	70.7	-7.1	-0.0929 ug/L	-0.0929 ppb	17:23:20
1	Cu 324.752†	5334.4	0.8	0.0030 ug/L	0.0030 ppb	17:23:00
1	Mn 257.610†	563.3	26.4	0.0373 ug/L	0.0373 ppb	17:23:20
1	Mo 202.031†	11.3	-1.3	-0.1085 ug/L	-0.1085 ppb	17:23:20
1	Ni 231.604†	82.1	2.7	0.0855 ug/L	0.0855 ppb	17:23:20
1	P 214.914†	186.4	7.2	5.3703 ug/L	5.3703 ppb	17:23:20
1	Pb 220.353†	-36.9	4.9	0.7541 ug/L	0.7541 ppb	17:23:20
1	S 181.975 Axial†	40.4	11.3	20.173 ug/L	20.173 ppb	17:23:20
1	Sb 206.836†	23.7	-0.3	-0.0905 ug/L	-0.0905 ppb	17:23:20
1	Se 196.026†	-15.0	3.4	2.9464 ug/L	2.9464 ppb	17:23:20
1	Si 251.611†	526.0	40.9	1.5400 ug/L	1.5400 ppb	17:23:20
1	Sn 189.927†	12.9	5.2	1.1768 ug/L	1.1768 ppb	17:23:20
1	Ti 334.940†	-1054.7	6.3	0.0105 ug/L	0.0105 ppb	17:23:00
1	Tl 190.801†	-25.4	5.7	2.2087 ug/L	2.2087 ppb	17:23:20
1	U 409.014†	-1962.9	69.3	2.0899 ug/L	2.0899 ppb	17:23:00
1	V 292.402†	-1268.0	18.2	0.1437 ug/L	0.1437 ppb	17:23:00
1	Zn 213.857†	681.5	81.4	0.9778 ug/L	0.9778 ppb	17:23:20
1	SiO2†	503.9	21.1	1.6954 ug/L	1.6954 ppb	17:24:31
2	Sc Radial	4236.8	4236.8	92.4 %		17:22:28
2	Y RADIAL	4670.1	4670.1	94.65 %		17:22:08
2	Al 396.153Radial†	-66.0	14.3	13.506 ug/L	13.506 ppb	17:22:28
2	Ca 317.933Radial†	25.8	0.1	0.1057 ug/L	0.1057 ppb	17:22:28
2	Fe 238.204 Radial†	8.7	1.6	16.856 ug/L	16.856 ppb	17:22:28
2	K 766.490 Radial†	2761.4	434.3	83.205 ug/L	83.205 ppb	17:22:08
2	Mg 279.077 IEC†	0.4	0.4	13.805 ug/L	13.805 ppb	17:22:28
2	Na 589.592 Radial†	-729.4	15.3	5.3599 ug/L	5.3599 ppb	17:22:08
2	Sr 421.552†	40.3	17.8	0.1362 ug/L	0.1362 ppb	17:22:08
2	Sc 361.383	777169.7	777169.7	95.601 %		17:23:25
2	Y 371.029	657325.1	657325.1	95.342 %		17:23:25
2	Ag 328.068†	69.6	-137.8	-0.6983 ug/L	-0.6983 ppb	17:23:25
2	As 188.979†	-13.9	2.5	1.3698 ug/L	1.3698 ppb	17:23:45
2	B 249.677†	-219.9	185.3	5.1837 ug/L	5.1837 ppb	17:23:45
2	Ba 233.527†	18.4	6.8	0.0627 ug/L	0.0627 ppb	17:23:45
2	Be 313.107†	-3702.1	-143.5	-0.0618 ug/L	-0.0618 ppb	17:23:25
2	Cd 226.502†	-144.2	25.5	0.3671 ug/L	0.3671 ppb	17:23:45
2	Co 228.616†	-35.8	2.4	0.0620 ug/L	0.0620 ppb	17:23:45
2	Cr 267.716†	48.4	-28.9	-0.3835 ug/L	-0.3835 ppb	17:23:45
2	Cu 324.752†	5289.4	66.5	0.2250 ug/L	0.2250 ppb	17:23:25
2	Mn 257.610†	560.4	35.3	0.0475 ug/L	0.0475 ppb	17:23:45
2	Mo 202.031†	6.0	-6.5	-0.5735 ug/L	-0.5735 ppb	17:23:45
2	Ni 231.604†	84.3	6.7	0.2146 ug/L	0.2146 ppb	17:23:45

2	P 214.914†	197.7	22.9	17.160 ug/L	17.160 ppb	17:23:45
2	Pb 220.353†	-39.6	1.4	0.2118 ug/L	0.2118 ppb	17:23:45
2	S 181.975 Axial†	41.3	13.0	23.287 ug/L	23.287 ppb	17:23:45
2	Sb 206.836†	24.4	1.0	0.3859 ug/L	0.3859 ppb	17:23:45
2	Se 196.026†	-17.4	0.6	0.5749 ug/L	0.5749 ppb	17:23:45
2	Si 251.611†	503.5	28.4	1.0773 ug/L	1.0773 ppb	17:23:45
2	Sn 189.927†	8.5	0.9	0.2104 ug/L	0.2104 ppb	17:23:45
2	Ti 334.940†	-1176.2	-143.0	-0.2450 ug/L	-0.2450 ppb	17:23:25
2	Tl 190.801†	-27.7	2.8	1.0873 ug/L	1.0873 ppb	17:23:45
2	U 409.014†	-2214.5	-235.4	-7.1111 ug/L	-7.1111 ppb	17:23:25
2	V 292.402†	-1315.9	-58.8	-0.4931 ug/L	-0.4931 ppb	17:23:25
2	Zn 213.857†	683.3	97.6	1.1751 ug/L	1.1751 ppb	17:23:45
2	SiO2†	519.8	48.4	3.8936 ug/L	3.8936 ppb	17:24:51
3	Sc Radial	4234.6	4234.6	92.3 %		17:22:53
3	Y RADIAL	4735.9	4735.9	95.98 %		17:22:33
3	Al 396.153Radial†	-79.3	-0.1	-0.0667 ug/L	-0.0667 ppb	17:22:53
3	Ca 317.933Radial†	29.9	4.6	8.0854 ug/L	8.0854 ppb	17:22:53
3	Fe 238.204 Radial†	8.6	1.4	14.759 ug/L	14.759 ppb	17:22:53
3	K 766.490 Radial†	2686.8	355.0	68.015 ug/L	68.015 ppb	17:22:33
3	Mg 279.077 IEC†	3.1	3.3	124.47 ug/L	124.47 ppb	17:22:53
3	Na 589.592 Radial†	-817.8	-80.9	-28.351 ug/L	-28.351 ppb	17:22:33
3	Sr 421.552†	43.8	21.7	0.1656 ug/L	0.1656 ppb	17:22:33
3	Sc 361.383	786092.2	786092.2	96.699 %		17:23:50
3	Y 371.029	664621.0	664621.0	96.401 %		17:23:50
3	Ag 328.068†	150.4	-55.0	-0.2754 ug/L	-0.2754 ppb	17:23:50
3	As 188.979†	-17.8	-1.4	-0.7690 ug/L	-0.7690 ppb	17:24:11
3	B 249.677†	-221.1	186.7	5.2238 ug/L	5.2238 ppb	17:24:11
3	Ba 233.527†	34.6	23.3	0.2164 ug/L	0.2164 ppb	17:24:11
3	Be 313.107†	-3734.4	-132.9	-0.0569 ug/L	-0.0569 ppb	17:23:50
3	Cd 226.502†	-150.0	21.2	0.3043 ug/L	0.3043 ppb	17:24:11
3	Co 228.616†	-46.7	-8.5	-0.2212 ug/L	-0.2212 ppb	17:24:11
3	Cr 267.716†	78.3	1.4	0.0224 ug/L	0.0224 ppb	17:24:11
3	Cu 324.752†	5231.9	-55.7	-0.1799 ug/L	-0.1799 ppb	17:23:50
3	Mn 257.610†	548.9	16.7	0.0184 ug/L	0.0184 ppb	17:24:11
3	Mo 202.031†	10.0	-2.5	-0.2211 ug/L	-0.2211 ppb	17:24:11
3	Ni 231.604†	92.1	13.9	0.4416 ug/L	0.4416 ppb	17:24:11
3	P 214.914†	194.9	17.7	13.357 ug/L	13.357 ppb	17:24:11
3	Pb 220.353†	-51.3	-10.3	-1.5862 ug/L	-1.5862 ppb	17:24:11
3	S 181.975 Axial†	38.9	10.1	18.005 ug/L	18.005 ppb	17:24:11
3	Sb 206.836†	24.2	0.5	0.2178 ug/L	0.2178 ppb	17:24:11
3	Se 196.026†	-12.1	6.3	5.2626 ug/L	5.2626 ppb	17:24:11
3	Si 251.611†	493.9	12.5	0.4746 ug/L	0.4746 ppb	17:24:11
3	Sn 189.927†	13.8	6.3	1.4135 ug/L	1.4135 ppb	17:24:11
3	Ti 334.940†	-1081.8	-31.4	-0.0603 ug/L	-0.0603 ppb	17:23:50
3	Tl 190.801†	-20.3	10.8	4.1709 ug/L	4.1709 ppb	17:24:11
3	U 409.014†	-2230.8	-226.0	-6.8261 ug/L	-6.8261 ppb	17:23:50
3	V 292.402†	-1363.9	-92.8	-0.7572 ug/L	-0.7572 ppb	17:23:50
3	Zn 213.857†	688.4	94.8	1.1406 ug/L	1.1406 ppb	17:24:11
3	SiO2†	505.1	27.0	2.1662 ug/L	2.1662 ppb	17:25:11

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	785489.3	96.625 %	0.9884			1.02%
Sc Radial	4252.8	92.7 %	0.64			0.69%
Y 371.029	664737.7	96.418 %	1.0837			1.12%
Y RADIAL	4707.8	95.41 %	0.688			0.72%
Ag 328.068†	-60.4	-0.3022 ug/L	0.38337	-0.3022 ppb	0.38337	126.86%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	3.9	3.6789 ug/L	8.59008	3.6789 ppb	8.59008	233.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.4	-0.7749 ug/L	2.14763	-0.7749 ppb	2.14763	277.14%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	187.8	5.2520 ug/L	0.08591	5.2520 ppb	0.08591	1.64%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	14.0	0.1312 ug/L	0.07820	0.1312 ppb	0.07820	59.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-131.5	-0.0564 ug/L	0.00571	-0.0564 ppb	0.00571	10.14%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	3.5	6.1776 ug/L	5.37813	6.1776 ppb	5.37813	87.06%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	21.7	0.3113 ug/L	0.05264	0.3113 ppb	0.05264	16.91%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.5	-0.0397 ug/L	0.15752	-0.0397 ppb	0.15752	396.58%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-11.5	-0.1514 ug/L	0.20918	-0.1514 ppb	0.20918	138.20%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	3.9	0.0160 ug/L	0.20278	0.0160 ppb	0.20278	>999.9%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	2.0	20.663 ug/L	8.4754	20.663 ppb	8.4754	41.02%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	409.6	78.466 ug/L	9.0642	78.466 ppb	9.0642	11.55%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.3	49.802 ug/L	64.6816	49.802 ppb	64.6816	129.88%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	26.1	0.0344 ug/L	0.01481	0.0344 ppb	0.01481	43.05%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-3.4	-0.3010 ug/L	0.24262	-0.3010 ppb	0.24262	80.60%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-39.7	-13.897 ug/L	17.3610	-13.897 ppb	17.3610	124.93%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	7.8	0.2472 ug/L	0.18029	0.2472 ppb	0.18029	72.92%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	15.9	11.962 ug/L	6.0173	11.962 ppb	6.0173	50.30%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-1.3	-0.2068 ug/L	1.22503	-0.2068 ppb	1.22503	592.44%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	11.5	20.488 ug/L	2.6552	20.488 ppb	2.6552	12.96%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	0.4	0.1711 ug/L	0.24164	0.1711 ppb	0.24164	141.26%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.5	2.9280 ug/L	2.34390	2.9280 ppb	2.34390	80.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	27.3	1.0306 ug/L	0.53421	1.0306 ppb	0.53421	51.83%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.1	0.9336 ug/L	0.63737	0.9336 ppb	0.63737	68.27%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	7.2	0.0546 ug/L	0.16739	0.0546 ppb	0.16739	306.48%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-56.0	-0.0982 ug/L	0.13190	-0.0982 ppb	0.13190	134.25%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	6.5	2.4890 ug/L	1.56078	2.4890 ppb	1.56078	62.71%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-130.7	-3.9491 ug/L	5.23186	-3.9491 ppb	5.23186	132.48%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-44.5	-0.3689 ug/L	0.46313	-0.3689 ppb	0.46313	125.56%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	91.3	1.0978 ug/L	0.10540	1.0978 ppb	0.10540	9.60%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	32.2	2.5851 ug/L	1.15741	2.5851 ppb	1.15741	44.77%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 8

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/16/2010 18:29:30

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4235.2	4235.2	92.3 %		18:31:42
1	Y RADIAL	4603.5	4603.5	93.30 %		18:31:22
1	Al 396.153Radial†	4972.8	5472.3	5118.6 ug/L	5118.6 ppb	18:31:22
1	Ca 317.933Radial†	2765.7	2968.0	5246.2 ug/L	5246.2 ppb	18:31:42
1	Fe 238.204 Radial†	471.4	502.8	5284.6 ug/L	5284.6 ppb	18:31:42
1	K 766.490 Radial†	27719.8	27470.1	5255.8 ug/L	5255.8 ppb	18:31:22
1	Mg 279.077 IEC†	130.5	141.3	5375.8 ug/L	5375.8 ppb	18:31:42
1	Na 589.592 Radial†	28173.9	31322.8	10975 ug/L	10975 ppb	18:31:22
1	Sr 421.552†	64529.8	69872.3	533.74 ug/L	533.74 ppb	18:31:22
1	Sc 361.383	742939.3	742939.3	91.390 %		18:32:39
1	Y 371.029	619371.4	619371.4	89.837 %		18:32:39
1	Ag 328.068†	97366.9	106328.9	549.18 ug/L	549.18 ppb	18:32:45
1	As 188.979†	864.8	963.3	540.70 ug/L	540.70 ppb	18:33:05
1	B 249.677†	17080.2	19104.6	532.20 ug/L	532.20 ppb	18:32:45
1	Ba 233.527†	53386.7	58403.6	547.85 ug/L	547.85 ppb	18:32:45
1	Be 313.107†	1198484.8	1315118.2	562.59 ug/L	562.59 ppb	18:32:39
1	Cd 226.502†	34312.6	37721.4	546.46 ug/L	546.46 ppb	18:32:45
1	Co 228.616†	19479.2	21354.1	554.86 ug/L	554.86 ppb	18:32:45
1	Cr 267.716†	37358.3	40798.1	548.90 ug/L	548.90 ppb	18:32:45
1	Cu 324.752†	155366.4	164536.6	544.58 ug/L	544.58 ppb	18:32:45
1	Mn 257.610†	389700.0	425861.2	561.00 ug/L	561.00 ppb	18:32:39
1	Mo 202.031†	5567.9	6079.6	535.10 ug/L	535.10 ppb	18:33:05
1	Ni 231.604†	16038.7	17468.2	555.84 ug/L	555.84 ppb	18:32:45
1	P 214.914†	3413.4	3551.0	2568.0 ug/L	2568.0 ppb	18:33:05
1	Pb 220.353†	3136.9	3475.2	537.64 ug/L	537.64 ppb	18:33:05
1	S 181.975 Axial†	562.8	585.7	1044.8 ug/L	1044.8 ppb	18:33:05
1	Sb 206.836†	1189.8	1277.4	548.23 ug/L	548.23 ppb	18:33:05
1	Se 196.026†	565.2	637.2	547.21 ug/L	547.21 ppb	18:33:05
1	Si 251.611†	67105.7	72929.3	2738.0 ug/L	2738.0 ppb	18:32:45
1	Sn 189.927†	2174.0	2370.9	534.44 ug/L	534.44 ppb	18:33:05
1	Ti 334.940†	281417.6	309016.2	533.84 ug/L	533.84 ppb	18:32:45
1	Tl 190.801†	1245.6	1394.8	540.69 ug/L	540.69 ppb	18:33:05
1	U 409.014†	15091.1	18593.8	559.73 ug/L	559.73 ppb	18:32:45
1	V 292.402†	61325.7	68420.6	553.82 ug/L	553.82 ppb	18:32:45
1	Zn 213.857†	42563.8	45956.5	550.12 ug/L	550.12 ppb	18:32:45
1	SiO2†	66850.3	72652.7	5803.6 ug/L	5803.6 ppb	18:34:12
2	Sc Radial	4188.0	4188.0	91.3 %		18:32:07
2	Y RADIAL	4796.3	4796.3	97.20 %		18:31:47
2	Al 396.153Radial†	5102.4	5675.0	5311.0 ug/L	5311.0 ppb	18:31:47
2	Ca 317.933Radial†	2745.2	2979.3	5266.3 ug/L	5266.3 ppb	18:32:07
2	Fe 238.204 Radial†	469.3	506.3	5319.4 ug/L	5319.4 ppb	18:32:07
2	K 766.490 Radial†	28418.7	28574.3	5467.3 ug/L	5467.3 ppb	18:31:47
2	Mg 279.077 IEC†	130.5	142.9	5438.4 ug/L	5438.4 ppb	18:32:07
2	Na 589.592 Radial†	28825.8	32381.0	11346 ug/L	11346 ppb	18:31:47
2	Sr 421.552†	66413.6	72724.1	555.52 ug/L	555.52 ppb	18:31:47
2	Sc 361.383	808148.4	808148.4	99.412 %		18:33:11
2	Y 371.029	674321.9	674321.9	97.808 %		18:33:11
2	Ag 328.068†	96018.4	96375.8	497.93 ug/L	497.93 ppb	18:33:16
2	As 188.979†	883.3	905.6	508.20 ug/L	508.20 ppb	18:33:36
2	B 249.677†	16913.6	17429.0	485.45 ug/L	485.45 ppb	18:33:16
2	Ba 233.527†	52615.6	52914.3	496.38 ug/L	496.38 ppb	18:33:16
2	Be 313.107†	1167339.0	1177972.8	503.93 ug/L	503.93 ppb	18:33:11
2	Cd 226.502†	33844.1	34220.7	495.69 ug/L	495.69 ppb	18:33:16
2	Co 228.616†	19229.2	19382.8	503.66 ug/L	503.66 ppb	18:33:16
2	Cr 267.716†	36868.2	37006.8	497.95 ug/L	497.95 ppb	18:33:16
2	Cu 324.752†	152992.1	148430.8	491.31 ug/L	491.31 ppb	18:33:16
2	Mn 257.610†	378718.9	380408.1	501.16 ug/L	501.16 ppb	18:33:11
2	Mo 202.031†	5631.8	5652.2	497.53 ug/L	497.53 ppb	18:33:36
2	Ni 231.604†	15800.8	15812.9	503.16 ug/L	503.16 ppb	18:33:16

2	P 214.914†	3461.4	3298.0	2387.7 ug/L	2387.7 ppb	18:33:36
2	Pb 220.353†	3174.1	3235.7	500.65 ug/L	500.65 ppb	18:33:36
2	S 181.975 Axial†	577.6	550.8	982.48 ug/L	982.48 ppb	18:33:36
2	Sb 206.836†	1229.4	1212.1	519.86 ug/L	519.86 ppb	18:33:36
2	Se 196.026†	582.4	604.6	520.22 ug/L	520.22 ppb	18:33:36
2	Si 251.611†	66188.1	66081.4	2480.7 ug/L	2480.7 ppb	18:33:16
2	Sn 189.927†	2210.1	2215.2	499.39 ug/L	499.39 ppb	18:33:36
2	Ti 334.940†	277347.3	280075.1	483.87 ug/L	483.87 ppb	18:33:16
2	Tl 190.801†	1271.2	1310.6	507.88 ug/L	507.88 ppb	18:33:36
2	U 409.014†	14608.0	16775.4	504.92 ug/L	504.92 ppb	18:33:16
2	V 292.402†	60353.6	62028.3	502.18 ug/L	502.18 ppb	18:33:16
2	Zn 213.857†	42002.4	41633.8	498.31 ug/L	498.31 ppb	18:33:16
2	SiO2†	67871.8	67777.9	5414.3 ug/L	5414.3 ppb	18:34:17
3	Sc Radial	4217.6	4217.6	91.9 %		18:32:32
3	Y RADIAL	4669.2	4669.2	94.63 %		18:32:12
3	Al 396.153Radial†	5028.0	5554.8	5197.8 ug/L	5197.8 ppb	18:32:12
3	Ca 317.933Radial†	2733.5	2945.4	5206.3 ug/L	5206.3 ppb	18:32:32
3	Fe 238.204 Radial†	470.3	503.7	5292.9 ug/L	5292.9 ppb	18:32:32
3	K 766.490 Radial†	28121.0	28032.0	5363.5 ug/L	5363.5 ppb	18:32:12
3	Mg 279.077 IEC†	129.9	141.2	5372.2 ug/L	5372.2 ppb	18:32:32
3	Na 589.592 Radial†	28483.4	31787.0	11138 ug/L	11138 ppb	18:32:12
3	Sr 421.552†	65639.3	71371.3	545.19 ug/L	545.19 ppb	18:32:12
3	Sc 361.383	794311.8	794311.8	97.710 %		18:33:42
3	Y 371.029	663445.7	663445.7	96.230 %		18:33:42
3	Ag 328.068†	95679.6	97711.5	504.80 ug/L	504.80 ppb	18:33:47
3	As 188.979†	859.3	896.5	503.21 ug/L	503.21 ppb	18:34:07
3	B 249.677†	16826.2	17635.9	491.23 ug/L	491.23 ppb	18:33:47
3	Ba 233.527†	52389.6	53605.0	502.85 ug/L	502.85 ppb	18:33:47
3	Be 313.107†	1150254.1	1180942.4	505.21 ug/L	505.21 ppb	18:33:42
3	Cd 226.502†	33741.8	34709.0	502.77 ug/L	502.77 ppb	18:33:47
3	Co 228.616†	19148.0	19636.6	510.25 ug/L	510.25 ppb	18:33:47
3	Cr 267.716†	36686.3	37466.6	504.12 ug/L	504.12 ppb	18:33:47
3	Cu 324.752†	152133.8	150233.3	497.27 ug/L	497.27 ppb	18:33:47
3	Mn 257.610†	373296.8	381495.1	502.59 ug/L	502.59 ppb	18:33:42
3	Mo 202.031†	5585.7	5703.8	502.06 ug/L	502.06 ppb	18:34:07
3	Ni 231.604†	15651.5	15936.9	507.11 ug/L	507.11 ppb	18:33:47
3	P 214.914†	3436.7	3333.3	2413.2 ug/L	2413.2 ppb	18:34:07
3	Pb 220.353†	3134.2	3250.5	502.92 ug/L	502.92 ppb	18:34:07
3	S 181.975 Axial†	565.3	548.4	978.14 ug/L	978.14 ppb	18:34:07
3	Sb 206.836†	1202.4	1206.1	517.50 ug/L	517.50 ppb	18:34:07
3	Se 196.026†	568.0	600.1	516.36 ug/L	516.36 ppb	18:34:07
3	Si 251.611†	65832.9	66877.7	2510.6 ug/L	2510.6 ppb	18:33:47
3	Sn 189.927†	2185.1	2228.4	502.35 ug/L	502.35 ppb	18:34:07
3	Ti 334.940†	275641.6	283189.3	489.25 ug/L	489.25 ppb	18:33:47
3	Tl 190.801†	1256.5	1317.7	510.66 ug/L	510.66 ppb	18:34:07
3	U 409.014†	14485.8	16906.3	508.86 ug/L	508.86 ppb	18:33:47
3	V 292.402†	59984.7	62708.4	507.68 ug/L	507.68 ppb	18:33:47
3	Zn 213.857†	41870.6	42234.8	505.54 ug/L	505.54 ppb	18:33:47
3	SiO2†	66708.3	67776.5	5414.0 ug/L	5414.0 ppb	18:34:22

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	781799.8	96.171 %	4.2264			4.39%
Sc Radial	4213.6	91.8 %	0.52			0.57%
Y 371.029	652379.7	94.625 %	4.2206			4.46%
Y RADIAL	4689.7	95.04 %	1.986			2.09%
Ag 328.068†	100138.7	517.30 ug/L	27.818	517.30 ppb	27.818	5.38%
QC value within limits for Ag 328.068 Recovery = 103.46%						
Al 396.153Radial†	5567.4	5209.2 ug/L	96.69	5209.2 ppb	96.69	1.86%
QC value within limits for Al 396.153Radial Recovery = 104.18%						
As 188.979†	921.8	517.37 ug/L	20.359	517.37 ppb	20.359	3.94%
QC value within limits for As 188.979 Recovery = 103.47%						
B 249.677†	18056.5	502.96 ug/L	25.488	502.96 ppb	25.488	5.07%
QC value within limits for B 249.677 Recovery = 100.59%						
Ba 233.527†	54974.3	515.69 ug/L	28.038	515.69 ppb	28.038	5.44%
QC value within limits for Ba 233.527 Recovery = 103.14%						
Be 313.107†	1224677.8	523.91 ug/L	33.502	523.91 ppb	33.502	6.39%
QC value within limits for Be 313.107 Recovery = 104.78%						
Ca 317.933Radial†	2964.2	5239.6 ug/L	30.52	5239.6 ppb	30.52	0.58%

QC value within limits for Ca 317.933 Radial Recovery = 104.79%						
Cd 226.502†	35550.4	514.97 ug/L	27.497	514.97 ppb	27.497	5.34%
QC value within limits for Cd 226.502 Recovery = 102.99%						
Co 228.616†	20124.5	522.92 ug/L	27.853	522.92 ppb	27.853	5.33%
QC value within limits for Co 228.616 Recovery = 104.58%						
Cr 267.716†	38423.8	516.99 ug/L	27.806	516.99 ppb	27.806	5.38%
QC value within limits for Cr 267.716 Recovery = 103.40%						
Cu 324.752†	154400.2	511.05 ug/L	29.191	511.05 ppb	29.191	5.71%
QC value within limits for Cu 324.752 Recovery = 102.21%						
Fe 238.204 Radial†	504.3	5299.0 ug/L	18.17	5299.0 ppb	18.17	0.34%
QC value within limits for Fe 238.204 Radial Recovery = 105.98%						
K 766.490 Radial†	28025.5	5362.2 ug/L	105.74	5362.2 ppb	105.74	1.97%
QC value within limits for K 766.490 Radial Recovery = 107.24%						
Mg 279.077 IEC†	141.8	5395.5 ug/L	37.21	5395.5 ppb	37.21	0.69%
QC value within limits for Mg 279.077 IEC Recovery = 107.91%						
Mn 257.610†	395921.5	521.58 ug/L	34.145	521.58 ppb	34.145	6.55%
QC value within limits for Mn 257.610 Recovery = 104.32%						
Mo 202.031†	5811.9	511.56 ug/L	20.513	511.56 ppb	20.513	4.01%
QC value within limits for Mo 202.031 Recovery = 102.31%						
Na 589.592 Radial†	31830.3	11153 ug/L	185.9	11153 ppb	185.9	1.67%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 111.53%						
Ni 231.604†	16406.0	522.03 ug/L	29.338	522.03 ppb	29.338	5.62%
QC value within limits for Ni 231.604 Recovery = 104.41%						
P 214.914†	3394.1	2456.3 ug/L	97.57	2456.3 ppb	97.57	3.97%
QC value within limits for P 214.914 Recovery = 98.25%						
Pb 220.353†	3320.5	513.74 ug/L	20.729	513.74 ppb	20.729	4.03%
QC value within limits for Pb 220.353 Recovery = 102.75%						
S 181.975 Axial†	561.6	1001.8 ug/L	37.31	1001.8 ppb	37.31	3.72%
QC value within limits for S 181.975 Axial Recovery = 100.18%						
Sb 206.836†	1231.9	528.53 ug/L	17.102	528.53 ppb	17.102	3.24%
QC value within limits for Sb 206.836 Recovery = 105.71%						
Se 196.026†	614.0	527.93 ug/L	16.807	527.93 ppb	16.807	3.18%
QC value within limits for Se 196.026 Recovery = 105.59%						
Si 251.611†	68629.4	2576.4 ug/L	140.68	2576.4 ppb	140.68	5.46%
QC value within limits for Si 251.611 Recovery = 103.06%						
Sn 189.927†	2271.5	512.06 ug/L	19.441	512.06 ppb	19.441	3.80%
QC value within limits for Sn 189.927 Recovery = 102.41%						
Sr 421.552†	71322.6	544.82 ug/L	10.898	544.82 ppb	10.898	2.00%
QC value within limits for Sr 421.552 Recovery = 108.96%						
Ti 334.940†	290760.2	502.32 ug/L	27.433	502.32 ppb	27.433	5.46%
QC value within limits for Ti 334.940 Recovery = 100.46%						
Tl 190.801†	1341.0	519.74 ug/L	18.191	519.74 ppb	18.191	3.50%
QC value within limits for Tl 190.801 Recovery = 103.95%						
U 409.014†	17425.2	524.50 ug/L	30.569	524.50 ppb	30.569	5.83%
QC value within limits for U 409.014 Recovery = 104.90%						
V 292.402†	64385.8	521.23 ug/L	28.359	521.23 ppb	28.359	5.44%
QC value within limits for V 292.402 Recovery = 104.25%						
Zn 213.857†	43275.0	517.99 ug/L	28.064	517.99 ppb	28.064	5.42%
QC value within limits for Zn 213.857 Recovery = 103.60%						
SiO2†	69402.3	5544.0 ug/L	224.87	5544.0 ppb	224.87	4.06%
QC value within limits for SiO2 Recovery = 103.67%						
QC Failed. Continue with analysis.						

Sequence No.: 9

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/16/2010 18:36:33

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4174.4	4174.4	91.0 %			18:38:45
1	Y RADIAL	4757.7	4757.7	96.42 %			18:38:25
1	Al 396.153Radial†	-86.3	-9.1	-8.5640 ug/L	-8.5640 ppb		18:38:45
1	Ca 317.933Radial†	25.7	0.4	0.7636 ug/L	0.7636 ppb		18:38:45
1	Fe 238.204 Radial†	9.0	2.0	21.144 ug/L	21.144 ppb		18:38:45
1	K 766.490 Radial†	2542.6	238.5	45.698 ug/L	45.698 ppb		18:38:25
1	Mg 279.077 IEC†	-0.7	-0.8	-31.865 ug/L	-31.865 ppb		18:38:45
1	Na 589.592 Radial†	-786.8	-59.6	-20.894 ug/L	-20.894 ppb		18:38:25
1	Sr 421.552†	24.6	1.3	0.0097 ug/L	0.0097 ppb		18:38:25
1	Sc 361.383	786282.5	786282.5	96.722 %			18:39:42
1	Y 371.029	664770.7	664770.7	96.422 %			18:39:42
1	Ag 328.068†	148.9	-56.7	-0.2825 ug/L	-0.2825 ppb		18:39:42
1	As 188.979†	-17.5	-1.1	-0.6057 ug/L	-0.6057 ppb		18:40:02
1	B 249.677†	-232.4	175.1	4.8971 ug/L	4.8971 ppb		18:40:02
1	Ba 233.527†	19.5	7.7	0.0723 ug/L	0.0723 ppb		18:40:02
1	Be 313.107†	-3667.8	-63.1	-0.0269 ug/L	-0.0269 ppb		18:39:42
1	Cd 226.502†	-165.1	5.6	0.0792 ug/L	0.0792 ppb		18:40:02
1	Co 228.616†	-43.8	-5.4	-0.1397 ug/L	-0.1397 ppb		18:40:02
1	Cr 267.716†	87.4	10.8	0.1486 ug/L	0.1486 ppb		18:40:02
1	Cu 324.752†	5347.5	62.5	0.2093 ug/L	0.2093 ppb		18:39:42
1	Mn 257.610†	549.3	16.9	0.0257 ug/L	0.0257 ppb		18:40:02
1	Mo 202.031†	18.7	6.5	0.5760 ug/L	0.5760 ppb		18:40:02
1	Ni 231.604†	98.0	19.9	0.6325 ug/L	0.6325 ppb		18:40:02
1	P 214.914†	191.9	14.5	10.894 ug/L	10.894 ppb		18:40:02
1	Pb 220.353†	-44.4	-3.1	-0.4818 ug/L	-0.4818 ppb		18:40:02
1	S 181.975 Axial†	32.2	3.1	5.5336 ug/L	5.5336 ppb		18:40:02
1	Sb 206.836†	29.8	6.3	2.6392 ug/L	2.6392 ppb		18:40:02
1	Se 196.026†	-23.6	-5.6	-4.5907 ug/L	-4.5907 ppb		18:40:02
1	Si 251.611†	537.5	57.5	2.1576 ug/L	2.1576 ppb		18:40:02
1	Sn 189.927†	14.6	7.1	1.5948 ug/L	1.5948 ppb		18:40:02
1	Ti 334.940†	-1050.3	1.4	0.0061 ug/L	0.0061 ppb		18:39:42
1	Tl 190.801†	-24.3	6.7	2.5714 ug/L	2.5714 ppb		18:40:02
1	U 409.014†	-2096.0	-86.0	-2.6002 ug/L	-2.6002 ppb		18:39:42
1	V 292.402†	-1280.8	-6.5	-0.0522 ug/L	-0.0522 ppb		18:39:42
1	Zn 213.857†	646.5	51.3	0.6119 ug/L	0.6119 ppb		18:40:02
1	SiO2†	530.9	53.6	4.2739 ug/L	4.2739 ppb		18:41:13
2	Sc Radial	4188.3	4188.3	91.3 %			18:39:11
2	Y RADIAL	4372.4	4372.4	88.61 %			18:38:51
2	Al 396.153Radial†	-79.7	-1.5	-1.4389 ug/L	-1.4389 ppb		18:39:11
2	Ca 317.933Radial†	25.5	0.1	0.1531 ug/L	0.1531 ppb		18:39:11
2	Fe 238.204 Radial†	7.6	0.5	5.0780 ug/L	5.0780 ppb		18:39:11
2	K 766.490 Radial†	2516.8	201.0	38.515 ug/L	38.515 ppb		18:38:51
2	Mg 279.077 IEC†	2.9	3.1	117.65 ug/L	117.65 ppb		18:39:11
2	Na 589.592 Radial†	-792.4	-62.9	-22.042 ug/L	-22.042 ppb		18:38:51
2	Sr 421.552†	-5.1	-31.3	-0.2394 ug/L	-0.2394 ppb		18:38:51
2	Sc 361.383	780067.4	780067.4	95.958 %			18:40:08
2	Y 371.029	660414.6	660414.6	95.791 %			18:40:08
2	Ag 328.068†	171.7	-31.7	-0.1566 ug/L	-0.1566 ppb		18:40:08
2	As 188.979†	-17.6	-1.3	-0.7468 ug/L	-0.7468 ppb		18:40:28
2	B 249.677†	-235.8	169.6	4.7451 ug/L	4.7451 ppb		18:40:28
2	Ba 233.527†	8.9	-3.2	-0.0306 ug/L	-0.0306 ppb		18:40:28
2	Be 313.107†	-3663.1	-88.3	-0.0380 ug/L	-0.0380 ppb		18:40:08
2	Cd 226.502†	-169.2	0.0	-0.0011 ug/L	-0.0011 ppb		18:40:28
2	Co 228.616†	-41.3	-3.2	-0.0820 ug/L	-0.0820 ppb		18:40:28
2	Cr 267.716†	54.4	-22.9	-0.3044 ug/L	-0.3044 ppb		18:40:28
2	Cu 324.752†	5263.2	18.7	0.0656 ug/L	0.0656 ppb		18:40:08
2	Mn 257.610†	518.3	-10.8	-0.0186 ug/L	-0.0186 ppb		18:40:28
2	Mo 202.031†	14.2	2.0	0.1749 ug/L	0.1749 ppb		18:40:28
2	Ni 231.604†	104.1	27.0	0.8609 ug/L	0.8609 ppb		18:40:28

2	P 214.914†	180.7	4.4	3.3200 ug/L	3.3200 ppb	18:40:28
2	Pb 220.353†	-34.1	7.3	1.1226 ug/L	1.1226 ppb	18:40:28
2	S 181.975 Axial†	34.4	5.7	10.220 ug/L	10.220 ppb	18:40:28
2	Sb 206.836†	29.0	5.8	2.4064 ug/L	2.4064 ppb	18:40:28
2	Se 196.026†	-17.4	0.6	0.5538 ug/L	0.5538 ppb	18:40:28
2	Si 251.611†	551.7	76.7	2.8849 ug/L	2.8849 ppb	18:40:28
2	Sn 189.927†	13.5	6.1	1.3718 ug/L	1.3718 ppb	18:40:28
2	Ti 334.940†	-1118.7	-78.5	-0.1423 ug/L	-0.1423 ppb	18:40:08
2	Tl 190.801†	-23.5	7.3	2.8040 ug/L	2.8040 ppb	18:40:28
2	U 409.014†	-2204.8	-216.7	-6.5453 ug/L	-6.5453 ppb	18:40:08
2	V 292.402†	-1289.7	-26.3	-0.2183 ug/L	-0.2183 ppb	18:40:08
2	Zn 213.857†	660.2	70.9	0.8500 ug/L	0.8500 ppb	18:40:28
2	SiO2†	527.1	54.0	4.3192 ug/L	4.3192 ppb	18:41:33
3	Sc Radial	4221.5	4221.5	92.0 %		18:39:36
3	Y RADIAL	4718.4	4718.4	95.63 %		18:39:16
3	Al 396.153Radial†	-78.4	0.6	0.4991 ug/L	0.4991 ppb	18:39:36
3	Ca 317.933Radial†	25.0	-0.7	-1.2858 ug/L	-1.2858 ppb	18:39:36
3	Fe 238.204 Radial†	8.2	1.1	11.251 ug/L	11.251 ppb	18:39:36
3	K 766.490 Radial†	2560.8	227.1	43.523 ug/L	43.523 ppb	18:39:16
3	Mg 279.077 IEC†	1.0	1.1	39.974 ug/L	39.974 ppb	18:39:36
3	Na 589.592 Radial†	-838.7	-106.3	-37.258 ug/L	-37.258 ppb	18:39:16
3	Sr 421.552†	14.9	-9.5	-0.0729 ug/L	-0.0729 ppb	18:39:16
3	Sc 361.383	782250.0	782250.0	96.226 %		18:40:33
3	Y 371.029	662461.1	662461.1	96.087 %		18:40:33
3	Ag 328.068†	186.8	-16.4	-0.0747 ug/L	-0.0747 ppb	18:40:33
3	As 188.979†	-26.0	-10.0	-5.5601 ug/L	-5.5601 ppb	18:40:53
3	B 249.677†	-263.9	141.1	3.9478 ug/L	3.9478 ppb	18:40:53
3	Ba 233.527†	6.1	-6.2	-0.0581 ug/L	-0.0581 ppb	18:40:53
3	Be 313.107†	-3584.5	3.9	0.0018 ug/L	0.0018 ppb	18:40:33
3	Cd 226.502†	-160.8	9.3	0.1316 ug/L	0.1316 ppb	18:40:53
3	Co 228.616†	-38.6	-0.3	-0.0042 ug/L	-0.0042 ppb	18:40:53
3	Cr 267.716†	88.0	11.9	0.1643 ug/L	0.1643 ppb	18:40:53
3	Cu 324.752†	5363.0	107.1	0.3600 ug/L	0.3600 ppb	18:40:33
3	Mn 257.610†	533.9	3.9	0.0046 ug/L	0.0046 ppb	18:40:53
3	Mo 202.031†	27.2	15.4	1.3587 ug/L	1.3587 ppb	18:40:53
3	Ni 231.604†	86.1	8.1	0.2573 ug/L	0.2573 ppb	18:40:53
3	P 214.914†	194.9	18.6	13.943 ug/L	13.943 ppb	18:40:53
3	Pb 220.353†	-40.8	0.4	0.0664 ug/L	0.0664 ppb	18:40:53
3	S 181.975 Axial†	33.6	4.8	8.5061 ug/L	8.5061 ppb	18:40:53
3	Sb 206.836†	21.8	-1.8	-0.7261 ug/L	-0.7261 ppb	18:40:53
3	Se 196.026†	-23.7	-5.8	-4.7867 ug/L	-4.7867 ppb	18:40:53
3	Si 251.611†	525.9	48.3	1.8009 ug/L	1.8009 ppb	18:40:53
3	Sn 189.927†	10.4	2.8	0.6270 ug/L	0.6270 ppb	18:40:53
3	Ti 334.940†	-1027.5	19.5	0.0342 ug/L	0.0342 ppb	18:40:33
3	Tl 190.801†	-30.9	-0.3	-0.1150 ug/L	-0.1150 ppb	18:40:53
3	U 409.014†	-2290.4	-299.3	-9.0400 ug/L	-9.0400 ppb	18:40:33
3	V 292.402†	-1304.2	-37.6	-0.2999 ug/L	-0.2999 ppb	18:40:33
3	Zn 213.857†	649.3	57.7	0.6930 ug/L	0.6930 ppb	18:40:53
3	SiO2†	516.8	41.7	3.3051 ug/L	3.3051 ppb	18:41:53

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	782866.6	96.302 %	0.3879			0.40%
Sc Radial	4194.7	91.4 %	0.53			0.58%
Y 371.029	662548.8	96.100 %	0.3161			0.33%
Y RADIAL	4616.2	93.55 %	4.297			4.59%
Ag 328.068†	-34.9	-0.1713 ug/L	0.10467	-0.1713 ppb	0.10467	61.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-3.3	-3.1679 ug/L	4.77253	-3.1679 ppb	4.77253	150.65%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-4.1	-2.3042 ug/L	2.82058	-2.3042 ppb	2.82058	122.41%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	161.9	4.5300 ug/L	0.50993	4.5300 ppb	0.50993	11.26%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.6	-0.0055 ug/L	0.06874	-0.0055 ppb	0.06874	>999.9%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-49.2	-0.0211 ug/L	0.02053	-0.0211 ppb	0.02053	97.43%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-0.1	-0.1230 ug/L	1.05227	-0.1230 ppb	1.05227	855.29%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd 226.502†	5.0	0.0699 ug/L	0.06682	0.0699	ppb	0.06682	95.59%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co 228.616†	-3.0	-0.0753 ug/L	0.06799	-0.0753	ppb	0.06799	90.29%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr 267.716†	-0.0	0.0028 ug/L	0.26619	0.0028	ppb	0.26619	>999.9%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu 324.752†	62.7	0.2117 ug/L	0.14721	0.2117	ppb	0.14721	69.55%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe 238.204 Radial†	1.2	12.491 ug/L	8.1043	12.491	ppb	8.1043	64.88%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K 766.490 Radial†	222.2	42.579 ug/L	3.6829	42.579	ppb	3.6829	8.65%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg 279.077 IEC†	1.1	41.920 ug/L	74.7765	41.920	ppb	74.7765	178.38%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn 257.610†	3.3	0.0039 ug/L	0.02215	0.0039	ppb	0.02215	564.72%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo 202.031†	8.0	0.7032 ug/L	0.60203	0.7032	ppb	0.60203	85.61%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na 589.592 Radial†	-76.3	-26.731 ug/L	9.1342	-26.731	ppb	9.1342	34.17%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni 231.604†	18.3	0.5835 ug/L	0.30477	0.5835	ppb	0.30477	52.23%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P 214.914†	12.5	9.3857 ug/L	5.46984	9.3857	ppb	5.46984	58.28%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb 220.353†	1.5	0.2357 ug/L	0.81552	0.2357	ppb	0.81552	345.95%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S 181.975 Axial†	4.5	8.0866 ug/L	2.37129	8.0866	ppb	2.37129	29.32%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb 206.836†	3.4	1.4398 ug/L	1.87939	1.4398	ppb	1.87939	130.53%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se 196.026†	-3.6	-2.9412 ug/L	3.02834	-2.9412	ppb	3.02834	102.96%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si 251.611†	60.8	2.2811 ug/L	0.55246	2.2811	ppb	0.55246	24.22%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn 189.927†	5.3	1.1979 ug/L	0.50679	1.1979	ppb	0.50679	42.31%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr 421.552†	-13.2	-0.1009 ug/L	0.12691	-0.1009	ppb	0.12691	125.82%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti 334.940†	-19.2	-0.0340 ug/L	0.09482	-0.0340	ppb	0.09482	278.94%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl 190.801†	4.6	1.7535 ug/L	1.62232	1.7535	ppb	1.62232	92.52%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U 409.014†	-200.7	-6.0619 ug/L	3.24701	-6.0619	ppb	3.24701	53.56%		
QC value within limits for U 409.014 Recovery = Not calculated									
V 292.402†	-23.5	-0.1901 ug/L	0.12618	-0.1901	ppb	0.12618	66.37%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn 213.857†	59.9	0.7183 ug/L	0.12102	0.7183	ppb	0.12102	16.85%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	49.8	3.9661 ug/L	0.57287	3.9661	ppb	0.57287	14.44%		
QC value within limits for SiO2 Recovery = Not calculated									
All analyte(s) passed QC.									

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Analysis Begun

Start Time: 3/16/2010 18:49:45

Plasma On Time: 3/15/2010 06:51:19

Logged In Analyst: Optima3

Technique: ICP Continuous

Spectrometer Model: Optima 5300 DV, S/N 077C7090601Autosampler Model: S10

Sample Information File: C:\pe\Optima3\Sample Information\031610.sif

Batch ID:

Results Data Set: 031610

Results Library: C:\pe\Optima3\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: CCV

Date Collected: 3/16/2010 18:49:46

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4203.9	4203.9	91.6 %		18:51:58
1	Y RADIAL	4595.6	4595.6	93.14 %		18:51:38
1	Al 396.153Radial†	4882.6	5414.0	5065.4 ug/L	5065.4 ppb	18:51:38
1	Ca 317.933Radial†	2752.9	2976.3	5260.9 ug/L	5260.9 ppb	18:51:58
1	Fe 238.204 Radial†	474.5	510.0	5358.5 ug/L	5358.5 ppb	18:51:58
1	K 766.490 Radial†	27512.8	27467.8	5255.4 ug/L	5255.4 ppb	18:51:38
1	Mg 279.077 IEC†	133.0	145.0	5518.3 ug/L	5518.3 ppb	18:51:58
1	Na 589.592 Radial†	28208.9	31588.2	11068 ug/L	11068 ppb	18:51:38
1	Sr 421.552†	64323.3	70167.5	535.99 ug/L	535.99 ppb	18:51:38
1	Sc 361.383	790063.9	790063.9	97.187 %		18:52:55
1	Y 371.029	660033.7	660033.7	95.735 %		18:52:55
1	Ag 328.068†	95768.3	98329.2	508.01 ug/L	508.01 ppb	18:53:00
1	As 188.979†	864.1	906.1	508.60 ug/L	508.60 ppb	18:53:21
1	B 249.677†	16965.6	17871.9	497.80 ug/L	497.80 ppb	18:53:00
1	Ba 233.527†	52890.8	54409.0	510.39 ug/L	510.39 ppb	18:53:00
1	Be 313.107†	1155476.1	1192645.1	510.22 ug/L	510.22 ppb	18:52:55
1	Cd 226.502†	33962.6	35121.8	508.75 ug/L	508.75 ppb	18:53:00
1	Co 228.616†	19290.3	19888.4	516.79 ug/L	516.79 ppb	18:53:00
1	Cr 267.716†	36916.2	37905.0	510.03 ug/L	510.03 ppb	18:53:00
1	Cu 324.752†	152393.5	151337.6	500.93 ug/L	500.93 ppb	18:53:00
1	Mn 257.610†	368559.9	378675.2	498.87 ug/L	498.87 ppb	18:53:00
1	Mo 202.031†	5571.7	5720.1	503.50 ug/L	503.50 ppb	18:53:21
1	Ni 231.604†	15796.2	16172.0	514.59 ug/L	514.59 ppb	18:53:00
1	P 214.914†	3419.5	3334.6	2413.3 ug/L	2413.3 ppb	18:53:21
1	Pb 220.353†	3154.2	3288.2	508.71 ug/L	508.71 ppb	18:53:21
1	S 181.975 Axial†	575.2	561.7	1002.0 ug/L	1002.0 ppb	18:53:21
1	Sb 206.836†	1192.1	1202.1	515.91 ug/L	515.91 ppb	18:53:21
1	Se 196.026†	577.4	612.9	527.17 ug/L	527.17 ppb	18:53:21
1	Si 251.611†	66043.3	67456.4	2532.4 ug/L	2532.4 ppb	18:53:00
1	Sn 189.927†	2184.9	2240.2	505.02 ug/L	505.02 ppb	18:53:21
1	Ti 334.940†	277161.1	286269.6	494.56 ug/L	494.56 ppb	18:53:00
1	Tl 190.801†	1248.5	1316.5	510.16 ug/L	510.16 ppb	18:53:21
1	U 409.014†	14449.1	16948.2	510.11 ug/L	510.11 ppb	18:53:00
1	V 292.402†	60452.3	63519.5	514.17 ug/L	514.17 ppb	18:53:00
1	Zn 213.857†	42148.9	42751.5	511.72 ug/L	511.72 ppb	18:53:00
1	SiO2†	67169.7	68618.3	5481.4 ug/L	5481.4 ppb	18:54:28
2	Sc Radial	4201.8	4201.8	91.6 %		18:52:23
2	Y RADIAL	4646.9	4646.9	94.18 %		18:52:03
2	Al 396.153Radial†	4960.5	5501.8	5148.3 ug/L	5148.3 ppb	18:52:03
2	Ca 317.933Radial†	2742.3	2966.2	5243.1 ug/L	5243.1 ppb	18:52:23
2	Fe 238.204 Radial†	474.6	510.3	5361.9 ug/L	5361.9 ppb	18:52:23
2	K 766.490 Radial†	27699.7	27686.9	5297.3 ug/L	5297.3 ppb	18:52:03
2	Mg 279.077 IEC†	129.2	140.9	5363.3 ug/L	5363.3 ppb	18:52:23
2	Na 589.592 Radial†	28503.5	31925.3	11186 ug/L	11186 ppb	18:52:03
2	Sr 421.552†	65111.4	71063.1	542.84 ug/L	542.84 ppb	18:52:03
2	Sc 361.383	798633.8	798633.8	98.242 %		18:53:26
2	Y 371.029	666424.0	666424.0	96.662 %		18:53:26

2	Ag 328.068†	96473.2	97989.4	506.25 ug/L	506.25 ppb	18:53:31
2	As 188.979†	858.8	891.2	500.28 ug/L	500.28 ppb	18:53:51
2	B 249.677†	17134.6	17856.7	497.39 ug/L	497.39 ppb	18:53:31
2	Ba 233.527†	52962.7	53898.2	505.60 ug/L	505.60 ppb	18:53:31
2	Be 313.107†	1163998.0	1188561.4	508.47 ug/L	508.47 ppb	18:53:26
2	Cd 226.502†	34028.0	34813.4	504.28 ug/L	504.28 ppb	18:53:31
2	Co 228.616†	19381.0	19767.7	513.64 ug/L	513.64 ppb	18:53:31
2	Cr 267.716†	37127.4	37712.5	507.43 ug/L	507.43 ppb	18:53:31
2	Cu 324.752†	153666.9	150951.2	499.64 ug/L	499.64 ppb	18:53:31
2	Mn 257.610†	370024.2	376096.4	495.49 ug/L	495.49 ppb	18:53:31
2	Mo 202.031†	5537.7	5624.0	495.04 ug/L	495.04 ppb	18:53:51
2	Ni 231.604†	15872.6	16075.3	511.51 ug/L	511.51 ppb	18:53:31
2	P 214.914†	3406.1	3283.2	2374.9 ug/L	2374.9 ppb	18:53:51
2	Pb 220.353†	3120.3	3219.0	498.02 ug/L	498.02 ppb	18:53:51
2	S 181.975 Axial†	565.5	545.4	972.90 ug/L	972.90 ppb	18:53:51
2	Sb 206.836†	1198.4	1195.3	512.86 ug/L	512.86 ppb	18:53:51
2	Se 196.026†	571.9	601.0	517.26 ug/L	517.26 ppb	18:53:51
2	Si 251.611†	66404.4	67094.7	2518.9 ug/L	2518.9 ppb	18:53:31
2	Sn 189.927†	2182.6	2213.7	499.05 ug/L	499.05 ppb	18:53:51
2	Ti 334.940†	278549.6	284622.7	491.72 ug/L	491.72 ppb	18:53:31
2	Tl 190.801†	1246.3	1300.4	503.96 ug/L	503.96 ppb	18:53:51
2	U 409.014†	14849.4	17196.2	517.60 ug/L	517.60 ppb	18:53:31
2	V 292.402†	60580.5	62982.5	509.78 ug/L	509.78 ppb	18:53:31
2	Zn 213.857†	42272.5	42412.0	507.64 ug/L	507.64 ppb	18:53:31
2	SiO2†	66072.8	66760.1	5332.8 ug/L	5332.8 ppb	18:54:33
3	Sc Radial	4218.4	4218.4	92.0 %		18:52:48
3	Y RADIAL	4646.3	4646.3	94.16 %		18:52:28
3	Al 396.153Radial†	4956.8	5476.3	5124.2 ug/L	5124.2 ppb	18:52:28
3	Ca 317.933Radial†	2741.3	2953.3	5220.3 ug/L	5220.3 ppb	18:52:48
3	Fe 238.204 Radial†	473.7	507.3	5330.8 ug/L	5330.8 ppb	18:52:48
3	K 766.490 Radial†	27656.5	27521.0	5265.6 ug/L	5265.6 ppb	18:52:28
3	Mg 279.077 IEC†	128.6	139.8	5318.3 ug/L	5318.3 ppb	18:52:48
3	Na 589.592 Radial†	28207.6	31481.1	11031 ug/L	11031 ppb	18:52:28
3	Sr 421.552†	64702.5	70338.7	537.30 ug/L	537.30 ppb	18:52:28
3	Sc 361.383	802615.4	802615.4	98.731 %		18:53:57
3	Y 371.029	669803.5	669803.5	97.152 %		18:53:57
3	Ag 328.068†	97102.2	98139.4	507.02 ug/L	507.02 ppb	18:54:02
3	As 188.979†	866.9	895.1	502.44 ug/L	502.44 ppb	18:54:22
3	B 249.677†	17254.1	17891.1	498.36 ug/L	498.36 ppb	18:54:02
3	Ba 233.527†	53223.7	53895.1	505.58 ug/L	505.58 ppb	18:54:02
3	Be 313.107†	1171548.4	1190331.2	509.23 ug/L	509.23 ppb	18:53:57
3	Cd 226.502†	34163.7	34779.1	503.78 ug/L	503.78 ppb	18:54:02
3	Co 228.616†	19453.8	19743.6	513.02 ug/L	513.02 ppb	18:54:02
3	Cr 267.716†	37362.8	37763.3	508.11 ug/L	508.11 ppb	18:54:02
3	Cu 324.752†	154721.1	151242.9	500.61 ug/L	500.61 ppb	18:54:02
3	Mn 257.610†	371972.7	376201.5	495.62 ug/L	495.62 ppb	18:54:02
3	Mo 202.031†	5611.6	5670.9	499.17 ug/L	499.17 ppb	18:54:22
3	Ni 231.604†	16002.6	16126.8	513.15 ug/L	513.15 ppb	18:54:02
3	P 214.914†	3425.6	3285.7	2376.6 ug/L	2376.6 ppb	18:54:22
3	Pb 220.353†	3170.8	3254.4	503.49 ug/L	503.49 ppb	18:54:22
3	S 181.975 Axial†	568.0	545.2	972.40 ug/L	972.40 ppb	18:54:22
3	Sb 206.836†	1198.9	1189.8	510.65 ug/L	510.65 ppb	18:54:22
3	Se 196.026†	578.3	604.6	520.15 ug/L	520.15 ppb	18:54:22
3	Si 251.611†	66868.1	67229.1	2523.9 ug/L	2523.9 ppb	18:54:02
3	Sn 189.927†	2194.2	2214.4	499.20 ug/L	499.20 ppb	18:54:22
3	Ti 334.940†	280499.8	285191.4	492.71 ug/L	492.71 ppb	18:54:02
3	Tl 190.801†	1253.3	1301.2	504.29 ug/L	504.29 ppb	18:54:22
3	U 409.014†	14855.0	17126.9	515.51 ug/L	515.51 ppb	18:54:02
3	V 292.402†	61084.8	63187.4	511.47 ug/L	511.47 ppb	18:54:02
3	Zn 213.857†	42428.1	42356.2	506.96 ug/L	506.96 ppb	18:54:02
3	SiO2†	66880.6	67244.6	5371.5 ug/L	5371.5 ppb	18:54:38

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	797104.4	98.053 %	0.7890			0.80%
Sc Radial	4208.1	91.7 %	0.20			0.21%
Y 371.029	665420.4	96.517 %	0.7197			0.75%
Y RADIAL	4629.6	93.83 %	0.597			0.64%
Ag 328.068†	98152.7	507.09 ug/L	0.886	507.09 ppb	0.886	0.17%

QC value within limits for Ag 328.068 Recovery = 101.42%							
Al 396.153Radial†	5464.0	5112.6 ug/L	42.64	5112.6 ppb	42.64	0.83%	
QC value within limits for Al 396.153Radial Recovery = 102.25%							
As 188.979†	897.4	503.77 ug/L	4.321	503.77 ppb	4.321	0.86%	
QC value within limits for As 188.979 Recovery = 100.75%							
B 249.677†	17873.3	497.85 ug/L	0.487	497.85 ppb	0.487	0.10%	
QC value within limits for B 249.677 Recovery = 99.57%							
Ba 233.527†	54067.4	507.19 ug/L	2.773	507.19 ppb	2.773	0.55%	
QC value within limits for Ba 233.527 Recovery = 101.44%							
Be 313.107†	1190512.6	509.31 ug/L	0.877	509.31 ppb	0.877	0.17%	
QC value within limits for Be 313.107 Recovery = 101.86%							
Ca 317.933Radial†	2965.3	5241.4 ug/L	20.38	5241.4 ppb	20.38	0.39%	
QC value within limits for Ca 317.933Radial Recovery = 104.83%							
Cd 226.502†	34904.8	505.60 ug/L	2.734	505.60 ppb	2.734	0.54%	
QC value within limits for Cd 226.502 Recovery = 101.12%							
Co 228.616†	19799.9	514.48 ug/L	2.021	514.48 ppb	2.021	0.39%	
QC value within limits for Co 228.616 Recovery = 102.90%							
Cr 267.716†	37793.6	508.52 ug/L	1.345	508.52 ppb	1.345	0.26%	
QC value within limits for Cr 267.716 Recovery = 101.70%							
Cu 324.752†	151177.2	500.39 ug/L	0.668	500.39 ppb	0.668	0.13%	
QC value within limits for Cu 324.752 Recovery = 100.08%							
Fe 238.204 Radial†	509.2	5350.4 ug/L	17.07	5350.4 ppb	17.07	0.32%	
QC value within limits for Fe 238.204 Radial Recovery = 107.01%							
K 766.490 Radial†	27558.6	5272.8 ug/L	21.87	5272.8 ppb	21.87	0.41%	
QC value within limits for K 766.490 Radial Recovery = 105.46%							
Mg 279.077 IEC†	141.9	5399.9 ug/L	104.92	5399.9 ppb	104.92	1.94%	
QC value within limits for Mg 279.077 IEC Recovery = 108.00%							
Mn 257.610†	376991.0	496.66 ug/L	1.918	496.66 ppb	1.918	0.39%	
QC value within limits for Mn 257.610 Recovery = 99.33%							
Mo 202.031†	5671.7	499.24 ug/L	4.228	499.24 ppb	4.228	0.85%	
QC value within limits for Mo 202.031 Recovery = 99.85%							
Na 589.592 Radial†	31664.9	11095 ug/L	81.2	11095 ppb	81.2	0.73%	
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.95%							
Ni 231.604†	16124.7	513.08 ug/L	1.539	513.08 ppb	1.539	0.30%	
QC value within limits for Ni 231.604 Recovery = 102.62%							
P 214.914†	3301.1	2388.3 ug/L	21.74	2388.3 ppb	21.74	0.91%	
QC value within limits for P 214.914 Recovery = 95.53%							
Pb 220.353†	3253.9	503.41 ug/L	5.344	503.41 ppb	5.344	1.06%	
QC value within limits for Pb 220.353 Recovery = 100.68%							
S 181.975 Axial†	550.8	982.43 ug/L	16.945	982.43 ppb	16.945	1.72%	
QC value within limits for S 181.975 Axial Recovery = 98.24%							
Sb 206.836†	1195.7	513.14 ug/L	2.644	513.14 ppb	2.644	0.52%	
QC value within limits for Sb 206.836 Recovery = 102.63%							
Se 196.026†	606.2	521.53 ug/L	5.099	521.53 ppb	5.099	0.98%	
QC value within limits for Se 196.026 Recovery = 104.31%							
Si 251.611†	67260.1	2525.1 ug/L	6.83	2525.1 ppb	6.83	0.27%	
QC value within limits for Si 251.611 Recovery = 101.00%							
Sn 189.927†	2222.8	501.09 ug/L	3.403	501.09 ppb	3.403	0.68%	
QC value within limits for Sn 189.927 Recovery = 100.22%							
Sr 421.552†	70523.1	538.71 ug/L	3.632	538.71 ppb	3.632	0.67%	
QC value within limits for Sr 421.552 Recovery = 107.74%							
Ti 334.940†	285361.2	493.00 ug/L	1.441	493.00 ppb	1.441	0.29%	
QC value within limits for Ti 334.940 Recovery = 98.60%							
Tl 190.801†	1306.0	506.14 ug/L	3.488	506.14 ppb	3.488	0.69%	
QC value within limits for Tl 190.801 Recovery = 101.23%							
U 409.014†	17090.5	514.41 ug/L	3.868	514.41 ppb	3.868	0.75%	
QC value within limits for U 409.014 Recovery = 102.88%							
V 292.402†	63229.8	511.81 ug/L	2.217	511.81 ppb	2.217	0.43%	
QC value within limits for V 292.402 Recovery = 102.36%							
Zn 213.857†	42506.6	508.77 ug/L	2.575	508.77 ppb	2.575	0.51%	
QC value within limits for Zn 213.857 Recovery = 101.75%							
SiO2†	67541.0	5395.3 ug/L	77.08	5395.3 ppb	77.08	1.43%	
QC value within limits for SiO2 Recovery = 100.89%							
QC Failed. Continue with analysis.							

Sequence No.: 2

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/16/2010 18:56:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4249.7	4249.7	92.6 %		18:58:39
1	Y RADIAL	4590.4	4590.4	93.03 %		18:58:39
1	Al 396.153Radial†	-74.5	5.3	5.0024 ug/L	5.0024 ppb	18:58:59
1	Ca 317.933Radial†	17.5	-8.9	-15.800 ug/L	-15.800 ppb	18:58:59
1	Fe 238.204 Radial†	5.6	-1.8	-18.934 ug/L	-18.934 ppb	18:58:59
1	K 766.490 Radial†	2490.9	133.2	25.531 ug/L	25.531 ppb	18:58:39
1	Mg 279.077 IEC†	3.1	3.3	125.61 ug/L	125.61 ppb	18:58:59
1	Na 589.592 Radial†	-801.5	-60.2	-21.085 ug/L	-21.085 ppb	18:58:39
1	Sr 421.552†	29.0	5.6	0.0426 ug/L	0.0426 ppb	18:58:39
1	Sc 361.383	786688.9	786688.9	96.772 %		18:59:56
1	Y 371.029	665779.0	665779.0	96.569 %		18:59:56
1	Ag 328.068†	192.0	-12.2	-0.0641 ug/L	-0.0641 ppb	18:59:56
1	As 188.979†	-15.1	1.4	0.7762 ug/L	0.7762 ppb	19:00:16
1	B 249.677†	-207.8	200.6	5.6166 ug/L	5.6166 ppb	19:00:16
1	Ba 233.527†	19.2	7.3	0.0675 ug/L	0.0675 ppb	19:00:16
1	Be 313.107†	-3740.1	-135.8	-0.0584 ug/L	-0.0584 ppb	18:59:56
1	Cd 226.502†	-171.0	-0.4	-0.0051 ug/L	-0.0051 ppb	19:00:16
1	Co 228.616†	-37.2	1.4	0.0391 ug/L	0.0391 ppb	19:00:16
1	Cr 267.716†	76.6	-0.4	-0.0049 ug/L	-0.0049 ppb	19:00:16
1	Cu 324.752†	5128.5	-166.6	-0.5495 ug/L	-0.5495 ppb	18:59:56
1	Mn 257.610†	423.9	-112.9	-0.1557 ug/L	-0.1557 ppb	19:00:16
1	Mo 202.031†	16.3	4.0	0.3471 ug/L	0.3471 ppb	19:00:16
1	Ni 231.604†	75.3	-3.6	-0.1148 ug/L	-0.1148 ppb	19:00:16
1	P 214.914†	192.4	14.9	11.365 ug/L	11.365 ppb	19:00:16
1	Pb 220.353†	-50.5	-9.4	-1.4460 ug/L	-1.4460 ppb	19:00:16
1	S 181.975 Axial†	28.1	-1.1	-1.9672 ug/L	-1.9672 ppb	19:00:16
1	Sb 206.836†	25.5	1.8	0.7780 ug/L	0.7780 ppb	19:00:16
1	Se 196.026†	-23.4	-5.4	-4.5517 ug/L	-4.5517 ppb	19:00:16
1	Si 251.611†	591.0	112.5	4.2291 ug/L	4.2291 ppb	19:00:16
1	Sn 189.927†	10.6	3.0	0.6687 ug/L	0.6687 ppb	19:00:16
1	Ti 334.940†	-1146.5	-97.4	-0.1783 ug/L	-0.1783 ppb	18:59:56
1	Tl 190.801†	-24.3	6.7	2.5717 ug/L	2.5717 ppb	19:00:16
1	U 409.014†	-2194.3	-186.5	-5.6291 ug/L	-5.6291 ppb	18:59:56
1	V 292.402†	-1283.4	-8.5	-0.0687 ug/L	-0.0687 ppb	18:59:56
1	Zn 213.857†	638.4	42.6	0.5188 ug/L	0.5188 ppb	19:00:16
1	SiO2†	578.5	102.5	8.1993 ug/L	8.1993 ppb	19:01:27
2	Sc Radial	4385.7	4385.7	95.6 %		18:59:04
2	Y RADIAL	4729.6	4729.6	95.85 %		18:59:04
2	Al 396.153Radial†	-76.6	5.7	5.3074 ug/L	5.3074 ppb	18:59:24
2	Ca 317.933Radial†	20.8	-6.1	-10.811 ug/L	-10.811 ppb	18:59:24
2	Fe 238.204 Radial†	8.7	1.2	12.751 ug/L	12.751 ppb	18:59:24
2	K 766.490 Radial†	2457.8	15.2	2.9270 ug/L	2.9270 ppb	18:59:04
2	Mg 279.077 IEC†	3.9	4.0	153.34 ug/L	153.34 ppb	18:59:24
2	Na 589.592 Radial†	-898.5	-134.8	-47.229 ug/L	-47.229 ppb	18:59:04
2	Sr 421.552†	47.0	23.4	0.1792 ug/L	0.1792 ppb	18:59:04
2	Sc 361.383	784294.9	784294.9	96.478 %		19:00:21
2	Y 371.029	663651.0	663651.0	96.260 %		19:00:21
2	Ag 328.068†	151.8	-53.2	-0.2643 ug/L	-0.2643 ppb	19:00:21
2	As 188.979†	-18.3	-1.9	-1.0435 ug/L	-1.0435 ppb	19:00:41
2	B 249.677†	-222.2	185.0	5.1755 ug/L	5.1755 ppb	19:00:41
2	Ba 233.527†	6.7	-5.6	-0.0523 ug/L	-0.0523 ppb	19:00:41
2	Be 313.107†	-3660.2	-64.8	-0.0280 ug/L	-0.0280 ppb	19:00:21
2	Cd 226.502†	-159.5	11.0	0.1571 ug/L	0.1571 ppb	19:00:41
2	Co 228.616†	-37.1	1.4	0.0368 ug/L	0.0368 ppb	19:00:41
2	Cr 267.716†	65.4	-11.8	-0.1545 ug/L	-0.1545 ppb	19:00:41
2	Cu 324.752†	5165.5	-112.1	-0.3669 ug/L	-0.3669 ppb	19:00:21
2	Mn 257.610†	420.9	-114.7	-0.1560 ug/L	-0.1560 ppb	19:00:41
2	Mo 202.031†	15.0	2.7	0.2354 ug/L	0.2354 ppb	19:00:41
2	Ni 231.604†	79.5	1.0	0.0320 ug/L	0.0320 ppb	19:00:41

2	P 214.914†	177.7	0.2	0.2494 ug/L	0.2494 ppb	19:00:41
2	Pb 220.353†	-50.8	-9.8	-1.5149 ug/L	-1.5149 ppb	19:00:41
2	S 181.975 Axial†	30.6	1.6	2.8518 ug/L	2.8518 ppb	19:00:41
2	Sb 206.836†	37.4	14.3	5.9304 ug/L	5.9304 ppb	19:00:41
2	Se 196.026†	-20.9	-2.9	-2.3460 ug/L	-2.3460 ppb	19:00:41
2	Si 251.611†	599.3	122.9	4.6240 ug/L	4.6240 ppb	19:00:41
2	Sn 189.927†	11.0	3.4	0.7584 ug/L	0.7584 ppb	19:00:41
2	Ti 334.940†	-1124.8	-78.5	-0.1467 ug/L	-0.1467 ppb	19:00:21
2	Tl 190.801†	-24.1	6.9	2.6392 ug/L	2.6392 ppb	19:00:41
2	U 409.014†	-2215.7	-215.6	-6.5126 ug/L	-6.5126 ppb	19:00:21
2	V 292.402†	-1286.0	-15.2	-0.1294 ug/L	-0.1294 ppb	19:00:21
2	Zn 213.857†	629.2	35.1	0.4220 ug/L	0.4220 ppb	19:00:41
2	SiO2†	583.6	109.5	8.7659 ug/L	8.7659 ppb	19:01:47
3	Sc Radial	4325.8	4325.8	94.3 %		18:59:29
3	Y RADIAL	4674.4	4674.4	94.73 %		18:59:29
3	Al 396.153Radial†	-76.6	4.6	4.3584 ug/L	4.3584 ppb	18:59:49
3	Ca 317.933Radial†	19.6	-7.1	-12.495 ug/L	-12.495 ppb	18:59:49
3	Fe 238.204 Radial†	7.8	0.4	3.7585 ug/L	3.7585 ppb	18:59:49
3	K 766.490 Radial†	2467.6	61.2	11.741 ug/L	11.741 ppb	18:59:29
3	Mg 279.077 IEC†	1.6	1.6	59.798 ug/L	59.798 ppb	18:59:49
3	Na 589.592 Radial†	-859.4	-106.3	-37.249 ug/L	-37.249 ppb	18:59:29
3	Sr 421.552†	28.7	4.6	0.0356 ug/L	0.0356 ppb	18:59:29
3	Sc 361.383	771768.0	771768.0	94.937 %		19:00:46
3	Y 371.029	653624.8	653624.8	94.806 %		19:00:46
3	Ag 328.068†	211.4	12.1	0.0624 ug/L	0.0624 ppb	19:00:46
3	As 188.979†	-16.7	-0.6	-0.3345 ug/L	-0.3345 ppb	19:01:06
3	B 249.677†	-213.7	190.2	5.3248 ug/L	5.3248 ppb	19:01:06
3	Ba 233.527†	23.0	11.8	0.1091 ug/L	0.1091 ppb	19:01:06
3	Be 313.107†	-3647.0	-112.5	-0.0485 ug/L	-0.0485 ppb	19:00:46
3	Cd 226.502†	-172.1	-4.9	-0.0716 ug/L	-0.0716 ppb	19:01:06
3	Co 228.616†	-53.9	-17.0	-0.4406 ug/L	-0.4406 ppb	19:01:06
3	Cr 267.716†	51.8	-25.0	-0.3349 ug/L	-0.3349 ppb	19:01:06
3	Cu 324.752†	5132.9	-59.6	-0.1963 ug/L	-0.1963 ppb	19:00:46
3	Mn 257.610†	432.6	-95.2	-0.1274 ug/L	-0.1274 ppb	19:01:06
3	Mo 202.031†	9.8	-2.6	-0.2250 ug/L	-0.2250 ppb	19:01:06
3	Ni 231.604†	89.2	12.6	0.4003 ug/L	0.4003 ppb	19:01:06
3	P 214.914†	181.0	6.7	5.1244 ug/L	5.1244 ppb	19:01:06
3	Pb 220.353†	-50.3	-10.2	-1.5700 ug/L	-1.5700 ppb	19:01:06
3	S 181.975 Axial†	28.1	-0.6	-1.0698 ug/L	-1.0698 ppb	19:01:06
3	Sb 206.836†	30.0	7.0	2.9341 ug/L	2.9341 ppb	19:01:06
3	Se 196.026†	-18.9	-1.1	-0.8981 ug/L	-0.8981 ppb	19:01:06
3	Si 251.611†	573.5	105.9	3.9872 ug/L	3.9872 ppb	19:01:06
3	Sn 189.927†	13.1	5.8	1.3128 ug/L	1.3128 ppb	19:01:06
3	Ti 334.940†	-1144.3	-118.1	-0.2098 ug/L	-0.2098 ppb	19:00:46
3	Tl 190.801†	-26.6	3.8	1.4609 ug/L	1.4609 ppb	19:01:06
3	U 409.014†	-2021.1	-47.9	-1.4463 ug/L	-1.4463 ppb	19:00:46
3	V 292.402†	-1315.8	-68.3	-0.5503 ug/L	-0.5503 ppb	19:00:46
3	Zn 213.857†	627.9	44.2	0.5316 ug/L	0.5316 ppb	19:01:06
3	SiO2†	603.2	140.0	11.221 ug/L	11.221 ppb	19:02:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	780917.3	96.062 %	0.9857			1.03%
Sc Radial	4320.4	94.2 %	1.49			1.58%
Y 371.029	661018.3	95.878 %	0.9415			0.98%
Y RADIAL	4664.8	94.54 %	1.421			1.50%
Ag 328.068†	-17.8	-0.0887 ug/L	0.16473	-0.0887 ppb	0.16473	185.80%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	5.2	4.8894 ug/L	0.48447	4.8894 ppb	0.48447	9.91%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-0.4	-0.2006 ug/L	0.91722	-0.2006 ppb	0.91722	457.17%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	192.0	5.3723 ug/L	0.22434	5.3723 ppb	0.22434	4.18%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.5	0.0415 ug/L	0.08378	0.0415 ppb	0.08378	202.12%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-104.4	-0.0449 ug/L	0.01551	-0.0449 ppb	0.01551	34.51%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-7.4	-13.035 ug/L	2.5379	-13.035 ppb	2.5379	19.47%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	1.9	0.0268 ug/L	0.11764	0.0268 ppb	0.11764	439.45%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-4.7	-0.1216 ug/L	0.27632	-0.1216 ppb	0.27632	227.28%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-12.4	-0.1648 ug/L	0.16520	-0.1648 ppb	0.16520	100.26%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-112.8	-0.3709 ug/L	0.17663	-0.3709 ppb	0.17663	47.63%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	-0.1	-0.8080 ug/L	16.32874	-0.8080 ppb	16.32874	>999.9%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	69.8	13.400 ug/L	11.3930	13.400 ppb	11.3930	85.03%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	3.0	112.92 ug/L	48.046	112.92 ppb	48.046	42.55%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-107.6	-0.1464 ug/L	0.01639	-0.1464 ppb	0.01639	11.20%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	1.4	0.1191 ug/L	0.30325	0.1191 ppb	0.30325	254.54%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-100.4	-35.187 ug/L	13.1932	-35.187 ppb	13.1932	37.49%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	3.3	0.1058 ug/L	0.26534	0.1058 ppb	0.26534	250.74%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	7.3	5.5795 ug/L	5.57164	5.5795 ppb	5.57164	99.86%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-9.8	-1.5103 ug/L	0.06213	-1.5103 ppb	0.06213	4.11%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-0.0	-0.0618 ug/L	2.56278	-0.0618 ppb	2.56278	>999.9%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.7	3.2142 ug/L	2.58762	3.2142 ppb	2.58762	80.51%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.1	-2.5986 ug/L	1.83986	-2.5986 ppb	1.83986	70.80%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	113.8	4.2801 ug/L	0.32140	4.2801 ppb	0.32140	7.51%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	4.1	0.9133 ug/L	0.34884	0.9133 ppb	0.34884	38.19%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	11.2	0.0858 ug/L	0.08098	0.0858 ppb	0.08098	94.40%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-98.0	-0.1783 ug/L	0.03154	-0.1783 ppb	0.03154	17.69%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	5.8	2.2239 ug/L	0.66165	2.2239 ppb	0.66165	29.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-150.0	-4.5293 ug/L	2.70625	-4.5293 ppb	2.70625	59.75%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-30.7	-0.2495 ug/L	0.26230	-0.2495 ppb	0.26230	105.15%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	40.6	0.4908 ug/L	0.05991	0.4908 ppb	0.05991	12.21%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	117.4	9.3953 ug/L	1.60611	9.3953 ppb	1.60611	17.09%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 9

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/16/2010 19:47:32

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4126.9	4126.9	90.0 %		19:49:44
1	Y RADIAL	4529.0	4529.0	91.79 %		19:49:24
1	Al 396.153Radial†	4894.7	5526.9	5171.3 ug/L	5171.3 ppb	19:49:24
1	Ca 317.933Radial†	2693.9	2966.8	5244.1 ug/L	5244.1 ppb	19:49:44
1	Fe 238.204 Radial†	460.7	504.3	5298.8 ug/L	5298.8 ppb	19:49:44
1	K 766.490 Radial†	27265.5	27753.2	5310.1 ug/L	5310.1 ppb	19:49:24
1	Mg 279.077 IEC†	129.5	143.9	5476.1 ug/L	5476.1 ppb	19:49:44
1	Na 589.592 Radial†	27499.1	31373.7	10993 ug/L	10993 ppb	19:49:24
1	Sr 421.552†	63250.3	70284.6	536.89 ug/L	536.89 ppb	19:49:24
1	Sc 361.383	784481.5	784481.5	96.501 %		19:50:42
1	Y 371.029	655253.4	655253.4	95.042 %		19:50:42
1	Ag 328.068†	94729.5	97954.0	506.05 ug/L	506.05 ppb	19:50:47
1	As 188.979†	859.2	907.4	509.28 ug/L	509.28 ppb	19:51:07
1	B 249.677†	16727.8	17749.8	494.41 ug/L	494.41 ppb	19:50:47
1	Ba 233.527†	52038.0	53912.6	505.73 ug/L	505.73 ppb	19:50:47
1	Be 313.107†	1145310.4	1190571.1	509.33 ug/L	509.33 ppb	19:50:42
1	Cd 226.502†	33496.0	34887.0	505.35 ug/L	505.35 ppb	19:50:47
1	Co 228.616†	19007.6	19736.7	512.86 ug/L	512.86 ppb	19:50:47
1	Cr 267.716†	36639.4	37888.6	509.79 ug/L	509.79 ppb	19:50:47
1	Cu 324.752†	150689.8	150688.0	498.78 ug/L	498.78 ppb	19:50:47
1	Mn 257.610†	371852.0	384785.3	506.92 ug/L	506.92 ppb	19:50:42
1	Mo 202.031†	5577.1	5766.4	507.57 ug/L	507.57 ppb	19:51:07
1	Ni 231.604†	15650.8	16136.9	513.47 ug/L	513.47 ppb	19:50:47
1	P 214.914†	3428.6	3369.0	2439.9 ug/L	2439.9 ppb	19:51:07
1	Pb 220.353†	3158.4	3315.7	512.99 ug/L	512.99 ppb	19:51:07
1	S 181.975 Axial†	572.2	562.8	1003.9 ug/L	1003.9 ppb	19:51:07
1	Sb 206.836†	1177.8	1196.0	513.59 ug/L	513.59 ppb	19:51:07
1	Se 196.026†	565.7	605.0	520.47 ug/L	520.47 ppb	19:51:07
1	Si 251.611†	65191.0	67056.8	2517.3 ug/L	2517.3 ppb	19:50:47
1	Sn 189.927†	2201.3	2273.1	512.43 ug/L	512.43 ppb	19:51:07
1	Ti 334.940†	273667.8	284678.9	491.82 ug/L	491.82 ppb	19:50:47
1	Tl 190.801†	1240.9	1317.7	510.67 ug/L	510.67 ppb	19:51:07
1	U 409.014†	14205.5	16801.6	505.69 ug/L	505.69 ppb	19:50:47
1	V 292.402†	59460.1	62934.0	509.55 ug/L	509.55 ppb	19:50:47
1	Zn 213.857†	41561.1	42451.1	508.11 ug/L	508.11 ppb	19:50:47
1	SiO2†	66218.6	68124.5	5441.8 ug/L	5441.8 ppb	19:52:14
2	Sc Radial	4156.3	4156.3	90.6 %		19:50:09
2	Y RADIAL	4650.2	4650.2	94.24 %		19:49:49
2	Al 396.153Radial†	4999.6	5604.2	5244.4 ug/L	5244.4 ppb	19:49:49
2	Ca 317.933Radial†	2723.3	2978.0	5264.0 ug/L	5264.0 ppb	19:50:09
2	Fe 238.204 Radial†	470.4	511.4	5373.5 ug/L	5373.5 ppb	19:50:09
2	K 766.490 Radial†	27893.7	28232.7	5401.9 ug/L	5401.9 ppb	19:49:49
2	Mg 279.077 IEC†	130.3	143.8	5471.4 ug/L	5471.4 ppb	19:50:09
2	Na 589.592 Radial†	28025.2	31738.7	11121 ug/L	11121 ppb	19:49:49
2	Sr 421.552†	64631.9	71313.4	544.75 ug/L	544.75 ppb	19:49:49
2	Sc 361.383	790757.4	790757.4	97.273 %		19:51:13
2	Y 371.029	659611.9	659611.9	95.674 %		19:51:13
2	Ag 328.068†	96613.5	99111.7	512.04 ug/L	512.04 ppb	19:51:18
2	As 188.979†	852.6	893.6	501.66 ug/L	501.66 ppb	19:51:38
2	B 249.677†	17143.9	18040.0	502.50 ug/L	502.50 ppb	19:51:18
2	Ba 233.527†	53051.5	54526.5	511.49 ug/L	511.49 ppb	19:51:18
2	Be 313.107†	1155920.5	1192059.1	509.98 ug/L	509.98 ppb	19:51:13
2	Cd 226.502†	34167.9	35302.3	511.36 ug/L	511.36 ppb	19:51:18
2	Co 228.616†	19438.4	20023.3	520.27 ug/L	520.27 ppb	19:51:18
2	Cr 267.716†	37208.3	38172.0	513.61 ug/L	513.61 ppb	19:51:18
2	Cu 324.752†	153740.3	152584.6	505.05 ug/L	505.05 ppb	19:51:18
2	Mn 257.610†	375871.0	385858.7	508.34 ug/L	508.34 ppb	19:51:13
2	Mo 202.031†	5523.8	5665.9	498.73 ug/L	498.73 ppb	19:51:38
2	Ni 231.604†	15949.8	16315.6	519.16 ug/L	519.16 ppb	19:51:18

2	P 214.914†	3383.3	3294.2	2382.1 ug/L	2382.1 ppb	19:51:38
2	Pb 220.353†	3151.2	3282.3	507.82 ug/L	507.82 ppb	19:51:38
2	S 181.975 Axial†	565.1	550.8	982.37 ug/L	982.37 ppb	19:51:38
2	Sb 206.836†	1171.8	1180.1	506.63 ug/L	506.63 ppb	19:51:38
2	Se 196.026†	571.2	606.0	521.55 ug/L	521.55 ppb	19:51:38
2	Si 251.611†	66624.4	67994.2	2552.7 ug/L	2552.7 ppb	19:51:18
2	Sn 189.927†	2160.7	2213.3	498.97 ug/L	498.97 ppb	19:51:38
2	Ti 334.940†	279038.1	287949.0	497.46 ug/L	497.46 ppb	19:51:18
2	Tl 190.801†	1235.9	1302.3	504.77 ug/L	504.77 ppb	19:51:38
2	U 409.014†	14609.6	17100.2	514.69 ug/L	514.69 ppb	19:51:18
2	V 292.402†	60684.9	63704.1	515.58 ug/L	515.58 ppb	19:51:18
2	Zn 213.857†	42435.5	43008.2	514.78 ug/L	514.78 ppb	19:51:18
2	SiO2†	66294.0	67657.4	5404.6 ug/L	5404.6 ppb	19:52:19
3	Sc Radial	4147.0	4147.0	90.4 %		19:50:34
3	Y RADIAL	4569.1	4569.1	92.60 %		19:50:14
3	Al 396.153Radial†	4920.0	5528.5	5172.8 ug/L	5172.8 ppb	19:50:14
3	Ca 317.933Radial†	2708.4	2968.4	5246.9 ug/L	5246.9 ppb	19:50:34
3	Fe 238.204 Radial†	462.2	503.4	5290.0 ug/L	5290.0 ppb	19:50:34
3	K 766.490 Radial†	27410.0	27766.4	5312.7 ug/L	5312.7 ppb	19:50:14
3	Mg 279.077 IEC†	128.7	142.3	5413.4 ug/L	5413.4 ppb	19:50:34
3	Na 589.592 Radial†	27484.0	31209.1	10935 ug/L	10935 ppb	19:50:14
3	Sr 421.552†	63477.6	70195.9	536.21 ug/L	536.21 ppb	19:50:14
3	Sc 361.383	784687.5	784687.5	96.526 %		19:51:44
3	Y 371.029	654328.8	654328.8	94.908 %		19:51:44
3	Ag 328.068†	95701.7	98935.5	511.11 ug/L	511.11 ppb	19:51:49
3	As 188.979†	858.4	906.4	508.73 ug/L	508.73 ppb	19:52:09
3	B 249.677†	16987.0	18013.7	501.78 ug/L	501.78 ppb	19:51:49
3	Ba 233.527†	52545.5	54424.1	510.53 ug/L	510.53 ppb	19:51:49
3	Be 313.107†	1146884.4	1191890.1	509.90 ug/L	509.90 ppb	19:51:44
3	Cd 226.502†	33806.8	35199.8	509.89 ug/L	509.89 ppb	19:51:49
3	Co 228.616†	19258.3	19991.3	519.46 ug/L	519.46 ppb	19:51:49
3	Cr 267.716†	36852.2	38099.0	512.62 ug/L	512.62 ppb	19:51:49
3	Cu 324.752†	152656.5	152684.4	505.38 ug/L	505.38 ppb	19:51:49
3	Mn 257.610†	373080.1	385956.4	508.46 ug/L	508.46 ppb	19:51:44
3	Mo 202.031†	5582.6	5770.7	507.94 ug/L	507.94 ppb	19:52:09
3	Ni 231.604†	15778.4	16264.8	517.54 ug/L	517.54 ppb	19:51:49
3	P 214.914†	3426.6	3366.0	2436.3 ug/L	2436.3 ppb	19:52:09
3	Pb 220.353†	3177.0	3334.1	515.83 ug/L	515.83 ppb	19:52:09
3	S 181.975 Axial†	567.1	557.3	994.13 ug/L	994.13 ppb	19:52:09
3	Sb 206.836†	1183.0	1201.0	515.61 ug/L	515.61 ppb	19:52:09
3	Se 196.026†	571.0	610.3	524.87 ug/L	524.87 ppb	19:52:09
3	Si 251.611†	65875.3	67747.9	2543.3 ug/L	2543.3 ppb	19:51:49
3	Sn 189.927†	2182.7	2253.2	507.96 ug/L	507.96 ppb	19:52:09
3	Ti 334.940†	276756.1	287803.9	497.22 ug/L	497.22 ppb	19:51:49
3	Tl 190.801†	1240.4	1316.9	510.36 ug/L	510.36 ppb	19:52:09
3	U 409.014†	14456.7	17058.0	513.43 ug/L	513.43 ppb	19:51:49
3	V 292.402†	60130.0	63611.8	514.98 ug/L	514.98 ppb	19:51:49
3	Zn 213.857†	41975.3	42868.8	513.12 ug/L	513.12 ppb	19:51:49
3	SiO2†	66162.3	68048.1	5435.6 ug/L	5435.6 ppb	19:52:24

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	786642.1	96.766 %	0.4386			0.45%
Sc Radial	4143.4	90.3 %	0.33			0.36%
Y 371.029	656398.0	95.208 %	0.4092			0.43%
Y RADIAL	4582.8	92.88 %	1.251			1.35%
Ag 328.068†	98667.1	509.73 ug/L	3.219	509.73 ppb	3.219	0.63%
QC value within limits for Ag 328.068 Recovery = 101.95%						
Al 396.153Radial†	5553.2	5196.2 ug/L	41.80	5196.2 ppb	41.80	0.80%
QC value within limits for Al 396.153Radial Recovery = 103.92%						
As 188.979†	902.4	506.55 ug/L	4.251	506.55 ppb	4.251	0.84%
QC value within limits for As 188.979 Recovery = 101.31%						
B 249.677†	17934.5	499.56 ug/L	4.476	499.56 ppb	4.476	0.90%
QC value within limits for B 249.677 Recovery = 99.91%						
Ba 233.527†	54287.7	509.25 ug/L	3.086	509.25 ppb	3.086	0.61%
QC value within limits for Ba 233.527 Recovery = 101.85%						
Be 313.107†	1191506.8	509.74 ug/L	0.355	509.74 ppb	0.355	0.07%
QC value within limits for Be 313.107 Recovery = 101.95%						
Ca 317.933Radial†	2971.1	5251.7 ug/L	10.78	5251.7 ppb	10.78	0.21%

QC value within limits for Ca 317.933 Radial Recovery = 105.03%

Cd 226.502†	35129.7	508.87 ug/L	3.134	508.87 ppb	3.134	0.62%
QC value within limits for Cd 226.502 Recovery = 101.77%						
Co 228.616†	19917.1	517.53 ug/L	4.066	517.53 ppb	4.066	0.79%
QC value within limits for Co 228.616 Recovery = 103.51%						
Cr 267.716†	38053.2	512.01 ug/L	1.982	512.01 ppb	1.982	0.39%
QC value within limits for Cr 267.716 Recovery = 102.40%						
Cu 324.752†	151985.7	503.07 ug/L	3.722	503.07 ppb	3.722	0.74%
QC value within limits for Cu 324.752 Recovery = 100.61%						
Fe 238.204 Radial†	506.4	5320.8 ug/L	45.92	5320.8 ppb	45.92	0.86%
QC value within limits for Fe 238.204 Radial Recovery = 106.42%						
K 766.490 Radial†	27917.4	5341.6 ug/L	52.29	5341.6 ppb	52.29	0.98%
QC value within limits for K 766.490 Radial Recovery = 106.83%						
Mg 279.077 IEC†	143.3	5453.6 ug/L	34.93	5453.6 ppb	34.93	0.64%
QC value within limits for Mg 279.077 IEC Recovery = 109.07%						
Mn 257.610†	385533.5	507.90 ug/L	0.858	507.90 ppb	0.858	0.17%
QC value within limits for Mn 257.610 Recovery = 101.58%						
Mo 202.031†	5734.3	504.75 ug/L	5.214	504.75 ppb	5.214	1.03%
QC value within limits for Mo 202.031 Recovery = 100.95%						
Na 589.592 Radial†	31440.5	11016 ug/L	95.0	11016 ppb	95.0	0.86%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 110.16%						
Ni 231.604†	16239.1	516.72 ug/L	2.930	516.72 ppb	2.930	0.57%
QC value within limits for Ni 231.604 Recovery = 103.34%						
P 214.914†	3343.1	2419.4 ug/L	32.36	2419.4 ppb	32.36	1.34%
QC value within limits for P 214.914 Recovery = 96.78%						
Pb 220.353†	3310.7	512.21 ug/L	4.058	512.21 ppb	4.058	0.79%
QC value within limits for Pb 220.353 Recovery = 102.44%						
S 181.975 Axial†	557.0	993.47 ug/L	10.778	993.47 ppb	10.778	1.08%
QC value within limits for S 181.975 Axial Recovery = 99.35%						
Sb 206.836†	1192.4	511.95 ug/L	4.715	511.95 ppb	4.715	0.92%
QC value within limits for Sb 206.836 Recovery = 102.39%						
Se 196.026†	607.1	522.29 ug/L	2.297	522.29 ppb	2.297	0.44%
QC value within limits for Se 196.026 Recovery = 104.46%						
Si 251.611†	67599.6	2537.8 ug/L	18.33	2537.8 ppb	18.33	0.72%
QC value within limits for Si 251.611 Recovery = 101.51%						
Sn 189.927†	2246.5	506.45 ug/L	6.859	506.45 ppb	6.859	1.35%
QC value within limits for Sn 189.927 Recovery = 101.29%						
Sr 421.552†	70598.0	539.28 ug/L	4.745	539.28 ppb	4.745	0.88%
QC value within limits for Sr 421.552 Recovery = 107.86%						
Ti 334.940†	286810.6	495.50 ug/L	3.192	495.50 ppb	3.192	0.64%
QC value within limits for Ti 334.940 Recovery = 99.10%						
Tl 190.801†	1312.3	508.60 ug/L	3.322	508.60 ppb	3.322	0.65%
QC value within limits for Tl 190.801 Recovery = 101.72%						
U 409.014†	16986.6	511.27 ug/L	4.873	511.27 ppb	4.873	0.95%
QC value within limits for U 409.014 Recovery = 102.25%						
V 292.402†	63416.6	513.37 ug/L	3.320	513.37 ppb	3.320	0.65%
QC value within limits for V 292.402 Recovery = 102.67%						
Zn 213.857†	42776.0	512.00 ug/L	3.474	512.00 ppb	3.474	0.68%
QC value within limits for Zn 213.857 Recovery = 102.40%						
SiO2†	67943.4	5427.3 ug/L	19.93	5427.3 ppb	19.93	0.37%
QC value within limits for SiO2 Recovery = 101.49%						

QC Failed. Continue with analysis.

Sequence No.: 10
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 6
 Date Collected: 3/16/2010 19:54:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4234.4	4234.4	92.3 %		19:56:46
1	Y RADIAL	4582.5	4582.5	92.87 %		19:56:26
1	Al 396.153Radial†	-76.3	3.1	2.8993 ug/L	2.8993 ppb	19:56:46
1	Ca 317.933Radial†	17.2	-9.2	-16.292 ug/L	-16.292 ppb	19:56:46
1	Fe 238.204 Radial†	9.1	2.0	21.388 ug/L	21.388 ppb	19:56:46
1	K 766.490 Radial†	2629.1	292.6	56.087 ug/L	56.087 ppb	19:56:26
1	Mg 279.077 IEC†	2.7	2.8	108.27 ug/L	108.27 ppb	19:56:46
1	Na 589.592 Radial†	-922.6	-194.5	-68.154 ug/L	-68.154 ppb	19:56:26
1	Sr 421.552†	13.6	-11.0	-0.0841 ug/L	-0.0841 ppb	19:56:26
1	Sc 361.383	773209.4	773209.4	95.114 %		19:57:43
1	Y 371.029	654176.9	654176.9	94.886 %		19:57:43
1	Ag 328.068†	95.7	-110.0	-0.5541 ug/L	-0.5541 ppb	19:57:43
1	As 188.979†	-21.2	-5.3	-2.9383 ug/L	-2.9383 ppb	19:58:03
1	B 249.677†	-163.7	243.3	6.8050 ug/L	6.8050 ppb	19:58:03
1	Ba 233.527†	13.8	2.0	0.0183 ug/L	0.0183 ppb	19:58:03
1	Be 313.107†	-3659.4	-118.3	-0.0508 ug/L	-0.0508 ppb	19:57:43
1	Cd 226.502†	-171.4	-3.8	-0.0590 ug/L	-0.0590 ppb	19:58:03
1	Co 228.616†	-41.5	-3.8	-0.0967 ug/L	-0.0967 ppb	19:58:03
1	Cr 267.716†	160.6	89.3	1.2034 ug/L	1.2034 ppb	19:58:03
1	Cu 324.752†	5186.2	-13.6	-0.0403 ug/L	-0.0403 ppb	19:57:43
1	Mn 257.610†	395.5	-135.1	-0.1802 ug/L	-0.1802 ppb	19:58:03
1	Mo 202.031†	21.3	9.6	0.8419 ug/L	0.8419 ppb	19:58:03
1	Ni 231.604†	82.8	5.6	0.1778 ug/L	0.1778 ppb	19:58:03
1	P 214.914†	189.5	15.3	11.525 ug/L	11.525 ppb	19:58:03
1	Pb 220.353†	-31.2	10.0	1.5435 ug/L	1.5435 ppb	19:58:03
1	S 181.975 Axial†	34.6	6.3	11.170 ug/L	11.170 ppb	19:58:03
1	Sb 206.836†	23.0	-0.4	-0.1056 ug/L	-0.1056 ppb	19:58:03
1	Se 196.026†	-18.9	-1.0	-0.8059 ug/L	-0.8059 ppb	19:58:03
1	Si 251.611†	573.2	104.4	3.9187 ug/L	3.9187 ppb	19:58:03
1	Sn 189.927†	15.8	8.7	1.9439 ug/L	1.9439 ppb	19:58:03
1	Ti 334.940†	-1115.9	-85.9	-0.1570 ug/L	-0.1570 ppb	19:57:43
1	Tl 190.801†	-18.8	12.0	4.6147 ug/L	4.6147 ppb	19:58:03
1	U 409.014†	-2187.5	-218.8	-6.6141 ug/L	-6.6141 ppb	19:57:43
1	V 292.402†	-1303.0	-52.2	-0.4192 ug/L	-0.4192 ppb	19:57:43
1	Zn 213.857†	671.2	88.5	1.0651 ug/L	1.0651 ppb	19:58:03
1	SiO2†	576.3	110.6	8.8324 ug/L	8.8324 ppb	19:59:14
2	Sc Radial	4260.6	4260.6	92.9 %		19:57:11
2	Y RADIAL	4758.2	4758.2	96.43 %		19:56:51
2	Al 396.153Radial†	-79.9	-0.3	-0.2649 ug/L	-0.2649 ppb	19:57:11
2	Ca 317.933Radial†	15.4	-11.2	-19.835 ug/L	-19.835 ppb	19:57:11
2	Fe 238.204 Radial†	8.3	1.1	11.466 ug/L	11.466 ppb	19:57:11
2	K 766.490 Radial†	2556.6	197.0	37.770 ug/L	37.770 ppb	19:56:51
2	Mg 279.077 IEC†	4.3	4.6	173.14 ug/L	173.14 ppb	19:57:11
2	Na 589.592 Radial†	-907.4	-171.9	-60.245 ug/L	-60.245 ppb	19:56:51
2	Sr 421.552†	45.3	23.0	0.1762 ug/L	0.1762 ppb	19:56:51
2	Sc 361.383	785082.1	785082.1	96.575 %		19:58:08
2	Y 371.029	662874.0	662874.0	96.147 %		19:58:08
2	Ag 328.068†	173.4	-31.1	-0.1515 ug/L	-0.1515 ppb	19:58:08
2	As 188.979†	-18.8	-2.5	-1.3690 ug/L	-1.3690 ppb	19:58:28
2	B 249.677†	-195.8	212.6	5.9478 ug/L	5.9478 ppb	19:58:28
2	Ba 233.527†	5.4	-6.9	-0.0648 ug/L	-0.0648 ppb	19:58:28
2	Be 313.107†	-3752.5	-156.6	-0.0669 ug/L	-0.0669 ppb	19:58:08
2	Cd 226.502†	-168.6	1.7	0.0230 ug/L	0.0230 ppb	19:58:28
2	Co 228.616†	-44.9	-6.6	-0.1719 ug/L	-0.1719 ppb	19:58:28
2	Cr 267.716†	166.3	92.7	1.2482 ug/L	1.2482 ppb	19:58:28
2	Cu 324.752†	5247.6	-32.5	-0.1038 ug/L	-0.1038 ppb	19:58:08
2	Mn 257.610†	413.9	-122.3	-0.1670 ug/L	-0.1670 ppb	19:58:28
2	Mo 202.031†	16.0	3.7	0.3293 ug/L	0.3293 ppb	19:58:28
2	Ni 231.604†	78.3	-0.4	-0.0118 ug/L	-0.0118 ppb	19:58:28

2	P 214.914†	188.7	11.5	8.6740 ug/L	8.6740 ppb	19:58:28
2	Pb 220.353†	-43.4	-2.1	-0.3269 ug/L	-0.3269 ppb	19:58:28
2	S 181.975 Axial†	36.4	7.6	13.495 ug/L	13.495 ppb	19:58:28
2	Sb 206.836†	28.9	5.4	2.2429 ug/L	2.2429 ppb	19:58:28
2	Se 196.026†	-20.1	-2.1	-1.6819 ug/L	-1.6819 ppb	19:58:28
2	Si 251.611†	583.6	106.1	3.9871 ug/L	3.9871 ppb	19:58:28
2	Sn 189.927†	3.9	-3.9	-0.8884 ug/L	-0.8884 ppb	19:58:28
2	Ti 334.940†	-1065.3	-15.8	-0.0421 ug/L	-0.0421 ppb	19:58:08
2	Tl 190.801†	-31.1	-0.5	-0.1743 ug/L	-0.1743 ppb	19:58:28
2	U 409.014†	-2187.4	-184.0	-5.5604 ug/L	-5.5604 ppb	19:58:08
2	V 292.402†	-1282.7	-10.5	-0.0889 ug/L	-0.0889 ppb	19:58:08
2	Zn 213.857†	674.5	81.3	0.9811 ug/L	0.9811 ppb	19:58:28
2	SiO2†	582.2	107.5	8.6027 ug/L	8.6027 ppb	19:59:34
3	Sc Radial	4235.7	4235.7	92.3 %		19:57:36
3	Y RADIAL	4675.8	4675.8	94.76 %		19:57:16
3	Al 396.153Radial†	-81.0	-1.9	-1.8431 ug/L	-1.8431 ppb	19:57:36
3	Ca 317.933Radial†	23.1	-2.8	-5.0096 ug/L	-5.0096 ppb	19:57:36
3	Fe 238.204 Radial†	12.2	5.3	55.616 ug/L	55.616 ppb	19:57:36
3	K 766.490 Radial†	2608.8	269.8	51.722 ug/L	51.722 ppb	19:57:16
3	Mg 279.077 IEC†	3.3	3.5	131.78 ug/L	131.78 ppb	19:57:36
3	Na 589.592 Radial†	-922.2	-193.7	-67.880 ug/L	-67.880 ppb	19:57:16
3	Sr 421.552†	11.2	-13.7	-0.1044 ug/L	-0.1044 ppb	19:57:16
3	Sc 361.383	793626.3	793626.3	97.626 %		19:58:34
3	Y 371.029	669658.7	669658.7	97.131 %		19:58:34
3	Ag 328.068†	132.1	-75.3	-0.3679 ug/L	-0.3679 ppb	19:58:34
3	As 188.979†	-22.7	-6.2	-3.4649 ug/L	-3.4649 ppb	19:58:54
3	B 249.677†	-208.8	201.5	5.6294 ug/L	5.6294 ppb	19:58:54
3	Ba 233.527†	6.3	-6.0	-0.0550 ug/L	-0.0550 ppb	19:58:54
3	Be 313.107†	-3806.4	-170.0	-0.0728 ug/L	-0.0728 ppb	19:58:34
3	Cd 226.502†	-173.1	-1.0	-0.0203 ug/L	-0.0203 ppb	19:58:54
3	Co 228.616†	-42.1	-3.3	-0.0854 ug/L	-0.0854 ppb	19:58:54
3	Cr 267.716†	150.2	74.4	1.0050 ug/L	1.0050 ppb	19:58:54
3	Cu 324.752†	5200.5	-139.3	-0.4567 ug/L	-0.4567 ppb	19:58:34
3	Mn 257.610†	397.4	-143.8	-0.1893 ug/L	-0.1893 ppb	19:58:54
3	Mo 202.031†	15.8	3.4	0.2991 ug/L	0.2991 ppb	19:58:54
3	Ni 231.604†	78.6	-0.9	-0.0299 ug/L	-0.0299 ppb	19:58:54
3	P 214.914†	188.7	9.4	7.1581 ug/L	7.1581 ppb	19:58:54
3	Pb 220.353†	-26.6	15.6	2.3953 ug/L	2.3953 ppb	19:58:54
3	S 181.975 Axial†	31.5	2.1	3.8302 ug/L	3.8302 ppb	19:58:54
3	Sb 206.836†	30.6	6.9	2.8774 ug/L	2.8774 ppb	19:58:54
3	Se 196.026†	-15.6	2.8	2.5157 ug/L	2.5157 ppb	19:58:54
3	Si 251.611†	558.6	73.9	2.7788 ug/L	2.7788 ppb	19:58:54
3	Sn 189.927†	15.2	7.6	1.7146 ug/L	1.7146 ppb	19:58:54
3	Ti 334.940†	-1122.4	-62.4	-0.1186 ug/L	-0.1186 ppb	19:58:34
3	Tl 190.801†	-35.0	-4.1	-1.5678 ug/L	-1.5678 ppb	19:58:54
3	U 409.014†	-2110.4	-80.8	-2.4474 ug/L	-2.4474 ppb	19:58:34
3	V 292.402†	-1305.3	-19.3	-0.1607 ug/L	-0.1607 ppb	19:58:34
3	Zn 213.857†	670.0	69.2	0.8284 ug/L	0.8284 ppb	19:58:54
3	SiO2†	582.3	101.1	8.0878 ug/L	8.0878 ppb	19:59:54

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	783972.6	96.438 %		1.2613			1.31%
Sc Radial	4243.6	92.5 %		0.32			0.35%
Y 371.029	662236.6	96.055 %		1.1256			1.17%
Y RADIAL	4672.2	94.69 %		1.781			1.88%
Ag 328.068†	-72.1	-0.3578 ug/L		0.20150	-0.3578 ppb	0.20150	56.31%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.3	0.2638 ug/L		2.41501	0.2638 ppb	2.41501	915.57%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-4.7	-2.5907 ug/L		1.09031	-2.5907 ppb	1.09031	42.09%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	219.1	6.1274 ug/L		0.60808	6.1274 ppb	0.60808	9.92%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-3.7	-0.0339 ug/L		0.04540	-0.0339 ppb	0.04540	134.11%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-148.3	-0.0635 ug/L		0.01136	-0.0635 ppb	0.01136	17.89%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-7.8	-13.712 ug/L		7.7423	-13.712 ppb	7.7423	56.46%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	-1.0	-0.0188 ug/L	0.04102	-0.0188 ppb	0.04102 218.50%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-4.6	-0.1180 ug/L	0.04700	-0.1180 ppb	0.04700 39.82%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	85.5	1.1522 ug/L	0.12942	1.1522 ppb	0.12942 11.23%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-61.8	-0.2003 ug/L	0.22429	-0.2003 ppb	0.22429 111.99%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	2.8	29.490 ug/L	23.1631	29.490 ppb	23.1631 78.55%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	253.1	48.526 ug/L	9.5672	48.526 ppb	9.5672 19.72%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	3.6	137.73 ug/L	32.842	137.73 ppb	32.842 23.85%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-133.8	-0.1788 ug/L	0.01121	-0.1788 ppb	0.01121 6.27%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	5.5	0.4901 ug/L	0.30506	0.4901 ppb	0.30506 62.25%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-186.7	-65.427 ug/L	4.4893	-65.427 ppb	4.4893 6.86%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	1.4	0.0454 ug/L	0.11504	0.0454 ppb	0.11504 253.58%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	12.1	9.1190 ug/L	2.21717	9.1190 ppb	2.21717 24.31%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	7.8	1.2040 ug/L	1.39250	1.2040 ppb	1.39250 115.66%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	5.3	9.4983 ug/L	5.04455	9.4983 ppb	5.04455 53.11%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	4.0	1.6715 ug/L	1.57142	1.6715 ppb	1.57142 94.01%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-0.1	0.0093 ug/L	2.21434	0.0093 ppb	2.21434 >999.9%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	94.8	3.5615 ug/L	0.67874	3.5615 ppb	0.67874 19.06%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	4.1	0.9234 ug/L	1.57326	0.9234 ppb	1.57326 170.38%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-0.6	-0.0041 ug/L	0.15648	-0.0041 ppb	0.15648 >999.9%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	-54.7	-0.1059 ug/L	0.05849	-0.1059 ppb	0.05849 55.22%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	2.5	0.9575 ug/L	3.24291	0.9575 ppb	3.24291 338.67%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-161.2	-4.8740 ug/L	2.16650	-4.8740 ppb	2.16650 44.45%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-27.4	-0.2229 ug/L	0.17371	-0.2229 ppb	0.17371 77.92%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	79.7	0.9582 ug/L	0.12002	0.9582 ppb	0.12002 12.53%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	106.4	8.5076 ug/L	0.38126	8.5076 ppb	0.38126 4.48%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 19

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/16/2010 20:57:55

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4320.3	4320.3	94.2 %		21:00:07
1	Y RADIAL	4482.8	4482.8	90.85 %		20:59:47
1	Al 396.153Radial†	5198.3	5605.7	5245.2 ug/L	5245.2 ppb	20:59:47
1	Ca 317.933Radial†	2789.2	2933.9	5186.0 ug/L	5186.0 ppb	21:00:07
1	Fe 238.204 Radial†	467.5	488.6	5134.6 ug/L	5134.6 ppb	21:00:07
1	K 766.490 Radial†	28713.4	27934.3	5345.0 ug/L	5345.0 ppb	20:59:47
1	Mg 279.077 IEC†	135.9	144.2	5488.7 ug/L	5488.7 ppb	21:00:07
1	Na 589.592 Radial†	27411.9	29913.0	10481 ug/L	10481 ppb	20:59:47
1	Sr 421.552†	65778.2	69822.3	533.36 ug/L	533.36 ppb	20:59:47
1	Sc 361.383	797651.1	797651.1	98.121 %		21:01:04
1	Y 371.029	665146.1	665146.1	96.477 %		21:01:04
1	Ag 328.068†	98376.3	100049.9	516.80 ug/L	516.80 ppb	21:01:10
1	As 188.979†	891.1	925.2	519.21 ug/L	519.21 ppb	21:01:30
1	B 249.677†	17459.1	18208.8	507.25 ug/L	507.25 ppb	21:01:10
1	Ba 233.527†	54369.6	55398.5	519.66 ug/L	519.66 ppb	21:01:10
1	Be 313.107†	1169027.0	1195146.5	511.31 ug/L	511.31 ppb	21:01:04
1	Cd 226.502†	35082.6	35930.9	520.50 ug/L	520.50 ppb	21:01:10
1	Co 228.616†	19794.4	20213.4	525.23 ug/L	525.23 ppb	21:01:10
1	Cr 267.716†	38063.6	38713.1	520.86 ug/L	520.86 ppb	21:01:10
1	Cu 324.752†	156796.5	154333.4	510.82 ug/L	510.82 ppb	21:01:10
1	Mn 257.610†	379294.0	386007.8	508.51 ug/L	508.51 ppb	21:01:04
1	Mo 202.031†	5710.8	5807.3	511.15 ug/L	511.15 ppb	21:01:30
1	Ni 231.604†	16326.0	16557.3	526.85 ug/L	526.85 ppb	21:01:10
1	P 214.914†	3517.2	3400.6	2461.4 ug/L	2461.4 ppb	21:01:30
1	Pb 220.353†	3199.6	3303.7	511.18 ug/L	511.18 ppb	21:01:30
1	S 181.975 Axial†	593.9	575.1	1025.9 ug/L	1025.9 ppb	21:01:30
1	Sb 206.836†	1213.0	1211.7	520.13 ug/L	520.13 ppb	21:01:30
1	Se 196.026†	584.0	614.0	527.51 ug/L	527.51 ppb	21:01:30
1	Si 251.611†	68170.2	68977.7	2589.6 ug/L	2589.6 ppb	21:01:10
1	Sn 189.927†	2227.9	2262.6	510.06 ug/L	510.06 ppb	21:01:30
1	Ti 334.940†	285459.5	292014.3	504.47 ug/L	504.47 ppb	21:01:10
1	Tl 190.801†	1274.8	1331.0	515.83 ug/L	515.83 ppb	21:01:30
1	U 409.014†	15136.6	17507.5	527.00 ug/L	527.00 ppb	21:01:10
1	V 292.402†	62152.4	64660.5	523.45 ug/L	523.45 ppb	21:01:10
1	Zn 213.857†	43528.0	43744.6	523.66 ug/L	523.66 ppb	21:01:10
1	SiO2†	68866.2	69689.9	5567.0 ug/L	5567.0 ppb	21:02:37
2	Sc Radial	4243.1	4243.1	92.5 %		21:00:32
2	Y RADIAL	4641.9	4641.9	94.07 %		21:00:12
2	Al 396.153Radial†	5152.4	5656.6	5293.4 ug/L	5293.4 ppb	21:00:12
2	Ca 317.933Radial†	2758.2	2954.3	5222.1 ug/L	5222.1 ppb	21:00:32
2	Fe 238.204 Radial†	466.0	496.0	5212.4 ug/L	5212.4 ppb	21:00:32
2	K 766.490 Radial†	28424.3	28176.5	5391.4 ug/L	5391.4 ppb	21:00:12
2	Mg 279.077 IEC†	127.9	138.2	5257.3 ug/L	5257.3 ppb	21:00:32
2	Na 589.592 Radial†	27025.0	30024.4	10520 ug/L	10520 ppb	21:00:12
2	Sr 421.552†	64938.6	70185.6	536.13 ug/L	536.13 ppb	21:00:12
2	Sc 361.383	803419.7	803419.7	98.830 %		21:01:35
2	Y 371.029	668867.6	668867.6	97.017 %		21:01:35
2	Ag 328.068†	98254.4	99206.6	512.47 ug/L	512.47 ppb	21:01:41
2	As 188.979†	891.4	919.0	515.77 ug/L	515.77 ppb	21:02:01
2	B 249.677†	17498.6	18121.1	504.79 ug/L	504.79 ppb	21:01:41
2	Ba 233.527†	53999.3	54626.0	512.42 ug/L	512.42 ppb	21:01:41
2	Be 313.107†	1181319.5	1199030.1	512.95 ug/L	512.95 ppb	21:01:35
2	Cd 226.502†	34811.8	35400.2	512.80 ug/L	512.80 ppb	21:01:41
2	Co 228.616†	19773.4	20047.3	520.91 ug/L	520.91 ppb	21:01:41
2	Cr 267.716†	37844.3	38212.7	514.14 ug/L	514.14 ppb	21:01:41
2	Cu 324.752†	156894.4	153285.0	507.36 ug/L	507.36 ppb	21:01:41
2	Mn 257.610†	383060.2	387043.0	509.89 ug/L	509.89 ppb	21:01:35
2	Mo 202.031†	5667.2	5721.5	503.60 ug/L	503.60 ppb	21:02:01
2	Ni 231.604†	16226.8	16337.4	519.85 ug/L	519.85 ppb	21:01:41

2	P 214.914†	3505.3	3362.9	2433.5 ug/L	2433.5 ppb	21:02:01
2	Pb 220.353†	3196.1	3276.8	507.01 ug/L	507.01 ppb	21:02:01
2	S 181.975 Axial†	572.3	548.9	979.14 ug/L	979.14 ppb	21:02:01
2	Sb 206.836†	1213.5	1203.4	516.38 ug/L	516.38 ppb	21:02:01
2	Se 196.026†	582.4	608.1	522.79 ug/L	522.79 ppb	21:02:01
2	Si 251.611†	68102.4	68410.2	2568.3 ug/L	2568.3 ppb	21:01:41
2	Sn 189.927†	2204.3	2222.4	501.02 ug/L	501.02 ppb	21:02:01
2	Ti 334.940†	284182.4	288633.2	498.65 ug/L	498.65 ppb	21:01:41
2	Tl 190.801†	1263.3	1310.1	507.76 ug/L	507.76 ppb	21:02:01
2	U 409.014†	15142.7	17402.9	523.85 ug/L	523.85 ppb	21:01:41
2	V 292.402†	61759.4	63808.0	516.52 ug/L	516.52 ppb	21:01:41
2	Zn 213.857†	43325.5	43221.2	517.37 ug/L	517.37 ppb	21:01:41
2	SiO2†	68756.2	69074.6	5518.0 ug/L	5518.0 ppb	21:02:42
3	Sc Radial	4264.0	4264.0	92.9 %		21:00:57
3	Y RADIAL	4641.8	4641.8	94.07 %		21:00:37
3	Al 396.153Radial†	5076.2	5547.2	5192.2 ug/L	5192.2 ppb	21:00:37
3	Ca 317.933Radial†	2810.3	2995.7	5295.2 ug/L	5295.2 ppb	21:00:57
3	Fe 238.204 Radial†	477.0	505.3	5309.0 ug/L	5309.0 ppb	21:00:57
3	K 766.490 Radial†	27962.8	27528.9	5267.5 ug/L	5267.5 ppb	21:00:37
3	Mg 279.077 IEC†	131.4	141.3	5377.6 ug/L	5377.6 ppb	21:00:57
3	Na 589.592 Radial†	26417.5	29227.1	10241 ug/L	10241 ppb	21:00:37
3	Sr 421.552†	63732.7	68542.8	523.58 ug/L	523.58 ppb	21:00:37
3	Sc 361.383	861160.3	861160.3	105.93 %		21:02:06
3	Y 371.029	716873.3	716873.3	103.98 %		21:02:06
3	Ag 328.068†	98627.4	92892.9	479.99 ug/L	479.99 ppb	21:02:12
3	As 188.979†	880.7	848.4	476.29 ug/L	476.29 ppb	21:02:32
3	B 249.677†	17502.5	16937.6	471.75 ug/L	471.75 ppb	21:02:12
3	Ba 233.527†	54272.8	51220.6	480.49 ug/L	480.49 ppb	21:02:12
3	Be 313.107†	1153218.1	1092358.0	467.35 ug/L	467.35 ppb	21:02:06
3	Cd 226.502†	34902.9	33124.4	479.79 ug/L	479.79 ppb	21:02:12
3	Co 228.616†	19825.6	18755.1	487.32 ug/L	487.32 ppb	21:02:12
3	Cr 267.716†	37879.5	35678.5	480.09 ug/L	480.09 ppb	21:02:12
3	Cu 324.752†	157230.8	142958.4	473.20 ug/L	473.20 ppb	21:02:12
3	Mn 257.610†	375005.4	353451.2	465.67 ug/L	465.67 ppb	21:02:06
3	Mo 202.031†	5659.8	5330.0	469.19 ug/L	469.19 ppb	21:02:32
3	Ni 231.604†	16240.0	15249.0	485.22 ug/L	485.22 ppb	21:02:12
3	P 214.914†	3496.5	3116.8	2254.6 ug/L	2254.6 ppb	21:02:32
3	Pb 220.353†	3196.1	3059.8	473.44 ug/L	473.44 ppb	21:02:32
3	S 181.975 Axial†	584.3	521.4	930.02 ug/L	930.02 ppb	21:02:32
3	Sb 206.836†	1209.0	1116.8	479.30 ug/L	479.30 ppb	21:02:32
3	Se 196.026†	582.3	568.4	490.04 ug/L	490.04 ppb	21:02:32
3	Si 251.611†	68274.1	63952.0	2400.9 ug/L	2400.9 ppb	21:02:12
3	Sn 189.927†	2205.8	2074.2	467.66 ug/L	467.66 ppb	21:02:32
3	Ti 334.940†	285078.9	270199.5	466.83 ug/L	466.83 ppb	21:02:12
3	Tl 190.801†	1267.9	1228.7	476.17 ug/L	476.17 ppb	21:02:32
3	U 409.014†	14980.6	16222.5	488.26 ug/L	488.26 ppb	21:02:12
3	V 292.402†	61937.4	59786.1	483.86 ug/L	483.86 ppb	21:02:12
3	Zn 213.857†	43426.3	40377.0	483.26 ug/L	483.26 ppb	21:02:12
3	SiO2†	69098.6	64733.2	5171.2 ug/L	5171.2 ppb	21:02:47

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820743.7	100.96 %	4.320			4.28%
Sc Radial	4275.8	93.2 %	0.87			0.93%
Y 371.029	683629.0	99.158 %	4.1847			4.22%
Y RADIAL	4588.8	93.00 %	1.861			2.00%
Ag 328.068†	97383.1	503.09 ug/L	20.122	503.09 ppb	20.122	4.00%
QC value within limits for Ag 328.068 Recovery = 100.62%						
Al 396.153Radial†	5603.1	5243.6 ug/L	50.61	5243.6 ppb	50.61	0.97%
QC value within limits for Al 396.153Radial Recovery = 104.87%						
As 188.979†	897.5	503.76 ug/L	23.849	503.76 ppb	23.849	4.73%
QC value within limits for As 188.979 Recovery = 100.75%						
B 249.677†	17755.8	494.59 ug/L	19.823	494.59 ppb	19.823	4.01%
QC value within limits for B 249.677 Recovery = 98.92%						
Ba 233.527†	53748.3	504.19 ug/L	20.843	504.19 ppb	20.843	4.13%
QC value within limits for Ba 233.527 Recovery = 100.84%						
Be 313.107†	1162178.2	497.20 ug/L	25.869	497.20 ppb	25.869	5.20%
QC value within limits for Be 313.107 Recovery = 99.44%						
Ca 317.933Radial†	2961.3	5234.4 ug/L	55.63	5234.4 ppb	55.63	1.06%

QC value within limits for Ca 317.933 Radial Recovery = 104.69%

Cd 226.502†	34818.5	504.36 ug/L	21.629	504.36 ppb	21.629	4.29%
QC value within limits for Cd 226.502 Recovery = 100.87%						
Co 228.616†	19671.9	511.15 ug/L	20.753	511.15 ppb	20.753	4.06%
QC value within limits for Co 228.616 Recovery = 102.23%						
Cr 267.716†	37534.7	505.03 ug/L	21.857	505.03 ppb	21.857	4.33%
QC value within limits for Cr 267.716 Recovery = 101.01%						
Cu 324.752†	150192.3	497.13 ug/L	20.792	497.13 ppb	20.792	4.18%
QC value within limits for Cu 324.752 Recovery = 99.43%						
Fe 238.204 Radial†	496.6	5218.6 ug/L	87.39	5218.6 ppb	87.39	1.67%
QC value within limits for Fe 238.204 Radial Recovery = 104.37%						
K 766.490 Radial†	27879.9	5334.6 ug/L	62.62	5334.6 ppb	62.62	1.17%
QC value within limits for K 766.490 Radial Recovery = 106.69%						
Mg 279.077 IEC†	141.2	5374.6 ug/L	115.69	5374.6 ppb	115.69	2.15%
QC value within limits for Mg 279.077 IEC Recovery = 107.49%						
Mn 257.610†	375500.7	494.69 ug/L	25.143	494.69 ppb	25.143	5.08%
QC value within limits for Mn 257.610 Recovery = 98.94%						
Mo 202.031†	5619.6	494.65 ug/L	22.369	494.65 ppb	22.369	4.52%
QC value within limits for Mo 202.031 Recovery = 98.93%						
Na 589.592 Radial†	29721.5	10414 ug/L	151.3	10414 ppb	151.3	1.45%
QC value within limits for Na 589.592 Radial Recovery = 104.14%						
Ni 231.604†	16047.9	510.64 ug/L	22.293	510.64 ppb	22.293	4.37%
QC value within limits for Ni 231.604 Recovery = 102.13%						
P 214.914†	3293.4	2383.2 ug/L	112.23	2383.2 ppb	112.23	4.71%
QC value within limits for P 214.914 Recovery = 95.33%						
Pb 220.353†	3213.4	497.21 ug/L	20.689	497.21 ppb	20.689	4.16%
QC value within limits for Pb 220.353 Recovery = 99.44%						
S 181.975 Axial†	548.5	978.35 ug/L	47.934	978.35 ppb	47.934	4.90%
QC value within limits for S 181.975 Axial Recovery = 97.83%						
Sb 206.836†	1177.3	505.27 ug/L	22.571	505.27 ppb	22.571	4.47%
QC value within limits for Sb 206.836 Recovery = 101.05%						
Se 196.026†	596.8	513.45 ug/L	20.407	513.45 ppb	20.407	3.97%
QC value within limits for Se 196.026 Recovery = 102.69%						
Si 251.611†	67113.3	2519.6 ug/L	103.31	2519.6 ppb	103.31	4.10%
QC value within limits for Si 251.611 Recovery = 100.78%						
Sn 189.927†	2186.4	492.92 ug/L	22.332	492.92 ppb	22.332	4.53%
QC value within limits for Sn 189.927 Recovery = 98.58%						
Sr 421.552†	69516.9	531.02 ug/L	6.592	531.02 ppb	6.592	1.24%
QC value within limits for Sr 421.552 Recovery = 106.20%						
Ti 334.940†	283615.7	489.98 ug/L	20.264	489.98 ppb	20.264	4.14%
QC value within limits for Ti 334.940 Recovery = 98.00%						
Tl 190.801†	1289.9	499.92 ug/L	20.962	499.92 ppb	20.962	4.19%
QC value within limits for Tl 190.801 Recovery = 99.98%						
U 409.014†	17044.3	513.04 ug/L	21.513	513.04 ppb	21.513	4.19%
QC value within limits for U 409.014 Recovery = 102.61%						
V 292.402†	62751.5	507.94 ug/L	21.138	507.94 ppb	21.138	4.16%
QC value within limits for V 292.402 Recovery = 101.59%						
Zn 213.857†	42447.6	508.10 ug/L	21.735	508.10 ppb	21.735	4.28%
QC value within limits for Zn 213.857 Recovery = 101.62%						
SiO2†	67832.6	5418.7 ug/L	215.75	5418.7 ppb	215.75	3.98%
QC value within limits for SiO2 Recovery = 101.33%						

All analyte(s) passed QC.

Sequence No.: 20

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/16/2010 21:04:57

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4374.4	4374.4	95.4 %		21:06:49
1	Y RADIAL	4730.7	4730.7	95.87 %		21:06:49
1	Al 396.153Radial†	-78.7	3.3	3.0808 ug/L	3.0808 ppb	21:07:09
1	Ca 317.933Radial†	19.0	-7.9	-13.921 ug/L	-13.921 ppb	21:07:09
1	Fe 238.204 Radial†	10.1	2.7	28.716 ug/L	28.716 ppb	21:07:09
1	K 766.490 Radial†	2530.0	97.6	18.720 ug/L	18.720 ppb	21:06:49
1	Mg 279.077 IEC†	1.9	1.9	73.056 ug/L	73.056 ppb	21:07:09
1	Na 589.592 Radial†	-928.0	-168.1	-58.915 ug/L	-58.915 ppb	21:06:49
1	Sr 421.552†	3.0	-22.6	-0.1729 ug/L	-0.1729 ppb	21:06:49
1	Sc 361.383	792653.8	792653.8	97.506 %		21:08:06
1	Y 371.029	669478.7	669478.7	97.105 %		21:08:06
1	Ag 328.068†	130.5	-76.7	-0.3838 ug/L	-0.3838 ppb	21:08:06
1	As 188.979†	-24.1	-7.7	-4.2630 ug/L	-4.2630 ppb	21:08:26
1	B 249.677†	-217.0	192.9	5.3923 ug/L	5.3923 ppb	21:08:26
1	Ba 233.527†	5.2	-7.2	-0.0670 ug/L	-0.0670 ppb	21:08:26
1	Be 313.107†	-3750.6	-117.5	-0.0506 ug/L	-0.0506 ppb	21:08:06
1	Cd 226.502†	-164.3	7.8	0.1098 ug/L	0.1098 ppb	21:08:26
1	Co 228.616†	-39.0	-0.2	-0.0063 ug/L	-0.0063 ppb	21:08:26
1	Cr 267.716†	72.1	-5.6	-0.0720 ug/L	-0.0720 ppb	21:08:26
1	Cu 324.752†	5272.5	-58.8	-0.1920 ug/L	-0.1920 ppb	21:08:06
1	Mn 257.610†	439.5	-100.2	-0.1321 ug/L	-0.1321 ppb	21:08:26
1	Mo 202.031†	8.1	-4.5	-0.3928 ug/L	-0.3928 ppb	21:08:26
1	Ni 231.604†	86.0	6.8	0.2152 ug/L	0.2152 ppb	21:08:26
1	P 214.914†	186.5	7.3	5.5362 ug/L	5.5362 ppb	21:08:26
1	Pb 220.353†	-38.3	3.6	0.5433 ug/L	0.5433 ppb	21:08:26
1	S 181.975 Axial†	32.9	3.6	6.4210 ug/L	6.4210 ppb	21:08:26
1	Sb 206.836†	32.0	8.3	3.4445 ug/L	3.4445 ppb	21:08:26
1	Se 196.026†	-16.1	2.3	1.9554 ug/L	1.9554 ppb	21:08:26
1	Si 251.611†	635.2	153.3	5.7732 ug/L	5.7732 ppb	21:08:26
1	Sn 189.927†	9.2	1.5	0.3307 ug/L	0.3307 ppb	21:08:26
1	Ti 334.940†	-1159.7	-102.0	-0.1832 ug/L	-0.1832 ppb	21:08:06
1	Tl 190.801†	-27.7	3.3	1.2878 ug/L	1.2878 ppb	21:08:26
1	U 409.014†	-2097.3	-70.0	-2.1163 ug/L	-2.1163 ppb	21:08:06
1	V 292.402†	-1307.7	-23.5	-0.1998 ug/L	-0.1998 ppb	21:08:06
1	Zn 213.857†	713.8	114.9	1.3827 ug/L	1.3827 ppb	21:08:26
1	SiO2†	629.8	150.6	12.071 ug/L	12.071 ppb	21:09:37
2	Sc Radial	4595.1	4595.1	100 %		21:07:14
2	Y RADIAL	4933.0	4933.0	99.97 %		21:07:14
2	Al 396.153Radial†	-69.7	16.2	15.247 ug/L	15.247 ppb	21:07:34
2	Ca 317.933Radial†	20.6	-7.3	-12.877 ug/L	-12.877 ppb	21:07:34
2	Fe 238.204 Radial†	9.8	1.9	20.304 ug/L	20.304 ppb	21:07:34
2	K 766.490 Radial†	2625.1	65.1	12.496 ug/L	12.496 ppb	21:07:14
2	Mg 279.077 IEC†	-1.1	-1.2	-45.806 ug/L	-45.806 ppb	21:07:34
2	Na 589.592 Radial†	-926.7	-120.1	-42.079 ug/L	-42.079 ppb	21:07:14
2	Sr 421.552†	38.5	12.7	0.0969 ug/L	0.0969 ppb	21:07:14
2	Sc 361.383	787840.1	787840.1	96.914 %		21:08:31
2	Y 371.029	665274.3	665274.3	96.495 %		21:08:31
2	Ag 328.068†	262.4	60.2	0.3192 ug/L	0.3192 ppb	21:08:31
2	As 188.979†	-30.4	-14.3	-7.9507 ug/L	-7.9507 ppb	21:08:51
2	B 249.677†	-229.9	178.1	4.9813 ug/L	4.9813 ppb	21:08:51
2	Ba 233.527†	5.8	-6.5	-0.0603 ug/L	-0.0603 ppb	21:08:51
2	Be 313.107†	-3739.2	-129.3	-0.0557 ug/L	-0.0557 ppb	21:08:31
2	Cd 226.502†	-173.5	-2.7	-0.0424 ug/L	-0.0424 ppb	21:08:51
2	Co 228.616†	-43.8	-5.3	-0.1377 ug/L	-0.1377 ppb	21:08:51
2	Cr 267.716†	71.8	-5.5	-0.0696 ug/L	-0.0696 ppb	21:08:51
2	Cu 324.752†	5289.5	-8.3	-0.0235 ug/L	-0.0235 ppb	21:08:31
2	Mn 257.610†	447.7	-89.0	-0.1133 ug/L	-0.1133 ppb	21:08:51
2	Mo 202.031†	13.3	0.9	0.0834 ug/L	0.0834 ppb	21:08:51
2	Ni 231.604†	93.5	15.1	0.4809 ug/L	0.4809 ppb	21:08:51

2	P 214.914†	193.5	15.7	11.852 ug/L	11.852 ppb	21:08:51
2	Pb 220.353†	-34.6	7.1	1.0946 ug/L	1.0946 ppb	21:08:51
2	S 181.975 Axial†	33.5	4.4	7.7895 ug/L	7.7895 ppb	21:08:51
2	Sb 206.836†	28.6	5.0	2.0827 ug/L	2.0827 ppb	21:08:51
2	Se 196.026†	-19.9	-1.8	-1.4105 ug/L	-1.4105 ppb	21:08:51
2	Si 251.611†	606.6	127.7	4.8059 ug/L	4.8059 ppb	21:08:51
2	Sn 189.927†	9.2	1.5	0.3349 ug/L	0.3349 ppb	21:08:51
2	Ti 334.940†	-1171.9	-121.9	-0.2064 ug/L	-0.2064 ppb	21:08:31
2	Tl 190.801†	-25.6	5.4	2.0780 ug/L	2.0780 ppb	21:08:51
2	U 409.014†	-2182.9	-171.5	-5.1802 ug/L	-5.1802 ppb	21:08:31
2	V 292.402†	-1289.3	-12.7	-0.1135 ug/L	-0.1135 ppb	21:08:31
2	Zn 213.857†	712.6	118.1	1.4211 ug/L	1.4211 ppb	21:08:51
2	SiO2†	609.5	133.6	10.697 ug/L	10.697 ppb	21:09:57
3	Sc Radial	4518.7	4518.7	98.5 %		21:07:39
3	Y RADIAL	4847.8	4847.8	98.25 %		21:07:39
3	Al 396.153Radial†	-75.6	9.1	8.5825 ug/L	8.5825 ppb	21:07:59
3	Ca 317.933Radial†	22.0	-5.5	-9.6929 ug/L	-9.6929 ppb	21:07:59
3	Fe 238.204 Radial†	6.5	-1.2	-12.892 ug/L	-12.892 ppb	21:07:59
3	K 766.490 Radial†	2591.2	74.9	14.370 ug/L	14.370 ppb	21:07:39
3	Mg 279.077 IEC†	-1.4	-1.5	-55.600 ug/L	-55.600 ppb	21:07:59
3	Na 589.592 Radial†	-908.4	-117.1	-41.040 ug/L	-41.040 ppb	21:07:39
3	Sr 421.552†	5.8	-19.9	-0.1517 ug/L	-0.1517 ppb	21:07:39
3	Sc 361.383	789171.1	789171.1	97.078 %		21:08:56
3	Y 371.029	665630.5	665630.5	96.547 %		21:08:56
3	Ag 328.068†	228.6	24.9	0.1252 ug/L	0.1252 ppb	21:08:56
3	As 188.979†	-20.5	-4.0	-2.2471 ug/L	-2.2471 ppb	21:09:16
3	B 249.677†	-228.7	179.8	5.0341 ug/L	5.0341 ppb	21:09:16
3	Ba 233.527†	7.4	-4.9	-0.0472 ug/L	-0.0472 ppb	21:09:16
3	Be 313.107†	-3758.5	-142.6	-0.0609 ug/L	-0.0609 ppb	21:08:56
3	Cd 226.502†	-152.7	19.0	0.2768 ug/L	0.2768 ppb	21:09:16
3	Co 228.616†	-42.2	-3.6	-0.0958 ug/L	-0.0958 ppb	21:09:16
3	Cr 267.716†	75.7	-1.5	-0.0208 ug/L	-0.0208 ppb	21:09:16
3	Cu 324.752†	5254.3	-53.8	-0.1767 ug/L	-0.1767 ppb	21:08:56
3	Mn 257.610†	446.7	-90.8	-0.1186 ug/L	-0.1186 ppb	21:09:16
3	Mo 202.031†	5.3	-7.4	-0.6488 ug/L	-0.6488 ppb	21:09:16
3	Ni 231.604†	92.7	14.0	0.4467 ug/L	0.4467 ppb	21:09:16
3	P 214.914†	190.4	12.3	9.2737 ug/L	9.2737 ppb	21:09:16
3	Pb 220.353†	-56.5	-15.4	-2.3797 ug/L	-2.3797 ppb	21:09:16
3	S 181.975 Axial†	32.0	2.8	4.9605 ug/L	4.9605 ppb	21:09:16
3	Sb 206.836†	27.4	3.7	1.4865 ug/L	1.4865 ppb	21:09:16
3	Se 196.026†	-18.8	-0.6	-0.5163 ug/L	-0.5163 ppb	21:09:16
3	Si 251.611†	604.2	124.2	4.6804 ug/L	4.6804 ppb	21:09:16
3	Sn 189.927†	2.5	-5.4	-1.2197 ug/L	-1.2197 ppb	21:09:16
3	Ti 334.940†	-1059.0	-3.5	-0.0013 ug/L	-0.0013 ppb	21:08:56
3	Tl 190.801†	-24.6	6.4	2.4792 ug/L	2.4792 ppb	21:09:16
3	U 409.014†	-2136.6	-119.9	-3.6187 ug/L	-3.6187 ppb	21:08:56
3	V 292.402†	-1331.2	-53.6	-0.4432 ug/L	-0.4432 ppb	21:08:56
3	Zn 213.857†	692.4	96.2	1.1609 ug/L	1.1609 ppb	21:09:16
3	SiO2†	625.9	149.4	11.984 ug/L	11.984 ppb	21:10:17

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	789888.3	97.166 %		0.3058			0.31%
Sc Radial	4496.1	98.0 %		2.44			2.49%
Y 371.029	666794.5	96.716 %		0.3382			0.35%
Y RADIAL	4837.2	98.03 %		2.059			2.10%
Ag 328.068†	2.8	0.0202 ug/L		0.36310	0.0202 ppb	0.36310	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	9.5	8.9699 ug/L		6.09212	8.9699 ppb	6.09212	67.92%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-8.7	-4.8203 ug/L		2.89231	-4.8203 ppb	2.89231	60.00%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	183.6	5.1359 ug/L		0.22365	5.1359 ppb	0.22365	4.35%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-6.2	-0.0582 ug/L		0.01008	-0.0582 ppb	0.01008	17.33%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-129.8	-0.0557 ug/L		0.00516	-0.0557 ppb	0.00516	9.26%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-6.9	-12.164 ug/L		2.2025	-12.164 ppb	2.2025	18.11%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	8.0	0.1147 ug/L	0.15963	0.1147 ppb		0.15963	139.15%
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-3.1	-0.0799 ug/L	0.06711	-0.0799 ppb		0.06711	83.99%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-4.2	-0.0541 ug/L	0.02889	-0.0541 ppb		0.02889	53.38%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-40.3	-0.1307 ug/L	0.09318	-0.1307 ppb		0.09318	71.27%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.1	12.043 ug/L	22.0001	12.043 ppb		22.0001	182.69%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	79.2	15.195 ug/L	3.1931	15.195 ppb		3.1931	21.01%
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	-0.2	-9.4498 ug/L	71.61966	-9.4498 ppb		71.61966	757.90%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-93.3	-0.1213 ug/L	0.00970	-0.1213 ppb		0.00970	7.99%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-3.6	-0.3194 ug/L	0.37159	-0.3194 ppb		0.37159	116.34%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-135.1	-47.345 ug/L	10.0335	-47.345 ppb		10.0335	21.19%
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	12.0	0.3809 ug/L	0.14451	0.3809 ppb		0.14451	37.94%
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	11.8	8.8872 ug/L	3.17538	8.8872 ppb		3.17538	35.73%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-1.6	-0.2473 ug/L	1.86721	-0.2473 ppb		1.86721	755.17%
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	3.6	6.3904 ug/L	1.41475	6.3904 ppb		1.41475	22.14%
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	5.7	2.3379 ug/L	1.00362	2.3379 ppb		1.00362	42.93%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-0.0	0.0095 ug/L	1.74345	0.0095 ppb		1.74345	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	135.1	5.0865 ug/L	0.59797	5.0865 ppb		0.59797	11.76%
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-0.8	-0.1847 ug/L	0.89635	-0.1847 ppb		0.89635	485.27%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	-9.9	-0.0759 ug/L	0.14999	-0.0759 ppb		0.14999	197.63%
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-75.8	-0.1303 ug/L	0.11231	-0.1303 ppb		0.11231	86.20%
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	5.1	1.9483 ug/L	0.60617	1.9483 ppb		0.60617	31.11%
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-120.4	-3.6384 ug/L	1.53206	-3.6384 ppb		1.53206	42.11%
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-29.9	-0.2522 ug/L	0.17098	-0.2522 ppb		0.17098	67.80%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	109.7	1.3216 ug/L	0.14044	1.3216 ppb		0.14044	10.63%
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	144.5	11.584 ug/L	0.7695	11.584 ppb		0.7695	6.64%
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 28

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/16/2010 22:01:08

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4248.7	4248.7	92.6	%		22:03:20
1	Y RADIAL	4542.0	4542.0	92.05	%		22:03:00
1	Al 396.153Radial†	4945.6	5425.8	5076.8	ug/L	5076.8 ppb	22:03:00
1	Ca 317.933Radial†	2793.2	2988.1	5281.9	ug/L	5281.9 ppb	22:03:20
1	Fe 238.204 Radial†	471.3	501.1	5265.4	ug/L	5265.4 ppb	22:03:20
1	K 766.490 Radial†	27149.9	26759.6	5120.1	ug/L	5120.1 ppb	22:03:00
1	Mg 279.077 IEC†	132.9	143.4	5457.9	ug/L	5457.9 ppb	22:03:20
1	Na 589.592 Radial†	26228.0	29125.0	10205	ug/L	10205 ppb	22:03:00
1	Sr 421.552†	62450.2	67405.2	514.89	ug/L	514.89 ppb	22:03:00
1	Sc 361.383	810425.1	810425.1	99.692	%		22:04:17
1	Y 371.029	675223.8	675223.8	97.939	%		22:04:17
1	Ag 328.068†	97685.7	97776.9	505.13	ug/L	505.13 ppb	22:04:23
1	As 188.979†	877.9	897.7	503.86	ug/L	503.86 ppb	22:04:43
1	B 249.677†	17345.5	17814.4	496.22	ug/L	496.22 ppb	22:04:23
1	Ba 233.527†	53605.3	53758.4	504.29	ug/L	504.29 ppb	22:04:23
1	Be 313.107†	1187997.2	1195396.0	511.39	ug/L	511.39 ppb	22:04:17
1	Cd 226.502†	34536.3	34819.4	504.37	ug/L	504.37 ppb	22:04:23
1	Co 228.616†	19647.2	19747.7	513.12	ug/L	513.12 ppb	22:04:23
1	Cr 267.716†	37628.9	37665.6	506.80	ug/L	506.80 ppb	22:04:23
1	Cu 324.752†	155882.1	150897.4	499.46	ug/L	499.46 ppb	22:04:23
1	Mn 257.610†	384460.3	385097.0	507.32	ug/L	507.32 ppb	22:04:17
1	Mo 202.031†	5647.2	5651.8	497.49	ug/L	497.49 ppb	22:04:43
1	Ni 231.604†	16174.4	16143.0	513.67	ug/L	513.67 ppb	22:04:23
1	P 214.914†	3478.3	3305.2	2391.5	ug/L	2391.5 ppb	22:04:43
1	Pb 220.353†	3193.0	3245.6	502.14	ug/L	502.14 ppb	22:04:43
1	S 181.975 Axial†	571.1	542.7	967.97	ug/L	967.97 ppb	22:04:43
1	Sb 206.836†	1208.1	1187.3	509.55	ug/L	509.55 ppb	22:04:43
1	Se 196.026†	579.5	600.1	516.23	ug/L	516.23 ppb	22:04:43
1	Si 251.611†	67403.1	67113.1	2519.5	ug/L	2519.5 ppb	22:04:23
1	Sn 189.927†	2205.8	2204.6	497.03	ug/L	497.03 ppb	22:04:43
1	Ti 334.940†	282421.3	284381.0	491.31	ug/L	491.31 ppb	22:04:23
1	Tl 190.801†	1268.5	1304.2	505.48	ug/L	505.48 ppb	22:04:43
1	U 409.014†	14883.3	17010.2	512.00	ug/L	512.00 ppb	22:04:23
1	V 292.402†	61580.2	63088.2	510.66	ug/L	510.66 ppb	22:04:23
1	Zn 213.857†	43042.6	42558.4	509.41	ug/L	509.41 ppb	22:04:23
1	SiO2†	67905.8	67620.3	5401.6	ug/L	5401.6 ppb	22:05:50
2	Sc Radial	4166.8	4166.8	90.8	%		22:03:45
2	Y RADIAL	4318.0	4318.0	87.51	%		22:03:25
2	Al 396.153Radial†	5095.3	5695.7	5329.9	ug/L	5329.9 ppb	22:03:25
2	Ca 317.933Radial†	2792.8	3047.0	5385.9	ug/L	5385.9 ppb	22:03:45
2	Fe 238.204 Radial†	470.9	510.6	5365.0	ug/L	5365.0 ppb	22:03:45
2	K 766.490 Radial†	27927.2	28191.8	5394.2	ug/L	5394.2 ppb	22:03:25
2	Mg 279.077 IEC†	135.6	149.2	5679.2	ug/L	5679.2 ppb	22:03:45
2	Na 589.592 Radial†	27223.9	30778.3	10784	ug/L	10784 ppb	22:03:25
2	Sr 421.552†	64540.9	71033.0	542.60	ug/L	542.60 ppb	22:03:25
2	Sc 361.383	796250.6	796250.6	97.948	%		22:04:48
2	Y 371.029	663818.9	663818.9	96.284	%		22:04:48
2	Ag 328.068†	97722.0	99558.3	514.34	ug/L	514.34 ppb	22:04:54
2	As 188.979†	880.5	916.0	514.11	ug/L	514.11 ppb	22:05:14
2	B 249.677†	17436.1	18216.7	507.44	ug/L	507.44 ppb	22:04:54
2	Ba 233.527†	53609.2	54719.6	513.31	ug/L	513.31 ppb	22:04:54
2	Be 313.107†	1170502.4	1198748.4	512.84	ug/L	512.84 ppb	22:04:48
2	Cd 226.502†	34530.6	35430.2	513.22	ug/L	513.22 ppb	22:04:54
2	Co 228.616†	19602.8	20053.2	521.07	ug/L	521.07 ppb	22:04:54
2	Cr 267.716†	37588.3	38296.1	515.28	ug/L	515.28 ppb	22:04:54
2	Cu 324.752†	155906.9	153706.2	508.76	ug/L	508.76 ppb	22:04:54
2	Mn 257.610†	379752.4	387155.6	510.03	ug/L	510.03 ppb	22:04:48
2	Mo 202.031†	5665.9	5771.7	508.04	ug/L	508.04 ppb	22:05:14
2	Ni 231.604†	16141.9	16398.6	521.80	ug/L	521.80 ppb	22:04:54

2	P 214.914†	3477.0	3365.9	2435.5 ug/L	2435.5 ppb	22:05:14
2	Pb 220.353†	3208.3	3318.3	513.42 ug/L	513.42 ppb	22:05:14
2	S 181.975 Axial†	580.5	562.5	1003.4 ug/L	1003.4 ppb	22:05:14
2	Sb 206.836†	1204.1	1204.8	517.19 ug/L	517.19 ppb	22:05:14
2	Se 196.026†	564.2	594.8	512.22 ug/L	512.22 ppb	22:05:14
2	Si 251.611†	67394.6	68308.1	2564.4 ug/L	2564.4 ppb	22:04:54
2	Sn 189.927†	2215.8	2254.3	508.21 ug/L	508.21 ppb	22:05:14
2	Ti 334.940†	281953.2	288946.2	499.19 ug/L	499.19 ppb	22:04:54
2	Tl 190.801†	1266.5	1324.8	513.45 ug/L	513.45 ppb	22:05:14
2	U 409.014†	14759.7	17149.9	516.19 ug/L	516.19 ppb	22:04:54
2	V 292.402†	61530.4	64136.9	519.18 ug/L	519.18 ppb	22:04:54
2	Zn 213.857†	42931.1	43213.3	517.24 ug/L	517.24 ppb	22:04:54
2	SiO2†	66499.8	67397.4	5383.5 ug/L	5383.5 ppb	22:05:55
3	Sc Radial	4310.7	4310.7	94.0 %		22:04:10
3	Y RADIAL	4680.9	4680.9	94.87 %		22:03:50
3	Al 396.153Radial†	5062.8	5473.9	5121.6 ug/L	5121.6 ppb	22:03:50
3	Ca 317.933Radial†	2815.1	2968.1	5246.5 ug/L	5246.5 ppb	22:04:10
3	Fe 238.204 Radial†	480.9	503.9	5295.0 ug/L	5295.0 ppb	22:04:10
3	K 766.490 Radial†	27933.5	27172.3	5199.1 ug/L	5199.1 ppb	22:03:50
3	Mg 279.077 IEC†	133.5	142.0	5403.7 ug/L	5403.7 ppb	22:04:10
3	Na 589.592 Radial†	27009.0	29549.2	10354 ug/L	10354 ppb	22:03:50
3	Sr 421.552†	64210.1	68309.4	521.80 ug/L	521.80 ppb	22:03:50
3	Sc 361.383	801169.1	801169.1	98.553 %		22:05:19
3	Y 371.029	667176.4	667176.4	96.771 %		22:05:19
3	Ag 328.068†	97112.5	98327.3	507.97 ug/L	507.97 ppb	22:05:25
3	As 188.979†	873.1	903.0	506.82 ug/L	506.82 ppb	22:05:45
3	B 249.677†	17337.1	18007.0	501.60 ug/L	501.60 ppb	22:05:25
3	Ba 233.527†	53253.1	54022.2	506.76 ug/L	506.76 ppb	22:05:25
3	Be 313.107†	1180236.3	1201288.7	513.91 ug/L	513.91 ppb	22:05:19
3	Cd 226.502†	34288.5	34968.2	506.53 ug/L	506.53 ppb	22:05:25
3	Co 228.616†	19470.3	19795.9	514.39 ug/L	514.39 ppb	22:05:25
3	Cr 267.716†	37386.3	37855.6	509.35 ug/L	509.35 ppb	22:05:25
3	Cu 324.752†	154833.0	151639.4	501.92 ug/L	501.92 ppb	22:05:25
3	Mn 257.610†	382379.1	387440.7	510.41 ug/L	510.41 ppb	22:05:19
3	Mo 202.031†	5675.2	5745.7	505.74 ug/L	505.74 ppb	22:05:45
3	Ni 231.604†	16068.2	16222.7	516.20 ug/L	516.20 ppb	22:05:25
3	P 214.914†	3496.4	3363.8	2435.2 ug/L	2435.2 ppb	22:05:45
3	Pb 220.353†	3198.4	3288.1	508.72 ug/L	508.72 ppb	22:05:45
3	S 181.975 Axial†	586.5	564.9	1007.7 ug/L	1007.7 ppb	22:05:45
3	Sb 206.836†	1211.6	1204.9	517.12 ug/L	517.12 ppb	22:05:45
3	Se 196.026†	586.2	613.6	527.55 ug/L	527.55 ppb	22:05:45
3	Si 251.611†	66993.0	67478.1	2533.2 ug/L	2533.2 ppb	22:05:25
3	Sn 189.927†	2215.3	2239.8	504.94 ug/L	504.94 ppb	22:05:45
3	Ti 334.940†	280487.8	285692.1	493.57 ug/L	493.57 ppb	22:05:25
3	Tl 190.801†	1262.6	1313.0	508.87 ug/L	508.87 ppb	22:05:45
3	U 409.014†	14682.5	16979.0	511.05 ug/L	511.05 ppb	22:05:25
3	V 292.402†	60982.3	63195.2	511.62 ug/L	511.62 ppb	22:05:25
3	Zn 213.857†	42697.1	42706.7	511.17 ug/L	511.17 ppb	22:05:25
3	SiO2†	67991.6	68494.3	5471.4 ug/L	5471.4 ppb	22:06:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	802615.0	98.731 %	0.8853			0.90%
Sc Radial	4242.1	92.5 %	1.57			1.70%
Y 371.029	668739.7	96.998 %	0.8501			0.88%
Y RADIAL	4513.6	91.47 %	3.712			4.06%
Ag 328.068†	98554.2	509.15 ug/L	4.714	509.15 ppb	4.714	0.93%
QC value within limits for Ag 328.068 Recovery = 101.83%						
Al 396.153Radial†	5531.8	5176.1 ug/L	135.11	5176.1 ppb	135.11	2.61%
QC value within limits for Al 396.153Radial Recovery = 103.52%						
As 188.979†	905.5	508.26 ug/L	5.275	508.26 ppb	5.275	1.04%
QC value within limits for As 188.979 Recovery = 101.65%						
B 249.677†	18012.7	501.75 ug/L	5.610	501.75 ppb	5.610	1.12%
QC value within limits for B 249.677 Recovery = 100.35%						
Ba 233.527†	54166.8	508.12 ug/L	4.658	508.12 ppb	4.658	0.92%
QC value within limits for Ba 233.527 Recovery = 101.62%						
Be 313.107†	1198477.7	512.71 ug/L	1.265	512.71 ppb	1.265	0.25%
QC value within limits for Be 313.107 Recovery = 102.54%						
Ca 317.933Radial†	3001.1	5304.8 ug/L	72.45	5304.8 ppb	72.45	1.37%

QC value within limits for Ca 317.933 Radial Recovery = 106.10%

Cd 226.502†	35072.6	508.04 ug/L	4.613	508.04 ppb	4.613	0.91%
QC value within limits for Cd 226.502 Recovery = 101.61%						
Co 228.616†	19865.6	516.19 ug/L	4.268	516.19 ppb	4.268	0.83%
QC value within limits for Co 228.616 Recovery = 103.24%						
Cr 267.716†	37939.1	510.48 ug/L	4.353	510.48 ppb	4.353	0.85%
QC value within limits for Cr 267.716 Recovery = 102.10%						
Cu 324.752†	152081.0	503.38 ug/L	4.819	503.38 ppb	4.819	0.96%
QC value within limits for Cu 324.752 Recovery = 100.68%						
Fe 238.204 Radial†	505.2	5308.5 ug/L	51.16	5308.5 ppb	51.16	0.96%
QC value within limits for Fe 238.204 Radial Recovery = 106.17%						
K 766.490 Radial†	27374.6	5237.8 ug/L	141.10	5237.8 ppb	141.10	2.69%
QC value within limits for K 766.490 Radial Recovery = 104.76%						
Mg 279.077 IEC†	144.9	5513.6 ug/L	145.98	5513.6 ppb	145.98	2.65%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 110.27%						
Mn 257.610†	386564.4	509.26 ug/L	1.686	509.26 ppb	1.686	0.33%
QC value within limits for Mn 257.610 Recovery = 101.85%						
Mo 202.031†	5723.1	503.76 ug/L	5.548	503.76 ppb	5.548	1.10%
QC value within limits for Mo 202.031 Recovery = 100.75%						
Na 589.592 Radial†	29817.5	10448 ug/L	300.9	10448 ppb	300.9	2.88%
QC value within limits for Na 589.592 Radial Recovery = 104.48%						
Ni 231.604†	16254.7	517.22 ug/L	4.162	517.22 ppb	4.162	0.80%
QC value within limits for Ni 231.604 Recovery = 103.44%						
P 214.914†	3345.0	2420.8 ug/L	25.33	2420.8 ppb	25.33	1.05%
QC value within limits for P 214.914 Recovery = 96.83%						
Pb 220.353†	3284.0	508.09 ug/L	5.665	508.09 ppb	5.665	1.11%
QC value within limits for Pb 220.353 Recovery = 101.62%						
S 181.975 Axial†	556.7	993.05 ug/L	21.821	993.05 ppb	21.821	2.20%
QC value within limits for S 181.975 Axial Recovery = 99.30%						
Sb 206.836†	1199.0	514.62 ug/L	4.388	514.62 ppb	4.388	0.85%
QC value within limits for Sb 206.836 Recovery = 102.92%						
Se 196.026†	602.8	518.67 ug/L	7.951	518.67 ppb	7.951	1.53%
QC value within limits for Se 196.026 Recovery = 103.73%						
Si 251.611†	67633.1	2539.0 ug/L	22.99	2539.0 ppb	22.99	0.91%
QC value within limits for Si 251.611 Recovery = 101.56%						
Sn 189.927†	2232.9	503.39 ug/L	5.751	503.39 ppb	5.751	1.14%
QC value within limits for Sn 189.927 Recovery = 100.68%						
Sr 421.552†	68915.9	526.43 ug/L	14.426	526.43 ppb	14.426	2.74%
QC value within limits for Sr 421.552 Recovery = 105.29%						
Ti 334.940†	286339.8	494.69 ug/L	4.057	494.69 ppb	4.057	0.82%
QC value within limits for Ti 334.940 Recovery = 98.94%						
Tl 190.801†	1314.0	509.26 ug/L	4.000	509.26 ppb	4.000	0.79%
QC value within limits for Tl 190.801 Recovery = 101.85%						
U 409.014†	17046.4	513.08 ug/L	2.734	513.08 ppb	2.734	0.53%
QC value within limits for U 409.014 Recovery = 102.62%						
V 292.402†	63473.4	513.82 ug/L	4.663	513.82 ppb	4.663	0.91%
QC value within limits for V 292.402 Recovery = 102.76%						
Zn 213.857†	42826.1	512.61 ug/L	4.107	512.61 ppb	4.107	0.80%
QC value within limits for Zn 213.857 Recovery = 102.52%						
SiO2†	67837.3	5418.9 ug/L	46.41	5418.9 ppb	46.41	0.86%
QC value within limits for SiO2 Recovery = 101.33%						

QC Failed. Continue with analysis.

Sequence No.: 29

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/16/2010 22:08:13

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4438.0	4438.0	96.7 %		22:10:05
1	Y RADIAL	4767.4	4767.4	96.62 %		22:10:05
1	Al 396.153Radial†	-84.3	-1.3	-1.2275 ug/L	-1.2275 ppb	22:10:25
1	Ca 317.933Radial†	19.3	-7.9	-14.008 ug/L	-14.008 ppb	22:10:25
1	Fe 238.204 Radial†	5.8	-1.8	-19.105 ug/L	-19.105 ppb	22:10:25
1	K 766.490 Radial†	2730.2	266.5	51.088 ug/L	51.088 ppb	22:10:05
1	Mg 279.077 IEC†	3.3	3.4	128.63 ug/L	128.63 ppb	22:10:25
1	Na 589.592 Radial†	-941.8	-168.4	-59.010 ug/L	-59.010 ppb	22:10:05
1	Sr 421.552†	10.9	-14.5	-0.1105 ug/L	-0.1105 ppb	22:10:05
1	Sc 361.383	796201.6	796201.6	97.942 %		22:11:22
1	Y 371.029	673643.0	673643.0	97.709 %		22:11:22
1	Ag 328.068†	191.8	-14.8	-0.0806 ug/L	-0.0806 ppb	22:11:22
1	As 188.979†	-22.6	-6.0	-3.3387 ug/L	-3.3387 ppb	22:11:42
1	B 249.677†	-174.8	236.9	6.6315 ug/L	6.6315 ppb	22:11:42
1	Ba 233.527†	-6.8	-19.5	-0.1834 ug/L	-0.1834 ppb	22:11:42
1	Be 313.107†	-3668.4	-16.5	-0.0070 ug/L	-0.0070 ppb	22:11:22
1	Cd 226.502†	-166.0	6.8	0.1003 ug/L	0.1003 ppb	22:11:42
1	Co 228.616†	-35.8	3.3	0.0842 ug/L	0.0842 ppb	22:11:42
1	Cr 267.716†	70.2	-7.8	-0.1064 ug/L	-0.1064 ppb	22:11:42
1	Cu 324.752†	5300.3	-54.6	-0.1803 ug/L	-0.1803 ppb	22:11:22
1	Mn 257.610†	443.2	-98.4	-0.1367 ug/L	-0.1367 ppb	22:11:42
1	Mo 202.031†	6.2	-6.5	-0.5708 ug/L	-0.5708 ppb	22:11:42
1	Ni 231.604†	86.0	6.4	0.2046 ug/L	0.2046 ppb	22:11:42
1	P 214.914†	174.5	-5.7	-4.2523 ug/L	-4.2523 ppb	22:11:42
1	Pb 220.353†	-49.1	-7.3	-1.1261 ug/L	-1.1261 ppb	22:11:42
1	S 181.975 Axial†	31.3	1.8	3.2210 ug/L	3.2210 ppb	22:11:42
1	Sb 206.836†	31.7	7.9	3.2767 ug/L	3.2767 ppb	22:11:42
1	Se 196.026†	-19.4	-1.0	-0.8949 ug/L	-0.8949 ppb	22:11:42
1	Si 251.611†	606.9	121.5	4.5779 ug/L	4.5779 ppb	22:11:42
1	Sn 189.927†	13.9	6.2	1.4027 ug/L	1.4027 ppb	22:11:42
1	Ti 334.940†	-1052.9	12.3	0.0100 ug/L	0.0100 ppb	22:11:22
1	Tl 190.801†	-31.6	-0.4	-0.1715 ug/L	-0.1715 ppb	22:11:42
1	U 409.014†	-2118.5	-82.0	-2.4728 ug/L	-2.4728 ppb	22:11:22
1	V 292.402†	-1320.3	-30.3	-0.2499 ug/L	-0.2499 ppb	22:11:22
1	Zn 213.857†	686.7	84.0	1.0163 ug/L	1.0163 ppb	22:11:42
1	SiO2†	613.2	130.8	10.488 ug/L	10.488 ppb	22:12:53
2	Sc Radial	4327.8	4327.8	94.3 %		22:10:30
2	Y RADIAL	4677.2	4677.2	94.79 %		22:10:30
2	Al 396.153Radial†	-82.5	-1.7	-1.5854 ug/L	-1.5854 ppb	22:10:50
2	Ca 317.933Radial†	19.9	-6.7	-11.903 ug/L	-11.903 ppb	22:10:50
2	Fe 238.204 Radial†	9.5	2.2	22.804 ug/L	22.804 ppb	22:10:50
2	K 766.490 Radial†	2615.7	217.0	41.603 ug/L	41.603 ppb	22:10:30
2	Mg 279.077 IEC†	3.0	3.1	117.39 ug/L	117.39 ppb	22:10:50
2	Na 589.592 Radial†	-984.7	-238.7	-83.651 ug/L	-83.651 ppb	22:10:30
2	Sr 421.552†	32.7	8.9	0.0682 ug/L	0.0682 ppb	22:10:30
2	Sc 361.383	784772.5	784772.5	96.536 %		22:11:47
2	Y 371.029	663858.4	663858.4	96.290 %		22:11:47
2	Ag 328.068†	256.4	55.0	0.2915 ug/L	0.2915 ppb	22:11:47
2	As 188.979†	-24.4	-8.2	-4.5804 ug/L	-4.5804 ppb	22:12:07
2	B 249.677†	-195.0	213.4	5.9685 ug/L	5.9685 ppb	22:12:07
2	Ba 233.527†	-4.9	-17.5	-0.1643 ug/L	-0.1643 ppb	22:12:07
2	Be 313.107†	-3679.0	-81.9	-0.0349 ug/L	-0.0349 ppb	22:11:47
2	Cd 226.502†	-170.4	-0.2	-0.0061 ug/L	-0.0061 ppb	22:12:07
2	Co 228.616†	-47.8	-9.7	-0.2512 ug/L	-0.2512 ppb	22:12:07
2	Cr 267.716†	65.6	-11.6	-0.1516 ug/L	-0.1516 ppb	22:12:07
2	Cu 324.752†	5272.5	-4.6	-0.0115 ug/L	-0.0115 ppb	22:11:47
2	Mn 257.610†	464.8	-69.5	-0.0940 ug/L	-0.0940 ppb	22:12:07
2	Mo 202.031†	13.7	1.3	0.1172 ug/L	0.1172 ppb	22:12:07
2	Ni 231.604†	65.4	-13.6	-0.4338 ug/L	-0.4338 ppb	22:12:07

2	P 214.914†	182.9	5.5	4.1244 ug/L	4.1244 ppb	22:12:07
2	Pb 220.353†	-53.0	-12.1	-1.8717 ug/L	-1.8717 ppb	22:12:07
2	S 181.975 Axial†	33.9	5.0	8.8407 ug/L	8.8407 ppb	22:12:07
2	Sb 206.836†	21.5	-2.3	-0.9661 ug/L	-0.9661 ppb	22:12:07
2	Se 196.026†	-19.1	-1.0	-0.7438 ug/L	-0.7438 ppb	22:12:07
2	Si 251.611†	595.0	118.2	4.4461 ug/L	4.4461 ppb	22:12:07
2	Sn 189.927†	1.9	-6.0	-1.3534 ug/L	-1.3534 ppb	22:12:07
2	Ti 334.940†	-1041.1	8.9	0.0062 ug/L	0.0062 ppb	22:11:47
2	Tl 190.801†	-25.0	5.9	2.2877 ug/L	2.2877 ppb	22:12:07
2	U 409.014†	-2158.6	-155.0	-4.6838 ug/L	-4.6838 ppb	22:11:47
2	V 292.402†	-1323.8	-53.6	-0.4366 ug/L	-0.4366 ppb	22:11:47
2	Zn 213.857†	680.6	87.9	1.0615 ug/L	1.0615 ppb	22:12:07
2	SiO2†	609.4	135.9	10.881 ug/L	10.881 ppb	22:13:13
3	Sc Radial	4366.6	4366.6	95.2 %		22:10:55
3	Y RADIAL	4702.8	4702.8	95.31 %		22:10:55
3	Al 396.153Radial†	-76.8	5.1	4.8211 ug/L	4.8211 ppb	22:11:15
3	Ca 317.933Radial†	19.9	-6.9	-12.251 ug/L	-12.251 ppb	22:11:15
3	Fe 238.204 Radial†	8.4	1.0	10.406 ug/L	10.406 ppb	22:11:15
3	K 766.490 Radial†	2593.3	168.8	32.368 ug/L	32.368 ppb	22:10:55
3	Mg 279.077 IEC†	4.8	5.0	189.30 ug/L	189.30 ppb	22:11:15
3	Na 589.592 Radial†	-974.8	-219.1	-76.767 ug/L	-76.767 ppb	22:10:55
3	Sr 421.552†	34.7	10.6	0.0814 ug/L	0.0814 ppb	22:10:55
3	Sc 361.383	793694.5	793694.5	97.634 %		22:12:13
3	Y 371.029	669721.3	669721.3	97.140 %		22:12:13
3	Ag 328.068†	196.8	-9.0	-0.0398 ug/L	-0.0398 ppb	22:12:13
3	As 188.979†	-22.8	-6.3	-3.4929 ug/L	-3.4929 ppb	22:12:33
3	B 249.677†	-183.9	227.0	6.3502 ug/L	6.3502 ppb	22:12:33
3	Ba 233.527†	15.5	3.3	0.0320 ug/L	0.0320 ppb	22:12:33
3	Be 313.107†	-3762.3	-124.4	-0.0529 ug/L	-0.0529 ppb	22:12:13
3	Cd 226.502†	-162.8	9.6	0.1366 ug/L	0.1366 ppb	22:12:33
3	Co 228.616†	-42.5	-3.7	-0.0967 ug/L	-0.0967 ppb	22:12:33
3	Cr 267.716†	69.1	-8.8	-0.1151 ug/L	-0.1151 ppb	22:12:33
3	Cu 324.752†	5213.1	-126.8	-0.4176 ug/L	-0.4176 ppb	22:12:13
3	Mn 257.610†	448.8	-91.2	-0.1269 ug/L	-0.1269 ppb	22:12:33
3	Mo 202.031†	7.3	-5.3	-0.4686 ug/L	-0.4686 ppb	22:12:33
3	Ni 231.604†	68.8	-11.0	-0.3487 ug/L	-0.3487 ppb	22:12:33
3	P 214.914†	188.5	9.2	6.9983 ug/L	6.9983 ppb	22:12:33
3	Pb 220.353†	-59.2	-17.8	-2.7500 ug/L	-2.7500 ppb	22:12:33
3	S 181.975 Axial†	23.3	-6.2	-11.144 ug/L	-11.144 ppb	22:12:33
3	Sb 206.836†	31.1	7.3	3.0413 ug/L	3.0413 ppb	22:12:33
3	Se 196.026†	-26.0	-7.8	-6.4646 ug/L	-6.4646 ppb	22:12:33
3	Si 251.611†	602.7	119.1	4.4880 ug/L	4.4880 ppb	22:12:33
3	Sn 189.927†	10.5	2.8	0.6253 ug/L	0.6253 ppb	22:12:33
3	Ti 334.940†	-1017.0	45.6	0.0630 ug/L	0.0630 ppb	22:12:13
3	Tl 190.801†	-28.5	2.6	1.0100 ug/L	1.0100 ppb	22:12:33
3	U 409.014†	-2121.1	-91.5	-2.7633 ug/L	-2.7633 ppb	22:12:13
3	V 292.402†	-1267.0	20.0	0.1498 ug/L	0.1498 ppb	22:12:13
3	Zn 213.857†	691.7	91.4	1.1049 ug/L	1.1049 ppb	22:12:33
3	SiO2†	589.3	108.2	8.6813 ug/L	8.6813 ppb	22:13:33

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	791556.2	97.371 %		0.7389			0.76%
Sc Radial	4377.5	95.4 %		1.22			1.28%
Y 371.029	669074.2	97.047 %		0.7142			0.74%
Y RADIAL	4715.8	95.57 %		0.942			0.99%
Ag 328.068†	10.4	0.0570 ug/L		0.20407	0.0570 ppb	0.20407	357.90%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.7	0.6694 ug/L		3.59996	0.6694 ppb	3.59996	537.80%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-6.8	-3.8040 ug/L		0.67677	-3.8040 ppb	0.67677	17.79%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	225.7	6.3167 ug/L		0.33272	6.3167 ppb	0.33272	5.27%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	-11.2	-0.1052 ug/L		0.11923	-0.1052 ppb	0.11923	113.31%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-74.3	-0.0316 ug/L		0.02315	-0.0316 ppb	0.02315	73.20%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-7.2	-12.721 ug/L		1.1282	-12.721 ppb	1.1282	8.87%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated									
Cd	226.502†	5.4	0.0769 ug/L	0.07415	0.0769 ppb	0.07415	96.42%		
QC value within limits for Cd 226.502 Recovery = Not calculated									
Co	228.616†	-3.4	-0.0879 ug/L	0.16788	-0.0879 ppb	0.16788	190.92%		
QC value within limits for Co 228.616 Recovery = Not calculated									
Cr	267.716†	-9.4	-0.1244 ug/L	0.02400	-0.1244 ppb	0.02400	19.29%		
QC value within limits for Cr 267.716 Recovery = Not calculated									
Cu	324.752†	-62.0	-0.2031 ug/L	0.20404	-0.2031 ppb	0.20404	100.45%		
QC value within limits for Cu 324.752 Recovery = Not calculated									
Fe	238.204 Radial†	0.4	4.7015 ug/L	21.52871	4.7015 ppb	21.52871	457.91%		
QC value within limits for Fe 238.204 Radial Recovery = Not calculated									
K	766.490 Radial†	217.4	41.687 ug/L	9.3604	41.687 ppb	9.3604	22.45%		
QC value within limits for K 766.490 Radial Recovery = Not calculated									
Mg	279.077 IEC†	3.8	145.11 ug/L	38.686	145.11 ppb	38.686	26.66%		
QC value within limits for Mg 279.077 IEC Recovery = Not calculated									
Mn	257.610†	-86.4	-0.1192 ug/L	0.02236	-0.1192 ppb	0.02236	18.76%		
QC value within limits for Mn 257.610 Recovery = Not calculated									
Mo	202.031†	-3.5	-0.3074 ug/L	0.37126	-0.3074 ppb	0.37126	120.77%		
QC value within limits for Mo 202.031 Recovery = Not calculated									
Na	589.592 Radial†	-208.7	-73.143 ug/L	12.7137	-73.143 ppb	12.7137	17.38%		
QC value within limits for Na 589.592 Radial Recovery = Not calculated									
Ni	231.604†	-6.1	-0.1926 ug/L	0.34665	-0.1926 ppb	0.34665	179.96%		
QC value within limits for Ni 231.604 Recovery = Not calculated									
P	214.914†	3.0	2.2901 ug/L	5.84528	2.2901 ppb	5.84528	255.24%		
QC value within limits for P 214.914 Recovery = Not calculated									
Pb	220.353†	-12.4	-1.9159 ug/L	0.81287	-1.9159 ppb	0.81287	42.43%		
QC value within limits for Pb 220.353 Recovery = Not calculated									
S	181.975 Axial†	0.2	0.3058 ug/L	10.30661	0.3058 ppb	10.30661	>999.9%		
QC value within limits for S 181.975 Axial Recovery = Not calculated									
Sb	206.836†	4.3	1.7840 ug/L	2.38453	1.7840 ppb	2.38453	133.66%		
QC value within limits for Sb 206.836 Recovery = Not calculated									
Se	196.026†	-3.3	-2.7011 ug/L	3.26019	-2.7011 ppb	3.26019	120.70%		
QC value within limits for Se 196.026 Recovery = Not calculated									
Si	251.611†	119.6	4.5040 ug/L	0.06733	4.5040 ppb	0.06733	1.49%		
QC value within limits for Si 251.611 Recovery = Not calculated									
Sn	189.927†	1.0	0.2249 ug/L	1.42101	0.2249 ppb	1.42101	631.96%		
QC value within limits for Sn 189.927 Recovery = Not calculated									
Sr	421.552†	1.7	0.0130 ug/L	0.10719	0.0130 ppb	0.10719	822.46%		
QC value within limits for Sr 421.552 Recovery = Not calculated									
Ti	334.940†	22.3	0.0264 ug/L	0.03176	0.0264 ppb	0.03176	120.28%		
QC value within limits for Ti 334.940 Recovery = Not calculated									
Tl	190.801†	2.7	1.0421 ug/L	1.22992	1.0421 ppb	1.22992	118.03%		
QC value within limits for Tl 190.801 Recovery = Not calculated									
U	409.014†	-109.5	-3.3067 ug/L	1.20149	-3.3067 ppb	1.20149	36.34%		
QC value within limits for U 409.014 Recovery = Not calculated									
V	292.402†	-21.3	-0.1789 ug/L	0.29957	-0.1789 ppb	0.29957	167.45%		
QC value within limits for V 292.402 Recovery = Not calculated									
Zn	213.857†	87.8	1.0609 ug/L	0.04431	1.0609 ppb	0.04431	4.18%		
QC value within limits for Zn 213.857 Recovery = Not calculated									
SiO2†	125.0	125.0	10.017 ug/L	1.1732	10.017 ppb	1.1732	11.71%		
QC value within limits for SiO2 Recovery = Not calculated									

All analyte(s) passed QC.

Sequence No.: 35

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/16/2010 22:50:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4379.1	4379.1	95.5 %		22:52:09
1	Y RADIAL	4741.7	4741.7	96.10 %		22:52:09
1	Al 396.153Radial†	5061.7	5388.6	5041.6 ug/L	5041.6 ppb	22:52:09
1	Ca 317.933Radial†	2768.3	2872.3	5077.0 ug/L	5077.0 ppb	22:52:29
1	Fe 238.204 Radial†	467.5	481.9	5064.2 ug/L	5064.2 ppb	22:52:29
1	K 766.490 Radial†	27814.3	26582.8	5086.4 ug/L	5086.4 ppb	22:52:09
1	Mg 279.077 IEC†	131.4	137.6	5235.5 ug/L	5235.5 ppb	22:52:29
1	Na 589.592 Radial†	26175.8	28227.2	9890.4 ug/L	9890.4 ppb	22:52:09
1	Sr 421.552†	63459.6	66455.2	507.64 ug/L	507.64 ppb	22:52:09
1	Sc 361.383	812190.8	812190.8	99.909 %		22:53:27
1	Y 371.029	676921.1	676921.1	98.185 %		22:53:27
1	Ag 328.068†	98643.3	98522.3	508.91 ug/L	508.91 ppb	22:53:32
1	As 188.979†	884.4	902.2	506.37 ug/L	506.37 ppb	22:53:52
1	B 249.677†	17332.6	17763.7	494.83 ug/L	494.83 ppb	22:53:32
1	Ba 233.527†	54198.4	54235.1	508.75 ug/L	508.75 ppb	22:53:32
1	Be 313.107†	1188182.6	1192990.9	510.37 ug/L	510.37 ppb	22:53:27
1	Cd 226.502†	34988.2	35196.3	509.86 ug/L	509.86 ppb	22:53:32
1	Co 228.616†	19800.1	19857.9	515.99 ug/L	515.99 ppb	22:53:32
1	Cr 267.716†	37967.2	37922.1	510.22 ug/L	510.22 ppb	22:53:32
1	Cu 324.752†	157503.3	152180.1	503.69 ug/L	503.69 ppb	22:53:32
1	Mn 257.610†	383803.0	383600.7	505.34 ug/L	505.34 ppb	22:53:27
1	Mo 202.031†	5691.4	5683.8	500.28 ug/L	500.28 ppb	22:53:52
1	Ni 231.604†	16298.8	16232.2	516.51 ug/L	516.51 ppb	22:53:32
1	P 214.914†	3507.9	3327.2	2407.4 ug/L	2407.4 ppb	22:53:52
1	Pb 220.353†	3217.0	3262.7	504.79 ug/L	504.79 ppb	22:53:52
1	S 181.975 Axial†	582.1	552.5	985.48 ug/L	985.48 ppb	22:53:52
1	Sb 206.836†	1205.2	1181.8	507.36 ug/L	507.36 ppb	22:53:52
1	Se 196.026†	578.7	598.0	513.93 ug/L	513.93 ppb	22:53:52
1	Si 251.611†	68139.3	67703.0	2541.7 ug/L	2541.7 ppb	22:53:32
1	Sn 189.927†	2217.4	2211.4	498.53 ug/L	498.53 ppb	22:53:52
1	Ti 334.940†	285111.5	286457.8	494.88 ug/L	494.88 ppb	22:53:32
1	Tl 190.801†	1278.3	1311.2	508.18 ug/L	508.18 ppb	22:53:52
1	U 409.014†	15147.6	17242.4	519.03 ug/L	519.03 ppb	22:53:32
1	V 292.402†	62097.8	63471.9	513.80 ug/L	513.80 ppb	22:53:32
1	Zn 213.857†	43427.0	42849.4	512.93 ug/L	512.93 ppb	22:53:32
1	SiO2†	68680.6	68247.7	5451.8 ug/L	5451.8 ppb	22:54:59
2	Sc Radial	4371.8	4371.8	95.3 %		22:52:34
2	Y RADIAL	4714.0	4714.0	95.54 %		22:52:34
2	Al 396.153Radial†	5102.3	5439.9	5089.3 ug/L	5089.3 ppb	22:52:34
2	Ca 317.933Radial†	2778.7	2888.0	5104.9 ug/L	5104.9 ppb	22:52:54
2	Fe 238.204 Radial†	467.4	482.6	5072.0 ug/L	5072.0 ppb	22:52:54
2	K 766.490 Radial†	27948.1	26771.6	5122.5 ug/L	5122.5 ppb	22:52:34
2	Mg 279.077 IEC†	131.6	138.0	5253.3 ug/L	5253.3 ppb	22:52:54
2	Na 589.592 Radial†	26106.2	28199.6	9880.8 ug/L	9880.8 ppb	22:52:34
2	Sr 421.552†	63307.2	66405.5	507.26 ug/L	507.26 ppb	22:52:34
2	Sc 361.383	793663.0	793663.0	97.630 %		22:53:58
2	Y 371.029	662720.0	662720.0	96.125 %		22:53:58
2	Ag 328.068†	98311.7	100487.6	519.03 ug/L	519.03 ppb	22:54:03
2	As 188.979†	882.7	921.2	516.99 ug/L	516.99 ppb	22:54:23
2	B 249.677†	17309.9	18145.5	505.49 ug/L	505.49 ppb	22:54:03
2	Ba 233.527†	53943.7	55240.6	518.18 ug/L	518.18 ppb	22:54:03
2	Be 313.107†	1161901.1	1193834.5	510.75 ug/L	510.75 ppb	22:53:58
2	Cd 226.502†	34616.7	35633.4	516.20 ug/L	516.20 ppb	22:54:03
2	Co 228.616†	19637.1	20153.6	523.68 ug/L	523.68 ppb	22:54:03
2	Cr 267.716†	37853.1	38692.4	520.58 ug/L	520.58 ppb	22:54:03
2	Cu 324.752†	156872.5	155214.3	513.74 ug/L	513.74 ppb	22:54:03
2	Mn 257.610†	374869.0	383417.8	505.10 ug/L	505.10 ppb	22:53:58
2	Mo 202.031†	5684.8	5810.0	511.38 ug/L	511.38 ppb	22:54:23
2	Ni 231.604†	16221.0	16533.3	526.09 ug/L	526.09 ppb	22:54:03

2	P 214.914†	3484.5	3385.2	2449.2 ug/L	2449.2 ppb	22:54:23
2	Pb 220.353†	3199.5	3320.0	513.67 ug/L	513.67 ppb	22:54:23
2	S 181.975 Axial†	578.3	562.2	1002.8 ug/L	1002.8 ppb	22:54:23
2	Sb 206.836†	1206.0	1210.8	519.71 ug/L	519.71 ppb	22:54:23
2	Se 196.026†	592.5	625.6	536.92 ug/L	536.92 ppb	22:54:23
2	Si 251.611†	67813.2	68961.1	2588.9 ug/L	2588.9 ppb	22:54:03
2	Sn 189.927†	2199.8	2245.3	506.15 ug/L	506.15 ppb	22:54:23
2	Ti 334.940†	283661.5	291634.5	503.82 ug/L	503.82 ppb	22:54:03
2	Tl 190.801†	1277.1	1339.9	519.23 ug/L	519.23 ppb	22:54:23
2	U 409.014†	14892.5	17335.0	521.80 ug/L	521.80 ppb	22:54:03
2	V 292.402†	61755.5	64572.3	522.74 ug/L	522.74 ppb	22:54:03
2	Zn 213.857†	43168.7	43599.5	521.91 ug/L	521.91 ppb	22:54:03
2	SiO2†	67587.3	68732.6	5490.3 ug/L	5490.3 ppb	22:55:04
3	Sc Radial	4367.7	4367.7	95.2 %		22:52:59
3	Y RADIAL	4691.9	4691.9	95.09 %		22:52:59
3	Al 396.153Radial†	5056.6	5397.0	5049.6 ug/L	5049.6 ppb	22:52:59
3	Ca 317.933Radial†	2791.3	2903.9	5133.1 ug/L	5133.1 ppb	22:53:19
3	Fe 238.204 Radial†	469.5	485.2	5099.1 ug/L	5099.1 ppb	22:53:19
3	K 766.490 Radial†	27719.3	26559.2	5081.9 ug/L	5081.9 ppb	22:52:59
3	Mg 279.077 IEC†	130.9	137.4	5230.4 ug/L	5230.4 ppb	22:53:19
3	Na 589.592 Radial†	25976.5	28089.4	9842.2 ug/L	9842.2 ppb	22:52:59
3	Sr 421.552†	63100.9	66252.1	506.08 ug/L	506.08 ppb	22:52:59
3	Sc 361.383	814208.1	814208.1	100.16 %		22:54:29
3	Y 371.029	679070.8	679070.8	98.497 %		22:54:29
3	Ag 328.068†	97107.5	96744.3	499.77 ug/L	499.77 ppb	22:54:34
3	As 188.979†	888.4	904.1	507.35 ug/L	507.35 ppb	22:54:54
3	B 249.677†	17085.9	17474.4	486.75 ug/L	486.75 ppb	22:54:34
3	Ba 233.527†	53365.1	53268.7	499.69 ug/L	499.69 ppb	22:54:34
3	Be 313.107†	1192793.1	1194647.6	511.05 ug/L	511.05 ppb	22:54:29
3	Cd 226.502†	34424.7	34547.0	500.44 ug/L	500.44 ppb	22:54:34
3	Co 228.616†	19468.6	19477.9	506.13 ug/L	506.13 ppb	22:54:34
3	Cr 267.716†	37438.1	37299.8	501.86 ug/L	501.86 ppb	22:54:34
3	Cu 324.752†	154511.3	148802.2	492.53 ug/L	492.53 ppb	22:54:34
3	Mn 257.610†	385214.1	384057.9	505.95 ug/L	505.95 ppb	22:54:29
3	Mo 202.031†	5680.2	5658.5	498.06 ug/L	498.06 ppb	22:54:54
3	Ni 231.604†	16061.9	15955.3	507.69 ug/L	507.69 ppb	22:54:34
3	P 214.914†	3502.1	3312.6	2398.6 ug/L	2398.6 ppb	22:54:54
3	Pb 220.353†	3216.2	3253.9	503.44 ug/L	503.44 ppb	22:54:54
3	S 181.975 Axial†	587.9	556.8	993.25 ug/L	993.25 ppb	22:54:54
3	Sb 206.836†	1220.5	1194.1	512.36 ug/L	512.36 ppb	22:54:54
3	Se 196.026†	589.9	607.8	522.16 ug/L	522.16 ppb	22:54:54
3	Si 251.611†	66961.7	66358.2	2491.1 ug/L	2491.1 ppb	22:54:34
3	Sn 189.927†	2207.4	2196.0	495.06 ug/L	495.06 ppb	22:54:54
3	Ti 334.940†	280501.1	281147.6	485.72 ug/L	485.72 ppb	22:54:34
3	Tl 190.801†	1264.4	1294.3	501.63 ug/L	501.63 ppb	22:54:54
3	U 409.014†	14569.2	16627.3	500.46 ug/L	500.46 ppb	22:54:34
3	V 292.402†	61187.7	62409.3	505.25 ug/L	505.25 ppb	22:54:34
3	Zn 213.857†	42822.2	42137.8	504.40 ug/L	504.40 ppb	22:54:34
3	SiO2†	67979.9	67377.8	5382.2 ug/L	5382.2 ppb	22:55:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806687.3	99.232 %	1.3930			1.40%
Sc Radial	4372.9	95.3 %	0.13			0.13%
Y 371.029	672904.0	97.602 %	1.2887			1.32%
Y RADIAL	4715.9	95.57 %	0.506			0.53%
Ag 328.068†	98584.7	509.24 ug/L	9.635	509.24 ppb	9.635	1.89%
QC value within limits for Ag 328.068 Recovery = 101.85%						
Al 396.153Radial†	5408.5	5060.2 ug/L	25.56	5060.2 ppb	25.56	0.51%
QC value within limits for Al 396.153Radial Recovery = 101.20%						
As 188.979†	909.2	510.24 ug/L	5.872	510.24 ppb	5.872	1.15%
QC value within limits for As 188.979 Recovery = 102.05%						
B 249.677†	17794.5	495.69 ug/L	9.397	495.69 ppb	9.397	1.90%
QC value within limits for B 249.677 Recovery = 99.14%						
Ba 233.527†	54248.2	508.88 ug/L	9.245	508.88 ppb	9.245	1.82%
QC value within limits for Ba 233.527 Recovery = 101.78%						
Be 313.107†	1193824.3	510.72 ug/L	0.344	510.72 ppb	0.344	0.07%
QC value within limits for Be 313.107 Recovery = 102.14%						
Ca 317.933Radial†	2888.1	5105.0 ug/L	28.00	5105.0 ppb	28.00	0.55%

QC value within limits for Ca 317.933Radial Recovery = 102.10%						
Cd 226.502†	35125.5	508.83 ug/L	7.930	508.83 ppb	7.930	1.56%
QC value within limits for Cd 226.502 Recovery = 101.77%						
Co 228.616†	19829.8	515.27 ug/L	8.797	515.27 ppb	8.797	1.71%
QC value within limits for Co 228.616 Recovery = 103.05%						
Cr 267.716†	37971.4	510.89 ug/L	9.374	510.89 ppb	9.374	1.83%
QC value within limits for Cr 267.716 Recovery = 102.18%						
Cu 324.752†	152065.5	503.32 ug/L	10.610	503.32 ppb	10.610	2.11%
QC value within limits for Cu 324.752 Recovery = 100.66%						
Fe 238.204 Radial†	483.2	5078.4 ug/L	18.32	5078.4 ppb	18.32	0.36%
QC value within limits for Fe 238.204 Radial Recovery = 101.57%						
K 766.490 Radial†	26637.9	5096.9 ug/L	22.29	5096.9 ppb	22.29	0.44%
QC value within limits for K 766.490 Radial Recovery = 101.94%						
Mg 279.077 IEC†	137.7	5239.7 ug/L	12.04	5239.7 ppb	12.04	0.23%
QC value within limits for Mg 279.077 IEC Recovery = 104.79%						
Mn 257.610†	383692.1	505.46 ug/L	0.436	505.46 ppb	0.436	0.09%
QC value within limits for Mn 257.610 Recovery = 101.09%						
Mo 202.031†	5717.4	503.24 ug/L	7.138	503.24 ppb	7.138	1.42%
QC value within limits for Mo 202.031 Recovery = 100.65%						
Na 589.592 Radial†	28172.1	9871.1 ug/L	25.53	9871.1 ppb	25.53	0.26%
QC value within limits for Na 589.592 Radial Recovery = 98.71%						
Ni 231.604†	16240.3	516.76 ug/L	9.200	516.76 ppb	9.200	1.78%
QC value within limits for Ni 231.604 Recovery = 103.35%						
P 214.914†	3341.7	2418.4 ug/L	27.01	2418.4 ppb	27.01	1.12%
QC value within limits for P 214.914 Recovery = 96.74%						
Pb 220.353†	3278.9	507.30 ug/L	5.558	507.30 ppb	5.558	1.10%
QC value within limits for Pb 220.353 Recovery = 101.46%						
S 181.975 Axial†	557.2	993.84 ug/L	8.669	993.84 ppb	8.669	0.87%
QC value within limits for S 181.975 Axial Recovery = 99.38%						
Sb 206.836†	1195.6	513.14 ug/L	6.211	513.14 ppb	6.211	1.21%
QC value within limits for Sb 206.836 Recovery = 102.63%						
Se 196.026†	610.5	524.34 ug/L	11.652	524.34 ppb	11.652	2.22%
QC value within limits for Se 196.026 Recovery = 104.87%						
Si 251.611†	67674.1	2540.6 ug/L	48.90	2540.6 ppb	48.90	1.92%
QC value within limits for Si 251.611 Recovery = 101.62%						
Sn 189.927†	2217.6	499.91 ug/L	5.674	499.91 ppb	5.674	1.13%
QC value within limits for Sn 189.927 Recovery = 99.98%						
Sr 421.552†	66371.0	506.99 ug/L	0.809	506.99 ppb	0.809	0.16%
QC value within limits for Sr 421.552 Recovery = 101.40%						
Ti 334.940†	286413.3	494.81 ug/L	9.051	494.81 ppb	9.051	1.83%
QC value within limits for Ti 334.940 Recovery = 98.96%						
Tl 190.801†	1315.1	509.68 ug/L	8.895	509.68 ppb	8.895	1.75%
QC value within limits for Tl 190.801 Recovery = 101.94%						
U 409.014†	17068.2	513.76 ug/L	11.600	513.76 ppb	11.600	2.26%
QC value within limits for U 409.014 Recovery = 102.75%						
V 292.402†	63484.5	513.93 ug/L	8.745	513.93 ppb	8.745	1.70%
QC value within limits for V 292.402 Recovery = 102.79%						
Zn 213.857†	42862.2	513.08 ug/L	8.759	513.08 ppb	8.759	1.71%
QC value within limits for Zn 213.857 Recovery = 102.62%						
SiO2†	68119.3	5441.5 ug/L	54.81	5441.5 ppb	54.81	1.01%
QC value within limits for SiO2 Recovery = 101.76%						
All analyte(s) passed QC.						

Sequence No.: 36

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/16/2010 22:57:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4417.2	4417.2	96.3 %		22:59:14
1	Y RADIAL	4789.5	4789.5	97.07 %		22:59:14
1	Al 396.153Radial†	-75.8	7.1	6.7118 ug/L	6.7118 ppb	22:59:34
1	Ca 317.933Radial†	22.9	-4.1	-7.2614 ug/L	-7.2614 ppb	22:59:34
1	Fe 238.204 Radial†	8.1	0.5	5.3833 ug/L	5.3833 ppb	22:59:34
1	K 766.490 Radial†	2622.6	168.1	32.234 ug/L	32.234 ppb	22:59:14
1	Mg 279.077 IEC†	3.6	3.7	139.07 ug/L	139.07 ppb	22:59:34
1	Na 589.592 Radial†	-1005.4	-239.1	-83.767 ug/L	-83.767 ppb	22:59:14
1	Sr 421.552†	39.0	14.7	0.1126 ug/L	0.1126 ppb	22:59:14
1	Sc 361.383	801502.5	801502.5	98.594 %		23:00:31
1	Y 371.029	676700.9	676700.9	98.153 %		23:00:31
1	Ag 328.068†	191.5	-16.4	-0.0771 ug/L	-0.0771 ppb	23:00:31
1	As 188.979†	-24.3	-7.6	-4.2444 ug/L	-4.2444 ppb	23:00:51
1	B 249.677†	-318.0	92.9	2.5980 ug/L	2.5980 ppb	23:00:51
1	Ba 233.527†	19.5	7.3	0.0669 ug/L	0.0669 ppb	23:00:51
1	Be 313.107†	-3670.5	6.2	0.0026 ug/L	0.0026 ppb	23:00:31
1	Cd 226.502†	-168.3	5.6	0.0788 ug/L	0.0788 ppb	23:00:51
1	Co 228.616†	-37.1	2.2	0.0559 ug/L	0.0559 ppb	23:00:51
1	Cr 267.716†	60.2	-18.5	-0.2445 ug/L	-0.2445 ppb	23:00:51
1	Cu 324.752†	5208.8	-183.1	-0.6010 ug/L	-0.6010 ppb	23:00:31
1	Mn 257.610†	445.5	-99.0	-0.1355 ug/L	-0.1355 ppb	23:00:51
1	Mo 202.031†	10.9	-1.8	-0.1592 ug/L	-0.1592 ppb	23:00:51
1	Ni 231.604†	84.1	3.9	0.1236 ug/L	0.1236 ppb	23:00:51
1	P 214.914†	179.2	-2.2	-1.5239 ug/L	-1.5239 ppb	23:00:51
1	Pb 220.353†	-46.5	-4.3	-0.6675 ug/L	-0.6675 ppb	23:00:51
1	S 181.975 Axial†	30.3	0.5	0.9613 ug/L	0.9613 ppb	23:00:51
1	Sb 206.836†	34.6	10.5	4.3676 ug/L	4.3676 ppb	23:00:51
1	Se 196.026†	-16.3	2.3	1.9206 ug/L	1.9206 ppb	23:00:51
1	Si 251.611†	603.5	113.8	4.2862 ug/L	4.2862 ppb	23:00:51
1	Sn 189.927†	9.6	1.8	0.4023 ug/L	0.4023 ppb	23:00:51
1	Ti 334.940†	-1086.7	-14.9	-0.0340 ug/L	-0.0340 ppb	23:00:31
1	Tl 190.801†	-24.5	6.9	2.6684 ug/L	2.6684 ppb	23:00:51
1	U 409.014†	-2342.3	-294.6	-8.8986 ug/L	-8.8986 ppb	23:00:31
1	V 292.402†	-1364.2	-65.9	-0.5437 ug/L	-0.5437 ppb	23:00:31
1	Zn 213.857†	655.2	47.4	0.5716 ug/L	0.5716 ppb	23:00:51
1	SiO2†	597.9	111.1	8.9044 ug/L	8.9044 ppb	23:01:47
2	Sc Radial	4448.5	4448.5	97.0 %		22:59:39
2	Y RADIAL	4802.5	4802.5	97.33 %		22:59:39
2	Al 396.153Radial†	-83.3	-0.1	-0.0681 ug/L	-0.0681 ppb	22:59:59
2	Ca 317.933Radial†	17.8	-9.5	-16.715 ug/L	-16.715 ppb	22:59:59
2	Fe 238.204 Radial†	6.8	-0.8	-8.8084 ug/L	-8.8084 ppb	22:59:59
2	K 766.490 Radial†	2561.8	86.2	16.540 ug/L	16.540 ppb	22:59:39
2	Mg 279.077 IEC†	1.5	1.5	57.009 ug/L	57.009 ppb	22:59:59
2	Na 589.592 Radial†	-970.1	-195.3	-68.437 ug/L	-68.437 ppb	22:59:39
2	Sr 421.552†	19.8	-5.3	-0.0404 ug/L	-0.0404 ppb	22:59:39
2	Sc 361.383	805105.2	805105.2	99.038 %		23:00:56
2	Y 371.029	680440.0	680440.0	98.695 %		23:00:56
2	Ag 328.068†	243.7	35.5	0.1796 ug/L	0.1796 ppb	23:00:56
2	As 188.979†	-16.4	0.5	0.2565 ug/L	0.2565 ppb	23:01:16
2	B 249.677†	-297.6	114.9	3.2183 ug/L	3.2183 ppb	23:01:16
2	Ba 233.527†	19.4	7.1	0.0657 ug/L	0.0657 ppb	23:01:16
2	Be 313.107†	-3704.7	-11.7	-0.0048 ug/L	-0.0048 ppb	23:00:56
2	Cd 226.502†	-176.1	-1.5	-0.0204 ug/L	-0.0204 ppb	23:01:16
2	Co 228.616†	-54.4	-15.1	-0.3941 ug/L	-0.3941 ppb	23:01:16
2	Cr 267.716†	82.6	3.9	0.0508 ug/L	0.0508 ppb	23:01:16
2	Cu 324.752†	5300.5	-114.3	-0.3787 ug/L	-0.3787 ppb	23:00:56
2	Mn 257.610†	453.1	-93.4	-0.1262 ug/L	-0.1262 ppb	23:01:16
2	Mo 202.031†	-0.4	-13.2	-1.1654 ug/L	-1.1654 ppb	23:01:16
2	Ni 231.604†	91.9	11.3	0.3612 ug/L	0.3612 ppb	23:01:16

2	P 214.914†	187.6	5.5	4.2257 ug/L	4.2257 ppb	23:01:16
2	Pb 220.353†	-47.3	-4.9	-0.7634 ug/L	-0.7634 ppb	23:01:16
2	S 181.975 Axial†	28.7	-1.2	-2.1437 ug/L	-2.1437 ppb	23:01:16
2	Sb 206.836†	35.0	10.8	4.4508 ug/L	4.4508 ppb	23:01:16
2	Se 196.026†	-20.9	-2.3	-1.9174 ug/L	-1.9174 ppb	23:01:16
2	Si 251.611†	591.8	99.3	3.7518 ug/L	3.7518 ppb	23:01:16
2	Sn 189.927†	11.5	3.6	0.8037 ug/L	0.8037 ppb	23:01:16
2	Ti 334.940†	-1040.2	37.0	0.0570 ug/L	0.0570 ppb	23:00:56
2	Tl 190.801†	-37.1	-5.7	-2.1981 ug/L	-2.1981 ppb	23:01:16
2	U 409.014†	-2060.4	0.6	0.0194 ug/L	0.0194 ppb	23:00:56
2	V 292.402†	-1304.7	0.4	-0.0111 ug/L	-0.0111 ppb	23:00:56
2	Zn 213.857†	655.3	44.6	0.5377 ug/L	0.5377 ppb	23:01:16
2	SiO2†	577.7	88.0	7.0752 ug/L	7.0752 ppb	23:01:52
3	Sc Radial	4506.3	4506.3	98.2 %		23:00:04
3	Y RADIAL	4852.5	4852.5	98.34 %		23:00:04
3	Al 396.153Radial†	-67.7	16.9	15.835 ug/L	15.835 ppb	23:00:24
3	Ca 317.933Radial†	20.7	-6.8	-11.936 ug/L	-11.936 ppb	23:00:24
3	Fe 238.204 Radial†	11.2	3.6	37.361 ug/L	37.361 ppb	23:00:24
3	K 766.490 Radial†	2679.9	172.5	33.086 ug/L	33.086 ppb	23:00:04
3	Mg 279.077 IEC†	2.0	2.0	75.852 ug/L	75.852 ppb	23:00:24
3	Na 589.592 Radial†	-980.5	-193.1	-67.667 ug/L	-67.667 ppb	23:00:04
3	Sr 421.552†	29.0	3.7	0.0286 ug/L	0.0286 ppb	23:00:04
3	Sc 361.383	797957.4	797957.4	98.158 %		23:01:21
3	Y 371.029	675088.6	675088.6	97.919 %		23:01:21
3	Ag 328.068†	186.1	-21.0	-0.0896 ug/L	-0.0896 ppb	23:01:21
3	As 188.979†	-20.3	-3.7	-2.0266 ug/L	-2.0266 ppb	23:01:41
3	B 249.677†	-301.3	108.4	3.0263 ug/L	3.0263 ppb	23:01:41
3	Ba 233.527†	3.2	-9.2	-0.0855 ug/L	-0.0855 ppb	23:01:41
3	Be 313.107†	-3673.3	-13.2	-0.0052 ug/L	-0.0052 ppb	23:01:21
3	Cd 226.502†	-171.6	1.5	0.0171 ug/L	0.0171 ppb	23:01:41
3	Co 228.616†	-29.5	9.8	0.2553 ug/L	0.2553 ppb	23:01:41
3	Cr 267.716†	67.0	-11.3	-0.1441 ug/L	-0.1441 ppb	23:01:41
3	Cu 324.752†	5224.4	-143.8	-0.4691 ug/L	-0.4691 ppb	23:01:21
3	Mn 257.610†	459.0	-83.3	-0.1091 ug/L	-0.1091 ppb	23:01:41
3	Mo 202.031†	22.2	9.8	0.8665 ug/L	0.8665 ppb	23:01:41
3	Ni 231.604†	98.1	18.5	0.5880 ug/L	0.5880 ppb	23:01:41
3	P 214.914†	181.0	0.4	0.4010 ug/L	0.4010 ppb	23:01:41
3	Pb 220.353†	-39.6	2.5	0.3813 ug/L	0.3813 ppb	23:01:41
3	S 181.975 Axial†	24.4	-5.3	-9.4312 ug/L	-9.4312 ppb	23:01:41
3	Sb 206.836†	25.0	1.0	0.4317 ug/L	0.4317 ppb	23:01:41
3	Se 196.026†	-19.4	-1.0	-0.7096 ug/L	-0.7096 ppb	23:01:41
3	Si 251.611†	602.6	115.6	4.3414 ug/L	4.3414 ppb	23:01:41
3	Sn 189.927†	10.2	2.5	0.5474 ug/L	0.5474 ppb	23:01:41
3	Ti 334.940†	-958.1	111.3	0.1883 ug/L	0.1883 ppb	23:01:21
3	Tl 190.801†	-23.5	7.9	3.0273 ug/L	3.0273 ppb	23:01:41
3	U 409.014†	-2325.2	-287.8	-8.6969 ug/L	-8.6969 ppb	23:01:21
3	V 292.402†	-1314.1	-21.0	-0.1767 ug/L	-0.1767 ppb	23:01:21
3	Zn 213.857†	638.4	33.3	0.3938 ug/L	0.3938 ppb	23:01:41
3	SiO2†	587.8	103.5	8.2689 ug/L	8.2689 ppb	23:01:57

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801521.7	98.597 %		0.4396			0.45%
Sc Radial	4457.3	97.2 %		0.98			1.01%
Y 371.029	677409.8	98.256 %		0.3982			0.41%
Y RADIAL	4814.8	97.58 %		0.674			0.69%
Ag 328.068†	-0.6	0.0043 ug/L		0.15193	0.0043 ppb	0.15193	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	8.0	7.4928 ug/L		7.98017	7.4928 ppb	7.98017	106.50%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-3.6	-2.0048 ug/L		2.25057	-2.0048 ppb	2.25057	112.26%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	105.4	2.9475 ug/L		0.31759	2.9475 ppb	0.31759	10.77%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	1.7	0.0157 ug/L		0.08766	0.0157 ppb	0.08766	557.25%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-6.2	-0.0025 ug/L		0.00439	-0.0025 ppb	0.00439	176.75%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-6.8	-11.971 ug/L		4.7270	-11.971 ppb	4.7270	39.49%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated

Cd 226.502†	1.9	0.0252 ug/L	0.05009	0.0252 ppb	0.05009	198.95%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-1.0	-0.0276 ug/L	0.33270	-0.0276 ppb	0.33270	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-8.6	-0.1126 ug/L	0.15012	-0.1126 ppb	0.15012	133.33%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-147.1	-0.4829 ug/L	0.11180	-0.4829 ppb	0.11180	23.15%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.1	11.312 ug/L	23.6490	11.312 ppb	23.6490	209.06%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	142.3	27.287 ug/L	9.3167	27.287 ppb	9.3167	34.14%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.4	90.643 ug/L	42.9815	90.643 ppb	42.9815	47.42%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-91.9	-0.1236 ug/L	0.01342	-0.1236 ppb	0.01342	10.86%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-1.7	-0.1527 ug/L	1.01598	-0.1527 ppb	1.01598	665.33%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-209.2	-73.291 ug/L	9.0814	-73.291 ppb	9.0814	12.39%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	11.2	0.3576 ug/L	0.23222	0.3576 ppb	0.23222	64.93%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	1.2	1.0342 ug/L	2.92664	1.0342 ppb	2.92664	282.98%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-2.3	-0.3499 ug/L	0.63501	-0.3499 ppb	0.63501	181.49%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-2.0	-3.5379 ug/L	5.33471	-3.5379 ppb	5.33471	150.79%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	7.4	3.0834 ug/L	2.29678	3.0834 ppb	2.29678	74.49%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.3	-0.2355 ug/L	1.96249	-0.2355 ppb	1.96249	833.40%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	109.6	4.1265 ug/L	0.32563	4.1265 ppb	0.32563	7.89%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	2.6	0.5845 ug/L	0.20323	0.5845 ppb	0.20323	34.77%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	4.4	0.0336 ug/L	0.07664	0.0336 ppb	0.07664	228.04%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	44.5	0.0704 ug/L	0.11178	0.0704 ppb	0.11178	158.69%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.0	1.1659 ug/L	2.91879	1.1659 ppb	2.91879	250.35%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-194.0	-5.8587 ug/L	5.09161	-5.8587 ppb	5.09161	86.91%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-28.9	-0.2438 ug/L	0.27255	-0.2438 ppb	0.27255	111.78%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	41.7	0.5010 ug/L	0.09442	0.5010 ppb	0.09442	18.84%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	100.9	8.0828 ug/L	0.92868	8.0828 ppb	0.92868	11.49%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 44

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 3/16/2010 23:53:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4261.2	4261.2	92.9 %		23:55:22
1	Y RADIAL	4666.4	4666.4	94.57 %		23:55:02
1	Al 396.153Radial†	5007.0	5476.3	5123.9 ug/L	5123.9 ppb	23:55:02
1	Ca 317.933Radial†	2786.5	2972.1	5253.5 ug/L	5253.5 ppb	23:55:22
1	Fe 238.204 Radial†	475.7	504.3	5298.6 ug/L	5298.6 ppb	23:55:22
1	K 766.490 Radial†	27765.6	27336.7	5230.4 ug/L	5230.4 ppb	23:55:02
1	Mg 279.077 IEC†	134.2	144.4	5493.3 ug/L	5493.3 ppb	23:55:22
1	Na 589.592 Radial†	27562.8	30479.2	10679 ug/L	10679 ppb	23:55:02
1	Sr 421.552†	64349.0	69252.4	529.00 ug/L	529.00 ppb	23:55:02
1	Sc 361.383	809274.1	809274.1	99.550 %		23:56:19
1	Y 371.029	674710.2	674710.2	97.864 %		23:56:19
1	Ag 328.068†	97521.7	97751.5	505.01 ug/L	505.01 ppb	23:56:24
1	As 188.979†	894.4	915.4	513.75 ug/L	513.75 ppb	23:56:45
1	B 249.677†	17331.8	17825.4	496.52 ug/L	496.52 ppb	23:56:24
1	Ba 233.527†	53695.5	53925.5	505.85 ug/L	505.85 ppb	23:56:24
1	Be 313.107†	1187597.7	1196689.6	511.94 ug/L	511.94 ppb	23:56:19
1	Cd 226.502†	34626.8	34959.6	506.40 ug/L	506.40 ppb	23:56:24
1	Co 228.616†	19669.3	19797.9	514.45 ug/L	514.45 ppb	23:56:24
1	Cr 267.716†	37564.6	37654.7	506.65 ug/L	506.65 ppb	23:56:24
1	Cu 324.752†	155576.9	150813.2	499.19 ug/L	499.19 ppb	23:56:24
1	Mn 257.610†	375164.5	376307.7	495.75 ug/L	495.75 ppb	23:56:24
1	Mo 202.031†	5723.2	5736.2	504.91 ug/L	504.91 ppb	23:56:45
1	Ni 231.604†	16088.9	16080.1	511.66 ug/L	511.66 ppb	23:56:24
1	P 214.914†	3511.9	3343.9	2420.7 ug/L	2420.7 ppb	23:56:45
1	Pb 220.353†	3233.9	3291.3	509.21 ug/L	509.21 ppb	23:56:45
1	S 181.975 Axial†	583.5	556.0	991.80 ug/L	991.80 ppb	23:56:45
1	Sb 206.836†	1217.5	1198.5	514.39 ug/L	514.39 ppb	23:56:45
1	Se 196.026†	589.1	610.5	525.03 ug/L	525.03 ppb	23:56:45
1	Si 251.611†	67603.2	67410.3	2530.6 ug/L	2530.6 ppb	23:56:24
1	Sn 189.927†	2220.4	2222.5	501.03 ug/L	501.03 ppb	23:56:45
1	Ti 334.940†	282069.0	284430.1	491.38 ug/L	491.38 ppb	23:56:24
1	Tl 190.801†	1290.5	1328.1	514.61 ug/L	514.61 ppb	23:56:45
1	U 409.014†	14833.1	16981.1	511.12 ug/L	511.12 ppb	23:56:24
1	V 292.402†	61336.0	62930.7	509.50 ug/L	509.50 ppb	23:56:24
1	Zn 213.857†	42903.0	42479.7	508.46 ug/L	508.46 ppb	23:56:24
1	SiO2†	68612.3	68426.8	5466.0 ug/L	5466.0 ppb	23:57:52
2	Sc Radial	4271.5	4271.5	93.1 %		23:55:47
2	Y RADIAL	4866.7	4866.7	98.63 %		23:55:27
2	Al 396.153Radial†	5213.6	5685.3	5320.4 ug/L	5320.4 ppb	23:55:27
2	Ca 317.933Radial†	2818.3	2999.1	5301.2 ug/L	5301.2 ppb	23:55:47
2	Fe 238.204 Radial†	473.6	500.7	5262.0 ug/L	5262.0 ppb	23:55:47
2	K 766.490 Radial†	28706.4	28275.2	5410.0 ug/L	5410.0 ppb	23:55:27
2	Mg 279.077 IEC†	135.8	145.8	5546.9 ug/L	5546.9 ppb	23:55:47
2	Na 589.592 Radial†	28801.7	31738.4	11121 ug/L	11121 ppb	23:55:27
2	Sr 421.552†	67368.9	72328.9	552.50 ug/L	552.50 ppb	23:55:27
2	Sc 361.383	802380.2	802380.2	98.702 %		23:56:50
2	Y 371.029	669233.8	669233.8	97.070 %		23:56:50
2	Ag 328.068†	97722.2	98796.3	510.39 ug/L	510.39 ppb	23:56:55
2	As 188.979†	874.7	903.2	506.98 ug/L	506.98 ppb	23:57:15
2	B 249.677†	17449.0	18093.7	504.02 ug/L	504.02 ppb	23:56:55
2	Ba 233.527†	53814.8	54509.8	511.33 ug/L	511.33 ppb	23:56:55
2	Be 313.107†	1179121.2	1198351.4	512.66 ug/L	512.66 ppb	23:56:50
2	Cd 226.502†	34653.8	35285.7	511.13 ug/L	511.13 ppb	23:56:55
2	Co 228.616†	19683.2	19981.8	519.21 ug/L	519.21 ppb	23:56:55
2	Cr 267.716†	37754.6	38171.4	513.59 ug/L	513.59 ppb	23:56:55
2	Cu 324.752†	155896.2	152479.5	504.70 ug/L	504.70 ppb	23:56:55
2	Mn 257.610†	376346.9	380743.5	501.59 ug/L	501.59 ppb	23:56:55
2	Mo 202.031†	5654.7	5716.2	503.14 ug/L	503.14 ppb	23:57:15
2	Ni 231.604†	16201.6	16333.1	519.72 ug/L	519.72 ppb	23:56:55

2	P 214.914†	3489.3	3351.2	2425.3 ug/L	2425.3 ppb	23:57:15
2	Pb 220.353†	3214.6	3299.7	510.55 ug/L	510.55 ppb	23:57:15
2	S 181.975 Axial†	577.9	555.3	990.54 ug/L	990.54 ppb	23:57:15
2	Sb 206.836†	1212.0	1203.4	516.39 ug/L	516.39 ppb	23:57:15
2	Se 196.026†	581.4	607.9	522.77 ug/L	522.77 ppb	23:57:15
2	Si 251.611†	67767.5	68160.2	2558.9 ug/L	2558.9 ppb	23:56:55
2	Sn 189.927†	2200.2	2221.2	500.75 ug/L	500.75 ppb	23:57:15
2	Ti 334.940†	282648.4	287451.5	496.60 ug/L	496.60 ppb	23:56:55
2	Tl 190.801†	1268.3	1316.8	510.30 ug/L	510.30 ppb	23:57:15
2	U 409.014†	14783.1	17058.5	513.44 ug/L	513.44 ppb	23:56:55
2	V 292.402†	61590.8	63718.2	515.77 ug/L	515.77 ppb	23:56:55
2	Zn 213.857†	43202.2	43153.1	516.54 ug/L	516.54 ppb	23:56:55
2	SiO2†	67828.0	68224.4	5449.9 ug/L	5449.9 ppb	23:57:57
3	Sc Radial	4277.4	4277.4	93.2 %		23:56:12
3	Y RADIAL	4807.3	4807.3	97.43 %		23:55:52
3	Al 396.153Radial†	5148.1	5607.3	5247.2 ug/L	5247.2 ppb	23:55:52
3	Ca 317.933Radial†	2811.2	2987.2	5280.2 ug/L	5280.2 ppb	23:56:12
3	Fe 238.204 Radial†	478.4	505.2	5308.5 ug/L	5308.5 ppb	23:56:12
3	K 766.490 Radial†	28293.6	27789.8	5317.2 ug/L	5317.2 ppb	23:55:52
3	Mg 279.077 IEC†	135.4	145.2	5524.9 ug/L	5524.9 ppb	23:56:12
3	Na 589.592 Radial†	28160.3	31007.7	10865 ug/L	10865 ppb	23:55:52
3	Sr 421.552†	66276.3	71057.1	542.79 ug/L	542.79 ppb	23:55:52
3	Sc 361.383	808440.4	808440.4	99.448 %		23:57:21
3	Y 371.029	673382.4	673382.4	97.671 %		23:57:21
3	Ag 328.068†	97946.1	98279.2	507.74 ug/L	507.74 ppb	23:57:26
3	As 188.979†	889.2	911.2	511.40 ug/L	511.40 ppb	23:57:46
3	B 249.677†	17413.8	17925.9	499.32 ug/L	499.32 ppb	23:57:26
3	Ba 233.527†	53973.7	54260.9	509.00 ug/L	509.00 ppb	23:57:26
3	Be 313.107†	1184378.2	1194682.6	511.09 ug/L	511.09 ppb	23:57:21
3	Cd 226.502†	34696.8	35065.8	507.94 ug/L	507.94 ppb	23:57:26
3	Co 228.616†	19757.1	19906.6	517.26 ug/L	517.26 ppb	23:57:26
3	Cr 267.716†	37763.0	37893.1	509.86 ug/L	509.86 ppb	23:57:26
3	Cu 324.752†	156213.9	151615.0	501.84 ug/L	501.84 ppb	23:57:26
3	Mn 257.610†	377171.1	378714.1	498.92 ug/L	498.92 ppb	23:57:26
3	Mo 202.031†	5680.7	5699.4	501.67 ug/L	501.67 ppb	23:57:46
3	Ni 231.604†	16201.8	16210.3	515.81 ug/L	515.81 ppb	23:57:26
3	P 214.914†	3490.3	3325.8	2406.6 ug/L	2406.6 ppb	23:57:46
3	Pb 220.353†	3192.9	3253.4	503.38 ug/L	503.38 ppb	23:57:46
3	S 181.975 Axial†	577.4	550.5	981.86 ug/L	981.86 ppb	23:57:46
3	Sb 206.836†	1199.0	1181.1	507.11 ug/L	507.11 ppb	23:57:46
3	Se 196.026†	583.1	605.1	520.57 ug/L	520.57 ppb	23:57:46
3	Si 251.611†	67806.8	67685.0	2541.0 ug/L	2541.0 ppb	23:57:26
3	Sn 189.927†	2210.1	2214.3	499.21 ug/L	499.21 ppb	23:57:46
3	Ti 334.940†	283451.9	286112.8	494.29 ug/L	494.29 ppb	23:57:26
3	Tl 190.801†	1276.4	1315.2	509.68 ug/L	509.68 ppb	23:57:46
3	U 409.014†	14907.0	17070.8	513.82 ug/L	513.82 ppb	23:57:26
3	V 292.402†	61749.2	63409.8	513.28 ug/L	513.28 ppb	23:57:26
3	Zn 213.857†	43131.7	42754.0	511.75 ug/L	511.75 ppb	23:57:26
3	SiO2†	67594.9	67474.9	5389.9 ug/L	5389.9 ppb	23:58:02

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	806698.2	99.234 %	0.4629			0.47%
Sc Radial	4270.0	93.1 %	0.18			0.19%
Y 371.029	672442.2	97.535 %	0.4144			0.42%
Y RADIAL	4780.1	96.88 %	2.085			2.15%
Ag 328.068†	98275.7	507.71 ug/L	2.688	507.71 ppb	2.688	0.53%
QC value within limits for Ag 328.068 Recovery = 101.54%						
Al 396.153Radial†	5589.6	5230.5 ug/L	99.34	5230.5 ppb	99.34	1.90%
QC value within limits for Al 396.153Radial Recovery = 104.61%						
As 188.979†	909.9	510.71 ug/L	3.433	510.71 ppb	3.433	0.67%
QC value within limits for As 188.979 Recovery = 102.14%						
B 249.677†	17948.4	499.95 ug/L	3.791	499.95 ppb	3.791	0.76%
QC value within limits for B 249.677 Recovery = 99.99%						
Ba 233.527†	54232.0	508.73 ug/L	2.750	508.73 ppb	2.750	0.54%
QC value within limits for Ba 233.527 Recovery = 101.75%						
Be 313.107†	1196574.5	511.90 ug/L	0.787	511.90 ppb	0.787	0.15%
QC value within limits for Be 313.107 Recovery = 102.38%						
Ca 317.933Radial†	2986.1	5278.3 ug/L	23.91	5278.3 ppb	23.91	0.45%

QC value within limits for Ca 317.933 Radial Recovery = 105.57%							
Cd	226.502†	35103.7	508.49 ug/L	2.415	508.49 ppb	2.415	0.47%
QC value within limits for Cd 226.502 Recovery = 101.70%							
Co	228.616†	19895.5	516.97 ug/L	2.394	516.97 ppb	2.394	0.46%
QC value within limits for Co 228.616 Recovery = 103.39%							
Cr	267.716†	37906.4	510.03 ug/L	3.475	510.03 ppb	3.475	0.68%
QC value within limits for Cr 267.716 Recovery = 102.01%							
Cu	324.752†	151635.9	501.91 ug/L	2.757	501.91 ppb	2.757	0.55%
QC value within limits for Cu 324.752 Recovery = 100.38%							
Fe	238.204 Radial†	503.4	5289.7 ug/L	24.49	5289.7 ppb	24.49	0.46%
QC value within limits for Fe 238.204 Radial Recovery = 105.79%							
K	766.490 Radial†	27800.6	5319.2 ug/L	89.82	5319.2 ppb	89.82	1.69%
QC value within limits for K 766.490 Radial Recovery = 106.38%							
Mg	279.077 IEC†	145.1	5521.7 ug/L	26.96	5521.7 ppb	26.96	0.49%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 110.43%							
Mn	257.610†	378588.5	498.75 ug/L	2.921	498.75 ppb	2.921	0.59%
QC value within limits for Mn 257.610 Recovery = 99.75%							
Mo	202.031†	5717.2	503.24 ug/L	1.620	503.24 ppb	1.620	0.32%
QC value within limits for Mo 202.031 Recovery = 100.65%							
Na	589.592 Radial†	31075.1	10888 ug/L	221.5	10888 ppb	221.5	2.03%
QC value within limits for Na 589.592 Radial Recovery = 108.88%							
Ni	231.604†	16207.8	515.73 ug/L	4.027	515.73 ppb	4.027	0.78%
QC value within limits for Ni 231.604 Recovery = 103.15%							
P	214.914†	3340.3	2417.5 ug/L	9.73	2417.5 ppb	9.73	0.40%
QC value within limits for P 214.914 Recovery = 96.70%							
Pb	220.353†	3281.4	507.71 ug/L	3.809	507.71 ppb	3.809	0.75%
QC value within limits for Pb 220.353 Recovery = 101.54%							
S	181.975 Axial†	553.9	988.06 ug/L	5.413	988.06 ppb	5.413	0.55%
QC value within limits for S 181.975 Axial Recovery = 98.81%							
Sb	206.836†	1194.3	512.63 ug/L	4.884	512.63 ppb	4.884	0.95%
QC value within limits for Sb 206.836 Recovery = 102.53%							
Se	196.026†	607.8	522.79 ug/L	2.231	522.79 ppb	2.231	0.43%
QC value within limits for Se 196.026 Recovery = 104.56%							
Si	251.611†	67751.8	2543.5 ug/L	14.29	2543.5 ppb	14.29	0.56%
QC value within limits for Si 251.611 Recovery = 101.74%							
Sn	189.927†	2219.3	500.33 ug/L	0.982	500.33 ppb	0.982	0.20%
QC value within limits for Sn 189.927 Recovery = 100.07%							
Sr	421.552†	70879.5	541.43 ug/L	11.810	541.43 ppb	11.810	2.18%
QC value within limits for Sr 421.552 Recovery = 108.29%							
Ti	334.940†	285998.1	494.09 ug/L	2.616	494.09 ppb	2.616	0.53%
QC value within limits for Ti 334.940 Recovery = 98.82%							
Tl	190.801†	1320.0	511.53 ug/L	2.683	511.53 ppb	2.683	0.52%
QC value within limits for Tl 190.801 Recovery = 102.31%							
U	409.014†	17036.8	512.79 ug/L	1.463	512.79 ppb	1.463	0.29%
QC value within limits for U 409.014 Recovery = 102.56%							
V	292.402†	63352.9	512.85 ug/L	3.157	512.85 ppb	3.157	0.62%
QC value within limits for V 292.402 Recovery = 102.57%							
Zn	213.857†	42795.6	512.25 ug/L	4.065	512.25 ppb	4.065	0.79%
QC value within limits for Zn 213.857 Recovery = 102.45%							
SiO2†		68042.0	5435.3 ug/L	40.12	5435.3 ppb	40.12	0.74%
QC value within limits for SiO2 Recovery = 101.64%							
QC Failed. Continue with analysis.							

Sequence No.: 45

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 6

Date Collected: 3/17/2010 00:00:11

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4428.6	4428.6	96.5 %		00:02:03
1	Y RADIAL	4765.1	4765.1	96.57 %		00:02:03
1	Al 396.153Radial†	-79.0	3.9	3.7099 ug/L	3.7099 ppb	00:02:23
1	Ca 317.933Radial†	16.5	-10.7	-18.930 ug/L	-18.930 ppb	00:02:23
1	Fe 238.204 Radial†	7.7	0.2	1.7483 ug/L	1.7483 ppb	00:02:23
1	K 766.490 Radial†	2636.2	175.1	33.572 ug/L	33.572 ppb	00:02:03
1	Mg 279.077 IEC†	1.7	1.7	65.878 ug/L	65.878 ppb	00:02:23
1	Na 589.592 Radial†	-972.1	-201.9	-70.744 ug/L	-70.744 ppb	00:02:03
1	Sr 421.552†	67.6	44.3	0.3383 ug/L	0.3383 ppb	00:02:03
1	Sc 361.383	766893.4	766893.4	94.337 %		00:03:20
1	Y 371.029	648717.3	648717.3	94.094 %		00:03:20
1	Ag 328.068†	184.6	-14.9	-0.0696 ug/L	-0.0696 ppb	00:03:20
1	As 188.979†	-22.1	-6.4	-3.5703 ug/L	-3.5703 ppb	00:03:40
1	B 249.677†	-156.3	249.6	6.9865 ug/L	6.9865 ppb	00:03:40
1	Ba 233.527†	16.3	4.7	0.0441 ug/L	0.0441 ppb	00:03:40
1	Be 313.107†	-3748.1	-244.1	-0.1045 ug/L	-0.1045 ppb	00:03:20
1	Cd 226.502†	-168.1	-1.9	-0.0290 ug/L	-0.0290 ppb	00:03:40
1	Co 228.616†	-50.5	-13.7	-0.3566 ug/L	-0.3566 ppb	00:03:40
1	Cr 267.716†	52.0	-24.4	-0.3241 ug/L	-0.3241 ppb	00:03:40
1	Cu 324.752†	5209.9	56.4	0.1915 ug/L	0.1915 ppb	00:03:20
1	Mn 257.610†	475.2	-47.2	-0.0646 ug/L	-0.0646 ppb	00:03:40
1	Mo 202.031†	9.7	-2.6	-0.2292 ug/L	-0.2292 ppb	00:03:40
1	Ni 231.604†	77.5	0.7	0.0238 ug/L	0.0238 ppb	00:03:40
1	P 214.914†	190.7	18.2	13.716 ug/L	13.716 ppb	00:03:40
1	Pb 220.353†	-68.1	-29.4	-4.5324 ug/L	-4.5324 ppb	00:03:40
1	S 181.975 Axial†	25.7	-2.9	-5.1173 ug/L	-5.1173 ppb	00:03:40
1	Sb 206.836†	37.2	14.9	6.1920 ug/L	6.1920 ppb	00:03:40
1	Se 196.026†	-12.1	6.0	4.9761 ug/L	4.9761 ppb	00:03:40
1	Si 251.611†	667.4	209.2	7.8763 ug/L	7.8763 ppb	00:03:40
1	Sn 189.927†	16.8	9.9	2.2158 ug/L	2.2158 ppb	00:03:40
1	Ti 334.940†	-1106.3	-85.4	-0.1516 ug/L	-0.1516 ppb	00:03:20
1	Tl 190.801†	-27.6	2.6	0.9964 ug/L	0.9964 ppb	00:03:40
1	U 409.014†	-2226.9	-279.6	-8.4433 ug/L	-8.4433 ppb	00:03:20
1	V 292.402†	-1263.3	-21.4	-0.1894 ug/L	-0.1894 ppb	00:03:20
1	Zn 213.857†	683.2	107.1	1.2931 ug/L	1.2931 ppb	00:03:40
1	SiO2†	647.3	190.8	15.287 ug/L	15.287 ppb	00:04:51
2	Sc Radial	4306.0	4306.0	93.9 %		00:02:28
2	Y RADIAL	4632.3	4632.3	93.88 %		00:02:28
2	Al 396.153Radial†	-76.5	4.3	4.0295 ug/L	4.0295 ppb	00:02:48
2	Ca 317.933Radial†	16.7	-10.1	-17.802 ug/L	-17.802 ppb	00:02:48
2	Fe 238.204 Radial†	7.8	0.4	4.1842 ug/L	4.1842 ppb	00:02:48
2	K 766.490 Radial†	2600.9	215.2	41.270 ug/L	41.270 ppb	00:02:28
2	Mg 279.077 IEC†	0.0	-0.0	-1.0070 ug/L	-1.0070 ppb	00:02:48
2	Na 589.592 Radial†	-977.8	-236.6	-82.905 ug/L	-82.905 ppb	00:02:28
2	Sr 421.552†	8.8	-16.4	-0.1253 ug/L	-0.1253 ppb	00:02:28
2	Sc 361.383	767699.8	767699.8	94.436 %		00:03:45
2	Y 371.029	649552.3	649552.3	94.215 %		00:03:45
2	Ag 328.068†	246.6	50.5	0.2614 ug/L	0.2614 ppb	00:03:45
2	As 188.979†	-20.3	-4.5	-2.4808 ug/L	-2.4808 ppb	00:04:05
2	B 249.677†	-189.3	214.9	6.0139 ug/L	6.0139 ppb	00:04:05
2	Ba 233.527†	11.1	-0.7	-0.0071 ug/L	-0.0071 ppb	00:04:05
2	Be 313.107†	-3685.9	-174.0	-0.0747 ug/L	-0.0747 ppb	00:03:45
2	Cd 226.502†	-176.4	-10.4	-0.1516 ug/L	-0.1516 ppb	00:04:05
2	Co 228.616†	-34.8	2.9	0.0786 ug/L	0.0786 ppb	00:04:05
2	Cr 267.716†	72.1	-3.2	-0.0417 ug/L	-0.0417 ppb	00:04:05
2	Cu 324.752†	5265.9	109.9	0.3650 ug/L	0.3650 ppb	00:03:45
2	Mn 257.610†	470.4	-52.8	-0.0690 ug/L	-0.0690 ppb	00:04:05
2	Mo 202.031†	20.4	8.8	0.7726 ug/L	0.7726 ppb	00:04:05
2	Ni 231.604†	76.0	-0.9	-0.0289 ug/L	-0.0289 ppb	00:04:05

2	P 214.914†	188.4	15.6	11.671 ug/L	11.671 ppb	00:04:05
2	Pb 220.353†	-32.4	8.5	1.3124 ug/L	1.3124 ppb	00:04:05
2	S 181.975 Axial†	25.9	-2.7	-4.8828 ug/L	-4.8828 ppb	00:04:05
2	Sb 206.836†	25.6	2.6	1.0676 ug/L	1.0676 ppb	00:04:05
2	Se 196.026†	-15.9	1.9	1.6180 ug/L	1.6180 ppb	00:04:05
2	Si 251.611†	656.1	196.5	7.3851 ug/L	7.3851 ppb	00:04:05
2	Sn 189.927†	2.2	-5.6	-1.2729 ug/L	-1.2729 ppb	00:04:05
2	Ti 334.940†	-1120.2	-98.9	-0.1723 ug/L	-0.1723 ppb	00:03:45
2	Tl 190.801†	-34.1	-4.4	-1.6828 ug/L	-1.6828 ppb	00:04:05
2	U 409.014†	-2029.5	-68.1	-2.0571 ug/L	-2.0571 ppb	00:03:45
2	V 292.402†	-1275.9	-33.4	-0.2602 ug/L	-0.2602 ppb	00:03:45
2	Zn 213.857†	667.8	90.1	1.0872 ug/L	1.0872 ppb	00:04:05
2	SiO2†	667.7	211.8	16.937 ug/L	16.937 ppb	00:05:11
3	Sc Radial	4484.4	4484.4	97.8 %		00:02:53
3	Y RADIAL	4827.6	4827.6	97.84 %		00:02:53
3	Al 396.153Radial†	-79.8	4.2	3.8978 ug/L	3.8978 ppb	00:03:13
3	Ca 317.933Radial†	17.6	-9.9	-17.427 ug/L	-17.427 ppb	00:03:13
3	Fe 238.204 Radial†	7.4	-0.2	-2.5497 ug/L	-2.5497 ppb	00:03:13
3	K 766.490 Radial†	2550.7	53.7	10.321 ug/L	10.321 ppb	00:02:53
3	Mg 279.077 IEC†	3.9	3.9	148.03 ug/L	148.03 ppb	00:03:13
3	Na 589.592 Radial†	-971.9	-189.2	-66.301 ug/L	-66.301 ppb	00:02:53
3	Sr 421.552†	27.0	1.9	0.0145 ug/L	0.0145 ppb	00:02:53
3	Sc 361.383	793124.5	793124.5	97.564 %		00:04:10
3	Y 371.029	671576.7	671576.7	97.410 %		00:04:10
3	Ag 328.068†	249.2	44.9	0.2321 ug/L	0.2321 ppb	00:04:10
3	As 188.979†	-17.0	-0.4	-0.2397 ug/L	-0.2397 ppb	00:04:30
3	B 249.677†	-195.7	214.7	6.0106 ug/L	6.0106 ppb	00:04:30
3	Ba 233.527†	5.6	-6.8	-0.0649 ug/L	-0.0649 ppb	00:04:30
3	Be 313.107†	-3750.9	-115.5	-0.0496 ug/L	-0.0496 ppb	00:04:10
3	Cd 226.502†	-158.5	13.9	0.2004 ug/L	0.2004 ppb	00:04:30
3	Co 228.616†	-47.0	-8.3	-0.2157 ug/L	-0.2157 ppb	00:04:30
3	Cr 267.716†	71.3	-6.4	-0.0852 ug/L	-0.0852 ppb	00:04:30
3	Cu 324.752†	5263.3	-71.5	-0.2334 ug/L	-0.2334 ppb	00:04:10
3	Mn 257.610†	448.6	-91.1	-0.1262 ug/L	-0.1262 ppb	00:04:30
3	Mo 202.031†	15.0	2.5	0.2230 ug/L	0.2230 ppb	00:04:30
3	Ni 231.604†	81.7	2.3	0.0735 ug/L	0.0735 ppb	00:04:30
3	P 214.914†	191.1	12.0	9.0539 ug/L	9.0539 ppb	00:04:30
3	Pb 220.353†	-54.3	-12.9	-1.9840 ug/L	-1.9840 ppb	00:04:30
3	S 181.975 Axial†	25.0	-4.5	-8.0867 ug/L	-8.0867 ppb	00:04:30
3	Sb 206.836†	25.6	1.7	0.7122 ug/L	0.7122 ppb	00:04:30
3	Se 196.026†	-13.9	4.6	3.7892 ug/L	3.7892 ppb	00:04:30
3	Si 251.611†	638.9	156.6	5.8916 ug/L	5.8916 ppb	00:04:30
3	Sn 189.927†	6.8	-1.0	-0.2359 ug/L	-0.2359 ppb	00:04:30
3	Ti 334.940†	-1120.6	-61.2	-0.1175 ug/L	-0.1175 ppb	00:04:10
3	Tl 190.801†	-19.3	12.0	4.6300 ug/L	4.6300 ppb	00:04:30
3	U 409.014†	-2230.9	-205.6	-6.2096 ug/L	-6.2096 ppb	00:04:10
3	V 292.402†	-1369.1	-85.6	-0.6889 ug/L	-0.6889 ppb	00:04:10
3	Zn 213.857†	665.8	65.3	0.7896 ug/L	0.7896 ppb	00:04:30
3	SiO2†	659.3	180.5	14.446 ug/L	14.446 ppb	00:05:31

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	775905.9	95.446 %	1.8350			1.92%
Sc Radial	4406.3	96.0 %	1.99			2.07%
Y 371.029	656615.5	95.239 %	1.8803			1.97%
Y RADIAL	4741.6	96.10 %	2.021			2.10%
Ag 328.068†	26.8	0.1413 ug/L	0.18326	0.1413 ppb	0.18326	129.68%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	4.1	3.8791 ug/L	0.16064	3.8791 ppb	0.16064	4.14%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-3.8	-2.0969 ug/L	1.69817	-2.0969 ppb	1.69817	80.98%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	226.4	6.3370 ug/L	0.56251	6.3370 ppb	0.56251	8.88%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-0.9	-0.0093 ug/L	0.05456	-0.0093 ppb	0.05456	585.91%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-177.9	-0.0763 ug/L	0.02753	-0.0763 ppb	0.02753	36.10%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-10.2	-18.053 ug/L	0.7821	-18.053 ppb	0.7821	4.33%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	0.5	0.0066 ug/L	0.17864	0.0066 ppb	0.17864	>999.9%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.4	-0.1646 ug/L	0.22208	-0.1646 ppb	0.22208	134.95%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-11.3	-0.1504 ug/L	0.15207	-0.1504 ppb	0.15207	101.14%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	31.6	0.1077 ug/L	0.30788	0.1077 ppb	0.30788	285.82%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	0.1	1.1276 ug/L	3.40958	1.1276 ppb	3.40958	302.38%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	148.0	28.388 ug/L	16.1129	28.388 ppb	16.1129	56.76%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.9	70.965 ug/L	74.6461	70.965 ppb	74.6461	105.19%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-63.7	-0.0866 ug/L	0.03437	-0.0866 ppb	0.03437	39.67%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.9	0.2555 ug/L	0.50170	0.2555 ppb	0.50170	196.39%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-209.2	-73.317 ug/L	8.5955	-73.317 ppb	8.5955	11.72%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	0.7	0.0228 ug/L	0.05122	0.0228 ppb	0.05122	224.53%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	15.3	11.481 ug/L	2.3371	11.481 ppb	2.3371	20.36%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-11.3	-1.7347 ug/L	2.93035	-1.7347 ppb	2.93035	168.93%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-3.4	-6.0289 ug/L	1.78592	-6.0289 ppb	1.78592	29.62%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	6.4	2.6572 ug/L	3.06635	2.6572 ppb	3.06635	115.40%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.2	3.4611 ug/L	1.70291	3.4611 ppb	1.70291	49.20%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	187.4	7.0510 ug/L	1.03365	7.0510 ppb	1.03365	14.66%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.1	0.2357 ug/L	1.79152	0.2357 ppb	1.79152	760.16%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	9.9	0.0758 ug/L	0.23783	0.0758 ppb	0.23783	313.65%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-81.8	-0.1471 ug/L	0.02767	-0.1471 ppb	0.02767	18.81%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.4	1.3145 ug/L	3.16837	1.3145 ppb	3.16837	241.03%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-184.4	-5.5700 ug/L	3.24078	-5.5700 ppb	3.24078	58.18%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-46.8	-0.3795 ug/L	0.27032	-0.3795 ppb	0.27032	71.23%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	87.5	1.0566 ug/L	0.25314	1.0566 ppb	0.25314	23.96%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	194.3	15.557 ug/L	1.2673	15.557 ppb	1.2673	8.15%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 52

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 00:50:17

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4379.7	4379.7	95.5 %		00:52:09
1	Y RADIAL	4686.5	4686.5	94.98 %		00:52:09
1	Al 396.153Radial†	5215.9	5549.3	5192.5 ug/L	5192.5 ppb	00:52:09
1	Ca 317.933Radial†	2803.1	2908.3	5140.7 ug/L	5140.7 ppb	00:52:29
1	Fe 238.204 Radial†	472.8	487.4	5122.0 ug/L	5122.0 ppb	00:52:29
1	K 766.490 Radial†	28532.8	27331.4	5229.5 ug/L	5229.5 ppb	00:52:09
1	Mg 279.077 IEC†	129.9	136.0	5175.6 ug/L	5175.6 ppb	00:52:29
1	Na 589.592 Radial†	27796.6	29921.1	10484 ug/L	10484 ppb	00:52:09
1	Sr 421.552†	65988.2	69094.9	527.80 ug/L	527.80 ppb	00:52:09
1	Sc 361.383	813805.4	813805.4	100.11 %		00:53:27
1	Y 371.029	678726.0	678726.0	98.447 %		00:53:27
1	Ag 328.068†	99313.2	98995.6	511.36 ug/L	511.36 ppb	00:53:32
1	As 188.979†	892.6	908.7	509.98 ug/L	509.98 ppb	00:53:52
1	B 249.677†	17486.8	17883.3	498.15 ug/L	498.15 ppb	00:53:32
1	Ba 233.527†	54555.0	54483.8	511.09 ug/L	511.09 ppb	00:53:32
1	Be 313.107†	1201405.9	1203840.6	515.00 ug/L	515.00 ppb	00:53:27
1	Cd 226.502†	35140.1	35278.6	511.05 ug/L	511.05 ppb	00:53:32
1	Co 228.616†	19966.7	19985.0	519.30 ug/L	519.30 ppb	00:53:32
1	Cr 267.716†	38151.6	38030.9	511.69 ug/L	511.69 ppb	00:53:32
1	Cu 324.752†	158182.4	152545.7	504.91 ug/L	504.91 ppb	00:53:32
1	Mn 257.610†	388301.0	387331.7	510.26 ug/L	510.26 ppb	00:53:27
1	Mo 202.031†	5760.0	5740.9	505.31 ug/L	505.31 ppb	00:53:52
1	Ni 231.604†	16384.7	16285.7	518.21 ug/L	518.21 ppb	00:53:32
1	P 214.914†	3541.1	3353.4	2426.9 ug/L	2426.9 ppb	00:53:52
1	Pb 220.353†	3244.3	3283.6	508.06 ug/L	508.06 ppb	00:53:52
1	S 181.975 Axial†	580.2	549.4	980.01 ug/L	980.01 ppb	00:53:52
1	Sb 206.836†	1223.4	1197.6	514.02 ug/L	514.02 ppb	00:53:52
1	Se 196.026†	599.7	617.8	530.59 ug/L	530.59 ppb	00:53:52
1	Si 251.611†	68496.2	67924.2	2550.0 ug/L	2550.0 ppb	00:53:32
1	Sn 189.927†	2227.8	2217.4	499.89 ug/L	499.89 ppb	00:53:52
1	Ti 334.940†	286515.9	287294.5	496.34 ug/L	496.34 ppb	00:53:32
1	Tl 190.801†	1283.5	1313.9	509.22 ug/L	509.22 ppb	00:53:52
1	U 409.014†	15231.2	17295.8	520.63 ug/L	520.63 ppb	00:53:32
1	V 292.402†	62527.6	63777.9	516.31 ug/L	516.31 ppb	00:53:32
1	Zn 213.857†	43627.6	42963.4	514.28 ug/L	514.28 ppb	00:53:32
1	SiO2†	69233.6	68663.7	5485.0 ug/L	5485.0 ppb	00:54:59
2	Sc Radial	4445.8	4445.8	96.9 %		00:52:34
2	Y RADIAL	4728.0	4728.0	95.82 %		00:52:34
2	Al 396.153Radial†	5119.1	5368.1	5022.3 ug/L	5022.3 ppb	00:52:34
2	Ca 317.933Radial†	2800.5	2861.9	5058.7 ug/L	5058.7 ppb	00:52:54
2	Fe 238.204 Radial†	469.5	476.6	5009.2 ug/L	5009.2 ppb	00:52:54
2	K 766.490 Radial†	28183.5	26526.4	5075.5 ug/L	5075.5 ppb	00:52:34
2	Mg 279.077 IEC†	133.6	137.8	5243.5 ug/L	5243.5 ppb	00:52:54
2	Na 589.592 Radial†	27280.7	28955.6	10146 ug/L	10146 ppb	00:52:34
2	Sr 421.552†	65144.3	67195.6	513.29 ug/L	513.29 ppb	00:52:34
2	Sc 361.383	814195.6	814195.6	100.16 %		00:53:58
2	Y 371.029	677931.1	677931.1	98.331 %		00:53:58
2	Ag 328.068†	99388.4	99023.1	511.47 ug/L	511.47 ppb	00:54:03
2	As 188.979†	887.0	902.6	506.60 ug/L	506.60 ppb	00:54:23
2	B 249.677†	17574.2	17962.2	500.38 ug/L	500.38 ppb	00:54:03
2	Ba 233.527†	54635.0	54537.5	511.59 ug/L	511.59 ppb	00:54:03
2	Be 313.107†	1196150.7	1198018.4	512.52 ug/L	512.52 ppb	00:53:58
2	Cd 226.502†	35108.2	35229.9	510.35 ug/L	510.35 ppb	00:54:03
2	Co 228.616†	19986.5	19995.2	519.56 ug/L	519.56 ppb	00:54:03
2	Cr 267.716†	38196.5	38057.5	512.04 ug/L	512.04 ppb	00:54:03
2	Cu 324.752†	158813.1	153099.7	506.74 ug/L	506.74 ppb	00:54:03
2	Mn 257.610†	387824.4	386670.0	509.38 ug/L	509.38 ppb	00:53:58
2	Mo 202.031†	5719.3	5697.5	501.48 ug/L	501.48 ppb	00:54:23
2	Ni 231.604†	16404.5	16297.5	518.58 ug/L	518.58 ppb	00:54:03

2	P 214.914†	3501.8	3312.5	2395.7 ug/L	2395.7 ppb	00:54:23
2	Pb 220.353†	3224.4	3262.2	504.72 ug/L	504.72 ppb	00:54:23
2	S 181.975 Axial†	586.9	555.8	991.48 ug/L	991.48 ppb	00:54:23
2	Sb 206.836†	1224.7	1198.3	514.18 ug/L	514.18 ppb	00:54:23
2	Se 196.026†	595.3	613.1	526.30 ug/L	526.30 ppb	00:54:23
2	Si 251.611†	68598.1	67993.1	2552.6 ug/L	2552.6 ppb	00:54:03
2	Sn 189.927†	2211.4	2200.0	495.95 ug/L	495.95 ppb	00:54:23
2	Ti 334.940†	287537.0	288176.8	497.85 ug/L	497.85 ppb	00:54:03
2	Tl 190.801†	1289.8	1319.6	511.41 ug/L	511.41 ppb	00:54:23
2	U 409.014†	15223.5	17280.8	520.19 ug/L	520.19 ppb	00:54:03
2	V 292.402†	62582.1	63802.5	516.47 ug/L	516.47 ppb	00:54:03
2	Zn 213.857†	43601.3	42916.3	513.73 ug/L	513.73 ppb	00:54:03
2	SiO2†	67749.1	67148.4	5363.7 ug/L	5363.7 ppb	00:55:04
3	Sc Radial	4517.3	4517.3	98.5 %		00:53:00
3	Y RADIAL	4844.7	4844.7	98.18 %		00:53:00
3	Al 396.153Radial†	5233.5	5400.7	5052.7 ug/L	5052.7 ppb	00:53:00
3	Ca 317.933Radial†	2813.5	2829.4	5001.2 ug/L	5001.2 ppb	00:53:20
3	Fe 238.204 Radial†	479.2	478.8	5032.3 ug/L	5032.3 ppb	00:53:20
3	K 766.490 Radial†	28694.4	26585.0	5086.7 ug/L	5086.7 ppb	00:53:00
3	Mg 279.077 IEC†	135.5	137.5	5231.9 ug/L	5231.9 ppb	00:53:20
3	Na 589.592 Radial†	27994.1	29234.6	10243 ug/L	10243 ppb	00:53:00
3	Sr 421.552†	66592.2	67602.3	516.40 ug/L	516.40 ppb	00:53:00
3	Sc 361.383	810882.7	810882.7	99.748 %		00:54:29
3	Y 371.029	677623.1	677623.1	98.287 %		00:54:29
3	Ag 328.068†	99361.1	99401.2	513.43 ug/L	513.43 ppb	00:54:34
3	As 188.979†	893.7	913.0	512.40 ug/L	512.40 ppb	00:54:54
3	B 249.677†	17515.1	17974.6	500.72 ug/L	500.72 ppb	00:54:34
3	Ba 233.527†	54519.0	54644.1	512.59 ug/L	512.59 ppb	00:54:34
3	Be 313.107†	1194134.5	1200876.5	513.74 ug/L	513.74 ppb	00:54:29
3	Cd 226.502†	35098.6	35363.5	512.29 ug/L	512.29 ppb	00:54:34
3	Co 228.616†	19907.1	19997.1	519.61 ug/L	519.61 ppb	00:54:34
3	Cr 267.716†	38173.1	38189.9	513.82 ug/L	513.82 ppb	00:54:34
3	Cu 324.752†	158279.6	153212.7	507.11 ug/L	507.11 ppb	00:54:34
3	Mn 257.610†	385290.0	385711.3	508.12 ug/L	508.12 ppb	00:54:29
3	Mo 202.031†	5758.0	5759.7	506.95 ug/L	506.95 ppb	00:54:54
3	Ni 231.604†	16356.1	16316.0	519.17 ug/L	519.17 ppb	00:54:34
3	P 214.914†	3516.2	3341.1	2417.3 ug/L	2417.3 ppb	00:54:54
3	Pb 220.353†	3231.9	3282.9	507.93 ug/L	507.93 ppb	00:54:54
3	S 181.975 Axial†	585.8	557.1	993.71 ug/L	993.71 ppb	00:54:54
3	Sb 206.836†	1227.3	1205.9	517.47 ug/L	517.47 ppb	00:54:54
3	Se 196.026†	588.6	608.8	522.84 ug/L	522.84 ppb	00:54:54
3	Si 251.611†	68432.7	68107.2	2556.8 ug/L	2556.8 ppb	00:54:34
3	Sn 189.927†	2208.7	2206.3	497.36 ug/L	497.36 ppb	00:54:54
3	Ti 334.940†	286923.5	288734.8	498.81 ug/L	498.81 ppb	00:54:34
3	Tl 190.801†	1277.8	1312.8	508.82 ug/L	508.82 ppb	00:54:54
3	U 409.014†	15091.0	17210.1	518.05 ug/L	518.05 ppb	00:54:34
3	V 292.402†	62616.5	64092.2	518.85 ug/L	518.85 ppb	00:54:34
3	Zn 213.857†	43576.7	43069.6	515.57 ug/L	515.57 ppb	00:54:34
3	SiO2†	67890.1	67566.1	5397.0 ug/L	5397.0 ppb	00:55:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	812961.2	100.00 %	0.223			0.22%
Sc Radial	4447.6	96.9 %	1.50			1.55%
Y 371.029	678093.4	98.355 %	0.0825			0.08%
Y RADIAL	4753.1	96.33 %	1.663			1.73%
Ag 328.068†	99140.0	512.09 ug/L	1.164	512.09 ppb	1.164	0.23%
QC value within limits for Ag 328.068 Recovery = 102.42%						
Al 396.153Radial†	5439.4	5089.2 ug/L	90.74	5089.2 ppb	90.74	1.78%
QC value within limits for Al 396.153Radial Recovery = 101.78%						
As 188.979†	908.1	509.66 ug/L	2.913	509.66 ppb	2.913	0.57%
QC value within limits for As 188.979 Recovery = 101.93%						
B 249.677†	17940.1	499.75 ug/L	1.395	499.75 ppb	1.395	0.28%
QC value within limits for B 249.677 Recovery = 99.95%						
Ba 233.527†	54555.1	511.76 ug/L	0.765	511.76 ppb	0.765	0.15%
QC value within limits for Ba 233.527 Recovery = 102.35%						
Be 313.107†	1200911.8	513.76 ug/L	1.241	513.76 ppb	1.241	0.24%
QC value within limits for Be 313.107 Recovery = 102.75%						
Ca 317.933Radial†	2866.5	5066.9 ug/L	70.08	5066.9 ppb	70.08	1.38%

QC value within limits for Ca 317.933 Radial Recovery = 101.34%

Cd 226.502†	35290.7	511.23 ug/L	0.979	511.23 ppb	0.979	0.19%
QC value within limits for Cd 226.502 Recovery = 102.25%						
Co 228.616†	19992.5	519.49 ug/L	0.167	519.49 ppb	0.167	0.03%
QC value within limits for Co 228.616 Recovery = 103.90%						
Cr 267.716†	38092.8	512.52 ug/L	1.143	512.52 ppb	1.143	0.22%
QC value within limits for Cr 267.716 Recovery = 102.50%						
Cu 324.752†	152952.7	506.25 ug/L	1.179	506.25 ppb	1.179	0.23%
QC value within limits for Cu 324.752 Recovery = 101.25%						
Fe 238.204 Radial†	480.9	5054.5 ug/L	59.55	5054.5 ppb	59.55	1.18%
QC value within limits for Fe 238.204 Radial Recovery = 101.09%						
K 766.490 Radial†	26814.3	5130.6 ug/L	85.90	5130.6 ppb	85.90	1.67%
QC value within limits for K 766.490 Radial Recovery = 102.61%						
Mg 279.077 IEC†	137.1	5217.0 ug/L	36.32	5217.0 ppb	36.32	0.70%
QC value within limits for Mg 279.077 IEC Recovery = 104.34%						
Mn 257.610†	386571.0	509.25 ug/L	1.078	509.25 ppb	1.078	0.21%
QC value within limits for Mn 257.610 Recovery = 101.85%						
Mo 202.031†	5732.7	504.58 ug/L	2.807	504.58 ppb	2.807	0.56%
QC value within limits for Mo 202.031 Recovery = 100.92%						
Na 589.592 Radial†	29370.4	10291 ug/L	174.1	10291 ppb	174.1	1.69%
QC value within limits for Na 589.592 Radial Recovery = 102.91%						
Ni 231.604†	16299.7	518.65 ug/L	0.486	518.65 ppb	0.486	0.09%
QC value within limits for Ni 231.604 Recovery = 103.73%						
P 214.914†	3335.7	2413.3 ug/L	15.96	2413.3 ppb	15.96	0.66%
QC value within limits for P 214.914 Recovery = 96.53%						
Pb 220.353†	3276.2	506.90 ug/L	1.894	506.90 ppb	1.894	0.37%
QC value within limits for Pb 220.353 Recovery = 101.38%						
S 181.975 Axial†	554.1	988.40 ug/L	7.352	988.40 ppb	7.352	0.74%
QC value within limits for S 181.975 Axial Recovery = 98.84%						
Sb 206.836†	1200.6	515.22 ug/L	1.952	515.22 ppb	1.952	0.38%
QC value within limits for Sb 206.836 Recovery = 103.04%						
Se 196.026†	613.3	526.58 ug/L	3.881	526.58 ppb	3.881	0.74%
QC value within limits for Se 196.026 Recovery = 105.32%						
Si 251.611†	68008.2	2553.1 ug/L	3.46	2553.1 ppb	3.46	0.14%
QC value within limits for Si 251.611 Recovery = 102.13%						
Sn 189.927†	2207.9	497.73 ug/L	1.998	497.73 ppb	1.998	0.40%
QC value within limits for Sn 189.927 Recovery = 99.55%						
Sr 421.552†	67964.2	519.16 ug/L	7.639	519.16 ppb	7.639	1.47%
QC value within limits for Sr 421.552 Recovery = 103.83%						
Ti 334.940†	288068.7	497.66 ug/L	1.243	497.66 ppb	1.243	0.25%
QC value within limits for Ti 334.940 Recovery = 99.53%						
Tl 190.801†	1315.4	509.82 ug/L	1.395	509.82 ppb	1.395	0.27%
QC value within limits for Tl 190.801 Recovery = 101.96%						
U 409.014†	17262.2	519.62 ug/L	1.382	519.62 ppb	1.382	0.27%
QC value within limits for U 409.014 Recovery = 103.92%						
V 292.402†	63890.9	517.21 ug/L	1.423	517.21 ppb	1.423	0.28%
QC value within limits for V 292.402 Recovery = 103.44%						
Zn 213.857†	42983.1	514.53 ug/L	0.946	514.53 ppb	0.946	0.18%
QC value within limits for Zn 213.857 Recovery = 102.91%						
SiO2†	67792.7	5415.3 ug/L	62.64	5415.3 ppb	62.64	1.16%
QC value within limits for SiO2 Recovery = 101.27%						

All analyte(s) passed QC.

Sequence No.: 53
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 00:57:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4278.1	4278.1	93.3 %		00:59:32
1	Y RADIAL	4796.6	4796.6	97.21 %		00:59:12
1	Al 396.153Radial†	-88.5	-9.1	-8.5899 ug/L	-8.5899 ppb	00:59:32
1	Ca 317.933Radial†	24.3	-1.8	-3.1020 ug/L	-3.1020 ppb	00:59:32
1	Fe 238.204 Radial†	9.2	2.0	21.127 ug/L	21.127 ppb	00:59:32
1	K 766.490 Radial†	2490.5	114.9	22.050 ug/L	22.050 ppb	00:59:12
1	Mg 279.077 IEC†	2.8	2.9	110.09 ug/L	110.09 ppb	00:59:32
1	Na 589.592 Radial†	-949.8	-213.4	-74.764 ug/L	-74.764 ppb	00:59:12
1	Sr 421.552†	25.3	1.4	0.0106 ug/L	0.0106 ppb	00:59:12
1	Sc 361.383	791728.0	791728.0	97.392 %		01:00:29
1	Y 371.029	670224.9	670224.9	97.213 %		01:00:29
1	Ag 328.068†	160.4	-45.9	-0.2271 ug/L	-0.2271 ppb	01:00:29
1	As 188.979†	-20.6	-4.1	-2.2645 ug/L	-2.2645 ppb	01:00:49
1	B 249.677†	-295.6	111.8	3.1263 ug/L	3.1263 ppb	01:00:49
1	Ba 233.527†	11.0	-1.2	-0.0107 ug/L	-0.0107 ppb	01:00:49
1	Be 313.107†	-3778.8	-151.0	-0.0642 ug/L	-0.0642 ppb	01:00:29
1	Cd 226.502†	-175.7	-4.1	-0.0625 ug/L	-0.0625 ppb	01:00:49
1	Co 228.616†	-42.3	-3.5	-0.0921 ug/L	-0.0921 ppb	01:00:49
1	Cr 267.716†	89.1	12.0	0.1638 ug/L	0.1638 ppb	01:00:49
1	Cu 324.752†	5137.2	-191.5	-0.6311 ug/L	-0.6311 ppb	01:00:29
1	Mn 257.610†	508.0	-29.3	-0.0410 ug/L	-0.0410 ppb	01:00:49
1	Mo 202.031†	15.4	2.9	0.2600 ug/L	0.2600 ppb	01:00:49
1	Ni 231.604†	69.4	-10.2	-0.3237 ug/L	-0.3237 ppb	01:00:49
1	P 214.914†	166.5	-13.0	-9.6449 ug/L	-9.6449 ppb	01:00:49
1	Pb 220.353†	-42.0	-0.4	-0.0591 ug/L	-0.0591 ppb	01:00:49
1	S 181.975 Axial†	24.5	-5.0	-8.8843 ug/L	-8.8843 ppb	01:00:49
1	Sb 206.836†	34.9	11.3	4.6970 ug/L	4.6970 ppb	01:00:49
1	Se 196.026†	-17.2	1.1	1.0004 ug/L	1.0004 ppb	01:00:49
1	Si 251.611†	622.5	140.9	5.3010 ug/L	5.3010 ppb	01:00:49
1	Sn 189.927†	14.7	7.1	1.5871 ug/L	1.5871 ppb	01:00:49
1	Ti 334.940†	-1002.3	58.2	0.0924 ug/L	0.0924 ppb	01:00:29
1	Tl 190.801†	-32.4	-1.5	-0.5657 ug/L	-0.5657 ppb	01:00:49
1	U 409.014†	-2123.8	-99.7	-3.0138 ug/L	-3.0138 ppb	01:00:29
1	V 292.402†	-1298.7	-15.7	-0.1290 ug/L	-0.1290 ppb	01:00:29
1	Zn 213.857†	661.0	61.6	0.7438 ug/L	0.7438 ppb	01:00:49
1	SiO2†	622.2	143.5	11.488 ug/L	11.488 ppb	01:02:00
2	Sc Radial	4313.2	4313.2	94.0 %		00:59:57
2	Y RADIAL	4859.2	4859.2	98.48 %		00:59:37
2	Al 396.153Radial†	-81.7	-1.1	-1.0209 ug/L	-1.0209 ppb	00:59:57
2	Ca 317.933Radial†	17.8	-8.9	-15.722 ug/L	-15.722 ppb	00:59:57
2	Fe 238.204 Radial†	8.7	1.4	15.000 ug/L	15.000 ppb	00:59:57
2	K 766.490 Radial†	2493.4	96.3	18.487 ug/L	18.487 ppb	00:59:37
2	Mg 279.077 IEC†	0.7	0.7	25.753 ug/L	25.753 ppb	00:59:57
2	Na 589.592 Radial†	-1010.6	-269.8	-94.546 ug/L	-94.546 ppb	00:59:37
2	Sr 421.552†	18.9	-5.7	-0.0435 ug/L	-0.0435 ppb	00:59:37
2	Sc 361.383	782420.0	782420.0	96.247 %		01:00:54
2	Y 371.029	661607.4	661607.4	95.964 %		01:00:54
2	Ag 328.068†	224.6	22.8	0.1263 ug/L	0.1263 ppb	01:00:54
2	As 188.979†	-22.4	-6.2	-3.4731 ug/L	-3.4731 ppb	01:01:14
2	B 249.677†	-321.4	81.4	2.2764 ug/L	2.2764 ppb	01:01:14
2	Ba 233.527†	10.9	-1.2	-0.0117 ug/L	-0.0117 ppb	01:01:14
2	Be 313.107†	-3656.7	-70.3	-0.0299 ug/L	-0.0299 ppb	01:00:54
2	Cd 226.502†	-170.7	-1.0	-0.0176 ug/L	-0.0176 ppb	01:01:14
2	Co 228.616†	-51.2	-13.3	-0.3474 ug/L	-0.3474 ppb	01:01:14
2	Cr 267.716†	57.2	-20.1	-0.2663 ug/L	-0.2663 ppb	01:01:14
2	Cu 324.752†	5159.0	-106.0	-0.3456 ug/L	-0.3456 ppb	01:00:54
2	Mn 257.610†	481.2	-51.0	-0.0667 ug/L	-0.0667 ppb	01:01:14
2	Mo 202.031†	8.0	-4.6	-0.4013 ug/L	-0.4013 ppb	01:01:14
2	Ni 231.604†	89.6	11.7	0.3728 ug/L	0.3728 ppb	01:01:14

2	P 214.914†	187.0	10.4	7.8641 ug/L	7.8641 ppb	01:01:14
2	Pb 220.353†	-51.0	-10.2	-1.5719 ug/L	-1.5719 ppb	01:01:14
2	S 181.975 Axial†	25.7	-3.5	-6.2021 ug/L	-6.2021 ppb	01:01:14
2	Sb 206.836†	26.7	3.3	1.3598 ug/L	1.3598 ppb	01:01:14
2	Se 196.026†	-20.8	-2.8	-2.2876 ug/L	-2.2876 ppb	01:01:14
2	Si 251.611†	609.8	135.4	5.0992 ug/L	5.0992 ppb	01:01:14
2	Sn 189.927†	12.4	4.9	1.0892 ug/L	1.0892 ppb	01:01:14
2	Ti 334.940†	-1019.7	27.9	0.0477 ug/L	0.0477 ppb	01:00:54
2	Tl 190.801†	-27.9	2.8	1.0814 ug/L	1.0814 ppb	01:01:14
2	U 409.014†	-2266.5	-273.9	-8.2729 ug/L	-8.2729 ppb	01:00:54
2	V 292.402†	-1336.1	-70.5	-0.5860 ug/L	-0.5860 ppb	01:00:54
2	Zn 213.857†	662.5	71.3	0.8568 ug/L	0.8568 ppb	01:01:14
2	SiO2†	604.5	132.8	10.646 ug/L	10.646 ppb	01:02:20
3	Sc Radial	4275.7	4275.7	93.2 %		01:00:22
3	Y RADIAL	4804.7	4804.7	97.37 %		01:00:02
3	Al 396.153Radial†	-91.6	-12.4	-11.702 ug/L	-11.702 ppb	01:00:22
3	Ca 317.933Radial†	17.5	-9.1	-16.109 ug/L	-16.109 ppb	01:00:22
3	Fe 238.204 Radial†	8.3	1.1	11.023 ug/L	11.023 ppb	01:00:22
3	K 766.490 Radial†	2585.2	218.1	41.816 ug/L	41.816 ppb	01:00:02
3	Mg 279.077 IEC†	2.4	2.5	96.970 ug/L	96.970 ppb	01:00:22
3	Na 589.592 Radial†	-980.2	-246.7	-86.427 ug/L	-86.427 ppb	01:00:02
3	Sr 421.552†	8.3	-16.8	-0.1283 ug/L	-0.1283 ppb	01:00:02
3	Sc 361.383	796829.1	796829.1	98.020 %		01:01:19
3	Y 371.029	675424.4	675424.4	97.968 %		01:01:19
3	Ag 328.068†	242.7	37.0	0.1938 ug/L	0.1938 ppb	01:01:19
3	As 188.979†	-23.9	-7.3	-4.0813 ug/L	-4.0813 ppb	01:01:39
3	B 249.677†	-337.5	71.1	1.9879 ug/L	1.9879 ppb	01:01:39
3	Ba 233.527†	-1.6	-14.1	-0.1321 ug/L	-0.1321 ppb	01:01:39
3	Be 313.107†	-3700.1	-45.8	-0.0196 ug/L	-0.0196 ppb	01:01:19
3	Cd 226.502†	-162.8	10.2	0.1474 ug/L	0.1474 ppb	01:01:39
3	Co 228.616†	-49.1	-10.2	-0.2661 ug/L	-0.2661 ppb	01:01:39
3	Cr 267.716†	78.2	0.3	0.0052 ug/L	0.0052 ppb	01:01:39
3	Cu 324.752†	5277.7	-81.9	-0.2702 ug/L	-0.2702 ppb	01:01:19
3	Mn 257.610†	486.1	-55.0	-0.0753 ug/L	-0.0753 ppb	01:01:39
3	Mo 202.031†	12.5	-0.1	-0.0049 ug/L	-0.0049 ppb	01:01:39
3	Ni 231.604†	92.3	12.7	0.4044 ug/L	0.4044 ppb	01:01:39
3	P 214.914†	181.9	1.7	1.3341 ug/L	1.3341 ppb	01:01:39
3	Pb 220.353†	-57.5	-15.9	-2.4504 ug/L	-2.4504 ppb	01:01:39
3	S 181.975 Axial†	20.2	-9.5	-17.047 ug/L	-17.047 ppb	01:01:39
3	Sb 206.836†	21.0	-3.1	-1.2743 ug/L	-1.2743 ppb	01:01:39
3	Se 196.026†	-12.9	5.7	4.7277 ug/L	4.7277 ppb	01:01:39
3	Si 251.611†	604.4	118.4	4.4572 ug/L	4.4572 ppb	01:01:39
3	Sn 189.927†	11.5	3.8	0.8463 ug/L	0.8463 ppb	01:01:39
3	Ti 334.940†	-1074.6	-9.0	-0.0253 ug/L	-0.0253 ppb	01:01:19
3	Tl 190.801†	-26.4	4.8	1.8655 ug/L	1.8655 ppb	01:01:39
3	U 409.014†	-2062.2	-22.8	-0.6907 ug/L	-0.6907 ppb	01:01:19
3	V 292.402†	-1306.8	-15.5	-0.1251 ug/L	-0.1251 ppb	01:01:19
3	Zn 213.857†	658.6	54.8	0.6585 ug/L	0.6585 ppb	01:01:39
3	SiO2†	606.9	123.9	9.9204 ug/L	9.9204 ppb	01:02:40

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	790325.7	97.220 %	0.8988			0.92%
Sc Radial	4289.0	93.5 %	0.46			0.49%
Y 371.029	669085.5	97.048 %	1.0122			1.04%
Y RADIAL	4820.2	97.69 %	0.690			0.71%
Ag 328.068†	4.6	0.0310 ug/L	0.22604	0.0310 ppb	0.22604	729.07%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	-7.6	-7.1043 ug/L	5.49330	-7.1043 ppb	5.49330	77.32%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-5.9	-3.2729 ug/L	0.92478	-3.2729 ppb	0.92478	28.26%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	88.1	2.4636 ug/L	0.59182	2.4636 ppb	0.59182	24.02%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.5	-0.0515 ug/L	0.06979	-0.0515 ppb	0.06979	135.53%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-89.0	-0.0379 ug/L	0.02336	-0.0379 ppb	0.02336	61.64%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.6	-11.644 ug/L	7.4003	-11.644 ppb	7.4003	63.55%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	1.7	0.0224 ug/L	0.11050	0.0224 ppb	0.11050	492.45%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-9.0	-0.2352 ug/L	0.13046	-0.2352 ppb	0.13046	55.47%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-2.6	-0.0324 ug/L	0.21748	-0.0324 ppb	0.21748	670.42%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-126.5	-0.4156 ug/L	0.19038	-0.4156 ppb	0.19038	45.81%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.5	15.716 ug/L	5.0901	15.716 ppb	5.0901	32.39%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	143.1	27.451 ug/L	12.5671	27.451 ppb	12.5671	45.78%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	2.0	77.606 ug/L	45.3823	77.606 ppb	45.3823	58.48%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-45.1	-0.0610 ug/L	0.01782	-0.0610 ppb	0.01782	29.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.6	-0.0487 ug/L	0.33281	-0.0487 ppb	0.33281	683.20%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-243.3	-85.246 ug/L	9.9441	-85.246 ppb	9.9441	11.67%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	4.7	0.1512 ug/L	0.41158	0.1512 ppb	0.41158	272.24%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.3	-0.1489 ug/L	8.84820	-0.1489 ppb	8.84820	>999.9%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-8.8	-1.3605 ug/L	1.20955	-1.3605 ppb	1.20955	88.91%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-6.0	-10.711 ug/L	5.6485	-10.711 ppb	5.6485	52.74%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	3.8	1.5942 ug/L	2.99253	1.5942 ppb	2.99253	187.71%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	1.3	1.1468 ug/L	3.50994	1.1468 ppb	3.50994	306.05%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	131.6	4.9525 ug/L	0.44065	4.9525 ppb	0.44065	8.90%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	5.2	1.1742 ug/L	0.37767	1.1742 ppb	0.37767	32.16%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	-7.0	-0.0537 ug/L	0.07003	-0.0537 ppb	0.07003	130.34%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	25.7	0.0383 ug/L	0.05944	0.0383 ppb	0.05944	155.32%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	2.1	0.7937 ug/L	1.24090	0.7937 ppb	1.24090	156.34%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-132.1	-3.9925 ug/L	3.88469	-3.9925 ppb	3.88469	97.30%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-33.9	-0.2800 ug/L	0.26498	-0.2800 ppb	0.26498	94.62%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	62.6	0.7530 ug/L	0.09947	0.7530 ppb	0.09947	13.21%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	133.4	10.685 ug/L	0.7847	10.685 ppb	0.7847	7.34%
QC value within limits for SiO2 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 60

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 01:47:22

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4308.9	4308.9	93.9 %		01:49:34
1	Y RADIAL	4774.3	4774.3	96.76 %		01:49:14
1	Al 396.153Radial†	5190.8	5612.3	5251.8 ug/L	5251.8 ppb	01:49:14
1	Ca 317.933Radial†	2869.3	3027.0	5350.6 ug/L	5350.6 ppb	01:49:34
1	Fe 238.204 Radial†	497.4	521.8	5482.4 ug/L	5482.4 ppb	01:49:34
1	K 766.490 Radial†	28805.2	28112.3	5378.6 ug/L	5378.6 ppb	01:49:14
1	Mg 279.077 IEC†	137.9	146.8	5585.4 ug/L	5585.4 ppb	01:49:34
1	Na 589.592 Radial†	30414.0	33185.9	11628 ug/L	11628 ppb	01:49:14
1	Sr 421.552†	68831.9	73257.5	559.60 ug/L	559.60 ppb	01:49:14
1	Sc 361.383	814857.9	814857.9	100.24 %		01:50:31
1	Y 371.029	679047.4	679047.4	98.493 %		01:50:31
1	Ag 328.068†	100618.9	100170.1	517.53 ug/L	517.53 ppb	01:50:36
1	As 188.979†	901.1	916.0	514.23 ug/L	514.23 ppb	01:50:56
1	B 249.677†	17668.9	18042.5	502.53 ug/L	502.53 ppb	01:50:36
1	Ba 233.527†	55419.0	55275.3	518.52 ug/L	518.52 ppb	01:50:36
1	Be 313.107†	1208329.3	1209197.4	517.31 ug/L	517.31 ppb	01:50:31
1	Cd 226.502†	35696.9	35788.7	518.41 ug/L	518.41 ppb	01:50:36
1	Co 228.616†	20226.1	20218.1	525.33 ug/L	525.33 ppb	01:50:36
1	Cr 267.716†	38794.3	38622.9	519.69 ug/L	519.69 ppb	01:50:36
1	Cu 324.752†	160703.2	154856.4	512.57 ug/L	512.57 ppb	01:50:36
1	Mn 257.610†	387075.2	385607.8	508.01 ug/L	508.01 ppb	01:50:36
1	Mo 202.031†	5745.4	5718.9	503.40 ug/L	503.40 ppb	01:50:56
1	Ni 231.604†	16647.7	16526.9	525.88 ug/L	525.88 ppb	01:50:36
1	P 214.914†	3531.4	3339.2	2414.4 ug/L	2414.4 ppb	01:50:56
1	Pb 220.353†	3232.7	3267.8	505.58 ug/L	505.58 ppb	01:50:56
1	S 181.975 Axial†	582.4	550.8	982.52 ug/L	982.52 ppb	01:50:56
1	Sb 206.836†	1227.0	1199.6	514.76 ug/L	514.76 ppb	01:50:56
1	Se 196.026†	582.2	599.6	516.53 ug/L	516.53 ppb	01:50:56
1	Si 251.611†	69682.0	69018.8	2591.2 ug/L	2591.2 ppb	01:50:36
1	Sn 189.927†	2214.7	2201.4	496.30 ug/L	496.30 ppb	01:50:56
1	Ti 334.940†	291391.3	291788.7	504.10 ug/L	504.10 ppb	01:50:36
1	Tl 190.801†	1291.9	1320.7	511.84 ug/L	511.84 ppb	01:50:56
1	U 409.014†	15411.3	17455.9	525.40 ug/L	525.40 ppb	01:50:36
1	V 292.402†	63516.1	64683.5	523.47 ug/L	523.47 ppb	01:50:36
1	Zn 213.857†	44262.9	43540.9	521.15 ug/L	521.15 ppb	01:50:36
1	SiO2†	68812.5	68154.3	5444.3 ug/L	5444.3 ppb	01:52:03
2	Sc Radial	4305.9	4305.9	93.9 %		01:49:59
2	Y RADIAL	4742.1	4742.1	96.10 %		01:49:39
2	Al 396.153Radial†	5158.5	5581.8	5222.8 ug/L	5222.8 ppb	01:49:39
2	Ca 317.933Radial†	2873.9	3034.1	5363.0 ug/L	5363.0 ppb	01:49:59
2	Fe 238.204 Radial†	495.1	519.7	5460.2 ug/L	5460.2 ppb	01:49:59
2	K 766.490 Radial†	28403.9	27706.5	5300.9 ug/L	5300.9 ppb	01:49:39
2	Mg 279.077 IEC†	141.6	150.8	5737.2 ug/L	5737.2 ppb	01:49:59
2	Na 589.592 Radial†	29978.8	32745.3	11473 ug/L	11473 ppb	01:49:39
2	Sr 421.552†	67825.2	72236.9	551.80 ug/L	551.80 ppb	01:49:39
2	Sc 361.383	805009.9	805009.9	99.026 %		01:51:02
2	Y 371.029	671958.6	671958.6	97.465 %		01:51:02
2	Ag 328.068†	98978.2	99741.3	515.31 ug/L	515.31 ppb	01:51:07
2	As 188.979†	888.0	913.8	512.94 ug/L	512.94 ppb	01:51:27
2	B 249.677†	17405.8	17992.4	501.14 ug/L	501.14 ppb	01:51:07
2	Ba 233.527†	54247.8	54768.9	513.77 ug/L	513.77 ppb	01:51:07
2	Be 313.107†	1192761.4	1208223.3	516.88 ug/L	516.88 ppb	01:51:02
2	Cd 226.502†	34906.5	35426.2	513.15 ug/L	513.15 ppb	01:51:07
2	Co 228.616†	19859.6	20094.8	522.15 ug/L	522.15 ppb	01:51:07
2	Cr 267.716†	38110.5	38405.8	516.76 ug/L	516.76 ppb	01:51:07
2	Cu 324.752†	157620.0	153704.3	508.76 ug/L	508.76 ppb	01:51:07
2	Mn 257.610†	379141.1	382319.7	503.67 ug/L	503.67 ppb	01:51:07
2	Mo 202.031†	5762.8	5806.7	511.12 ug/L	511.12 ppb	01:51:27
2	Ni 231.604†	16287.4	16366.2	520.77 ug/L	520.77 ppb	01:51:07

2	P 214.914†	3549.4	3400.4	2461.3 ug/L	2461.3 ppb	01:51:27
2	Pb 220.353†	3238.2	3312.8	512.54 ug/L	512.54 ppb	01:51:27
2	S 181.975 Axial†	585.3	560.9	1000.4 ug/L	1000.4 ppb	01:51:27
2	Sb 206.836†	1226.4	1213.9	520.97 ug/L	520.97 ppb	01:51:27
2	Se 196.026†	581.7	606.2	521.94 ug/L	521.94 ppb	01:51:27
2	Si 251.611†	68123.4	68295.3	2563.9 ug/L	2563.9 ppb	01:51:07
2	Sn 189.927†	2221.5	2235.3	503.94 ug/L	503.94 ppb	01:51:27
2	Ti 334.940†	285542.1	289438.2	500.02 ug/L	500.02 ppb	01:51:07
2	Tl 190.801†	1283.8	1328.2	514.70 ug/L	514.70 ppb	01:51:27
2	U 409.014†	15135.0	17364.9	522.67 ug/L	522.67 ppb	01:51:07
2	V 292.402†	62319.2	64249.9	520.12 ug/L	520.12 ppb	01:51:07
2	Zn 213.857†	43358.1	43167.5	516.68 ug/L	516.68 ppb	01:51:07
2	SiO2†	68107.6	68282.2	5454.3 ug/L	5454.3 ppb	01:52:08
3	Sc Radial	4305.3	4305.3	93.8 %		01:50:24
3	Y RADIAL	4791.9	4791.9	97.11 %		01:50:04
3	Al 396.153Radial†	5177.3	5602.6	5242.8 ug/L	5242.8 ppb	01:50:04
3	Ca 317.933Radial†	2859.9	3019.6	5337.4 ug/L	5337.4 ppb	01:50:24
3	Fe 238.204 Radial†	499.8	524.7	5512.5 ug/L	5512.5 ppb	01:50:24
3	K 766.490 Radial†	28421.2	27729.2	5305.3 ug/L	5305.3 ppb	01:50:04
3	Mg 279.077 IEC†	139.4	148.4	5648.5 ug/L	5648.5 ppb	01:50:24
3	Na 589.592 Radial†	30352.9	33148.4	11615 ug/L	11615 ppb	01:50:04
3	Sr 421.552†	68169.2	72613.8	554.68 ug/L	554.68 ppb	01:50:04
3	Sc 361.383	821794.5	821794.5	101.09 %		01:51:33
3	Y 371.029	685960.1	685960.1	99.496 %		01:51:33
3	Ag 328.068†	99113.8	97833.9	505.50 ug/L	505.50 ppb	01:51:38
3	As 188.979†	890.8	898.2	504.23 ug/L	504.23 ppb	01:51:58
3	B 249.677†	17446.9	17674.1	492.26 ug/L	492.26 ppb	01:51:38
3	Ba 233.527†	54362.3	53763.3	504.34 ug/L	504.34 ppb	01:51:38
3	Be 313.107†	1218917.2	1209496.0	517.40 ug/L	517.40 ppb	01:51:33
3	Cd 226.502†	35037.5	34835.8	504.59 ug/L	504.59 ppb	01:51:38
3	Co 228.616†	19888.4	19713.7	512.24 ug/L	512.24 ppb	01:51:38
3	Cr 267.716†	38152.9	37661.8	506.77 ug/L	506.77 ppb	01:51:38
3	Cu 324.752†	158130.5	150958.3	499.68 ug/L	499.68 ppb	01:51:38
3	Mn 257.610†	380320.8	375666.8	494.92 ug/L	494.92 ppb	01:51:38
3	Mo 202.031†	5756.6	5681.6	500.13 ug/L	500.13 ppb	01:51:58
3	Ni 231.604†	16367.8	16109.7	512.61 ug/L	512.61 ppb	01:51:38
3	P 214.914†	3543.7	3321.5	2403.6 ug/L	2403.6 ppb	01:51:58
3	Pb 220.353†	3255.5	3263.2	504.86 ug/L	504.86 ppb	01:51:58
3	S 181.975 Axial†	590.2	553.7	987.64 ug/L	987.64 ppb	01:51:58
3	Sb 206.836†	1225.2	1187.4	509.64 ug/L	509.64 ppb	01:51:58
3	Se 196.026†	596.2	608.6	524.05 ug/L	524.05 ppb	01:51:58
3	Si 251.611†	68320.2	67084.9	2518.5 ug/L	2518.5 ppb	01:51:38
3	Sn 189.927†	2229.4	2197.3	495.38 ug/L	495.38 ppb	01:51:58
3	Ti 334.940†	286268.2	284267.1	491.10 ug/L	491.10 ppb	01:51:38
3	Tl 190.801†	1282.7	1300.7	504.05 ug/L	504.05 ppb	01:51:58
3	U 409.014†	15167.7	17085.1	514.23 ug/L	514.23 ppb	01:51:38
3	V 292.402†	62331.2	62976.4	509.78 ug/L	509.78 ppb	01:51:38
3	Zn 213.857†	43570.3	42483.2	508.47 ug/L	508.47 ppb	01:51:38
3	SiO2†	67997.1	66768.2	5333.3 ug/L	5333.3 ppb	01:52:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	813887.5	100.12 %	1.038			1.04%
Sc Radial	4306.7	93.9 %	0.04			0.05%
Y 371.029	678988.7	98.485 %	1.0155			1.03%
Y RADIAL	4769.4	96.66 %	0.512			0.53%
Ag 328.068†	99248.4	512.78 ug/L	6.401	512.78 ppb	6.401	1.25%
QC value within limits for Ag 328.068 Recovery = 102.56%						
Al 396.153Radial†	5598.9	5239.1 ug/L	14.86	5239.1 ppb	14.86	0.28%
QC value within limits for Al 396.153Radial Recovery = 104.78%						
As 188.979†	909.4	510.47 ug/L	5.438	510.47 ppb	5.438	1.07%
QC value within limits for As 188.979 Recovery = 102.09%						
B 249.677†	17903.0	498.64 ug/L	5.576	498.64 ppb	5.576	1.12%
QC value within limits for B 249.677 Recovery = 99.73%						
Ba 233.527†	54602.5	512.21 ug/L	7.216	512.21 ppb	7.216	1.41%
QC value within limits for Ba 233.527 Recovery = 102.44%						
Be 313.107†	1208972.2	517.20 ug/L	0.278	517.20 ppb	0.278	0.05%
QC value within limits for Be 313.107 Recovery = 103.44%						
Ca 317.933Radial†	3026.9	5350.3 ug/L	12.82	5350.3 ppb	12.82	0.24%

QC value within limits for Ca 317.933 Radial Recovery = 107.01%						
Cd 226.502†	35350.2	512.05 ug/L	6.976	512.05 ppb	6.976	1.36%
QC value within limits for Cd 226.502 Recovery = 102.41%						
Co 228.616†	20008.9	519.91 ug/L	6.826	519.91 ppb	6.826	1.31%
QC value within limits for Co 228.616 Recovery = 103.98%						
Cr 267.716†	38230.2	514.41 ug/L	6.774	514.41 ppb	6.774	1.32%
QC value within limits for Cr 267.716 Recovery = 102.88%						
Cu 324.752†	153173.0	507.00 ug/L	6.624	507.00 ppb	6.624	1.31%
QC value within limits for Cu 324.752 Recovery = 101.40%						
Fe 238.204 Radial†	522.0	5485.0 ug/L	26.23	5485.0 ppb	26.23	0.48%
QC value within limits for Fe 238.204 Radial Recovery = 109.70%						
K 766.490 Radial†	27849.3	5328.3 ug/L	43.66	5328.3 ppb	43.66	0.82%
QC value within limits for K 766.490 Radial Recovery = 106.57%						
Mg 279.077 IEC†	148.7	5657.0 ug/L	76.27	5657.0 ppb	76.27	1.35%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 113.14%						
Mn 257.610†	381198.1	502.20 ug/L	6.667	502.20 ppb	6.667	1.33%
QC value within limits for Mn 257.610 Recovery = 100.44%						
Mo 202.031†	5735.7	504.88 ug/L	5.644	504.88 ppb	5.644	1.12%
QC value within limits for Mo 202.031 Recovery = 100.98%						
Na 589.592 Radial†	33026.5	11572 ug/L	85.6	11572 ppb	85.6	0.74%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 115.72%						
Ni 231.604†	16334.3	519.75 ug/L	6.695	519.75 ppb	6.695	1.29%
QC value within limits for Ni 231.604 Recovery = 103.95%						
P 214.914†	3353.7	2426.4 ug/L	30.69	2426.4 ppb	30.69	1.26%
QC value within limits for P 214.914 Recovery = 97.06%						
Pb 220.353†	3281.3	507.66 ug/L	4.244	507.66 ppb	4.244	0.84%
QC value within limits for Pb 220.353 Recovery = 101.53%						
S 181.975 Axial†	555.1	990.19 ug/L	9.220	990.19 ppb	9.220	0.93%
QC value within limits for S 181.975 Axial Recovery = 99.02%						
Sb 206.836†	1200.3	515.12 ug/L	5.678	515.12 ppb	5.678	1.10%
QC value within limits for Sb 206.836 Recovery = 103.02%						
Se 196.026†	604.8	520.84 ug/L	3.880	520.84 ppb	3.880	0.75%
QC value within limits for Se 196.026 Recovery = 104.17%						
Si 251.611†	68133.0	2557.8 ug/L	36.74	2557.8 ppb	36.74	1.44%
QC value within limits for Si 251.611 Recovery = 102.31%						
Sn 189.927†	2211.4	498.54 ug/L	4.701	498.54 ppb	4.701	0.94%
QC value within limits for Sn 189.927 Recovery = 99.71%						
Sr 421.552†	72702.7	555.36 ug/L	3.942	555.36 ppb	3.942	0.71%
QC value greater than the upper limit for Sr 421.552 Recovery = 111.07%						
Ti 334.940†	288498.0	498.41 ug/L	6.647	498.41 ppb	6.647	1.33%
QC value within limits for Ti 334.940 Recovery = 99.68%						
Tl 190.801†	1316.5	510.20 ug/L	5.511	510.20 ppb	5.511	1.08%
QC value within limits for Tl 190.801 Recovery = 102.04%						
U 409.014†	17301.9	520.77 ug/L	5.824	520.77 ppb	5.824	1.12%
QC value within limits for U 409.014 Recovery = 104.15%						
V 292.402†	63969.9	517.79 ug/L	7.137	517.79 ppb	7.137	1.38%
QC value within limits for V 292.402 Recovery = 103.56%						
Zn 213.857†	43063.9	515.43 ug/L	6.432	515.43 ppb	6.432	1.25%
QC value within limits for Zn 213.857 Recovery = 103.09%						
SiO2†	67734.9	5410.6 ug/L	67.12	5410.6 ppb	67.12	1.24%
QC value within limits for SiO2 Recovery = 101.18%						
QC Failed. Continue with analysis.						

Sequence No.: 61
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 01:54:24
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4307.1	4307.1	93.9 %		01:56:36
1	Y RADIAL	4832.5	4832.5	97.94 %		01:56:16
1	Al 396.153Radial†	-73.4	7.6	7.1622 ug/L	7.1622 ppb	01:56:36
1	Ca 317.933Radial†	18.1	-8.6	-15.167 ug/L	-15.167 ppb	01:56:36
1	Fe 238.204 Radial†	7.7	0.3	3.4923 ug/L	3.4923 ppb	01:56:36
1	K 766.490 Radial†	2590.5	203.4	39.011 ug/L	39.011 ppb	01:56:16
1	Mg 279.077 IEC†	2.3	2.4	91.197 ug/L	91.197 ppb	01:56:36
1	Na 589.592 Radial†	-1014.5	-275.5	-96.537 ug/L	-96.537 ppb	01:56:16
1	Sr 421.552†	15.3	-9.4	-0.0718 ug/L	-0.0718 ppb	01:56:16
1	Sc 361.383	792147.7	792147.7	97.444 %		01:57:33
1	Y 371.029	670101.6	670101.6	97.196 %		01:57:33
1	Ag 328.068†	213.4	8.4	0.0484 ug/L	0.0484 ppb	01:57:33
1	As 188.979†	-19.8	-3.2	-1.7950 ug/L	-1.7950 ppb	01:57:53
1	B 249.677†	-311.9	95.3	2.6662 ug/L	2.6662 ppb	01:57:53
1	Ba 233.527†	5.2	-7.2	-0.0665 ug/L	-0.0665 ppb	01:57:53
1	Be 313.107†	-3688.6	-56.3	-0.0240 ug/L	-0.0240 ppb	01:57:33
1	Cd 226.502†	-159.8	12.3	0.1781 ug/L	0.1781 ppb	01:57:53
1	Co 228.616†	-41.6	-2.9	-0.0758 ug/L	-0.0758 ppb	01:57:53
1	Cr 267.716†	67.5	-10.3	-0.1356 ug/L	-0.1356 ppb	01:57:53
1	Cu 324.752†	5200.3	-129.5	-0.4266 ug/L	-0.4266 ppb	01:57:33
1	Mn 257.610†	455.2	-83.8	-0.1137 ug/L	-0.1137 ppb	01:57:53
1	Mo 202.031†	9.9	-2.7	-0.2338 ug/L	-0.2338 ppb	01:57:53
1	Ni 231.604†	95.6	16.7	0.5304 ug/L	0.5304 ppb	01:57:53
1	P 214.914†	173.9	-5.5	-4.0378 ug/L	-4.0378 ppb	01:57:53
1	Pb 220.353†	-58.7	-17.4	-2.6890 ug/L	-2.6890 ppb	01:57:53
1	S 181.975 Axial†	26.4	-3.1	-5.4821 ug/L	-5.4821 ppb	01:57:53
1	Sb 206.836†	33.4	9.8	4.0323 ug/L	4.0323 ppb	01:57:53
1	Se 196.026†	-21.0	-2.8	-2.2733 ug/L	-2.2733 ppb	01:57:53
1	Si 251.611†	593.1	110.4	4.1578 ug/L	4.1578 ppb	01:57:53
1	Sn 189.927†	3.0	-4.9	-1.0981 ug/L	-1.0981 ppb	01:57:53
1	Ti 334.940†	-1056.3	3.3	-0.0023 ug/L	-0.0023 ppb	01:57:33
1	Tl 190.801†	-23.4	7.8	3.0143 ug/L	3.0143 ppb	01:57:53
1	U 409.014†	-2138.5	-113.6	-3.4318 ug/L	-3.4318 ppb	01:57:33
1	V 292.402†	-1243.3	41.8	0.3251 ug/L	0.3251 ppb	01:57:33
1	Zn 213.857†	661.2	61.4	0.7386 ug/L	0.7386 ppb	01:57:53
1	SiO2†	619.1	140.1	11.222 ug/L	11.222 ppb	01:58:49
2	Sc Radial	4259.0	4259.0	92.8 %		01:57:01
2	Y RADIAL	4700.1	4700.1	95.25 %		01:56:41
2	Al 396.153Radial†	-84.1	-4.8	-4.5356 ug/L	-4.5356 ppb	01:57:01
2	Ca 317.933Radial†	16.6	-10.0	-17.637 ug/L	-17.637 ppb	01:57:01
2	Fe 238.204 Radial†	9.2	2.1	21.527 ug/L	21.527 ppb	01:57:01
2	K 766.490 Radial†	2609.9	255.5	48.993 ug/L	48.993 ppb	01:56:41
2	Mg 279.077 IEC†	1.0	1.0	36.532 ug/L	36.532 ppb	01:57:01
2	Na 589.592 Radial†	-982.2	-252.9	-88.598 ug/L	-88.598 ppb	01:56:41
2	Sr 421.552†	27.9	4.2	0.0325 ug/L	0.0325 ppb	01:56:41
2	Sc 361.383	798102.1	798102.1	98.176 %		01:57:58
2	Y 371.029	674976.8	674976.8	97.903 %		01:57:58
2	Ag 328.068†	201.8	-5.0	-0.0195 ug/L	-0.0195 ppb	01:57:58
2	As 188.979†	-21.4	-4.7	-2.6353 ug/L	-2.6353 ppb	01:58:18
2	B 249.677†	-292.4	117.5	3.2858 ug/L	3.2858 ppb	01:58:18
2	Ba 233.527†	15.8	3.6	0.0330 ug/L	0.0330 ppb	01:58:18
2	Be 313.107†	-3662.1	-1.1	-0.0005 ug/L	-0.0005 ppb	01:57:58
2	Cd 226.502†	-167.1	6.2	0.0871 ug/L	0.0871 ppb	01:58:18
2	Co 228.616†	-42.7	-3.6	-0.0936 ug/L	-0.0936 ppb	01:58:18
2	Cr 267.716†	83.1	5.1	0.0705 ug/L	0.0705 ppb	01:58:18
2	Cu 324.752†	5247.2	-121.6	-0.4003 ug/L	-0.4003 ppb	01:57:58
2	Mn 257.610†	473.2	-68.9	-0.0901 ug/L	-0.0901 ppb	01:58:18
2	Mo 202.031†	16.7	4.2	0.3710 ug/L	0.3710 ppb	01:58:18
2	Ni 231.604†	90.5	10.7	0.3421 ug/L	0.3421 ppb	01:58:18

2	P 214.914†	181.7	1.2	0.9814 ug/L	0.9814 ppb	01:58:18
2	Pb 220.353†	-50.2	-8.4	-1.2953 ug/L	-1.2953 ppb	01:58:18
2	S 181.975 Axial†	25.8	-3.9	-6.8741 ug/L	-6.8741 ppb	01:58:18
2	Sb 206.836†	29.4	5.4	2.2751 ug/L	2.2751 ppb	01:58:18
2	Se 196.026†	-26.6	-8.3	-6.8129 ug/L	-6.8129 ppb	01:58:18
2	Si 251.611†	603.7	116.7	4.3872 ug/L	4.3872 ppb	01:58:18
2	Sn 189.927†	13.3	5.5	1.2401 ug/L	1.2401 ppb	01:58:18
2	Ti 334.940†	-1073.5	-6.1	-0.0152 ug/L	-0.0152 ppb	01:57:58
2	Tl 190.801†	-23.2	8.2	3.1598 ug/L	3.1598 ppb	01:58:18
2	U 409.014†	-2095.7	-53.6	-1.6209 ug/L	-1.6209 ppb	01:57:58
2	V 292.402†	-1356.9	-64.4	-0.5146 ug/L	-0.5146 ppb	01:57:58
2	Zn 213.857†	657.1	52.2	0.6258 ug/L	0.6258 ppb	01:58:18
2	SiO2†	622.3	138.5	11.085 ug/L	11.085 ppb	01:58:54
3	Sc Radial	4234.9	4234.9	92.3 %		01:57:26
3	Y RADIAL	4748.1	4748.1	96.23 %		01:57:06
3	Al 396.153Radial†	-86.6	-8.0	-7.4706 ug/L	-7.4706 ppb	01:57:26
3	Ca 317.933Radial†	17.8	-8.6	-15.185 ug/L	-15.185 ppb	01:57:26
3	Fe 238.204 Radial†	8.3	1.2	12.371 ug/L	12.371 ppb	01:57:26
3	K 766.490 Radial†	2616.7	278.9	53.463 ug/L	53.463 ppb	01:57:06
3	Mg 279.077 IEC†	-0.7	-0.8	-30.270 ug/L	-30.270 ppb	01:57:26
3	Na 589.592 Radial†	-983.2	-260.1	-91.119 ug/L	-91.119 ppb	01:57:06
3	Sr 421.552†	8.8	-16.2	-0.1238 ug/L	-0.1238 ppb	01:57:06
3	Sc 361.383	792873.0	792873.0	97.533 %		01:58:24
3	Y 371.029	671218.0	671218.0	97.358 %		01:58:24
3	Ag 328.068†	196.8	-8.8	-0.0399 ug/L	-0.0399 ppb	01:58:24
3	As 188.979†	-18.8	-2.2	-1.2244 ug/L	-1.2244 ppb	01:58:44
3	B 249.677†	-315.3	92.1	2.5754 ug/L	2.5754 ppb	01:58:44
3	Ba 233.527†	-13.5	-26.4	-0.2474 ug/L	-0.2474 ppb	01:58:44
3	Be 313.107†	-3679.7	-43.7	-0.0186 ug/L	-0.0186 ppb	01:58:24
3	Cd 226.502†	-165.4	6.8	0.0966 ug/L	0.0966 ppb	01:58:44
3	Co 228.616†	-42.4	-3.6	-0.0947 ug/L	-0.0947 ppb	01:58:44
3	Cr 267.716†	92.7	15.5	0.2101 ug/L	0.2101 ppb	01:58:44
3	Cu 324.752†	5244.2	-89.4	-0.2930 ug/L	-0.2930 ppb	01:58:24
3	Mn 257.610†	478.7	-60.1	-0.0766 ug/L	-0.0766 ppb	01:58:44
3	Mo 202.031†	10.4	-2.2	-0.1917 ug/L	-0.1917 ppb	01:58:44
3	Ni 231.604†	96.6	17.6	0.5598 ug/L	0.5598 ppb	01:58:44
3	P 214.914†	176.6	-2.9	-2.1099 ug/L	-2.1099 ppb	01:58:44
3	Pb 220.353†	-31.1	10.9	1.6735 ug/L	1.6735 ppb	01:58:44
3	S 181.975 Axial†	29.7	0.3	0.5483 ug/L	0.5483 ppb	01:58:44
3	Sb 206.836†	27.0	3.2	1.3099 ug/L	1.3099 ppb	01:58:44
3	Se 196.026†	-18.0	0.3	0.3173 ug/L	0.3173 ppb	01:58:44
3	Si 251.611†	610.8	128.1	4.8226 ug/L	4.8226 ppb	01:58:44
3	Sn 189.927†	7.2	-0.6	-0.1387 ug/L	-0.1387 ppb	01:58:44
3	Ti 334.940†	-1032.6	28.6	0.0516 ug/L	0.0516 ppb	01:58:24
3	Tl 190.801†	-32.7	-1.7	-0.6552 ug/L	-0.6552 ppb	01:58:44
3	U 409.014†	-2161.9	-135.6	-4.0961 ug/L	-4.0961 ppb	01:58:24
3	V 292.402†	-1349.3	-65.7	-0.5379 ug/L	-0.5379 ppb	01:58:24
3	Zn 213.857†	649.9	49.2	0.5892 ug/L	0.5892 ppb	01:58:44
3	SiO2†	597.5	117.3	9.4022 ug/L	9.4022 ppb	01:58:59

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Sc 361.383	794374.3	97.718 %		0.3996				0.41%
Sc Radial	4267.0	93.0 %		0.80				0.86%
Y 371.029	672098.8	97.485 %		0.3705				0.38%
Y RADIAL	4760.2	96.47 %		1.359				1.41%
Ag 328.068†	-1.8	-0.0037 ug/L		0.04624	-0.0037 ppb		0.04624	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 396.153Radial†	-1.7	-1.6147 ug/L		7.74133	-1.6147 ppb		7.74133	479.44%
QC value within limits for Al 396.153Radial Recovery = Not calculated								
As 188.979†	-3.4	-1.8849 ug/L		0.70973	-1.8849 ppb		0.70973	37.65%
QC value within limits for As 188.979 Recovery = Not calculated								
B 249.677†	101.6	2.8425 ug/L		0.38658	2.8425 ppb		0.38658	13.60%
QC value within limits for B 249.677 Recovery = Not calculated								
Ba 233.527†	-10.0	-0.0936 ug/L		0.14214	-0.0936 ppb		0.14214	151.79%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-33.7	-0.0144 ug/L		0.01231	-0.0144 ppb		0.01231	85.73%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933Radial†	-9.0	-15.996 ug/L		1.4206	-15.996 ppb		1.4206	8.88%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated					
Cd 226.502†	8.4	0.1206 ug/L	0.05003	0.1206 ppb	0.05003 41.48%
QC value within limits for Cd 226.502 Recovery = Not calculated					
Co 228.616†	-3.4	-0.0880 ug/L	0.01058	-0.0880 ppb	0.01058 12.02%
QC value within limits for Co 228.616 Recovery = Not calculated					
Cr 267.716†	3.4	0.0483 ug/L	0.17392	0.0483 ppb	0.17392 359.78%
QC value within limits for Cr 267.716 Recovery = Not calculated					
Cu 324.752†	-113.5	-0.3733 ug/L	0.07076	-0.3733 ppb	0.07076 18.95%
QC value within limits for Cu 324.752 Recovery = Not calculated					
Fe 238.204 Radial†	1.2	12.463 ug/L	9.0179	12.463 ppb	9.0179 72.36%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated					
K 766.490 Radial†	245.9	47.156 ug/L	7.3991	47.156 ppb	7.3991 15.69%
QC value within limits for K 766.490 Radial Recovery = Not calculated					
Mg 279.077 IEC†	0.9	32.486 ug/L	60.8344	32.486 ppb	60.8344 187.26%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated					
Mn 257.610†	-70.9	-0.0935 ug/L	0.01879	-0.0935 ppb	0.01879 20.10%
QC value within limits for Mn 257.610 Recovery = Not calculated					
Mo 202.031†	-0.2	-0.0182 ug/L	0.33773	-0.0182 ppb	0.33773 >999.9%
QC value within limits for Mo 202.031 Recovery = Not calculated					
Na 589.592 Radial†	-262.8	-92.084 ug/L	4.0568	-92.084 ppb	4.0568 4.41%
QC value within limits for Na 589.592 Radial Recovery = Not calculated					
Ni 231.604†	15.0	0.4774 ug/L	0.11812	0.4774 ppb	0.11812 24.74%
QC value within limits for Ni 231.604 Recovery = Not calculated					
P 214.914†	-2.4	-1.7221 ug/L	2.53193	-1.7221 ppb	2.53193 147.03%
QC value within limits for P 214.914 Recovery = Not calculated					
Pb 220.353†	-5.0	-0.7702 ug/L	2.22814	-0.7702 ppb	2.22814 289.28%
QC value within limits for Pb 220.353 Recovery = Not calculated					
S 181.975 Axial†	-2.2	-3.9360 ug/L	3.94537	-3.9360 ppb	3.94537 100.24%
QC value within limits for S 181.975 Axial Recovery = Not calculated					
Sb 206.836†	6.1	2.5391 ug/L	1.38023	2.5391 ppb	1.38023 54.36%
QC value within limits for Sb 206.836 Recovery = Not calculated					
Se 196.026†	-3.6	-2.9230 ug/L	3.60924	-2.9230 ppb	3.60924 123.48%
QC value within limits for Se 196.026 Recovery = Not calculated					
Si 251.611†	118.4	4.4559 ug/L	0.33767	4.4559 ppb	0.33767 7.58%
QC value within limits for Si 251.611 Recovery = Not calculated					
Sn 189.927†	0.0	0.0011 ug/L	1.17536	0.0011 ppb	1.17536 >999.9%
QC value within limits for Sn 189.927 Recovery = Not calculated					
Sr 421.552†	-7.1	-0.0544 ug/L	0.07962	-0.0544 ppb	0.07962 146.43%
QC value within limits for Sr 421.552 Recovery = Not calculated					
Ti 334.940†	8.6	0.0114 ug/L	0.03540	0.0114 ppb	0.03540 311.65%
QC value within limits for Ti 334.940 Recovery = Not calculated					
Tl 190.801†	4.8	1.8397 ug/L	2.16183	1.8397 ppb	2.16183 117.51%
QC value within limits for Tl 190.801 Recovery = Not calculated					
U 409.014†	-100.9	-3.0496 ug/L	1.28109	-3.0496 ppb	1.28109 42.01%
QC value within limits for U 409.014 Recovery = Not calculated					
V 292.402†	-29.4	-0.2425 ug/L	0.49164	-0.2425 ppb	0.49164 202.76%
QC value within limits for V 292.402 Recovery = Not calculated					
Zn 213.857†	54.3	0.6512 ug/L	0.07785	0.6512 ppb	0.07785 11.95%
QC value within limits for Zn 213.857 Recovery = Not calculated					
SiO2†	132.0	10.570 ug/L	1.0136	10.570 ppb	1.0136 9.59%
QC value within limits for SiO2 Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 71

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 03:04:14

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	3956.2	3956.2	86.2 %		03:06:26
1	Y RADIAL	4169.7	4169.7	84.50 %		03:06:26
1	Al 396.153Radial†	5383.7	6328.7	5925.5 ug/L	5925.5 ppb	03:06:06
1	Ca 317.933Radial†	2803.5	3223.0	5697.0 ug/L	5697.0 ppb	03:06:26
1	Fe 238.204 Radial†	474.5	542.3	5698.1 ug/L	5698.1 ppb	03:06:26
1	K 766.490 Radial†	29124.6	31216.6	5973.0 ug/L	5973.0 ppb	03:06:06
1	Mg 279.077 IEC†	134.7	156.2	5941.5 ug/L	5941.5 ppb	03:06:26
1	Na 589.592 Radial†	29170.9	34631.1	12134 ug/L	12134 ppb	03:06:06
1	Sr 421.552†	68850.4	79812.0	609.67 ug/L	609.67 ppb	03:06:06
1	Sc 361.383	814675.3	814675.3	100.21 %		03:07:23
1	Y 371.029	679530.5	679530.5	98.563 %		03:07:23
1	Ag 328.068†	100531.9	100105.7	517.25 ug/L	517.25 ppb	03:07:28
1	As 188.979†	891.6	906.8	509.13 ug/L	509.13 ppb	03:07:49
1	B 249.677†	17812.0	18189.2	506.60 ug/L	506.60 ppb	03:07:28
1	Ba 233.527†	55408.3	55277.0	518.54 ug/L	518.54 ppb	03:07:28
1	Be 313.107†	1203317.8	1204466.9	515.29 ug/L	515.29 ppb	03:07:23
1	Cd 226.502†	35718.0	35817.8	518.81 ug/L	518.81 ppb	03:07:28
1	Co 228.616†	20244.8	20241.3	525.92 ug/L	525.92 ppb	03:07:28
1	Cr 267.716†	38715.7	38553.2	518.77 ug/L	518.77 ppb	03:07:28
1	Cu 324.752†	160319.8	154509.9	511.44 ug/L	511.44 ppb	03:07:28
1	Mn 257.610†	386694.0	385313.9	507.63 ug/L	507.63 ppb	03:07:28
1	Mo 202.031†	5695.8	5670.7	499.19 ug/L	499.19 ppb	03:07:49
1	Ni 231.604†	16640.0	16522.8	525.75 ug/L	525.75 ppb	03:07:28
1	P 214.914†	3509.6	3318.2	2398.8 ug/L	2398.8 ppb	03:07:49
1	Pb 220.353†	3216.0	3251.9	503.24 ug/L	503.24 ppb	03:07:49
1	S 181.975 Axial†	585.8	554.4	988.82 ug/L	988.82 ppb	03:07:49
1	Sb 206.836†	1213.9	1186.8	509.34 ug/L	509.34 ppb	03:07:49
1	Se 196.026†	590.0	607.5	523.89 ug/L	523.89 ppb	03:07:49
1	Si 251.611†	69621.6	68974.2	2589.6 ug/L	2589.6 ppb	03:07:28
1	Sn 189.927†	2214.2	2201.5	496.36 ug/L	496.36 ppb	03:07:49
1	Ti 334.940†	290756.9	291220.8	503.13 ug/L	503.13 ppb	03:07:28
1	Tl 190.801†	1278.2	1307.2	506.66 ug/L	506.66 ppb	03:07:49
1	U 409.014†	15316.8	17365.0	522.64 ug/L	522.64 ppb	03:07:28
1	V 292.402†	63274.1	64456.2	521.56 ug/L	521.56 ppb	03:07:28
1	Zn 213.857†	44227.7	43515.7	520.81 ug/L	520.81 ppb	03:07:28
1	SiO2†	69051.1	68407.7	5464.7 ug/L	5464.7 ppb	03:08:56
2	Sc Radial	4032.9	4032.9	87.9 %		03:06:51
2	Y RADIAL	4307.7	4307.7	87.30 %		03:06:51
2	Al 396.153Radial†	5185.8	5984.8	5597.1 ug/L	5597.1 ppb	03:06:31
2	Ca 317.933Radial†	2886.4	3255.5	5754.5 ug/L	5754.5 ppb	03:06:51
2	Fe 238.204 Radial†	484.4	543.2	5709.4 ug/L	5709.4 ppb	03:06:51
2	K 766.490 Radial†	28439.8	29795.3	5700.8 ug/L	5700.8 ppb	03:06:31
2	Mg 279.077 IEC†	134.9	153.4	5836.7 ug/L	5836.7 ppb	03:06:51
2	Na 589.592 Radial†	28315.2	33014.4	11568 ug/L	11568 ppb	03:06:31
2	Sr 421.552†	66359.5	75460.1	576.42 ug/L	576.42 ppb	03:06:31
2	Sc 361.383	685277.6	685277.6	84.297 %		03:07:54
2	Y 371.029	570688.0	570688.0	82.776 %		03:07:54
2	Ag 328.068†	100294.4	118766.3	613.37 ug/L	613.37 ppb	03:07:59
2	As 188.979†	900.4	1085.2	609.01 ug/L	609.01 ppb	03:08:19
2	B 249.677†	17701.0	21413.6	596.56 ug/L	596.56 ppb	03:07:59
2	Ba 233.527†	55296.9	65584.9	615.21 ug/L	615.21 ppb	03:07:59
2	Be 313.107†	1258690.7	1496884.0	640.33 ug/L	640.33 ppb	03:07:54
2	Cd 226.502†	35594.4	42401.2	614.27 ug/L	614.27 ppb	03:07:59
2	Co 228.616†	20189.8	23990.5	623.37 ug/L	623.37 ppb	03:07:59
2	Cr 267.716†	38955.3	46132.3	620.64 ug/L	620.64 ppb	03:07:59
2	Cu 324.752†	160698.9	185167.0	612.86 ug/L	612.86 ppb	03:07:59
2	Mn 257.610†	386640.2	458111.2	603.48 ug/L	603.48 ppb	03:07:59
2	Mo 202.031†	5794.9	6861.5	603.90 ug/L	603.90 ppb	03:08:19
2	Ni 231.604†	16605.4	19617.2	624.21 ug/L	624.21 ppb	03:07:59

2	P 214.914†	3556.6	4035.2	2919.5 ug/L	2919.5 ppb	03:08:19
2	Pb 220.353†	3271.6	3923.8	607.03 ug/L	607.03 ppb	03:08:19
2	S 181.975 Axial†	592.7	672.9	1200.4 ug/L	1200.4 ppb	03:08:19
2	Sb 206.836†	1239.7	1446.1	620.52 ug/L	620.52 ppb	03:08:19
2	Se 196.026†	593.9	723.3	620.28 ug/L	620.28 ppb	03:08:19
2	Si 251.611†	69474.7	81918.0	3075.4 ug/L	3075.4 ppb	03:07:59
2	Sn 189.927†	2251.1	2662.4	600.16 ug/L	600.16 ppb	03:08:19
2	Ti 334.940†	291732.0	347162.1	599.75 ug/L	599.75 ppb	03:07:59
2	Tl 190.801†	1304.8	1579.7	612.21 ug/L	612.21 ppb	03:08:19
2	U 409.014†	15447.1	20405.5	614.24 ug/L	614.24 ppb	03:07:59
2	V 292.402†	63551.2	76707.0	620.95 ug/L	620.95 ppb	03:07:59
2	Zn 213.857†	44243.8	51868.3	620.95 ug/L	620.95 ppb	03:07:59
2	SiO2†	68599.7	80882.8	6460.8 ug/L	6460.8 ppb	03:09:01
3	Sc Radial	4005.8	4005.8	87.3 %		03:07:16
3	Y RADIAL	4257.7	4257.7	86.29 %		03:07:16
3	Al 396.153Radial†	5197.0	6037.5	5651.2 ug/L	5651.2 ppb	03:06:56
3	Ca 317.933Radial†	2833.2	3216.8	5686.0 ug/L	5686.0 ppb	03:07:16
3	Fe 238.204 Radial†	481.4	543.5	5709.8 ug/L	5709.8 ppb	03:07:16
3	K 766.490 Radial†	28572.2	30165.8	5771.9 ug/L	5771.9 ppb	03:06:56
3	Mg 279.077 IEC†	134.1	153.5	5839.7 ug/L	5839.7 ppb	03:07:16
3	Na 589.592 Radial†	28205.8	33107.0	11600 ug/L	11600 ppb	03:06:56
3	Sr 421.552†	66434.9	76056.9	580.98 ug/L	580.98 ppb	03:06:56
3	Sc 361.383	810920.0	810920.0	99.753 %		03:08:25
3	Y 371.029	676521.3	676521.3	98.127 %		03:08:25
3	Ag 328.068†	100292.2	100330.1	518.41 ug/L	518.41 ppb	03:08:30
3	As 188.979†	904.6	923.9	518.64 ug/L	518.64 ppb	03:08:50
3	B 249.677†	17859.9	18319.5	510.25 ug/L	510.25 ppb	03:08:30
3	Ba 233.527†	54893.3	55016.8	516.11 ug/L	516.11 ppb	03:08:30
3	Be 313.107†	1199712.6	1206413.2	516.12 ug/L	516.12 ppb	03:08:25
3	Cd 226.502†	35378.7	35642.7	516.27 ug/L	516.27 ppb	03:08:30
3	Co 228.616†	20107.7	20197.4	524.80 ug/L	524.80 ppb	03:08:30
3	Cr 267.716†	38548.3	38564.2	518.92 ug/L	518.92 ppb	03:08:30
3	Cu 324.752†	160188.5	155119.1	513.45 ug/L	513.45 ppb	03:08:30
3	Mn 257.610†	383896.6	384296.6	506.30 ug/L	506.30 ppb	03:08:30
3	Mo 202.031†	5785.4	5786.9	509.41 ug/L	509.41 ppb	03:08:50
3	Ni 231.604†	16435.5	16394.8	521.68 ug/L	521.68 ppb	03:08:30
3	P 214.914†	3560.4	3385.3	2449.0 ug/L	2449.0 ppb	03:08:50
3	Pb 220.353†	3285.2	3336.2	516.20 ug/L	516.20 ppb	03:08:50
3	S 181.975 Axial†	587.1	558.4	995.94 ug/L	995.94 ppb	03:08:50
3	Sb 206.836†	1238.5	1217.0	522.22 ug/L	522.22 ppb	03:08:50
3	Se 196.026†	594.2	614.4	529.63 ug/L	529.63 ppb	03:08:50
3	Si 251.611†	69192.4	68865.6	2585.4 ug/L	2585.4 ppb	03:08:30
3	Sn 189.927†	2243.3	2240.9	505.23 ug/L	505.23 ppb	03:08:50
3	Ti 334.940†	289475.8	291280.1	503.24 ug/L	503.24 ppb	03:08:30
3	Tl 190.801†	1288.6	1323.6	512.97 ug/L	512.97 ppb	03:08:50
3	U 409.014†	15399.4	17518.5	527.27 ug/L	527.27 ppb	03:08:30
3	V 292.402†	63022.4	64496.2	522.03 ug/L	522.03 ppb	03:08:30
3	Zn 213.857†	43883.8	43375.4	519.14 ug/L	519.14 ppb	03:08:30
3	SiO2†	68829.4	68504.6	5472.1 ug/L	5472.1 ppb	03:09:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	770291.0	94.755 %	9.0595			9.56%
Sc Radial	3998.3	87.2 %	0.85			0.97%
Y 371.029	642246.6	93.155 %	8.9914			9.65%
Y RADIAL	4245.0	86.03 %	1.416			1.65%
Ag 328.068†	106400.7	549.68 ug/L	55.166	549.68 ppb	55.166	10.04%
QC value within limits for Ag 328.068 Recovery = 109.94%						
Al 396.153Radial†	6117.0	5724.6 ug/L	176.04	5724.6 ppb	176.04	3.08%
QC value greater than the upper limit for Al 396.153Radial Recovery = 114.49%						
As 188.979†	972.0	545.60 ug/L	55.127	545.60 ppb	55.127	10.10%
QC value within limits for As 188.979 Recovery = 109.12%						
B 249.677†	19307.4	537.80 ug/L	50.916	537.80 ppb	50.916	9.47%
QC value within limits for B 249.677 Recovery = 107.56%						
Ba 233.527†	58626.2	549.95 ug/L	56.527	549.95 ppb	56.527	10.28%
QC value within limits for Ba 233.527 Recovery = 109.99%						
Be 313.107†	1302588.0	557.24 ug/L	71.954	557.24 ppb	71.954	12.91%
QC value greater than the upper limit for Be 313.107 Recovery = 111.45%						
Ca 317.933Radial†	3231.8	5712.5 ug/L	36.76	5712.5 ppb	36.76	0.64%

QC value greater than the upper limit for Ca 317.933Radial Recovery = 114.25%									
Cd 226.502†	37953.9	549.78 ug/L	55.864	549.78 ppb	55.864	10.16%			
QC value within limits for Cd 226.502 Recovery = 109.96%									
Co 228.616†	21476.4	558.03 ug/L	56.588	558.03 ppb	56.588	10.14%			
QC value greater than the upper limit for Co 228.616 Recovery = 111.61%									
Cr 267.716†	41083.2	552.77 ug/L	58.770	552.77 ppb	58.770	10.63%			
QC value greater than the upper limit for Cr 267.716 Recovery = 110.55%									
Cu 324.752†	164932.0	545.92 ug/L	57.985	545.92 ppb	57.985	10.62%			
QC value within limits for Cu 324.752 Recovery = 109.18%									
Fe 238.204 Radial†	543.0	5705.8 ug/L	6.67	5705.8 ppb	6.67	0.12%			
QC value greater than the upper limit for Fe 238.204 Radial Recovery = 114.12%									
K 766.490 Radial†	30392.6	5815.3 ug/L	141.20	5815.3 ppb	141.20	2.43%			
QC value greater than the upper limit for K 766.490 Radial Recovery = 116.31%									
Mg 279.077 IEC†	154.3	5872.6 ug/L	59.69	5872.6 ppb	59.69	1.02%			
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 117.45%									
Mn 257.610†	409240.6	539.14 ug/L	55.729	539.14 ppb	55.729	10.34%			
QC value within limits for Mn 257.610 Recovery = 107.83%									
Mo 202.031†	6106.4	537.50 ug/L	57.734	537.50 ppb	57.734	10.74%			
QC value within limits for Mo 202.031 Recovery = 107.50%									
Na 589.592 Radial†	33584.2	11767 ug/L	318.1	11767 ppb	318.1	2.70%			
QC value greater than the upper limit for Na 589.592 Radial Recovery = 117.67%									
Ni 231.604†	17511.6	557.22 ug/L	58.059	557.22 ppb	58.059	10.42%			
QC value greater than the upper limit for Ni 231.604 Recovery = 111.44%									
P 214.914†	3579.6	2589.1 ug/L	287.25	2589.1 ppb	287.25	11.09%			
QC value within limits for P 214.914 Recovery = 103.56%									
Pb 220.353†	3504.0	542.16 ug/L	56.553	542.16 ppb	56.553	10.43%			
QC value within limits for Pb 220.353 Recovery = 108.43%									
S 181.975 Axial†	595.2	1061.7 ug/L	120.17	1061.7 ppb	120.17	11.32%			
QC value within limits for S 181.975 Axial Recovery = 106.17%									
Sb 206.836†	1283.3	550.69 ug/L	60.812	550.69 ppb	60.812	11.04%			
QC value greater than the upper limit for Sb 206.836 Recovery = 110.14%									
Se 196.026†	648.4	557.93 ug/L	54.068	557.93 ppb	54.068	9.69%			
QC value greater than the upper limit for Se 196.026 Recovery = 111.59%									
Si 251.611†	73252.6	2750.1 ug/L	281.72	2750.1 ppb	281.72	10.24%			
QC value greater than the upper limit for Si 251.611 Recovery = 110.00%									
Sn 189.927†	2368.3	533.92 ug/L	57.540	533.92 ppb	57.540	10.78%			
QC value within limits for Sn 189.927 Recovery = 106.78%									
Sr 421.552†	77109.6	589.02 ug/L	18.023	589.02 ppb	18.023	3.06%			
QC value greater than the upper limit for Sr 421.552 Recovery = 117.80%									
Ti 334.940†	309887.7	535.37 ug/L	55.749	535.37 ppb	55.749	10.41%			
QC value within limits for Ti 334.940 Recovery = 107.07%									
Tl 190.801†	1403.5	543.95 ug/L	59.203	543.95 ppb	59.203	10.88%			
QC value within limits for Tl 190.801 Recovery = 108.79%									
U 409.014†	18429.7	554.72 ug/L	51.599	554.72 ppb	51.599	9.30%			
QC value greater than the upper limit for U 409.014 Recovery = 110.94%									
V 292.402†	68553.1	554.85 ug/L	57.246	554.85 ppb	57.246	10.32%			
QC value greater than the upper limit for V 292.402 Recovery = 110.97%									
Zn 213.857†	46253.1	553.64 ug/L	58.305	553.64 ppb	58.305	10.53%			
QC value greater than the upper limit for Zn 213.857 Recovery = 110.73%									
SiO2†	72598.4	5799.2 ug/L	573.00	5799.2 ppb	573.00	9.88%			
QC value within limits for SiO2 Recovery = 108.45%									

QC Failed. Continue with analysis.

Sequence No.: 72

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 03:11:15

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4283.6	4283.6	93.4 %		03:13:28
1	Y RADIAL	4827.3	4827.3	97.83 %		03:13:08
1	Al 396.153Radial†	-81.8	-1.8	-1.7455 ug/L	-1.7455 ppb	03:13:28
1	Ca 317.933Radial†	17.6	-9.1	-16.003 ug/L	-16.003 ppb	03:13:28
1	Fe 238.204 Radial†	6.0	-1.4	-15.017 ug/L	-15.017 ppb	03:13:28
1	K 766.490 Radial†	2669.4	303.0	58.087 ug/L	58.087 ppb	03:13:08
1	Mg 279.077 IEC†	-0.5	-0.7	-25.266 ug/L	-25.266 ppb	03:13:28
1	Na 589.592 Radial†	-917.6	-177.6	-62.222 ug/L	-62.222 ppb	03:13:08
1	Sr 421.552†	12.7	-12.1	-0.0927 ug/L	-0.0927 ppb	03:13:08
1	Sc 361.383	796579.9	796579.9	97.989 %		03:14:25
1	Y 371.029	673041.9	673041.9	97.622 %		03:14:25
1	Ag 328.068†	210.0	3.7	0.0153 ug/L	0.0153 ppb	03:14:25
1	As 188.979†	-20.7	-4.1	-2.2948 ug/L	-2.2948 ppb	03:14:45
1	B 249.677†	-281.0	128.6	3.6025 ug/L	3.6025 ppb	03:14:45
1	Ba 233.527†	13.5	1.3	0.0110 ug/L	0.0110 ppb	03:14:45
1	Be 313.107†	-3731.2	-78.8	-0.0338 ug/L	-0.0338 ppb	03:14:25
1	Cd 226.502†	-172.1	0.7	0.0118 ug/L	0.0118 ppb	03:14:45
1	Co 228.616†	-41.7	-2.7	-0.0692 ug/L	-0.0692 ppb	03:14:45
1	Cr 267.716†	65.2	-13.0	-0.1755 ug/L	-0.1755 ppb	03:14:45
1	Cu 324.752†	5255.9	-102.4	-0.3382 ug/L	-0.3382 ppb	03:14:25
1	Mn 257.610†	498.7	-42.0	-0.0558 ug/L	-0.0558 ppb	03:14:45
1	Mo 202.031†	18.7	6.3	0.5503 ug/L	0.5503 ppb	03:14:45
1	Ni 231.604†	94.0	14.5	0.4631 ug/L	0.4631 ppb	03:14:45
1	P 214.914†	187.7	7.6	5.8206 ug/L	5.8206 ppb	03:14:45
1	Pb 220.353†	-49.2	-7.4	-1.1409 ug/L	-1.1409 ppb	03:14:45
1	S 181.975 Axial†	27.0	-2.6	-4.6849 ug/L	-4.6849 ppb	03:14:45
1	Sb 206.836†	36.5	12.7	5.2741 ug/L	5.2741 ppb	03:14:45
1	Se 196.026†	-26.0	-7.8	-6.5004 ug/L	-6.5004 ppb	03:14:45
1	Si 251.611†	620.1	134.6	5.0578 ug/L	5.0578 ppb	03:14:45
1	Sn 189.927†	5.3	-2.5	-0.5736 ug/L	-0.5736 ppb	03:14:45
1	Ti 334.940†	-1099.2	-34.5	-0.0583 ug/L	-0.0583 ppb	03:14:25
1	Tl 190.801†	-24.1	7.2	2.7761 ug/L	2.7761 ppb	03:14:45
1	U 409.014†	-2138.8	-101.7	-3.0705 ug/L	-3.0705 ppb	03:14:25
1	V 292.402†	-1340.8	-50.6	-0.4004 ug/L	-0.4004 ppb	03:14:25
1	Zn 213.857†	657.6	54.0	0.6515 ug/L	0.6515 ppb	03:14:45
1	SiO2†	631.3	148.9	11.910 ug/L	11.910 ppb	03:15:56
2	Sc Radial	4292.7	4292.7	93.6 %		03:13:53
2	Y RADIAL	4836.8	4836.8	98.02 %		03:13:33
2	Al 396.153Radial†	-76.4	4.2	3.9144 ug/L	3.9144 ppb	03:13:53
2	Ca 317.933Radial†	20.7	-5.7	-10.061 ug/L	-10.061 ppb	03:13:53
2	Fe 238.204 Radial†	8.3	1.0	10.986 ug/L	10.986 ppb	03:13:53
2	K 766.490 Radial†	2661.6	288.7	55.336 ug/L	55.336 ppb	03:13:33
2	Mg 279.077 IEC†	0.5	0.4	16.557 ug/L	16.557 ppb	03:13:53
2	Na 589.592 Radial†	-951.5	-211.8	-74.205 ug/L	-74.205 ppb	03:13:33
2	Sr 421.552†	9.7	-15.4	-0.1179 ug/L	-0.1179 ppb	03:13:33
2	Sc 361.383	797158.0	797158.0	98.060 %		03:14:50
2	Y 371.029	673728.7	673728.7	97.722 %		03:14:50
2	Ag 328.068†	233.2	27.3	0.1472 ug/L	0.1472 ppb	03:14:50
2	As 188.979†	-12.8	4.0	2.2023 ug/L	2.2023 ppb	03:15:10
2	B 249.677†	-245.1	165.4	4.6280 ug/L	4.6280 ppb	03:15:10
2	Ba 233.527†	29.3	17.4	0.1637 ug/L	0.1637 ppb	03:15:10
2	Be 313.107†	-3728.0	-72.8	-0.0312 ug/L	-0.0312 ppb	03:14:50
2	Cd 226.502†	-177.2	-4.3	-0.0646 ug/L	-0.0646 ppb	03:15:10
2	Co 228.616†	-40.9	-1.8	-0.0463 ug/L	-0.0463 ppb	03:15:10
2	Cr 267.716†	49.8	-28.8	-0.3833 ug/L	-0.3833 ppb	03:15:10
2	Cu 324.752†	5189.3	-174.2	-0.5742 ug/L	-0.5742 ppb	03:14:50
2	Mn 257.610†	503.6	-37.3	-0.0487 ug/L	-0.0487 ppb	03:15:10
2	Mo 202.031†	17.5	5.0	0.4414 ug/L	0.4414 ppb	03:15:10
2	Ni 231.604†	84.4	4.6	0.1479 ug/L	0.1479 ppb	03:15:10

2	P 214.914†	193.4	13.3	10.113 ug/L	10.113 ppb	03:15:10
2	Pb 220.353†	-39.4	2.6	0.4024 ug/L	0.4024 ppb	03:15:10
2	S 181.975 Axial†	27.4	-2.2	-3.9738 ug/L	-3.9738 ppb	03:15:10
2	Sb 206.836†	26.6	2.6	1.1042 ug/L	1.1042 ppb	03:15:10
2	Se 196.026†	-18.3	0.1	0.1504 ug/L	0.1504 ppb	03:15:10
2	Si 251.611†	619.9	134.0	5.0367 ug/L	5.0367 ppb	03:15:10
2	Sn 189.927†	7.6	-0.3	-0.0624 ug/L	-0.0624 ppb	03:15:10
2	Ti 334.940†	-1099.9	-34.4	-0.0605 ug/L	-0.0605 ppb	03:14:50
2	Tl 190.801†	-30.9	0.2	0.0914 ug/L	0.0914 ppb	03:15:10
2	U 409.014†	-2150.9	-112.4	-3.3958 ug/L	-3.3958 ppb	03:14:50
2	V 292.402†	-1264.6	28.1	0.2234 ug/L	0.2234 ppb	03:14:50
2	Zn 213.857†	656.3	52.2	0.6283 ug/L	0.6283 ppb	03:15:10
2	SiO2†	637.6	154.9	12.392 ug/L	12.392 ppb	03:16:16
3	Sc Radial	4293.3	4293.3	93.6 %		03:14:18
3	Y RADIAL	4812.5	4812.5	97.53 %		03:13:58
3	Al 396.153Radial†	-77.0	3.6	3.3146 ug/L	3.3146 ppb	03:14:18
3	Ca 317.933Radial†	17.9	-8.8	-15.475 ug/L	-15.475 ppb	03:14:18
3	Fe 238.204 Radial†	6.9	-0.4	-4.6907 ug/L	-4.6907 ppb	03:14:18
3	K 766.490 Radial†	2613.7	237.2	45.469 ug/L	45.469 ppb	03:13:58
3	Mg 279.077 IEC†	-0.3	-0.4	-16.731 ug/L	-16.731 ppb	03:14:18
3	Na 589.592 Radial†	-947.8	-207.7	-72.764 ug/L	-72.764 ppb	03:13:58
3	Sr 421.552†	26.9	3.0	0.0233 ug/L	0.0233 ppb	03:13:58
3	Sc 361.383	795960.6	795960.6	97.913 %		03:15:16
3	Y 371.029	672611.2	672611.2	97.560 %		03:15:16
3	Ag 328.068†	106.7	-101.6	-0.5211 ug/L	-0.5211 ppb	03:15:16
3	As 188.979†	-19.9	-3.3	-1.8438 ug/L	-1.8438 ppb	03:15:36
3	B 249.677†	-236.5	173.8	4.8654 ug/L	4.8654 ppb	03:15:36
3	Ba 233.527†	8.3	-4.0	-0.0390 ug/L	-0.0390 ppb	03:15:36
3	Be 313.107†	-3656.3	-5.3	-0.0024 ug/L	-0.0024 ppb	03:15:16
3	Cd 226.502†	-164.2	8.7	0.1255 ug/L	0.1255 ppb	03:15:36
3	Co 228.616†	-39.9	-0.9	-0.0203 ug/L	-0.0203 ppb	03:15:36
3	Cr 267.716†	76.3	-1.6	-0.0206 ug/L	-0.0206 ppb	03:15:36
3	Cu 324.752†	5229.0	-125.7	-0.4138 ug/L	-0.4138 ppb	03:15:16
3	Mn 257.610†	481.2	-59.5	-0.0781 ug/L	-0.0781 ppb	03:15:36
3	Mo 202.031†	23.3	11.0	0.9672 ug/L	0.9672 ppb	03:15:36
3	Ni 231.604†	87.3	7.8	0.2474 ug/L	0.2474 ppb	03:15:36
3	P 214.914†	172.5	-7.7	-5.7160 ug/L	-5.7160 ppb	03:15:36
3	Pb 220.353†	-45.6	-3.8	-0.5751 ug/L	-0.5751 ppb	03:15:36
3	S 181.975 Axial†	28.7	-0.8	-1.5024 ug/L	-1.5024 ppb	03:15:36
3	Sb 206.836†	27.2	3.3	1.3708 ug/L	1.3708 ppb	03:15:36
3	Se 196.026†	-17.6	0.8	0.6896 ug/L	0.6896 ppb	03:15:36
3	Si 251.611†	621.6	136.7	5.1314 ug/L	5.1314 ppb	03:15:36
3	Sn 189.927†	6.3	-1.6	-0.3635 ug/L	-0.3635 ppb	03:15:36
3	Ti 334.940†	-1095.4	-31.5	-0.0530 ug/L	-0.0530 ppb	03:15:16
3	Tl 190.801†	-27.4	3.8	1.4514 ug/L	1.4514 ppb	03:15:36
3	U 409.014†	-2192.1	-157.9	-4.7670 ug/L	-4.7670 ppb	03:15:16
3	V 292.402†	-1355.8	-67.0	-0.5305 ug/L	-0.5305 ppb	03:15:16
3	Zn 213.857†	648.5	45.2	0.5456 ug/L	0.5456 ppb	03:15:36
3	SiO2†	637.2	155.4	12.420 ug/L	12.420 ppb	03:16:36

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	796566.1	97.987 %	0.0737			0.08%
Sc Radial	4289.9	93.5 %	0.12			0.13%
Y 371.029	673127.3	97.634 %	0.0818			0.08%
Y RADIAL	4825.5	97.80 %	0.248			0.25%
Ag 328.068†	-23.6	-0.1195 ug/L	0.35394	-0.1195 ppb	0.35394	296.13%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	2.0	1.8278 ug/L	3.10907	1.8278 ppb	3.10907	170.10%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.2	-0.6455 ug/L	2.47652	-0.6455 ppb	2.47652	383.69%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	156.0	4.3653 ug/L	0.67118	4.3653 ppb	0.67118	15.38%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	4.9	0.0452 ug/L	0.10561	0.0452 ppb	0.10561	233.65%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-52.3	-0.0224 ug/L	0.01743	-0.0224 ppb	0.01743	77.68%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-7.8	-13.846 ug/L	3.2886	-13.846 ppb	3.2886	23.75%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated
Cd 226.502† 1.7 0.0242 ug/L 0.09569 0.0242 ppb 0.09569 394.71%
QC value within limits for Cd 226.502 Recovery = Not calculated
Co 228.616† -1.8 -0.0453 ug/L 0.02448 -0.0453 ppb 0.02448 54.10%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† -14.4 -0.1931 ug/L 0.18199 -0.1931 ppb 0.18199 94.24%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† -134.1 -0.4421 ug/L 0.12055 -0.4421 ppb 0.12055 27.27%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 238.204 Radial† -0.3 -2.9073 ug/L 13.09311 -2.9073 ppb 13.09311 450.35%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated
K 766.490 Radial† 276.3 52.964 ug/L 6.6351 52.964 ppb 6.6351 12.53%
QC value within limits for K 766.490 Radial Recovery = Not calculated
Mg 279.077 IEC† -0.2 -8.4802 ug/L 22.09857 -8.4802 ppb 22.09857 260.59%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated
Mn 257.610† -46.3 -0.0609 ug/L 0.01531 -0.0609 ppb 0.01531 25.16%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 7.4 0.6530 ug/L 0.27754 0.6530 ppb 0.27754 42.50%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592 Radial† -199.0 -69.730 ug/L 6.5422 -69.730 ppb 6.5422 9.38%
QC value within limits for Na 589.592 Radial Recovery = Not calculated
Ni 231.604† 9.0 0.2861 ug/L 0.16110 0.2861 ppb 0.16110 56.30%
QC value within limits for Ni 231.604 Recovery = Not calculated
P 214.914† 4.4 3.4060 ug/L 8.18622 3.4060 ppb 8.18622 240.35%
QC value within limits for P 214.914 Recovery = Not calculated
Pb 220.353† -2.9 -0.4379 ug/L 0.78073 -0.4379 ppb 0.78073 178.30%
QC value within limits for Pb 220.353 Recovery = Not calculated
S 181.975 Axial† -1.9 -3.3870 ug/L 1.67044 -3.3870 ppb 1.67044 49.32%
QC value within limits for S 181.975 Axial Recovery = Not calculated
Sb 206.836† 6.2 2.5830 ug/L 2.33435 2.5830 ppb 2.33435 90.37%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† -2.3 -1.8868 ug/L 4.00461 -1.8868 ppb 4.00461 212.24%
QC value within limits for Se 196.026 Recovery = Not calculated
Si 251.611† 135.1 5.0753 ug/L 0.04974 5.0753 ppb 0.04974 0.98%
QC value within limits for Si 251.611 Recovery = Not calculated
Sn 189.927† -1.5 -0.3332 ug/L 0.25692 -0.3332 ppb 0.25692 77.11%
QC value within limits for Sn 189.927 Recovery = Not calculated
Sr 421.552† -8.2 -0.0624 ug/L 0.07530 -0.0624 ppb 0.07530 120.59%
QC value within limits for Sr 421.552 Recovery = Not calculated
Ti 334.940† -33.4 -0.0573 ug/L 0.00382 -0.0573 ppb 0.00382 6.67%
QC value within limits for Ti 334.940 Recovery = Not calculated
Tl 190.801† 3.7 1.4396 ug/L 1.34243 1.4396 ppb 1.34243 93.25%
QC value within limits for Tl 190.801 Recovery = Not calculated
U 409.014† -124.0 -3.7444 ug/L 0.90036 -3.7444 ppb 0.90036 24.05%
QC value within limits for U 409.014 Recovery = Not calculated
V 292.402† -29.8 -0.2358 ug/L 0.40298 -0.2358 ppb 0.40298 170.87%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† 50.4 0.6085 ug/L 0.05569 0.6085 ppb 0.05569 9.15%
QC value within limits for Zn 213.857 Recovery = Not calculated
SiO2† 153.1 12.241 ug/L 0.2864 12.241 ppb 0.2864 2.34%
QC value within limits for SiO2 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 81

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 04:15:40

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4265.3	4265.3	93.0 %		04:17:52
1	Y RADIAL	4907.8	4907.8	99.46 %		04:17:32
1	Al 396.153Radial†	5338.8	5828.0	5454.2 ug/L	5454.2 ppb	04:17:32
1	Ca 317.933Radial†	2816.0	3000.9	5304.4 ug/L	5304.4 ppb	04:17:52
1	Fe 238.204 Radial†	470.8	498.5	5238.2 ug/L	5238.2 ppb	04:17:52
1	K 766.490 Radial†	29206.7	28857.8	5521.7 ug/L	5521.7 ppb	04:17:32
1	Mg 279.077 IEC†	133.5	143.5	5460.2 ug/L	5460.2 ppb	04:17:52
1	Na 589.592 Radial†	28229.1	31167.2	10921 ug/L	10921 ppb	04:17:32
1	Sr 421.552†	67452.1	72523.0	553.99 ug/L	553.99 ppb	04:17:32
1	Sc 361.383	810263.2	810263.2	99.672 %		04:18:50
1	Y 371.029	676175.4	676175.4	98.077 %		04:18:50
1	Ag 328.068†	99727.7	99845.2	515.77 ug/L	515.77 ppb	04:18:55
1	As 188.979†	909.0	929.0	521.35 ug/L	521.35 ppb	04:19:15
1	B 249.677†	17407.1	17879.7	498.03 ug/L	498.03 ppb	04:18:55
1	Ba 233.527†	54643.8	54811.1	514.16 ug/L	514.16 ppb	04:18:55
1	Be 313.107†	1199056.1	1206729.6	516.24 ug/L	516.24 ppb	04:18:50
1	Cd 226.502†	35160.9	35452.9	513.56 ug/L	513.56 ppb	04:18:55
1	Co 228.616†	19927.4	20032.8	520.55 ug/L	520.55 ppb	04:18:55
1	Cr 267.716†	38299.0	38345.5	515.93 ug/L	515.93 ppb	04:18:55
1	Cu 324.752†	158800.9	153857.0	509.25 ug/L	509.25 ppb	04:18:55
1	Mn 257.610†	387662.9	388387.3	511.65 ug/L	511.65 ppb	04:18:50
1	Mo 202.031†	5805.6	5811.9	511.56 ug/L	511.56 ppb	04:19:15
1	Ni 231.604†	16400.5	16373.1	520.99 ug/L	520.99 ppb	04:18:55
1	P 214.914†	3566.5	3394.4	2457.0 ug/L	2457.0 ppb	04:19:15
1	Pb 220.353†	3290.7	3344.3	517.49 ug/L	517.49 ppb	04:19:15
1	S 181.975 Axial†	597.9	569.7	1016.1 ug/L	1016.1 ppb	04:19:15
1	Sb 206.836†	1237.4	1217.0	522.32 ug/L	522.32 ppb	04:19:15
1	Se 196.026†	595.8	616.5	529.96 ug/L	529.96 ppb	04:19:15
1	Si 251.611†	68625.3	68352.9	2566.0 ug/L	2566.0 ppb	04:18:55
1	Sn 189.927†	2261.7	2261.2	509.76 ug/L	509.76 ppb	04:19:15
1	Ti 334.940†	287578.4	289611.7	500.34 ug/L	500.34 ppb	04:18:55
1	Tl 190.801†	1295.7	1331.8	516.14 ug/L	516.14 ppb	04:19:15
1	U 409.014†	15154.6	17285.4	520.29 ug/L	520.29 ppb	04:18:55
1	V 292.402†	62723.8	64247.8	520.13 ug/L	520.13 ppb	04:18:55
1	Zn 213.857†	43688.0	43214.6	517.28 ug/L	517.28 ppb	04:18:55
1	SiO2†	69115.1	68847.2	5499.5 ug/L	5499.5 ppb	04:20:22
2	Sc Radial	4290.6	4290.6	93.5 %		04:18:18
2	Y RADIAL	4798.3	4798.3	97.24 %		04:17:58
2	Al 396.153Radial†	5257.9	5707.6	5341.7 ug/L	5341.7 ppb	04:17:58
2	Ca 317.933Radial†	2838.6	3007.2	5315.6 ug/L	5315.6 ppb	04:18:18
2	Fe 238.204 Radial†	477.1	502.3	5278.2 ug/L	5278.2 ppb	04:18:18
2	K 766.490 Radial†	28844.3	28285.1	5412.1 ug/L	5412.1 ppb	04:17:58
2	Mg 279.077 IEC†	137.3	146.7	5582.4 ug/L	5582.4 ppb	04:18:18
2	Na 589.592 Radial†	27770.0	30497.2	10686 ug/L	10686 ppb	04:17:58
2	Sr 421.552†	66243.5	70802.8	540.85 ug/L	540.85 ppb	04:17:58
2	Sc 361.383	829166.3	829166.3	102.00 %		04:19:21
2	Y 371.029	691157.7	691157.7	100.25 %		04:19:21
2	Ag 328.068†	99555.5	97395.3	503.17 ug/L	503.17 ppb	04:19:26
2	As 188.979†	911.0	910.2	510.84 ug/L	510.84 ppb	04:19:46
2	B 249.677†	17497.2	17569.9	489.39 ug/L	489.39 ppb	04:19:26
2	Ba 233.527†	54484.4	53404.9	500.98 ug/L	500.98 ppb	04:19:26
2	Be 313.107†	1229884.7	1209528.7	517.41 ug/L	517.41 ppb	04:19:21
2	Cd 226.502†	35244.2	34730.4	503.08 ug/L	503.08 ppb	04:19:26
2	Co 228.616†	19970.9	19619.6	509.80 ug/L	509.80 ppb	04:19:26
2	Cr 267.716†	38280.2	37451.0	503.91 ug/L	503.91 ppb	04:19:26
2	Cu 324.752†	158566.7	149995.2	496.48 ug/L	496.48 ppb	04:19:26
2	Mn 257.610†	397535.1	389199.2	512.72 ug/L	512.72 ppb	04:19:21
2	Mo 202.031†	5793.6	5667.3	498.84 ug/L	498.84 ppb	04:19:46
2	Ni 231.604†	16393.3	15990.9	508.83 ug/L	508.83 ppb	04:19:26

2	P 214.914†	3574.8	3320.9	2404.0 ug/L	2404.0 ppb	04:19:46
2	Pb 220.353†	3290.8	3269.1	505.83 ug/L	505.83 ppb	04:19:46
2	S 181.975 Axial†	598.2	556.3	992.26 ug/L	992.26 ppb	04:19:46
2	Sb 206.836†	1243.2	1194.3	512.50 ug/L	512.50 ppb	04:19:46
2	Se 196.026†	600.6	607.6	522.62 ug/L	522.62 ppb	04:19:46
2	Si 251.611†	68663.6	66820.8	2508.5 ug/L	2508.5 ppb	04:19:26
2	Sn 189.927†	2261.6	2209.3	498.08 ug/L	498.08 ppb	04:19:46
2	Ti 334.940†	287311.8	282772.6	488.52 ug/L	488.52 ppb	04:19:26
2	Tl 190.801†	1309.2	1315.3	509.79 ug/L	509.79 ppb	04:19:46
2	U 409.014†	14987.6	16775.1	504.90 ug/L	504.90 ppb	04:19:26
2	V 292.402†	62610.2	62701.9	507.59 ug/L	507.59 ppb	04:19:26
2	Zn 213.857†	43598.9	42127.9	504.24 ug/L	504.24 ppb	04:19:26
2	SiO2†	69188.6	67338.4	5379.0 ug/L	5379.0 ppb	04:20:28
3	Sc Radial	4292.3	4292.3	93.6 %		04:18:43
3	Y RADIAL	4877.8	4877.8	98.86 %		04:18:23
3	Al 396.153Radial†	5353.8	5807.9	5435.7 ug/L	5435.7 ppb	04:18:23
3	Ca 317.933Radial†	2835.2	3002.4	5307.1 ug/L	5307.1 ppb	04:18:43
3	Fe 238.204 Radial†	474.4	499.1	5245.1 ug/L	5245.1 ppb	04:18:43
3	K 766.490 Radial†	29364.1	28828.3	5516.1 ug/L	5516.1 ppb	04:18:23
3	Mg 279.077 IEC†	133.2	142.3	5415.0 ug/L	5415.0 ppb	04:18:43
3	Na 589.592 Radial†	28426.5	31187.0	10928 ug/L	10928 ppb	04:18:23
3	Sr 421.552†	67811.1	72450.1	553.43 ug/L	553.43 ppb	04:18:23
3	Sc 361.383	821004.5	821004.5	100.99 %		04:19:52
3	Y 371.029	683793.2	683793.2	99.182 %		04:19:52
3	Ag 328.068†	99198.9	98012.5	506.33 ug/L	506.33 ppb	04:19:57
3	As 188.979†	889.6	897.9	503.97 ug/L	503.97 ppb	04:20:17
3	B 249.677†	17415.9	17659.9	491.90 ug/L	491.90 ppb	04:19:57
3	Ba 233.527†	54548.3	53999.2	506.54 ug/L	506.54 ppb	04:19:57
3	Be 313.107†	1215021.8	1206799.1	516.26 ug/L	516.26 ppb	04:19:52
3	Cd 226.502†	35140.6	34971.3	506.58 ug/L	506.58 ppb	04:19:57
3	Co 228.616†	19936.8	19780.5	513.99 ug/L	513.99 ppb	04:19:57
3	Cr 267.716†	38165.1	37710.1	507.39 ug/L	507.39 ppb	04:19:57
3	Cu 324.752†	157963.6	150943.6	499.61 ug/L	499.61 ppb	04:19:57
3	Mn 257.610†	393852.9	389427.8	513.03 ug/L	513.03 ppb	04:19:52
3	Mo 202.031†	5772.3	5702.7	501.96 ug/L	501.96 ppb	04:20:17
3	Ni 231.604†	16387.1	16144.5	513.71 ug/L	513.71 ppb	04:19:57
3	P 214.914†	3537.5	3318.8	2401.9 ug/L	2401.9 ppb	04:20:17
3	Pb 220.353†	3262.1	3272.8	506.43 ug/L	506.43 ppb	04:20:17
3	S 181.975 Axial†	586.2	550.3	981.47 ug/L	981.47 ppb	04:20:17
3	Sb 206.836†	1232.6	1196.0	513.24 ug/L	513.24 ppb	04:20:17
3	Se 196.026†	589.8	602.8	518.56 ug/L	518.56 ppb	04:20:17
3	Si 251.611†	68531.2	67358.8	2528.7 ug/L	2528.7 ppb	04:19:57
3	Sn 189.927†	2236.9	2206.9	497.54 ug/L	497.54 ppb	04:20:17
3	Ti 334.940†	286678.0	284945.4	492.29 ug/L	492.29 ppb	04:19:57
3	Tl 190.801†	1293.5	1312.6	508.72 ug/L	508.72 ppb	04:20:17
3	U 409.014†	15137.5	17069.6	513.79 ug/L	513.79 ppb	04:19:57
3	V 292.402†	62310.7	63015.5	510.15 ug/L	510.15 ppb	04:19:57
3	Zn 213.857†	43553.6	42508.0	508.80 ug/L	508.80 ppb	04:19:57
3	SiO2†	69014.0	67839.8	5419.1 ug/L	5419.1 ppb	04:20:33

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820144.7	100.89 %	1.166			1.16%
Sc Radial	4282.7	93.4 %	0.33			0.35%
Y 371.029	683708.7	99.169 %	1.0866			1.10%
Y RADIAL	4861.3	98.52 %	1.147			1.16%
Ag 328.068†	98417.7	508.43 ug/L	6.557	508.43 ppb	6.557	1.29%
QC value within limits for Ag 328.068 Recovery = 101.69%						
Al 396.153Radial†	5781.2	5410.5 ug/L	60.34	5410.5 ppb	60.34	1.12%
QC value within limits for Al 396.153Radial Recovery = 108.21%						
As 188.979†	912.4	512.06 ug/L	8.754	512.06 ppb	8.754	1.71%
QC value within limits for As 188.979 Recovery = 102.41%						
B 249.677†	17703.2	493.11 ug/L	4.448	493.11 ppb	4.448	0.90%
QC value within limits for B 249.677 Recovery = 98.62%						
Ba 233.527†	54071.7	507.23 ug/L	6.619	507.23 ppb	6.619	1.30%
QC value within limits for Ba 233.527 Recovery = 101.45%						
Be 313.107†	1207685.8	516.64 ug/L	0.671	516.64 ppb	0.671	0.13%
QC value within limits for Be 313.107 Recovery = 103.33%						
Ca 317.933Radial†	3003.5	5309.1 ug/L	5.85	5309.1 ppb	5.85	0.11%

QC value within limits for Ca 317.933 Radial Recovery = 106.18%

Cd 226.502†	35051.5	507.74 ug/L	5.337	507.74 ppb	5.337	1.05%
QC value within limits for Cd 226.502 Recovery = 101.55%						
Co 228.616†	19811.0	514.78 ug/L	5.414	514.78 ppb	5.414	1.05%
QC value within limits for Co 228.616 Recovery = 102.96%						
Cr 267.716†	37835.5	509.08 ug/L	6.184	509.08 ppb	6.184	1.21%
QC value within limits for Cr 267.716 Recovery = 101.82%						
Cu 324.752†	151598.6	501.78 ug/L	6.657	501.78 ppb	6.657	1.33%
QC value within limits for Cu 324.752 Recovery = 100.36%						
Fe 238.204 Radial†	500.0	5253.8 ug/L	21.37	5253.8 ppb	21.37	0.41%
QC value within limits for Fe 238.204 Radial Recovery = 105.08%						
K 766.490 Radial†	28657.1	5483.3 ug/L	61.73	5483.3 ppb	61.73	1.13%
QC value within limits for K 766.490 Radial Recovery = 109.67%						
Mg 279.077 IEC†	144.2	5485.9 ug/L	86.62	5485.9 ppb	86.62	1.58%
QC value within limits for Mg 279.077 IEC Recovery = 109.72%						
Mn 257.610†	389004.7	512.47 ug/L	0.721	512.47 ppb	0.721	0.14%
QC value within limits for Mn 257.610 Recovery = 102.49%						
Mo 202.031†	5727.3	504.12 ug/L	6.628	504.12 ppb	6.628	1.31%
QC value within limits for Mo 202.031 Recovery = 100.82%						
Na 589.592 Radial†	30950.5	10845 ug/L	137.6	10845 ppb	137.6	1.27%
QC value within limits for Na 589.592 Radial Recovery = 108.45%						
Ni 231.604†	16169.5	514.51 ug/L	6.120	514.51 ppb	6.120	1.19%
QC value within limits for Ni 231.604 Recovery = 102.90%						
P 214.914†	3344.7	2420.9 ug/L	31.22	2420.9 ppb	31.22	1.29%
QC value within limits for P 214.914 Recovery = 96.84%						
Pb 220.353†	3295.4	509.91 ug/L	6.566	509.91 ppb	6.566	1.29%
QC value within limits for Pb 220.353 Recovery = 101.98%						
S 181.975 Axial†	558.7	996.61 ug/L	17.735	996.61 ppb	17.735	1.78%
QC value within limits for S 181.975 Axial Recovery = 99.66%						
Sb 206.836†	1202.4	516.02 ug/L	5.468	516.02 ppb	5.468	1.06%
QC value within limits for Sb 206.836 Recovery = 103.20%						
Se 196.026†	609.0	523.71 ug/L	5.778	523.71 ppb	5.778	1.10%
QC value within limits for Se 196.026 Recovery = 104.74%						
Si 251.611†	67510.8	2534.4 ug/L	29.17	2534.4 ppb	29.17	1.15%
QC value within limits for Si 251.611 Recovery = 101.38%						
Sn 189.927†	2225.8	501.79 ug/L	6.900	501.79 ppb	6.900	1.38%
QC value within limits for Sn 189.927 Recovery = 100.36%						
Sr 421.552†	71925.3	549.42 ug/L	7.432	549.42 ppb	7.432	1.35%
QC value within limits for Sr 421.552 Recovery = 109.88%						
Ti 334.940†	285776.6	493.72 ug/L	6.037	493.72 ppb	6.037	1.22%
QC value within limits for Ti 334.940 Recovery = 98.74%						
Tl 190.801†	1319.9	511.55 ug/L	4.009	511.55 ppb	4.009	0.78%
QC value within limits for Tl 190.801 Recovery = 102.31%						
U 409.014†	17043.4	513.00 ug/L	7.726	513.00 ppb	7.726	1.51%
QC value within limits for U 409.014 Recovery = 102.60%						
V 292.402†	63321.7	512.62 ug/L	6.629	512.62 ppb	6.629	1.29%
QC value within limits for V 292.402 Recovery = 102.52%						
Zn 213.857†	42616.8	510.11 ug/L	6.617	510.11 ppb	6.617	1.30%
QC value within limits for Zn 213.857 Recovery = 102.02%						
SiO2†	68008.5	5432.6 ug/L	61.36	5432.6 ppb	61.36	1.13%
QC value within limits for SiO2 Recovery = 101.59%						

All analyte(s) passed QC.

Sequence No.: 82

Sample ID: CCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 8

Date Collected: 3/17/2010 04:22:42

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4506.0	4506.0	98.2 %		04:24:35
1	Y RADIAL	4835.5	4835.5	98.00 %		04:24:35
1	Al 396.153Radial†	-71.3	13.2	12.472 ug/L	12.472 ppb	04:24:55
1	Ca 317.933Radial†	20.1	-7.3	-12.974 ug/L	-12.974 ppb	04:24:55
1	Fe 238.204 Radial†	9.7	2.0	21.231 ug/L	21.231 ppb	04:24:55
1	K 766.490 Radial†	2542.4	32.7	6.2895 ug/L	6.2895 ppb	04:24:35
1	Mg 279.077 IEC†	3.7	3.7	139.41 ug/L	139.41 ppb	04:24:55
1	Na 589.592 Radial†	-918.9	-130.4	-45.704 ug/L	-45.704 ppb	04:24:35
1	Sr 421.552†	30.1	4.9	0.0374 ug/L	0.0374 ppb	04:24:35
1	Sc 361.383	796727.7	796727.7	98.007 %		04:25:52
1	Y 371.029	673892.3	673892.3	97.745 %		04:25:52
1	Ag 328.068†	148.3	-59.3	-0.2924 ug/L	-0.2924 ppb	04:25:52
1	As 188.979†	-14.3	2.5	1.3934 ug/L	1.3934 ppb	04:26:12
1	B 249.677†	-316.9	92.0	2.5720 ug/L	2.5720 ppb	04:26:12
1	Ba 233.527†	14.0	1.8	0.0169 ug/L	0.0169 ppb	04:26:12
1	Be 313.107†	-3679.6	-25.4	-0.0107 ug/L	-0.0107 ppb	04:25:52
1	Cd 226.502†	-179.9	-7.2	-0.1074 ug/L	-0.1074 ppb	04:26:12
1	Co 228.616†	-44.8	-5.8	-0.1529 ug/L	-0.1529 ppb	04:26:12
1	Cr 267.716†	54.5	-23.9	-0.3166 ug/L	-0.3166 ppb	04:26:12
1	Cu 324.752†	5216.8	-143.3	-0.4693 ug/L	-0.4693 ppb	04:25:52
1	Mn 257.610†	465.4	-76.1	-0.1037 ug/L	-0.1037 ppb	04:26:12
1	Mo 202.031†	8.8	-3.8	-0.3341 ug/L	-0.3341 ppb	04:26:12
1	Ni 231.604†	92.0	12.5	0.3969 ug/L	0.3969 ppb	04:26:12
1	P 214.914†	188.1	8.0	6.1041 ug/L	6.1041 ppb	04:26:12
1	Pb 220.353†	-49.2	-7.4	-1.1492 ug/L	-1.1492 ppb	04:26:12
1	S 181.975 Axial†	27.1	-2.5	-4.4026 ug/L	-4.4026 ppb	04:26:12
1	Sb 206.836†	30.6	6.7	2.7735 ug/L	2.7735 ppb	04:26:12
1	Se 196.026†	-14.1	4.4	3.7269 ug/L	3.7269 ppb	04:26:12
1	Si 251.611†	654.8	169.9	6.3978 ug/L	6.3978 ppb	04:26:12
1	Sn 189.927†	5.7	-2.2	-0.4917 ug/L	-0.4917 ppb	04:26:12
1	Ti 334.940†	-1043.0	23.1	0.0300 ug/L	0.0300 ppb	04:25:52
1	Tl 190.801†	-33.5	-2.4	-0.9336 ug/L	-0.9336 ppb	04:26:12
1	U 409.014†	-2274.0	-239.3	-7.2279 ug/L	-7.2279 ppb	04:25:52
1	V 292.402†	-1316.1	-25.2	-0.2198 ug/L	-0.2198 ppb	04:25:52
1	Zn 213.857†	649.2	45.3	0.5420 ug/L	0.5420 ppb	04:26:12
1	SiO2†	635.3	152.9	12.255 ug/L	12.255 ppb	04:27:08
2	Sc Radial	4528.6	4528.6	98.7 %		04:25:00
2	Y RADIAL	4877.9	4877.9	98.86 %		04:25:00
2	Al 396.153Radial†	-72.1	12.7	11.975 ug/L	11.975 ppb	04:25:20
2	Ca 317.933Radial†	19.8	-7.8	-13.747 ug/L	-13.747 ppb	04:25:20
2	Fe 238.204 Radial†	8.1	0.4	3.6851 ug/L	3.6851 ppb	04:25:20
2	K 766.490 Radial†	2746.9	227.0	43.503 ug/L	43.503 ppb	04:25:00
2	Mg 279.077 IEC†	2.0	2.0	75.830 ug/L	75.830 ppb	04:25:20
2	Na 589.592 Radial†	-906.2	-112.9	-39.566 ug/L	-39.566 ppb	04:25:00
2	Sr 421.552†	30.7	5.4	0.0412 ug/L	0.0412 ppb	04:25:00
2	Sc 361.383	802527.6	802527.6	98.721 %		04:26:17
2	Y 371.029	678498.3	678498.3	98.414 %		04:26:17
2	Ag 328.068†	280.9	74.0	0.3762 ug/L	0.3762 ppb	04:26:17
2	As 188.979†	-19.6	-2.9	-1.5896 ug/L	-1.5896 ppb	04:26:37
2	B 249.677†	-329.5	81.6	2.2832 ug/L	2.2832 ppb	04:26:37
2	Ba 233.527†	-2.3	-14.8	-0.1402 ug/L	-0.1402 ppb	04:26:37
2	Be 313.107†	-3794.2	-114.4	-0.0489 ug/L	-0.0489 ppb	04:26:17
2	Cd 226.502†	-164.8	9.4	0.1365 ug/L	0.1365 ppb	04:26:37
2	Co 228.616†	-45.7	-6.4	-0.1678 ug/L	-0.1678 ppb	04:26:37
2	Cr 267.716†	79.9	1.4	0.0174 ug/L	0.0174 ppb	04:26:37
2	Cu 324.752†	5261.1	-136.9	-0.4542 ug/L	-0.4542 ppb	04:26:17
2	Mn 257.610†	470.1	-74.8	-0.1012 ug/L	-0.1012 ppb	04:26:37
2	Mo 202.031†	10.5	-2.2	-0.1969 ug/L	-0.1969 ppb	04:26:37
2	Ni 231.604†	83.3	2.9	0.0937 ug/L	0.0937 ppb	04:26:37

2	P 214.914†	182.8	1.2	1.0210 ug/L	1.0210 ppb	04:26:37
2	Pb 220.353†	-64.0	-22.0	-3.3996 ug/L	-3.3996 ppb	04:26:37
2	S 181.975 Axial†	29.4	-0.4	-0.6368 ug/L	-0.6368 ppb	04:26:37
2	Sb 206.836†	23.3	-0.9	-0.3695 ug/L	-0.3695 ppb	04:26:37
2	Se 196.026†	-25.2	-6.8	-5.6036 ug/L	-5.6036 ppb	04:26:37
2	Si 251.611†	607.9	117.5	4.4248 ug/L	4.4248 ppb	04:26:37
2	Sn 189.927†	7.8	-0.0	-0.0111 ug/L	-0.0111 ppb	04:26:37
2	Ti 334.940†	-1080.6	-7.3	-0.0217 ug/L	-0.0217 ppb	04:26:17
2	Tl 190.801†	-25.5	5.9	2.2865 ug/L	2.2865 ppb	04:26:37
2	U 409.014†	-1982.2	73.2	2.2089 ug/L	2.2089 ppb	04:26:17
2	V 292.402†	-1392.7	-93.0	-0.7409 ug/L	-0.7409 ppb	04:26:17
2	Zn 213.857†	666.8	58.4	0.7044 ug/L	0.7044 ppb	04:26:37
2	SiO2†	605.8	118.3	9.4790 ug/L	9.4790 ppb	04:27:13
3	Sc Radial	4448.5	4448.5	97.0 %		04:25:25
3	Y RADIAL	4804.1	4804.1	97.36 %		04:25:25
3	Al 396.153Radial†	-78.9	4.5	4.2264 ug/L	4.2264 ppb	04:25:45
3	Ca 317.933Radial†	21.6	-5.5	-9.7920 ug/L	-9.7920 ppb	04:25:45
3	Fe 238.204 Radial†	9.3	1.7	18.016 ug/L	18.016 ppb	04:25:45
3	K 766.490 Radial†	2545.2	69.0	13.250 ug/L	13.250 ppb	04:25:25
3	Mg 279.077 IEC†	0.2	0.1	5.5952 ug/L	5.5952 ppb	04:25:45
3	Na 589.592 Radial†	-931.9	-155.9	-54.632 ug/L	-54.632 ppb	04:25:25
3	Sr 421.552†	55.8	31.8	0.2430 ug/L	0.2430 ppb	04:25:25
3	Sc 361.383	790747.6	790747.6	97.271 %		04:26:42
3	Y 371.029	667055.5	667055.5	96.754 %		04:26:42
3	Ag 328.068†	171.2	-34.6	-0.1693 ug/L	-0.1693 ppb	04:26:42
3	As 188.979†	-23.4	-7.0	-3.9116 ug/L	-3.9116 ppb	04:27:02
3	B 249.677†	-322.9	83.4	2.3307 ug/L	2.3307 ppb	04:27:02
3	Ba 233.527†	10.3	-1.9	-0.0185 ug/L	-0.0185 ppb	04:27:02
3	Be 313.107†	-3625.0	2.3	0.0008 ug/L	0.0008 ppb	04:26:42
3	Cd 226.502†	-168.3	3.3	0.0457 ug/L	0.0457 ppb	04:27:02
3	Co 228.616†	-44.9	-6.4	-0.1667 ug/L	-0.1667 ppb	04:27:02
3	Cr 267.716†	66.4	-11.3	-0.1479 ug/L	-0.1479 ppb	04:27:02
3	Cu 324.752†	5260.4	-58.2	-0.1887 ug/L	-0.1887 ppb	04:26:42
3	Mn 257.610†	497.5	-39.5	-0.0505 ug/L	-0.0505 ppb	04:27:02
3	Mo 202.031†	5.9	-6.8	-0.5983 ug/L	-0.5983 ppb	04:27:02
3	Ni 231.604†	84.6	5.6	0.1776 ug/L	0.1776 ppb	04:27:02
3	P 214.914†	198.7	20.3	15.361 ug/L	15.361 ppb	04:27:02
3	Pb 220.353†	-62.0	-21.0	-3.2376 ug/L	-3.2376 ppb	04:27:02
3	S 181.975 Axial†	29.2	-0.1	-0.1747 ug/L	-0.1747 ppb	04:27:02
3	Sb 206.836†	34.4	10.9	4.5177 ug/L	4.5177 ppb	04:27:02
3	Se 196.026†	-20.9	-2.7	-2.1662 ug/L	-2.1662 ppb	04:27:02
3	Si 251.611†	628.6	148.0	5.5780 ug/L	5.5780 ppb	04:27:02
3	Sn 189.927†	15.1	7.5	1.6961 ug/L	1.6961 ppb	04:27:02
3	Ti 334.940†	-1102.7	-46.3	-0.0793 ug/L	-0.0793 ppb	04:26:42
3	Tl 190.801†	-25.7	5.4	2.0657 ug/L	2.0657 ppb	04:27:02
3	U 409.014†	-2204.1	-184.9	-5.5865 ug/L	-5.5865 ppb	04:26:42
3	V 292.402†	-1341.2	-61.2	-0.5101 ug/L	-0.5101 ppb	04:26:42
3	Zn 213.857†	642.7	43.6	0.5234 ug/L	0.5234 ppb	04:27:02
3	SiO2†	600.8	122.3	9.8132 ug/L	9.8132 ppb	04:27:18

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	796667.6	98.000 %	0.7246			0.74%
Sc Radial	4494.4	98.0 %	0.90			0.92%
Y 371.029	673148.7	97.638 %	0.8351			0.86%
Y RADIAL	4839.2	98.07 %	0.750			0.77%
Ag 328.068†	-6.6	-0.0285 ug/L	0.35581	-0.0285 ppb	0.35581	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	10.1	9.5576 ug/L	4.62367	9.5576 ppb	4.62367	48.38%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-2.5	-1.3693 ug/L	2.65939	-1.3693 ppb	2.65939	194.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	85.7	2.3953 ug/L	0.15483	2.3953 ppb	0.15483	6.46%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	-5.0	-0.0472 ug/L	0.08240	-0.0472 ppb	0.08240	174.48%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-45.8	-0.0196 ug/L	0.02599	-0.0196 ppb	0.02599	132.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-6.9	-12.171 ug/L	2.0963	-12.171 ppb	2.0963	17.22%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated						
Cd 226.502†	1.9	0.0249 ug/L	0.12328	0.0249 ppb	0.12328	494.27%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	-6.2	-0.1625 ug/L	0.00831	-0.1625 ppb	0.00831	5.12%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-11.3	-0.1490 ug/L	0.16700	-0.1490 ppb	0.16700	112.05%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-112.8	-0.3707 ug/L	0.15780	-0.3707 ppb	0.15780	42.56%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204 Radial†	1.4	14.311 ug/L	9.3414	14.311 ppb	9.3414	65.28%
QC value within limits for Fe 238.204 Radial Recovery = Not calculated						
K 766.490 Radial†	109.6	21.014 ug/L	19.7844	21.014 ppb	19.7844	94.15%
QC value within limits for K 766.490 Radial Recovery = Not calculated						
Mg 279.077 IEC†	1.9	73.611 ug/L	66.9342	73.611 ppb	66.9342	90.93%
QC value within limits for Mg 279.077 IEC Recovery = Not calculated						
Mn 257.610†	-63.4	-0.0851 ug/L	0.03005	-0.0851 ppb	0.03005	35.30%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-4.3	-0.3765 ug/L	0.20403	-0.3765 ppb	0.20403	54.20%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592 Radial†	-133.1	-46.634 ug/L	7.5759	-46.634 ppb	7.5759	16.25%
QC value within limits for Na 589.592 Radial Recovery = Not calculated						
Ni 231.604†	7.0	0.2227 ug/L	0.15654	0.2227 ppb	0.15654	70.28%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	9.9	7.4953 ug/L	7.27050	7.4953 ppb	7.27050	97.00%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-16.8	-2.5955 ug/L	1.25508	-2.5955 ppb	1.25508	48.36%
QC value within limits for Pb 220.353 Recovery = Not calculated						
S 181.975 Axial†	-1.0	-1.7380 ug/L	2.31914	-1.7380 ppb	2.31914	133.43%
QC value within limits for S 181.975 Axial Recovery = Not calculated						
Sb 206.836†	5.6	2.3072 ug/L	2.47675	2.3072 ppb	2.47675	107.35%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.7	-1.3476 ug/L	4.71881	-1.3476 ppb	4.71881	350.15%
QC value within limits for Se 196.026 Recovery = Not calculated						
Si 251.611†	145.1	5.4669 ug/L	0.99118	5.4669 ppb	0.99118	18.13%
QC value within limits for Si 251.611 Recovery = Not calculated						
Sn 189.927†	1.8	0.3978 ug/L	1.14980	0.3978 ppb	1.14980	289.06%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 421.552†	14.0	0.1072 ug/L	0.11761	0.1072 ppb	0.11761	109.72%
QC value within limits for Sr 421.552 Recovery = Not calculated						
Ti 334.940†	-10.2	-0.0236 ug/L	0.05470	-0.0236 ppb	0.05470	231.33%
QC value within limits for Ti 334.940 Recovery = Not calculated						
Tl 190.801†	3.0	1.1395 ug/L	1.79878	1.1395 ppb	1.79878	157.85%
QC value within limits for Tl 190.801 Recovery = Not calculated						
U 409.014†	-117.0	-3.5351 ug/L	5.04177	-3.5351 ppb	5.04177	142.62%
QC value within limits for U 409.014 Recovery = Not calculated						
V 292.402†	-59.8	-0.4903 ug/L	0.26109	-0.4903 ppb	0.26109	53.25%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	49.1	0.5899 ug/L	0.09956	0.5899 ppb	0.09956	16.88%
QC value within limits for Zn 213.857 Recovery = Not calculated						
SiO2†	131.2	10.516 ug/L	1.5157	10.516 ppb	1.5157	14.41%
QC value within limits for SiO2 Recovery = Not calculated						
All analyte(s) passed QC.						

Sequence No.: 83

Sample ID: 1202047737|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 100

Date Collected: 3/17/2010 04:29:28

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047737|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4331.7	4331.7	94.4 %		04:31:41
1	Y RADIAL	4877.5	4877.5	98.85 %		04:31:21
1	Al 396.153Radial†	-69.4	12.3	11.623 ug/L	11.623 ppb	04:31:41
1	Ca 317.933Radial†	24.0	-2.4	-4.2462 ug/L	-4.2462 ppb	04:31:41
1	Fe 238.204 Radial†	16.3	9.4	98.595 ug/L	98.595 ppb	04:31:41
1	K 766.490 Radial†	2623.6	222.9	42.725 ug/L	42.725 ppb	04:31:21
1	Mg 279.077 IEC†	2.9	3.0	114.18 ug/L	114.18 ppb	04:31:41
1	Na 589.592 Radial†	-933.9	-184.0	-64.461 ug/L	-64.461 ppb	04:31:21
1	Sr 421.552†	49.6	26.7	0.2043 ug/L	0.2043 ppb	04:31:21
1	Sc 361.383	824598.7	824598.7	101.44 %		04:32:38
1	Y 371.029	696711.0	696711.0	101.06 %		04:32:38
1	Ag 328.068†	167.0	-46.0	-0.2036 ug/L	-0.2036 ppb	04:32:38
1	As 188.979†	-21.8	-4.5	-2.4574 ug/L	-2.4574 ppb	04:32:58
1	B 249.677†	-368.4	52.1	1.4435 ug/L	1.4435 ppb	04:32:58
1	Ba 233.527†	40.9	27.8	0.2651 ug/L	0.2651 ppb	04:32:58
1	Be 313.107†	-3699.3	82.1	0.0357 ug/L	0.0357 ppb	04:32:38
1	Cd 226.502†	-160.1	18.5	0.2581 ug/L	0.2581 ppb	04:32:58
1	Co 228.616†	-49.5	-9.0	-0.2364 ug/L	-0.2364 ppb	04:32:58
1	Cr 267.716†	111.7	30.6	0.4219 ug/L	0.4219 ppb	04:32:58
1	Cu 324.752†	5408.0	-134.8	-0.4417 ug/L	-0.4417 ppb	04:32:38
1	Mn 257.610†	926.2	362.2	0.4819 ug/L	0.4819 ppb	04:32:58
1	Mo 202.031†	6.5	-6.5	-0.5605 ug/L	-0.5605 ppb	04:32:58
1	Ni 231.604†	79.1	-3.5	-0.1099 ug/L	-0.1099 ppb	04:32:58
1	P 214.914†	184.9	-1.7	-1.2577 ug/L	-1.2577 ppb	04:32:58
1	Pb 220.353†	-48.7	-5.3	-0.8258 ug/L	-0.8258 ppb	04:32:58
1	S 181.975 Axial†	29.5	-1.0	-1.8506 ug/L	-1.8506 ppb	04:32:58
1	Sb 206.836†	26.1	1.2	0.4826 ug/L	0.4826 ppb	04:32:58
1	Se 196.026†	-19.8	-0.7	-0.2935 ug/L	-0.2935 ppb	04:32:58
1	Si 251.611†	1002.9	490.5	18.467 ug/L	18.467 ppb	04:32:58
1	Sn 189.927†	5.3	-2.8	-0.6390 ug/L	-0.6390 ppb	04:32:58
1	Ti 334.940†	-921.9	178.4	0.2977 ug/L	0.2977 ppb	04:32:38
1	Tl 190.801†	-25.1	7.0	2.7015 ug/L	2.7015 ppb	04:32:58
1	U 409.014†	-2065.0	45.2	1.3530 ug/L	1.3530 ppb	04:32:38
1	V 292.402†	-1240.0	95.2	0.7428 ug/L	0.7428 ppb	04:32:38
1	Zn 213.857†	796.5	168.1	2.0178 ug/L	2.0178 ppb	04:32:58
1	SiO2†	1033.0	523.1	41.906 ug/L	41.906 ppb	04:33:54
2	Sc Radial	4338.8	4338.8	94.6 %		04:32:06
2	Y RADIAL	4865.5	4865.5	98.61 %		04:31:46
2	Al 396.153Radial†	-67.6	14.3	13.484 ug/L	13.484 ppb	04:32:06
2	Ca 317.933Radial†	26.8	0.5	0.7965 ug/L	0.7965 ppb	04:32:06
2	Fe 238.204 Radial†	14.9	7.9	82.840 ug/L	82.840 ppb	04:32:06
2	K 766.490 Radial†	2526.4	115.6	22.148 ug/L	22.148 ppb	04:31:46
2	Mg 279.077 IEC†	5.1	5.3	203.49 ug/L	203.49 ppb	04:32:06
2	Na 589.592 Radial†	-841.2	-84.3	-29.546 ug/L	-29.546 ppb	04:31:46
2	Sr 421.552†	29.7	5.7	0.0433 ug/L	0.0433 ppb	04:31:46
2	Sc 361.383	799057.3	799057.3	98.294 %		04:33:03
2	Y 371.029	674960.3	674960.3	97.900 %		04:33:03
2	Ag 328.068†	264.1	58.1	0.3282 ug/L	0.3282 ppb	04:33:03
2	As 188.979†	-23.5	-6.9	-3.8160 ug/L	-3.8160 ppb	04:33:23
2	B 249.677†	-368.9	40.1	1.1074 ug/L	1.1074 ppb	04:33:23
2	Ba 233.527†	23.7	11.6	0.1122 ug/L	0.1122 ppb	04:33:23
2	Be 313.107†	-3730.1	-65.8	-0.0275 ug/L	-0.0275 ppb	04:33:03
2	Cd 226.502†	-174.5	-1.1	-0.0254 ug/L	-0.0254 ppb	04:33:23
2	Co 228.616†	-32.3	7.0	0.1789 ug/L	0.1789 ppb	04:33:23
2	Cr 267.716†	97.5	19.7	0.2749 ug/L	0.2749 ppb	04:33:23
2	Cu 324.752†	5330.7	-43.0	-0.1362 ug/L	-0.1362 ppb	04:33:03
2	Mn 257.610†	935.9	401.2	0.5281 ug/L	0.5281 ppb	04:33:23
2	Mo 202.031†	11.0	-1.7	-0.1401 ug/L	-0.1401 ppb	04:33:23
2	Ni 231.604†	94.6	14.8	0.4706 ug/L	0.4706 ppb	04:33:23

2	P 214.914†	198.0	17.5	13.149 ug/L	13.149 ppb	04:33:23
2	Pb 220.353†	-47.4	-5.5	-0.8535 ug/L	-0.8535 ppb	04:33:23
2	S 181.975 Axial†	27.7	-2.0	-3.5256 ug/L	-3.5256 ppb	04:33:23
2	Sb 206.836†	8.2	-16.2	-6.6971 ug/L	-6.6971 ppb	04:33:23
2	Se 196.026†	-15.9	2.6	2.3965 ug/L	2.3965 ppb	04:33:23
2	Si 251.611†	997.9	517.0	19.458 ug/L	19.458 ppb	04:33:23
2	Sn 189.927†	10.5	2.7	0.6094 ug/L	0.6094 ppb	04:33:23
2	Ti 334.940†	-911.4	160.1	0.2613 ug/L	0.2613 ppb	04:33:03
2	Tl 190.801†	-21.1	10.3	3.9613 ug/L	3.9613 ppb	04:33:23
2	U 409.014†	-2139.6	-95.8	-2.9028 ug/L	-2.9028 ppb	04:33:03
2	V 292.402†	-1239.1	57.1	0.4397 ug/L	0.4397 ppb	04:33:03
2	Zn 213.857†	781.9	178.3	2.1393 ug/L	2.1393 ppb	04:33:23
2	SiO2†	1025.8	548.3	43.913 ug/L	43.913 ppb	04:33:59
3	Sc Radial	4364.6	4364.6	95.1 %		04:32:31
3	Y RADIAL	4863.2	4863.2	98.56 %		04:32:11
3	Al 396.153Radial†	-69.4	12.9	12.127 ug/L	12.127 ppb	04:32:31
3	Ca 317.933Radial†	31.8	5.6	9.8444 ug/L	9.8444 ppb	04:32:31
3	Fe 238.204 Radial†	11.8	4.5	47.130 ug/L	47.130 ppb	04:32:31
3	K 766.490 Radial†	2616.4	194.4	37.245 ug/L	37.245 ppb	04:32:11
3	Mg 279.077 IEC†	1.3	1.3	48.336 ug/L	48.336 ppb	04:32:31
3	Na 589.592 Radial†	-854.9	-93.5	-32.772 ug/L	-32.772 ppb	04:32:11
3	Sr 421.552†	39.6	15.9	0.1213 ug/L	0.1213 ppb	04:32:11
3	Sc 361.383	808352.4	808352.4	99.437 %		04:33:29
3	Y 371.029	682434.4	682434.4	98.984 %		04:33:29
3	Ag 328.068†	198.9	-10.5	-0.0425 ug/L	-0.0425 ppb	04:33:29
3	As 188.979†	-25.8	-8.9	-4.9632 ug/L	-4.9632 ppb	04:33:49
3	B 249.677†	-392.5	20.6	0.5701 ug/L	0.5701 ppb	04:33:49
3	Ba 233.527†	21.2	8.8	0.0832 ug/L	0.0832 ppb	04:33:49
3	Be 313.107†	-3742.1	-34.2	-0.0142 ug/L	-0.0142 ppb	04:33:29
3	Cd 226.502†	-174.8	0.5	0.0026 ug/L	0.0026 ppb	04:33:49
3	Co 228.616†	-43.7	-4.1	-0.1093 ug/L	-0.1093 ppb	04:33:49
3	Cr 267.716†	92.2	13.2	0.1814 ug/L	0.1814 ppb	04:33:49
3	Cu 324.752†	5329.3	-106.8	-0.3519 ug/L	-0.3519 ppb	04:33:29
3	Mn 257.610†	913.1	367.4	0.4864 ug/L	0.4864 ppb	04:33:49
3	Mo 202.031†	5.6	-7.2	-0.6287 ug/L	-0.6287 ppb	04:33:49
3	Ni 231.604†	72.7	-8.3	-0.2640 ug/L	-0.2640 ppb	04:33:49
3	P 214.914†	190.1	7.2	5.4876 ug/L	5.4876 ppb	04:33:49
3	Pb 220.353†	-42.6	-0.0	-0.0094 ug/L	-0.0094 ppb	04:33:49
3	S 181.975 Axial†	25.5	-4.5	-8.0982 ug/L	-8.0982 ppb	04:33:49
3	Sb 206.836†	34.1	9.8	4.0518 ug/L	4.0518 ppb	04:33:49
3	Se 196.026†	-13.3	5.4	4.6161 ug/L	4.6161 ppb	04:33:49
3	Si 251.611†	984.0	491.3	18.498 ug/L	18.498 ppb	04:33:49
3	Sn 189.927†	9.2	1.3	0.2872 ug/L	0.2872 ppb	04:33:49
3	Ti 334.940†	-972.2	109.6	0.1859 ug/L	0.1859 ppb	04:33:29
3	Tl 190.801†	-32.0	-0.4	-0.1400 ug/L	-0.1400 ppb	04:33:49
3	U 409.014†	-2007.7	61.9	1.8649 ug/L	1.8649 ppb	04:33:29
3	V 292.402†	-1349.0	-38.9	-0.3222 ug/L	-0.3222 ppb	04:33:29
3	Zn 213.857†	795.7	183.1	2.2068 ug/L	2.2068 ppb	04:33:49
3	SiO2†	1035.3	545.8	43.726 ug/L	43.726 ppb	04:34:04

Mean Data: 1202047737|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	810669.4	99.722 %	1.5902			1.59%
Sc Radial	4345.0	94.7 %	0.38			0.40%
Y 371.029	684701.9	99.313 %	1.6029			1.61%
Y RADIAL	4868.7	98.67 %	0.156			0.16%
Ag 328.068†	0.5	0.0274 ug/L	0.27269	0.0274 ppb	0.27269	996.23%
Al 396.153Radial†	13.2	12.411 ug/L	0.9622	12.411 ppb	0.9622	7.75%
As 188.979†	-6.8	-3.7455 ug/L	1.25442	-3.7455 ppb	1.25442	33.49%
B 249.677†	37.6	1.0403 ug/L	0.44055	1.0403 ppb	0.44055	42.35%
Ba 233.527†	16.1	0.1535 ug/L	0.09771	0.1535 ppb	0.09771	63.66%
Be 313.107†	-6.0	-0.0020 ug/L	0.03333	-0.0020 ppb	0.03333	>999.9%
Ca 317.933Radial†	1.2	2.1315 ug/L	7.13954	2.1315 ppb	7.13954	334.95%
Cd 226.502†	6.0	0.0784 ug/L	0.15626	0.0784 ppb	0.15626	199.23%
Co 228.616†	-2.0	-0.0556 ug/L	0.21281	-0.0556 ppb	0.21281	382.74%
Cr 267.716†	21.2	0.2928 ug/L	0.12121	0.2928 ppb	0.12121	41.40%
Cu 324.752†	-94.8	-0.3099 ug/L	0.15703	-0.3099 ppb	0.15703	50.66%
Fe 238.204 Radial†	7.3	76.188 ug/L	26.3696	76.188 ppb	26.3696	34.61%
K 766.490 Radial†	177.6	34.040 ug/L	10.6563	34.040 ppb	10.6563	31.31%

Mg 279.077 IEC†	3.2	122.00 ug/L	77.874	122.00 ppb	77.874	63.83%
Mn 257.610†	376.9	0.4988 ug/L	0.02547	0.4988 ppb	0.02547	5.11%
Mo 202.031†	-5.1	-0.4431 ug/L	0.26459	-0.4431 ppb	0.26459	59.71%
Na 589.592 Radial†	-120.6	-42.260 ug/L	19.2943	-42.260 ppb	19.2943	45.66%
Ni 231.604†	1.0	0.0322 ug/L	0.38734	0.0322 ppb	0.38734	>999.9%
P 214.914†	7.7	5.7930 ug/L	7.20822	5.7930 ppb	7.20822	124.43%
Pb 220.353†	-3.6	-0.5629 ug/L	0.47954	-0.5629 ppb	0.47954	85.19%
S 181.975 Axial†	-2.5	-4.4915 ug/L	3.23388	-4.4915 ppb	3.23388	72.00%
Sb 206.836†	-1.7	-0.7209 ug/L	5.47455	-0.7209 ppb	5.47455	759.42%
Se 196.026†	2.4	2.2397 ug/L	2.45852	2.2397 ppb	2.45852	109.77%
Si 251.611†	499.6	18.808 ug/L	0.5632	18.808 ppb	0.5632	2.99%
Sn 189.927†	0.4	0.0858 ug/L	0.64811	0.0858 ppb	0.64811	755.00%
Sr 421.552†	16.1	0.1230 ug/L	0.08055	0.1230 ppb	0.08055	65.51%
Ti 334.940†	149.4	0.2483 ug/L	0.05704	0.2483 ppb	0.05704	22.97%
Tl 190.801†	5.6	2.1743 ug/L	2.10085	2.1743 ppb	2.10085	96.62%
U 409.014†	3.8	0.1050 ug/L	2.61744	0.1050 ppb	2.61744	>999.9%
V 292.402†	37.8	0.2868 ug/L	0.54872	0.2868 ppb	0.54872	191.33%
Zn 213.857†	176.5	2.1213 ug/L	0.09576	2.1213 ppb	0.09576	4.51%
SiO2†	539.1	43.182 ug/L	1.1091	43.182 ppb	1.1091	2.57%

Sequence No.: 84

Sample ID: 1202047742|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 101

Date Collected: 3/17/2010 04:36:16

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047742|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4602.5	4602.5	100 %			04:38:30
1	Y RADIAL	5426.9	5426.9	110.0 %			04:38:30
1	Al 396.153Radial†	98049.4	97818.3	91935 ug/L		91935 ppb	04:38:10
1	Ca 317.933Radial†	58090.4	57874.8	102300 ug/L		102300 ppb	04:38:10
1	Fe 238.204 Radial†	17112.9	17049.8	178670 ug/L		178670 ppb	04:38:10
1	K 766.490 Radial†	224228.2	220947.9	42288 ug/L		42288 ppb	04:38:10
1	Mg 279.077 IEC†	1015.7	1012.4	38343 ug/L		38343 ppb	04:38:30
1	Na 589.592 Radial†	29953.4	30661.7	10743 ug/L		10743 ppb	04:38:10
1	Sr 421.552†	322053.4	320987.0	2451.4 ug/L		2451.4 ppb	04:38:10
1	Sc 361.383	808624.3	808624.3	99.471 %			04:39:34
1	Y 371.029	735292.2	735292.2	106.65 %			04:39:34
1	Ag 328.068†	52059.4	52125.9	326.89 ug/L		326.89 ppb	04:39:34
1	As 188.979†	1868.5	1895.5	1144.5 ug/L		1144.5 ppb	04:39:54
1	B 249.677†	57699.9	58422.4	1603.1 ug/L		1603.1 ppb	04:39:34
1	Ba 233.527†	210486.5	211594.4	1988.2 ug/L		1988.2 ppb	04:39:34
1	Be 313.107†	1946516.5	1960606.8	849.76 ug/L		849.76 ppb	04:39:29
1	Cd 226.502†	43964.8	44375.2	625.40 ug/L		625.40 ppb	04:39:54
1	Co 228.616†	38271.8	38515.3	987.20 ug/L		987.20 ppb	04:39:54
1	Cr 267.716†	195566.6	196528.1	2659.6 ug/L		2659.6 ppb	04:39:34
1	Cu 324.752†	592007.1	589692.1	1961.4 ug/L		1961.4 ppb	04:39:34
1	Mn 257.610†	4181395.8	4203102.3	5550.0 ug/L		5550.0 ppb	04:39:29
1	Mo 202.031†	5898.1	5916.7	535.39 ug/L		535.39 ppb	04:39:54
1	Ni 231.604†	46442.1	46607.8	1483.3 ug/L		1483.3 ppb	04:39:34
1	P 214.914†	11105.3	10980.5	7770.0 ug/L		7770.0 ppb	04:39:54
1	Pb 220.353†	5450.7	5522.5	848.54 ug/L		848.54 ppb	04:39:54
1	S 181.975 Axial†	2278.6	2260.6	4019.0 ug/L		4019.0 ppb	04:39:54
1	Sb 206.836†	3108.9	3100.9	1292.3 ug/L		1292.3 ppb	04:39:54
1	Se 196.026†	3049.2	3084.3	3104.0 ug/L		3104.0 ppb	04:39:54
1	Si 251.611†	1163875.4	1169572.5	44008 ug/L		44008 ppb	04:39:29
1	Sn 189.927†	4526.1	4542.2	1030.6 ug/L		1030.6 ppb	04:39:54
1	Ti 334.940†	3257668.1	3276095.8	5671.2 ug/L		5671.2 ppb	04:39:29
1	Tl 190.801†	3046.4	3094.4	1258.0 ug/L		1258.0 ppb	04:39:54
1	U 409.014†	-6777.0	-4732.1	-169.19 ug/L		-169.19 ppb	04:39:34
1	V 292.402†	162473.8	164656.3	1290.3 ug/L		1290.3 ppb	04:39:34
1	Zn 213.857†	507097.9	509180.1	6112.5 ug/L		6112.5 ppb	04:39:34
1	SiO2†	1180705.2	1186494.7	95003 ug/L		95003 ppb	04:41:04
2	Sc Radial	4613.1	4613.1	101 %			04:38:55
2	Y RADIAL	5449.9	5449.9	110.4 %			04:38:55
2	Al 396.153Radial†	99054.2	98593.1	92663 ug/L		92663 ppb	04:38:35
2	Ca 317.933Radial†	58594.5	58243.1	102950 ug/L		102950 ppb	04:38:35
2	Fe 238.204 Radial†	17326.0	17222.5	180480 ug/L		180480 ppb	04:38:35
2	K 766.490 Radial†	226172.7	22368.2	42560 ug/L		42560 ppb	04:38:35
2	Mg 279.077 IEC†	1020.4	1014.7	38430 ug/L		38430 ppb	04:38:55
2	Na 589.592 Radial†	30269.2	30907.2	10829 ug/L		10829 ppb	04:38:35
2	Sr 421.552†	325352.0	323529.9	2470.8 ug/L		2470.8 ppb	04:38:35
2	Sc 361.383	805789.8	805789.8	99.122 %			04:40:06
2	Y 371.029	732657.5	732657.5	106.27 %			04:40:06
2	Ag 328.068†	51651.5	51898.5	326.29 ug/L		326.29 ppb	04:40:06
2	As 188.979†	1857.3	1890.8	1142.8 ug/L		1142.8 ppb	04:40:26
2	B 249.677†	57441.8	58366.0	1601.2 ug/L		1601.2 ppb	04:40:06
2	Ba 233.527†	210595.3	212448.6	1996.3 ug/L		1996.3 ppb	04:40:06
2	Be 313.107†	1959486.6	1980575.4	858.42 ug/L		858.42 ppb	04:40:01
2	Cd 226.502†	43945.1	44510.8	627.18 ug/L		627.18 ppb	04:40:26
2	Co 228.616†	38286.2	38665.2	990.95 ug/L		990.95 ppb	04:40:26
2	Cr 267.716†	195478.6	197130.9	2667.9 ug/L		2667.9 ppb	04:40:06
2	Cu 324.752†	588333.7	588079.7	1956.2 ug/L		1956.2 ppb	04:40:06
2	Mn 257.610†	4208431.4	4245164.4	5605.5 ug/L		5605.5 ppb	04:40:01
2	Mo 202.031†	5885.3	5924.6	536.24 ug/L		536.24 ppb	04:40:26
2	Ni 231.604†	46368.7	46698.1	1486.2 ug/L		1486.2 ppb	04:40:06

2	P 214.914†	11129.1	11043.8	7817.6 ug/L	7817.6 ppb	04:40:26
2	Pb 220.353†	5457.2	5548.3	852.45 ug/L	852.45 ppb	04:40:26
2	S 181.975 Axial†	2281.6	2271.7	4038.7 ug/L	4038.7 ppb	04:40:26
2	Sb 206.836†	3099.3	3102.2	1292.8 ug/L	1292.8 ppb	04:40:26
2	Se 196.026†	3056.8	3102.7	3124.7 ug/L	3124.7 ppb	04:40:26
2	Si 251.611†	1171932.6	1181816.9	44469 ug/L	44469 ppb	04:40:01
2	Sn 189.927†	4554.3	4586.6	1040.6 ug/L	1040.6 ppb	04:40:26
2	Ti 334.940†	3279110.9	3309249.0	5728.6 ug/L	5728.6 ppb	04:40:01
2	Tl 190.801†	3037.9	3096.6	1259.6 ug/L	1259.6 ppb	04:40:26
2	U 409.014†	-6788.6	-4767.8	-170.49 ug/L	-170.49 ppb	04:40:06
2	V 292.402†	162390.4	165146.8	1293.9 ug/L	1293.9 ppb	04:40:06
2	Zn 213.857†	506922.7	510796.6	6131.7 ug/L	6131.7 ppb	04:40:06
2	SiO2†	1169782.3	1179650.5	94455 ug/L	94455 ppb	04:41:10
3	Sc Radial	4603.2	4603.2	100 %		04:39:21
3	Y RADIAL	5432.7	5432.7	110.1 %		04:39:21
3	Al 396.153Radial†	97115.5	96871.7	91045 ug/L	91045 ppb	04:39:00
3	Ca 317.933Radial†	57385.1	57162.5	101040 ug/L	101040 ppb	04:39:00
3	Fe 238.204 Radial†	16885.4	16820.2	176260 ug/L	176260 ppb	04:39:00
3	K 766.490 Radial†	221657.6	218349.5	41791 ug/L	41791 ppb	04:39:00
3	Mg 279.077 IEC†	1014.5	1011.0	38294 ug/L	38294 ppb	04:39:21
3	Na 589.592 Radial†	29547.3	30252.0	10600 ug/L	10600 ppb	04:39:00
3	Sr 421.552†	318524.8	317417.8	2424.1 ug/L	2424.1 ppb	04:39:00
3	Sc 361.383	809383.8	809383.8	99.564 %		04:40:38
3	Y 371.029	735905.9	735905.9	106.74 %		04:40:38
3	Ag 328.068†	51959.0	51975.9	325.40 ug/L	325.40 ppb	04:40:38
3	As 188.979†	1863.7	1889.0	1141.0 ug/L	1141.0 ppb	04:40:58
3	B 249.677†	57825.8	58494.4	1605.5 ug/L	1605.5 ppb	04:40:38
3	Ba 233.527†	211264.5	212177.3	1993.6 ug/L	1993.6 ppb	04:40:38
3	Be 313.107†	1976410.1	1988795.0	861.98 ug/L	861.98 ppb	04:40:33
3	Cd 226.502†	43924.1	44292.8	624.46 ug/L	624.46 ppb	04:40:58
3	Co 228.616†	38256.0	38463.4	985.71 ug/L	985.71 ppb	04:40:58
3	Cr 267.716†	196314.7	197095.0	2667.0 ug/L	2667.0 ppb	04:40:38
3	Cu 324.752†	590867.9	587989.4	1955.7 ug/L	1955.7 ppb	04:40:38
3	Mn 257.610†	4242162.7	4260190.8	5624.9 ug/L	5624.9 ppb	04:40:33
3	Mo 202.031†	5894.7	5907.7	534.40 ug/L	534.40 ppb	04:40:58
3	Ni 231.604†	46630.6	46753.4	1488.0 ug/L	1488.0 ppb	04:40:38
3	P 214.914†	11113.6	10978.4	7771.2 ug/L	7771.2 ppb	04:40:58
3	Pb 220.353†	5431.5	5498.1	844.91 ug/L	844.91 ppb	04:40:58
3	S 181.975 Axial†	2293.5	2273.4	4042.1 ug/L	4042.1 ppb	04:40:58
3	Sb 206.836†	3105.1	3094.2	1289.2 ug/L	1289.2 ppb	04:40:58
3	Se 196.026†	3056.9	3089.0	3100.7 ug/L	3100.7 ppb	04:40:58
3	Si 251.611†	1184016.5	1188703.8	44728 ug/L	44728 ppb	04:40:33
3	Sn 189.927†	4505.2	4517.0	1024.9 ug/L	1024.9 ppb	04:40:58
3	Ti 334.940†	3308389.2	3323966.0	5753.8 ug/L	5753.8 ppb	04:40:33
3	Tl 190.801†	3061.9	3107.1	1263.9 ug/L	1263.9 ppb	04:40:58
3	U 409.014†	-6699.3	-4647.6	-166.38 ug/L	-166.38 ppb	04:40:38
3	V 292.402†	162937.1	164968.4	1293.1 ug/L	1293.1 ppb	04:40:38
3	Zn 213.857†	508446.1	510055.8	6123.4 ug/L	6123.4 ppb	04:40:38
3	SiO2†	1180542.4	1185217.4	94901 ug/L	94901 ppb	04:41:16

Mean Data: 1202047742|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	807932.7	99.385 %	0.2330			0.23%
Sc Radial	4606.2	100 %	0.1			0.13%
Y 371.029	734618.5	106.55 %	0.250			0.23%
Y RADIAL	5436.5	110.2 %	0.24			0.22%
Ag 328.068†	52000.1	326.19 ug/L	0.749	326.19 ppb	0.749	0.23%
Al 396.153Radial†	97761.1	91881 ug/L	810.5	91881 ppb	810.5	0.88%
As 188.979†	1891.7	1142.8 ug/L	1.74	1142.8 ppb	1.74	0.15%
B 249.677†	58427.6	1603.3 ug/L	2.15	1603.3 ppb	2.15	0.13%
Ba 233.527†	212073.4	1992.7 ug/L	4.10	1992.7 ppb	4.10	0.21%
Be 313.107†	1976659.1	856.72 ug/L	6.284	856.72 ppb	6.284	0.73%
Ca 317.933Radial†	57760.1	102100 ug/L	971.1	102100 ppb	971.1	0.95%
Cd 226.502†	44392.9	625.68 ug/L	1.382	625.68 ppb	1.382	0.22%
Co 228.616†	38548.0	987.95 ug/L	2.700	987.95 ppb	2.700	0.27%
Cr 267.716†	196918.0	2664.8 ug/L	4.54	2664.8 ppb	4.54	0.17%
Cu 324.752†	588587.1	1957.7 ug/L	3.19	1957.7 ppb	3.19	0.16%
Fe 238.204 Radial†	17030.8	178470 ug/L	2114.7	178470 ppb	2114.7	1.18%
K 766.490 Radial†	220555.2	42213 ug/L	390.1	42213 ppb	390.1	0.92%

Mg 279.077 IEC†	1012.7	38356 ug/L	68.8	38356 ppb	68.8	0.18%
Mn 257.610†	4236152.5	5593.5 ug/L	38.89	5593.5 ppb	38.89	0.70%
Mo 202.031†	5916.3	535.34 ug/L	0.922	535.34 ppb	0.922	0.17%
Na 589.592 Radial†	30607.0	10724 ug/L	116.0	10724 ppb	116.0	1.08%
Ni 231.604†	46686.4	1485.8 ug/L	2.34	1485.8 ppb	2.34	0.16%
P 214.914†	11000.9	7786.3 ug/L	27.12	7786.3 ppb	27.12	0.35%
Pb 220.353†	5523.0	848.63 ug/L	3.770	848.63 ppb	3.770	0.44%
S 181.975 Axial†	2268.5	4033.2 ug/L	12.47	4033.2 ppb	12.47	0.31%
Sb 206.836†	3099.1	1291.5 ug/L	1.94	1291.5 ppb	1.94	0.15%
Se 196.026†	3092.0	3109.8 ug/L	13.02	3109.8 ppb	13.02	0.42%
Si 251.611†	1180031.1	44402 ug/L	364.7	44402 ppb	364.7	0.82%
Sn 189.927†	4548.6	1032.0 ug/L	7.98	1032.0 ppb	7.98	0.77%
Sr 421.552†	320644.9	2448.7 ug/L	23.45	2448.7 ppb	23.45	0.96%
Ti 334.940†	3303103.6	5717.9 ug/L	42.31	5717.9 ppb	42.31	0.74%
Tl 190.801†	3099.3	1260.5 ug/L	3.07	1260.5 ppb	3.07	0.24%
U 409.014†	-4715.8	-168.68 ug/L	2.101	-168.68 ppb	2.101	1.25%
V 292.402†	164923.8	1292.4 ug/L	1.88	1292.4 ppb	1.88	0.15%
Zn 213.857†	510010.8	6122.6 ug/L	9.65	6122.6 ppb	9.65	0.16%
SiO2†	1183787.5	94786 ug/L	291.5	94786 ppb	291.5	0.31%

Sequence No.: 86

Sample ID: 1202047738|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 103

Date Collected: 3/17/2010 04:50:36

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047738|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4554.8	4554.8	99.3 %		04:52:29
1	Y RADIAL	5973.3	5973.3	121.1 %		04:52:29
1	Al 396.153Radial†	16667.3	16873.1	15862 ug/L	15862 ppb	04:52:29
1	Ca 317.933Radial†	4803.5	4810.2	8502.7 ug/L	8502.7 ppb	04:52:29
1	Fe 238.204 Radial†	5177.2	5206.7	54552 ug/L	54552 ppb	04:52:29
1	K 766.490 Radial†	32768.4	30448.7	5827.5 ug/L	5827.5 ppb	04:52:29
1	Mg 279.077 IEC†	58.6	59.0	2186.4 ug/L	2186.4 ppb	04:52:49
1	Na 589.592 Radial†	14494.7	15404.2	5397.4 ug/L	5397.4 ppb	04:52:29
1	Sr 421.552†	5443.7	5457.1	41.625 ug/L	41.625 ppb	04:52:29
1	Sc 361.383	823882.9	823882.9	101.35 %		04:53:47
1	Y 371.029	836442.7	836442.7	121.32 %		04:53:47
1	Ag 328.068†	-2827.5	-3000.6	1.6563 ug/L	1.6563 ppb	04:53:52
1	As 188.979†	-12.4	4.8	23.652 ug/L	23.652 ppb	04:54:12
1	B 249.677†	105.9	519.9	5.6703 ug/L	5.6703 ppb	04:53:52
1	Ba 233.527†	32102.3	31663.0	298.00 ug/L	298.00 ppb	04:53:52
1	Be 313.107†	-4888.0	-1094.0	1.6881 ug/L	1.6881 ppb	04:53:52
1	Cd 226.502†	237.3	410.5	0.2932 ug/L	0.2932 ppb	04:54:12
1	Co 228.616†	236.3	273.0	4.4391 ug/L	4.4391 ppb	04:54:12
1	Cr 267.716†	4889.3	4744.7	69.619 ug/L	69.619 ppb	04:53:52
1	Cu 324.752†	8378.6	2800.9	12.285 ug/L	12.285 ppb	04:53:52
1	Mn 257.610†	1702989.1	1679795.3	2217.0 ug/L	2217.0 ppb	04:53:47
1	Mo 202.031†	51.8	38.3	7.7056 ug/L	7.7056 ppb	04:54:12
1	Ni 231.604†	1330.2	1231.1	39.194 ug/L	39.194 ppb	04:54:12
1	P 214.914†	724.3	530.8	357.85 ug/L	357.85 ppb	04:54:12
1	Pb 220.353†	160.3	201.0	26.881 ug/L	26.881 ppb	04:54:12
1	S 181.975 Axial†	48.8	18.0	29.113 ug/L	29.113 ppb	04:54:12
1	Sb 206.836†	34.2	9.2	-0.2618 ug/L	-0.2618 ppb	04:54:12
1	Se 196.026†	-239.0	-217.0	-18.205 ug/L	-18.205 ppb	04:54:12
1	Si 251.611†	873892.6	861775.1	32431 ug/L	32431 ppb	04:53:47
1	Sn 189.927†	-14.1	-21.9	-6.5434 ug/L	-6.5434 ppb	04:54:12
1	Ti 334.940†	555588.8	549289.0	950.28 ug/L	950.28 ppb	04:53:47
1	Tl 190.801†	-91.8	-58.8	-4.2908 ug/L	-4.2908 ppb	04:54:12
1	U 409.014†	-9756.4	-7545.6	-234.25 ug/L	-234.25 ppb	04:53:47
1	V 292.402†	2426.0	3711.4	20.332 ug/L	20.332 ppb	04:53:52
1	Zn 213.857†	23973.3	23037.4	269.89 ug/L	269.89 ppb	04:53:52
1	SiO2†	879912.5	867717.9	69489 ug/L	69489 ppb	04:55:21
2	Sc Radial	4557.9	4557.9	99.4 %		04:52:55
2	Y RADIAL	5917.8	5917.8	119.9 %		04:52:55
2	Al 396.153Radial†	16572.0	16765.9	15762 ug/L	15762 ppb	04:52:55
2	Ca 317.933Radial†	4759.1	4762.3	8417.9 ug/L	8417.9 ppb	04:52:55
2	Fe 238.204 Radial†	5121.9	5147.4	53931 ug/L	53931 ppb	04:52:55
2	K 766.490 Radial†	32388.5	30044.1	5750.1 ug/L	5750.1 ppb	04:52:55
2	Mg 279.077 IEC†	54.7	54.9	2034.6 ug/L	2034.6 ppb	04:53:15
2	Na 589.592 Radial†	14290.7	15189.0	5322.0 ug/L	5322.0 ppb	04:52:55
2	Sr 421.552†	5387.1	5396.5	41.163 ug/L	41.163 ppb	04:52:55
2	Sc 361.383	829892.7	829892.7	102.09 %		04:54:18
2	Y 371.029	842693.4	842693.4	122.23 %		04:54:18
2	Ag 328.068†	-2843.3	-2995.8	1.4877 ug/L	1.4877 ppb	04:54:23
2	As 188.979†	-12.0	5.3	23.789 ug/L	23.789 ppb	04:54:43
2	B 249.677†	77.6	491.4	4.9734 ug/L	4.9734 ppb	04:54:23
2	Ba 233.527†	32163.5	31493.5	296.39 ug/L	296.39 ppb	04:54:23
2	Be 313.107†	-5023.6	-1191.9	1.6492 ug/L	1.6492 ppb	04:54:23
2	Cd 226.502†	222.2	394.0	0.1194 ug/L	0.1194 ppb	04:54:43
2	Co 228.616†	228.0	263.1	4.1908 ug/L	4.1908 ppb	04:54:43
2	Cr 267.716†	4829.1	4650.9	68.291 ug/L	68.291 ppb	04:54:23
2	Cu 324.752†	8450.4	2811.4	12.284 ug/L	12.284 ppb	04:54:23
2	Mn 257.610†	1717559.9	1681899.7	2219.7 ug/L	2219.7 ppb	04:54:18
2	Mo 202.031†	64.7	50.5	8.7269 ug/L	8.7269 ppb	04:54:43
2	Ni 231.604†	1334.1	1225.4	39.010 ug/L	39.010 ppb	04:54:43

2	P 214.914†	734.8	535.9	362.15 ug/L	362.15 ppb	04:54:43
2	Pb 220.353†	175.3	214.5	29.032 ug/L	29.032 ppb	04:54:43
2	S 181.975 Axial†	45.0	13.9	21.872 ug/L	21.872 ppb	04:54:43
2	Sb 206.836†	34.3	9.1	-0.2549 ug/L	-0.2549 ppb	04:54:43
2	Se 196.026†	-247.7	-223.9	-25.682 ug/L	-25.682 ppb	04:54:43
2	Si 251.611†	881674.6	863153.8	32483 ug/L	32483 ppb	04:54:18
2	Sn 189.927†	-9.7	-17.5	-5.5303 ug/L	-5.5303 ppb	04:54:43
2	Ti 334.940†	560408.2	550040.0	951.58 ug/L	951.58 ppb	04:54:18
2	Tl 190.801†	-87.1	-53.5	-2.2303 ug/L	-2.2303 ppb	04:54:43
2	U 409.014†	-9687.9	-7408.9	-230.04 ug/L	-230.04 ppb	04:54:18
2	V 292.402†	2471.1	3738.3	20.656 ug/L	20.656 ppb	04:54:23
2	Zn 213.857†	24024.8	22916.6	268.52 ug/L	268.52 ppb	04:54:23
2	SiO2†	881582.3	863066.3	69116 ug/L	69116 ppb	04:55:26
3	Sc Radial	4573.0	4573.0	99.7 %		04:53:20
3	Y RADIAL	5983.3	5983.3	121.3 %		04:53:20
3	Al 396.153Radial†	16617.8	16756.7	15753 ug/L	15753 ppb	04:53:20
3	Ca 317.933Radial†	4785.0	4772.4	8435.8 ug/L	8435.8 ppb	04:53:20
3	Fe 238.204 Radial†	5160.8	5169.4	54162 ug/L	54162 ppb	04:53:20
3	K 766.490 Radial†	32749.1	30298.0	5798.7 ug/L	5798.7 ppb	04:53:20
3	Mg 279.077 IEC†	59.4	59.5	2208.1 ug/L	2208.1 ppb	04:53:40
3	Na 589.592 Radial†	14308.0	15158.8	5311.4 ug/L	5311.4 ppb	04:53:20
3	Sr 421.552†	5408.0	5399.5	41.186 ug/L	41.186 ppb	04:53:20
3	Sc 361.383	823507.8	823507.8	101.30 %		04:54:49
3	Y 371.029	835791.4	835791.4	121.23 %		04:54:49
3	Ag 328.068†	-2693.2	-2869.2	2.2028 ug/L	2.2028 ppb	04:54:54
3	As 188.979†	-9.7	7.5	25.080 ug/L	25.080 ppb	04:55:14
3	B 249.677†	100.1	514.2	5.5743 ug/L	5.5743 ppb	04:54:54
3	Ba 233.527†	31590.0	31171.6	293.39 ug/L	293.39 ppb	04:54:54
3	Be 313.107†	-4980.8	-1187.8	1.6517 ug/L	1.6517 ppb	04:54:54
3	Cd 226.502†	239.2	412.4	0.3626 ug/L	0.3626 ppb	04:55:14
3	Co 228.616†	240.1	276.9	4.5422 ug/L	4.5422 ppb	04:55:14
3	Cr 267.716†	4791.9	4650.8	68.313 ug/L	68.313 ppb	04:54:54
3	Cu 324.752†	8168.6	2597.4	11.587 ug/L	11.587 ppb	04:54:54
3	Mn 257.610†	1701724.2	1679312.1	2216.3 ug/L	2216.3 ppb	04:54:49
3	Mo 202.031†	66.6	52.9	8.9547 ug/L	8.9547 ppb	04:55:14
3	Ni 231.604†	1335.4	1236.8	39.375 ug/L	39.375 ppb	04:55:14
3	P 214.914†	720.1	527.0	355.40 ug/L	355.40 ppb	04:55:14
3	Pb 220.353†	169.8	210.4	28.360 ug/L	28.360 ppb	04:55:14
3	S 181.975 Axial†	47.9	17.1	27.580 ug/L	27.580 ppb	04:55:14
3	Sb 206.836†	26.1	1.3	-3.4957 ug/L	-3.4957 ppb	04:55:14
3	Se 196.026†	-247.9	-225.9	-26.702 ug/L	-26.702 ppb	04:55:14
3	Si 251.611†	874095.1	862367.8	32453 ug/L	32453 ppb	04:54:49
3	Sn 189.927†	-7.3	-15.2	-5.0423 ug/L	-5.0423 ppb	04:55:14
3	Ti 334.940†	556289.8	550230.7	951.90 ug/L	951.90 ppb	04:54:49
3	Tl 190.801†	-83.8	-50.9	-1.2226 ug/L	-1.2226 ppb	04:55:14
3	U 409.014†	-9570.1	-7366.2	-228.78 ug/L	-228.78 ppb	04:54:49
3	V 292.402†	2303.8	3592.0	19.462 ug/L	19.462 ppb	04:54:54
3	Zn 213.857†	23611.3	22690.9	265.76 ug/L	265.76 ppb	04:54:54
3	SiO2†	876565.8	864809.7	69256 ug/L	69256 ppb	04:55:32

Mean Data: 1202047738|955145|1

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	825761.2	101.58 %	0.441			0.43%
Sc Radial	4561.9	99.4 %	0.21			0.21%
Y 371.029	838309.2	121.59 %	0.553			0.45%
Y RADIAL	5958.1	120.7 %	0.72			0.59%
Ag 328.068†	-2955.2	1.7823 ug/L	0.37382	1.7823 ppb	0.37382	20.97%
Al 396.153Radial†	16798.6	15792 ug/L	60.9	15792 ppb	60.9	0.39%
As 188.979†	5.8	24.174 ug/L	0.7880	24.174 ppb	0.7880	3.26%
B 249.677†	508.5	5.4060 ug/L	0.37769	5.4060 ppb	0.37769	6.99%
Ba 233.527†	31442.7	295.93 ug/L	2.341	295.93 ppb	2.341	0.79%
Be 313.107†	-1157.9	1.6630 ug/L	0.02175	1.6630 ppb	0.02175	1.31%
Ca 317.933Radial†	4781.7	8452.1 ug/L	44.68	8452.1 ppb	44.68	0.53%
Cd 226.502†	405.6	0.2584 ug/L	0.12527	0.2584 ppb	0.12527	48.48%
Co 228.616†	271.0	4.3907 ug/L	0.18065	4.3907 ppb	0.18065	4.11%
Cr 267.716†	4682.1	68.741 ug/L	0.7601	68.741 ppb	0.7601	1.11%
Cu 324.752†	2736.6	12.052 ug/L	0.4025	12.052 ppb	0.4025	3.34%
Fe 238.204 Radial†	5174.5	54215 ug/L	313.8	54215 ppb	313.8	0.58%
K 766.490 Radial†	30263.6	5792.1 ug/L	39.15	5792.1 ppb	39.15	0.68%

Mg 279.077 IEC†	57.8	2143.0 ug/L	94.55	2143.0 ppb	94.55	4.41%
Mn 257.610†	1680335.7	2217.6 ug/L	1.80	2217.6 ppb	1.80	0.08%
Mo 202.031†	47.2	8.4624 ug/L	0.66522	8.4624 ppb	0.66522	7.86%
Na 589.592 Radial†	15250.7	5343.6 ug/L	46.90	5343.6 ppb	46.90	0.88%
Ni 231.604†	1231.1	39.193 ug/L	0.1825	39.193 ppb	0.1825	0.47%
P 214.914†	531.2	358.46 ug/L	3.420	358.46 ppb	3.420	0.95%
Pb 220.353†	208.6	28.091 ug/L	1.1005	28.091 ppb	1.1005	3.92%
S 181.975 Axial†	16.3	26.188 ug/L	3.8156	26.188 ppb	3.8156	14.57%
Sb 206.836†	6.5	-1.3375 ug/L	1.86905	-1.3375 ppb	1.86905	139.74%
Se 196.026†	-222.3	-23.529 ug/L	4.6395	-23.529 ppb	4.6395	19.72%
Si 251.611†	862432.2	32456 ug/L	26.0	32456 ppb	26.0	0.08%
Sn 189.927†	-18.2	-5.7053 ug/L	0.76572	-5.7053 ppb	0.76572	13.42%
Sr 421.552†	5417.7	41.325 ug/L	0.2606	41.325 ppb	0.2606	0.63%
Ti 334.940†	549853.2	951.26 ug/L	0.856	951.26 ppb	0.856	0.09%
Tl 190.801†	-54.4	-2.5812 ug/L	1.56394	-2.5812 ppb	1.56394	60.59%
U 409.014†	-7440.2	-231.03 ug/L	2.862	-231.03 ppb	2.862	1.24%
V 292.402†	3680.6	20.150 ug/L	0.6176	20.150 ppb	0.6176	3.06%
Zn 213.857†	22881.6	268.05 ug/L	2.103	268.05 ppb	2.103	0.78%
SiO2†	865197.9	69287 ug/L	188.2	69287 ppb	188.2	0.27%

Sequence No.: 87

Sample ID: 1202047740|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 104

Date Collected: 3/17/2010 04:57:45

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047740|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4604.1	4604.1	100 %		04:59:38
1	Y RADIAL	6648.0	6648.0	134.7 %		04:59:38
1	Al 396.153Radial†	30518.3	30494.7	28645 ug/L	28645 ppb	04:59:38
1	Ca 317.933Radial†	8157.4	8100.4	14318 ug/L	14318 ppb	04:59:38
1	Fe 238.204 Radial†	5758.1	5729.7	60047 ug/L	60047 ppb	04:59:38
1	K 766.490 Radial†	77343.5	74510.7	14262 ug/L	14262 ppb	04:59:38
1	Mg 279.077 IEC†	189.9	189.2	7141.3 ug/L	7141.3 ppb	04:59:58
1	Na 589.592 Radial†	44350.9	44997.1	15766 ug/L	15766 ppb	04:59:38
1	Sr 421.552†	75136.9	74842.0	571.64 ug/L	571.64 ppb	04:59:38
1	Sc 361.383	821765.5	821765.5	101.09 %		05:00:57
1	Y 371.029	920726.0	920726.0	133.55 %		05:00:57
1	Ag 328.068†	96656.2	95406.2	510.14 ug/L	510.14 ppb	05:00:57
1	As 188.979†	896.3	903.7	529.71 ug/L	529.71 ppb	05:01:17
1	B 249.677†	18527.4	18743.6	513.33 ug/L	513.33 ppb	05:00:57
1	Ba 233.527†	84532.1	83610.6	785.34 ug/L	785.34 ppb	05:00:57
1	Be 313.107†	1256373.2	1246591.7	535.76 ug/L	535.76 ppb	05:00:57
1	Cd 226.502†	35255.1	35052.4	502.04 ug/L	502.04 ppb	05:01:17
1	Co 228.616†	19869.4	19695.5	508.76 ug/L	508.76 ppb	05:01:17
1	Cr 267.716†	40252.6	39740.2	540.61 ug/L	540.61 ppb	05:00:57
1	Cu 324.752†	173511.2	166179.1	553.12 ug/L	553.12 ppb	05:00:57
1	Mn 257.610†	2193269.0	2169132.6	2861.6 ug/L	2861.6 ppb	05:00:57
1	Mo 202.031†	5677.0	5603.1	497.56 ug/L	497.56 ppb	05:01:17
1	Ni 231.604†	16935.6	16672.0	530.51 ug/L	530.51 ppb	05:01:17
1	P 214.914†	1389.9	1191.1	751.18 ug/L	751.18 ppb	05:01:17
1	Pb 220.353†	3590.7	3594.9	553.54 ug/L	553.54 ppb	05:01:17
1	S 181.975 Axial†	2943.3	2881.5	5139.5 ug/L	5139.5 ppb	05:01:17
1	Sb 206.836†	1236.4	1198.6	509.36 ug/L	509.36 ppb	05:01:17
1	Se 196.026†	380.9	395.6	511.50 ug/L	511.50 ppb	05:01:17
1	Si 251.611†	1319092.9	1304409.8	49083 ug/L	49083 ppb	05:00:57
1	Sn 189.927†	2251.3	2219.1	498.75 ug/L	498.75 ppb	05:01:17
1	Ti 334.940†	936817.3	927830.5	1604.5 ug/L	1604.5 ppb	05:00:57
1	Tl 190.801†	1218.7	1237.4	500.17 ug/L	500.17 ppb	05:01:17
1	U 409.014†	4537.4	6569.6	190.37 ug/L	190.37 ppb	05:00:57
1	V 292.402†	65486.4	66099.9	524.93 ug/L	524.93 ppb	05:00:57
1	Zn 213.857†	69396.3	68032.9	808.79 ug/L	808.79 ppb	05:00:57
1	SiO2†	1335659.3	1320800.9	105760 ug/L	105760 ppb	05:02:18
2	Sc Radial	4495.0	4495.0	98.0 %		05:00:03
2	Y RADIAL	6538.4	6538.4	132.5 %		05:00:03
2	Al 396.153Radial†	30041.7	30746.4	28881 ug/L	28881 ppb	05:00:03
2	Ca 317.933Radial†	7985.0	8121.7	14356 ug/L	14356 ppb	05:00:03
2	Fe 238.204 Radial†	5644.2	5752.7	60288 ug/L	60288 ppb	05:00:03
2	K 766.490 Radial†	76243.7	75258.6	14405 ug/L	14405 ppb	05:00:03
2	Mg 279.077 IEC†	193.2	197.1	7441.3 ug/L	7441.3 ppb	05:00:23
2	Na 589.592 Radial†	43522.4	45224.1	15846 ug/L	15846 ppb	05:00:03
2	Sr 421.552†	73894.8	75391.3	575.83 ug/L	575.83 ppb	05:00:03
2	Sc 361.383	816763.2	816763.2	100.47 %		05:01:24
2	Y 371.029	915378.9	915378.9	132.77 %		05:01:24
2	Ag 328.068†	96135.6	95473.6	510.56 ug/L	510.56 ppb	05:01:24
2	As 188.979†	911.4	924.2	541.17 ug/L	541.17 ppb	05:01:44
2	B 249.677†	18460.0	18788.6	514.55 ug/L	514.55 ppb	05:01:24
2	Ba 233.527†	84104.7	83697.4	786.16 ug/L	786.16 ppb	05:01:24
2	Be 313.107†	1249642.3	1247504.4	536.16 ug/L	536.16 ppb	05:01:24
2	Cd 226.502†	35247.4	35258.2	505.00 ug/L	505.00 ppb	05:01:44
2	Co 228.616†	19815.6	19762.4	510.50 ug/L	510.50 ppb	05:01:44
2	Cr 267.716†	40093.2	39825.4	541.78 ug/L	541.78 ppb	05:01:24
2	Cu 324.752†	172386.1	166110.6	552.90 ug/L	552.90 ppb	05:01:24
2	Mn 257.610†	2182012.5	2171217.4	2864.3 ug/L	2864.3 ppb	05:01:24
2	Mo 202.031†	5682.4	5642.9	501.08 ug/L	501.08 ppb	05:01:44
2	Ni 231.604†	16946.7	16785.7	534.13 ug/L	534.13 ppb	05:01:44

2	P 214.914†	1388.6	1198.2	756.51 ug/L	756.51 ppb	05:01:44
2	Pb 220.353†	3576.1	3602.1	554.67 ug/L	554.67 ppb	05:01:44
2	S 181.975 Axial†	2942.6	2898.7	5170.1 ug/L	5170.1 ppb	05:01:44
2	Sb 206.836†	1231.4	1201.1	510.53 ug/L	510.53 ppb	05:01:44
2	Se 196.026†	372.0	389.1	506.90 ug/L	506.90 ppb	05:01:44
2	Si 251.611†	1312425.9	1305766.1	49134 ug/L	49134 ppb	05:01:24
2	Sn 189.927†	2259.7	2241.1	503.69 ug/L	503.69 ppb	05:01:44
2	Ti 334.940†	931774.5	928487.3	1605.6 ug/L	1605.6 ppb	05:01:24
2	Tl 190.801†	1225.0	1251.0	505.42 ug/L	505.42 ppb	05:01:44
2	U 409.014†	4598.8	6658.2	193.02 ug/L	193.02 ppb	05:01:24
2	V 292.402†	65180.0	66191.8	525.68 ug/L	525.68 ppb	05:01:24
2	Zn 213.857†	69024.7	68083.5	809.34 ug/L	809.34 ppb	05:01:24
2	SiO2†	1329977.4	1323238.1	105950 ug/L	105950 ppb	05:02:24
3	Sc Radial	4482.9	4482.9	97.7 %		05:00:28
3	Y RADIAL	6507.0	6507.0	131.9 %		05:00:28
3	Al 396.153Radial†	29800.0	30581.7	28726 ug/L	28726 ppb	05:00:28
3	Ca 317.933Radial†	7955.3	8113.3	14341 ug/L	14341 ppb	05:00:28
3	Fe 238.204 Radial†	5640.7	5764.5	60412 ug/L	60412 ppb	05:00:28
3	K 766.490 Radial†	75862.1	75078.0	14371 ug/L	14371 ppb	05:00:28
3	Mg 279.077 IEC†	194.1	198.6	7497.8 ug/L	7497.8 ppb	05:00:48
3	Na 589.592 Radial†	43172.1	44985.3	15762 ug/L	15762 ppb	05:00:28
3	Sr 421.552†	73307.3	74993.4	572.79 ug/L	572.79 ppb	05:00:28
3	Sc 361.383	815046.3	815046.3	100.26 %		05:01:51
3	Y 371.029	915704.8	915704.8	132.82 %		05:01:51
3	Ag 328.068†	95986.8	95526.8	510.87 ug/L	510.87 ppb	05:01:51
3	As 188.979†	914.7	929.4	544.10 ug/L	544.10 ppb	05:02:11
3	B 249.677†	18422.4	18789.9	514.56 ug/L	514.56 ppb	05:01:51
3	Ba 233.527†	83753.7	83523.6	784.54 ug/L	784.54 ppb	05:01:51
3	Be 313.107†	1247125.5	1247614.2	536.20 ug/L	536.20 ppb	05:01:51
3	Cd 226.502†	35139.5	35224.6	504.50 ug/L	504.50 ppb	05:02:11
3	Co 228.616†	19774.1	19762.6	510.50 ug/L	510.50 ppb	05:02:11
3	Cr 267.716†	39914.7	39731.4	540.53 ug/L	540.53 ppb	05:01:51
3	Cu 324.752†	172329.4	166415.4	553.92 ug/L	553.92 ppb	05:01:51
3	Mn 257.610†	2175051.2	2168848.9	2861.2 ug/L	2861.2 ppb	05:01:51
3	Mo 202.031†	5658.4	5630.9	500.03 ug/L	500.03 ppb	05:02:11
3	Ni 231.604†	16898.0	16772.7	533.72 ug/L	533.72 ppb	05:02:11
3	P 214.914†	1368.7	1181.2	743.36 ug/L	743.36 ppb	05:02:11
3	Pb 220.353†	3553.4	3586.9	552.27 ug/L	552.27 ppb	05:02:11
3	S 181.975 Axial†	2939.6	2901.8	5175.7 ug/L	5175.7 ppb	05:02:11
3	Sb 206.836†	1226.7	1199.0	509.58 ug/L	509.58 ppb	05:02:11
3	Se 196.026†	378.9	396.7	513.54 ug/L	513.54 ppb	05:02:11
3	Si 251.611†	1307690.6	1303794.6	49060 ug/L	49060 ppb	05:01:51
3	Sn 189.927†	2237.9	2224.1	499.85 ug/L	499.85 ppb	05:02:11
3	Ti 334.940†	929872.3	928543.5	1605.7 ug/L	1605.7 ppb	05:01:51
3	Tl 190.801†	1229.6	1258.2	508.17 ug/L	508.17 ppb	05:02:11
3	U 409.014†	4606.3	6675.3	193.52 ug/L	193.52 ppb	05:01:51
3	V 292.402†	65051.3	66200.0	525.72 ug/L	525.72 ppb	05:01:51
3	Zn 213.857†	68786.3	67990.5	808.20 ug/L	808.20 ppb	05:01:51
3	SiO2†	1325280.9	1321342.1	105800 ug/L	105800 ppb	05:02:30

Mean Data: 1202047740|955145|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	817858.3	100.61 %	0.429			0.43%
Sc Radial	4527.3	98.7 %	1.45			1.47%
Y 371.029	917269.9	133.05 %	0.435			0.33%
Y RADIAL	6564.5	133.0 %	1.50			1.13%
Ag 328.068†	95468.9	510.52 ug/L	0.368	510.52 ppb	0.368	0.07%
Al 396.153Radial†	30607.6	28751 ug/L	120.1	28751 ppb	120.1	0.42%
As 188.979†	919.1	538.32 ug/L	7.605	538.32 ppb	7.605	1.41%
B 249.677†	18774.0	514.15 ug/L	0.707	514.15 ppb	0.707	0.14%
Ba 233.527†	83610.5	785.35 ug/L	0.811	785.35 ppb	0.811	0.10%
Be 313.107†	1247236.8	536.04 ug/L	0.241	536.04 ppb	0.241	0.04%
Ca 317.933Radial†	8111.8	14338 ug/L	19.0	14338 ppb	19.0	0.13%
Cd 226.502†	35178.4	503.85 ug/L	1.585	503.85 ppb	1.585	0.31%
Co 228.616†	19740.2	509.92 ug/L	1.004	509.92 ppb	1.004	0.20%
Cr 267.716†	39765.7	540.98 ug/L	0.699	540.98 ppb	0.699	0.13%
Cu 324.752†	166235.0	553.32 ug/L	0.535	553.32 ppb	0.535	0.10%
Fe 238.204 Radial†	5748.9	60249 ug/L	185.7	60249 ppb	185.7	0.31%
K 766.490 Radial†	74949.1	14346 ug/L	74.7	14346 ppb	74.7	0.52%

Mg 279.077 IEC†	194.9	7360.1 ug/L	191.60	7360.1 ppb	191.60	2.60%
Mn 257.610†	2169733.0	2862.4 ug/L	1.70	2862.4 ppb	1.70	0.06%
Mo 202.031†	5625.6	499.56 ug/L	1.807	499.56 ppb	1.807	0.36%
Na 589.592 Radial†	45068.8	15792 ug/L	47.1	15792 ppb	47.1	0.30%
Ni 231.604†	16743.5	532.79 ug/L	1.980	532.79 ppb	1.980	0.37%
P 214.914†	1190.2	750.35 ug/L	6.616	750.35 ppb	6.616	0.88%
Pb 220.353†	3594.6	553.49 ug/L	1.200	553.49 ppb	1.200	0.22%
S 181.975 Axial†	2894.0	5161.8 ug/L	19.49	5161.8 ppb	19.49	0.38%
Sb 206.836†	1199.6	509.82 ug/L	0.622	509.82 ppb	0.622	0.12%
Se 196.026†	393.8	510.65 ug/L	3.401	510.65 ppb	3.401	0.67%
Si 251.611†	1304656.8	49092 ug/L	37.9	49092 ppb	37.9	0.08%
Sn 189.927†	2228.1	500.76 ug/L	2.596	500.76 ppb	2.596	0.52%
Sr 421.552†	75075.6	573.42 ug/L	2.167	573.42 ppb	2.167	0.38%
Ti 334.940†	928287.1	1605.2 ug/L	0.67	1605.2 ppb	0.67	0.04%
Tl 190.801†	1248.9	504.59 ug/L	4.061	504.59 ppb	4.061	0.80%
U 409.014†	6634.3	192.30 ug/L	1.693	192.30 ppb	1.693	0.88%
V 292.402†	66163.9	525.44 ug/L	0.448	525.44 ppb	0.448	0.09%
Zn 213.857†	68035.6	808.77 ug/L	0.571	808.77 ppb	0.571	0.07%
SiO2†	1321793.7	105840 ug/L	102.4	105840 ppb	102.4	0.10%

Sequence No.: 88

Sample ID: 1202047741|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 105

Date Collected: 3/17/2010 05:04:41

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 1202047741|955145|1

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4497.5	4497.5	98.0 %		05:06:34
1	Y RADIAL	6495.9	6495.9	131.6 %		05:06:34
1	Al 396.153Radial†	29525.9	30203.2	28371 ug/L	28371 ppb	05:06:34
1	Ca 317.933Radial†	8190.9	8327.2	14719 ug/L	14719 ppb	05:06:34
1	Fe 238.204 Radial†	5953.5	6064.9	63559 ug/L	63559 ppb	05:06:34
1	K 766.490 Radial†	73154.4	72064.1	13794 ug/L	13794 ppb	05:06:34
1	Mg 279.077 IEC†	195.5	199.3	7523.1 ug/L	7523.1 ppb	05:06:54
1	Na 589.592 Radial†	40207.3	41817.8	14652 ug/L	14652 ppb	05:06:34
1	Sr 421.552†	71378.6	72782.7	555.90 ug/L	555.90 ppb	05:06:34
1	Sc 361.383	815340.7	815340.7	100.30 %		05:07:53
1	Y 371.029	917550.9	917550.9	133.09 %		05:07:53
1	Ag 328.068†	93289.1	92802.5	497.84 ug/L	497.84 ppb	05:07:53
1	As 188.979†	890.5	904.9	531.76 ug/L	531.76 ppb	05:08:13
1	B 249.677†	17887.4	18249.9	498.97 ug/L	498.97 ppb	05:07:53
1	Ba 233.527†	90445.0	90164.9	846.77 ug/L	846.77 ppb	05:07:53
1	Be 313.107†	1211106.8	1211253.0	520.83 ug/L	520.83 ppb	05:07:53
1	Cd 226.502†	34461.5	34535.9	494.19 ug/L	494.19 ppb	05:08:13
1	Co 228.616†	19375.2	19357.7	499.82 ug/L	499.82 ppb	05:08:13
1	Cr 267.716†	38883.9	38689.3	526.87 ug/L	526.87 ppb	05:07:53
1	Cu 324.752†	168466.7	162502.1	541.14 ug/L	541.14 ppb	05:07:53
1	Mn 257.610†	2268598.8	2261336.6	2983.3 ug/L	2983.3 ppb	05:07:53
1	Mo 202.031†	5569.3	5540.0	492.29 ug/L	492.29 ppb	05:08:13
1	Ni 231.604†	16600.5	16470.0	524.08 ug/L	524.08 ppb	05:08:13
1	P 214.914†	1510.5	1322.1	849.32 ug/L	849.32 ppb	05:08:13
1	Pb 220.353†	3522.4	3554.7	546.77 ug/L	546.77 ppb	05:08:13
1	S 181.975 Axial†	2911.4	2872.7	5123.8 ug/L	5123.8 ppb	05:08:13
1	Sb 206.836†	1216.8	1188.7	504.76 ug/L	504.76 ppb	05:08:13
1	Se 196.026†	348.2	366.0	496.93 ug/L	496.93 ppb	05:08:13
1	Si 251.611†	1260928.6	1256700.1	47287 ug/L	47287 ppb	05:07:53
1	Sn 189.927†	2198.1	2183.6	490.62 ug/L	490.62 ppb	05:08:13
1	Ti 334.940†	967915.6	966139.5	1670.7 ug/L	1670.7 ppb	05:07:53
1	Tl 190.801†	1201.0	1229.2	498.19 ug/L	498.19 ppb	05:08:13
1	U 409.014†	4151.0	6219.7	179.44 ug/L	179.44 ppb	05:07:53
1	V 292.402†	64331.2	65458.6	519.14 ug/L	519.14 ppb	05:07:53
1	Zn 213.857†	69098.8	68277.3	811.27 ug/L	811.27 ppb	05:07:53
1	SiO2†	1267060.3	1262816.6	101120 ug/L	101120 ppb	05:09:14
2	Sc Radial	4507.1	4507.1	98.2 %		05:06:59
2	Y RADIAL	6515.2	6515.2	132.0 %		05:06:59
2	Al 396.153Radial†	29610.3	30225.0	28392 ug/L	28392 ppb	05:06:59
2	Ca 317.933Radial†	8232.5	8351.7	14763 ug/L	14763 ppb	05:06:59
2	Fe 238.204 Radial†	5938.1	6036.3	63260 ug/L	63260 ppb	05:06:59
2	K 766.490 Radial†	73456.4	72212.7	13822 ug/L	13822 ppb	05:06:59
2	Mg 279.077 IEC†	199.4	202.9	7659.9 ug/L	7659.9 ppb	05:07:19
2	Na 589.592 Radial†	40116.7	41638.3	14590 ug/L	14590 ppb	05:06:59
2	Sr 421.552†	71595.7	72848.7	556.40 ug/L	556.40 ppb	05:06:59
2	Sc 361.383	826588.8	826588.8	101.68 %		05:08:21
2	Y 371.029	929604.2	929604.2	134.84 %		05:08:21
2	Ag 328.068†	94428.5	92657.4	497.00 ug/L	497.00 ppb	05:08:21
2	As 188.979†	881.0	883.5	519.80 ug/L	519.80 ppb	05:08:41
2	B 249.677†	18423.9	18534.8	507.03 ug/L	507.03 ppb	05:08:21
2	Ba 233.527†	91495.3	89970.7	844.94 ug/L	844.94 ppb	05:08:21
2	Be 313.107†	1226526.9	1209986.4	520.29 ug/L	520.29 ppb	05:08:21
2	Cd 226.502†	34011.4	33625.7	481.02 ug/L	481.02 ppb	05:08:41
2	Co 228.616†	19136.4	18860.0	486.86 ug/L	486.86 ppb	05:08:41
2	Cr 267.716†	39364.8	38634.7	526.11 ug/L	526.11 ppb	05:08:21
2	Cu 324.752†	171500.4	163199.9	543.44 ug/L	543.44 ppb	05:08:21
2	Mn 257.610†	2296086.5	2257590.6	2978.3 ug/L	2978.3 ppb	05:08:21
2	Mo 202.031†	5488.8	5385.3	478.66 ug/L	478.66 ppb	05:08:41
2	Ni 231.604†	16409.2	16056.6	510.93 ug/L	510.93 ppb	05:08:41

2	P 214.914†	1474.2	1265.9	806.66 ug/L	806.66 ppb	05:08:41
2	Pb 220.353†	3466.8	3452.3	530.99 ug/L	530.99 ppb	05:08:41
2	S 181.975 Axial†	2860.4	2782.9	4963.6 ug/L	4963.6 ppb	05:08:41
2	Sb 206.836†	1190.3	1146.1	486.66 ug/L	486.66 ppb	05:08:41
2	Se 196.026†	340.3	353.4	485.65 ug/L	485.65 ppb	05:08:41
2	Si 251.611†	1278377.3	1256752.7	47290 ug/L	47290 ppb	05:08:21
2	Sn 189.927†	2176.7	2132.8	479.20 ug/L	479.20 ppb	05:08:41
2	Ti 334.940†	981280.0	966150.7	1670.7 ug/L	1670.7 ppb	05:08:21
2	Tl 190.801†	1186.6	1198.7	486.49 ug/L	486.49 ppb	05:08:41
2	U 409.014†	4171.3	6183.4	178.38 ug/L	178.38 ppb	05:08:21
2	V 292.402†	65055.8	65298.4	517.71 ug/L	517.71 ppb	05:08:21
2	Zn 213.857†	69960.1	68186.9	810.30 ug/L	810.30 ppb	05:08:21
2	SiO2†	1266825.4	1245394.6	99721 ug/L	99721 ppb	05:09:20
3	Sc Radial	4559.6	4559.6	99.4 %		05:07:25
3	Y RADIAL	6660.6	6660.6	135.0 %		05:07:25
3	Al 396.153Radial†	30196.4	30467.3	28619 ug/L	28619 ppb	05:07:25
3	Ca 317.933Radial†	8381.5	8405.0	14857 ug/L	14857 ppb	05:07:25
3	Fe 238.204 Radial†	6047.1	6076.4	63679 ug/L	63679 ppb	05:07:25
3	K 766.490 Radial†	74759.1	72661.6	13908 ug/L	13908 ppb	05:07:25
3	Mg 279.077 IEC†	196.8	198.0	7471.8 ug/L	7471.8 ppb	05:07:45
3	Na 589.592 Radial†	40955.5	42011.7	14720 ug/L	14720 ppb	05:07:25
3	Sr 421.552†	72979.0	73400.6	560.62 ug/L	560.62 ppb	05:07:25
3	Sc 361.383	820458.7	820458.7	100.93 %		05:08:48
3	Y 371.029	925115.6	925115.6	134.18 %		05:08:48
3	Ag 328.068†	93604.2	92534.5	496.49 ug/L	496.49 ppb	05:08:48
3	As 188.979†	896.4	905.2	531.96 ug/L	531.96 ppb	05:09:08
3	B 249.677†	18041.7	18291.5	500.13 ug/L	500.13 ppb	05:08:48
3	Ba 233.527†	90597.4	89753.4	842.92 ug/L	842.92 ppb	05:08:48
3	Be 313.107†	1216850.2	1209411.1	520.03 ug/L	520.03 ppb	05:08:48
3	Cd 226.502†	34405.4	34266.0	490.26 ug/L	490.26 ppb	05:09:08
3	Co 228.616†	19348.6	19210.8	496.00 ug/L	496.00 ppb	05:09:08
3	Cr 267.716†	39089.0	38650.7	526.37 ug/L	526.37 ppb	05:08:48
3	Cu 324.752†	169593.6	162570.8	541.38 ug/L	541.38 ppb	05:08:48
3	Mn 257.610†	2272404.3	2250997.5	2969.7 ug/L	2969.7 ppb	05:08:48
3	Mo 202.031†	5570.8	5506.8	489.38 ug/L	489.38 ppb	05:09:08
3	Ni 231.604†	16583.7	16350.1	520.27 ug/L	520.27 ppb	05:09:08
3	P 214.914†	1492.4	1294.8	828.62 ug/L	828.62 ppb	05:09:08
3	Pb 220.353†	3518.1	3528.6	542.77 ug/L	542.77 ppb	05:09:08
3	S 181.975 Axial†	2898.5	2841.7	5068.5 ug/L	5068.5 ppb	05:09:08
3	Sb 206.836†	1207.2	1171.6	497.57 ug/L	497.57 ppb	05:09:08
3	Se 196.026†	352.9	368.4	499.37 ug/L	499.37 ppb	05:09:08
3	Si 251.611†	1264253.8	1252152.3	47116 ug/L	47116 ppb	05:08:48
3	Sn 189.927†	2193.8	2165.7	486.61 ug/L	486.61 ppb	05:09:08
3	Ti 334.940†	971681.7	963851.0	1666.8 ug/L	1666.8 ppb	05:08:48
3	Tl 190.801†	1197.8	1218.6	494.03 ug/L	494.03 ppb	05:09:08
3	U 409.014†	4135.9	6178.9	178.19 ug/L	178.19 ppb	05:08:48
3	V 292.402†	64612.7	65337.4	518.11 ug/L	518.11 ppb	05:08:48
3	Zn 213.857†	69107.5	67856.2	806.19 ug/L	806.19 ppb	05:08:48
3	SiO2†	1278644.4	1266413.8	101400 ug/L	101400 ppb	05:09:26

Mean Data: 1202047741|955145|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820796.1	100.97 %		0.693			0.69%
Sc Radial	4521.4	98.6 %		0.73			0.74%
Y 371.029	924090.2	134.04 %		0.884			0.66%
Y RADIAL	6557.2	132.9 %		1.82			1.37%
Ag 328.068†	92664.8	497.11 ug/L		0.679	497.11 ppb	0.679	0.14%
Al 396.153Radial†	30298.5	28461 ug/L		137.7	28461 ppb	137.7	0.48%
As 188.979†	897.9	527.84 ug/L		6.963	527.84 ppb	6.963	1.32%
B 249.677†	18358.7	502.04 ug/L		4.358	502.04 ppb	4.358	0.87%
Ba 233.527†	89963.0	844.87 ug/L		1.925	844.87 ppb	1.925	0.23%
Be 313.107†	1210216.8	520.38 ug/L		0.406	520.38 ppb	0.406	0.08%
Ca 317.933Radial†	8361.3	14780 ug/L		70.3	14780 ppb	70.3	0.48%
Cd 226.502†	34142.5	488.49 ug/L		6.759	488.49 ppb	6.759	1.38%
Co 228.616†	19142.8	494.22 ug/L		6.659	494.22 ppb	6.659	1.35%
Cr 267.716†	38658.3	526.45 ug/L		0.390	526.45 ppb	0.390	0.07%
Cu 324.752†	162757.6	541.98 ug/L		1.262	541.98 ppb	1.262	0.23%
Fe 238.204 Radial†	6059.2	63499 ug/L		216.0	63499 ppb	216.0	0.34%
K 766.490 Radial†	72312.8	13841 ug/L		59.6	13841 ppb	59.6	0.43%

Mg 279.077 IEC†	200.1	7551.6 ug/L	97.24	7551.6 ppb	97.24	1.29%
Mn 257.610†	2256641.5	2977.1 ug/L	6.88	2977.1 ppb	6.88	0.23%
Mo 202.031†	5477.4	486.78 ug/L	7.177	486.78 ppb	7.177	1.47%
Na 589.592 Radial†	41822.6	14654 ug/L	65.4	14654 ppb	65.4	0.45%
Ni 231.604†	16292.2	518.43 ug/L	6.767	518.43 ppb	6.767	1.31%
P 214.914†	1294.3	828.20 ug/L	21.332	828.20 ppb	21.332	2.58%
Pb 220.353†	3511.9	540.18 ug/L	8.207	540.18 ppb	8.207	1.52%
S 181.975 Axial†	2832.4	5052.0 ug/L	81.38	5052.0 ppb	81.38	1.61%
Sb 206.836†	1168.8	496.33 ug/L	9.114	496.33 ppb	9.114	1.84%
Se 196.026†	362.6	493.98 ug/L	7.320	493.98 ppb	7.320	1.48%
Si 251.611†	1255201.7	47231 ug/L	99.4	47231 ppb	99.4	0.21%
Sn 189.927†	2160.7	485.47 ug/L	5.793	485.47 ppb	5.793	1.19%
Sr 421.552†	73010.6	557.64 ug/L	2.591	557.64 ppb	2.591	0.46%
Ti 334.940†	965380.4	1669.4 ug/L	2.27	1669.4 ppb	2.27	0.14%
Tl 190.801†	1215.5	492.90 ug/L	5.928	492.90 ppb	5.928	1.20%
U 409.014†	6194.0	178.67 ug/L	0.672	178.67 ppb	0.672	0.38%
V 292.402†	65364.8	518.32 ug/L	0.736	518.32 ppb	0.736	0.14%
Zn 213.857†	68106.8	809.25 ug/L	2.698	809.25 ppb	2.698	0.33%
SiO2†	1258208.3	100750 ug/L	900.1	100750 ppb	900.1	0.89%

Sequence No.: 89
 Sample ID: 1202047739|955145|5
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 106
 Date Collected: 3/17/2010 05:11:38
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 1202047739|955145|5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4508.1	4508.1	98.3 %		05:13:31
1	Y RADIAL	5037.2	5037.2	102.1 %		05:13:31
1	Al 396.153Radial†	2641.0	2773.3	2607.2 ug/L	2607.2 ppb	05:13:31
1	Ca 317.933Radial†	928.4	916.9	1620.7 ug/L	1620.7 ppb	05:13:51
1	Fe 238.204 Radial†	920.8	929.1	9734.9 ug/L	9734.9 ppb	05:13:51
1	K 766.490 Radial†	8390.9	5983.1	1145.1 ug/L	1145.1 ppb	05:13:31
1	Mg 279.077 IEC†	7.6	7.6	280.80 ug/L	280.80 ppb	05:13:51
1	Na 589.592 Radial†	2234.5	3079.0	1078.8 ug/L	1078.8 ppb	05:13:31
1	Sr 421.552†	944.8	935.7	7.1361 ug/L	7.1361 ppb	05:13:31
1	Sc 361.383	805434.3	805434.3	99.078 %		05:14:48
1	Y 371.029	706401.1	706401.1	102.46 %		05:14:48
1	Ag 328.068†	-371.1	-585.1	0.0380 ug/L	0.0380 ppb	05:14:48
1	As 188.979†	-15.3	1.6	4.5160 ug/L	4.5160 ppb	05:15:08
1	B 249.677†	-126.2	288.0	6.4747 ug/L	6.4747 ppb	05:14:48
1	Ba 233.527†	5933.2	5975.9	56.223 ug/L	56.223 ppb	05:14:48
1	Be 313.107†	-3940.9	-248.6	0.2540 ug/L	0.2540 ppb	05:14:48
1	Cd 226.502†	-101.7	73.7	0.0553 ug/L	0.0553 ppb	05:15:08
1	Co 228.616†	2.5	42.4	0.6558 ug/L	0.6558 ppb	05:15:08
1	Cr 267.716†	249.2	172.0	3.3635 ug/L	3.3635 ppb	05:15:08
1	Cu 324.752†	5785.6	373.2	1.7742 ug/L	1.7742 ppb	05:14:48
1	Mn 257.610†	351580.6	354301.0	467.43 ug/L	467.43 ppb	05:14:48
1	Mo 202.031†	18.4	5.7	1.2776 ug/L	1.2776 ppb	05:15:08
1	Ni 231.604†	170.7	90.8	2.8913 ug/L	2.8913 ppb	05:15:08
1	P 214.914†	268.1	86.7	57.847 ug/L	57.847 ppb	05:15:08
1	Pb 220.353†	-2.7	40.1	5.3956 ug/L	5.3956 ppb	05:15:08
1	S 181.975 Axial†	33.8	4.0	6.5826 ug/L	6.5826 ppb	05:15:08
1	Sb 206.836†	33.4	9.1	3.1167 ug/L	3.1167 ppb	05:15:08
1	Se 196.026†	-55.1	-36.8	-1.7056 ug/L	-1.7056 ppb	05:15:08
1	Si 251.611†	169896.0	170978.6	6434.4 ug/L	6434.4 ppb	05:14:48
1	Sn 189.927†	9.4	1.5	0.0615 ug/L	0.0615 ppb	05:15:08
1	Ti 334.940†	89863.0	91786.5	158.83 ug/L	158.83 ppb	05:14:48
1	Tl 190.801†	-39.0	-7.5	0.6296 ug/L	0.6296 ppb	05:15:08
1	U 409.014†	-3458.6	-1409.8	-43.691 ug/L	-43.691 ppb	05:14:48
1	V 292.402†	-736.0	574.9	2.9372 ug/L	2.9372 ppb	05:14:48
1	Zn 213.857†	5049.8	4479.7	52.641 ug/L	52.641 ppb	05:15:08
1	SiO2†	170552.4	171644.0	13746 ug/L	13746 ppb	05:16:05
2	Sc Radial	4566.1	4566.1	99.5 %		05:13:56
2	Y RADIAL	5117.7	5117.7	103.7 %		05:13:56
2	Al 396.153Radial†	2684.9	2783.3	2616.6 ug/L	2616.6 ppb	05:13:56
2	Ca 317.933Radial†	930.6	907.1	1603.4 ug/L	1603.4 ppb	05:14:16
2	Fe 238.204 Radial†	926.3	922.8	9668.4 ug/L	9668.4 ppb	05:14:16
2	K 766.490 Radial†	8589.5	6074.1	1162.5 ug/L	1162.5 ppb	05:13:56
2	Mg 279.077 IEC†	11.7	11.7	433.77 ug/L	433.77 ppb	05:14:16
2	Na 589.592 Radial†	2281.1	3096.9	1085.1 ug/L	1085.1 ppb	05:13:56
2	Sr 421.552†	926.4	905.0	6.9014 ug/L	6.9014 ppb	05:13:56
2	Sc 361.383	802078.0	802078.0	98.665 %		05:15:14
2	Y 371.029	702264.2	702264.2	101.86 %		05:15:14
2	Ag 328.068†	-472.8	-689.8	-0.5197 ug/L	-0.5197 ppb	05:15:14
2	As 188.979†	-18.9	-2.2	2.4317 ug/L	2.4317 ppb	05:15:34
2	B 249.677†	-165.9	247.2	5.3447 ug/L	5.3447 ppb	05:15:14
2	Ba 233.527†	5903.0	5970.4	56.169 ug/L	56.169 ppb	05:15:14
2	Be 313.107†	-3882.9	-206.4	0.2717 ug/L	0.2717 ppb	05:15:14
2	Cd 226.502†	-100.2	74.8	0.0791 ug/L	0.0791 ppb	05:15:34
2	Co 228.616†	12.0	52.0	0.9072 ug/L	0.9072 ppb	05:15:34
2	Cr 267.716†	224.3	147.9	3.0331 ug/L	3.0331 ppb	05:15:34
2	Cu 324.752†	5673.5	284.0	1.4761 ug/L	1.4761 ppb	05:15:14
2	Mn 257.610†	349904.5	354087.1	467.14 ug/L	467.14 ppb	05:15:14
2	Mo 202.031†	21.0	8.4	1.5115 ug/L	1.5115 ppb	05:15:34
2	Ni 231.604†	180.5	101.5	3.2313 ug/L	3.2313 ppb	05:15:34

2	P 214.914†	278.6	98.5	66.839 ug/L	66.839 ppb	05:15:34
2	Pb 220.353†	-16.2	26.4	3.2967 ug/L	3.2967 ppb	05:15:34
2	S 181.975 Axial†	32.2	2.5	3.9761 ug/L	3.9761 ppb	05:15:34
2	Sb 206.836†	19.5	-4.8	-2.6774 ug/L	-2.6774 ppb	05:15:34
2	Se 196.026†	-59.0	-41.0	-5.4236 ug/L	-5.4236 ppb	05:15:34
2	Si 251.611†	169054.6	170843.4	6429.3 ug/L	6429.3 ppb	05:15:14
2	Sn 189.927†	0.9	-7.1	-1.8744 ug/L	-1.8744 ppb	05:15:34
2	Ti 334.940†	89413.9	91710.8	158.69 ug/L	158.69 ppb	05:15:14
2	Tl 190.801†	-31.5	-0.2	3.4655 ug/L	3.4655 ppb	05:15:34
2	U 409.014†	-3491.1	-1457.3	-45.120 ug/L	-45.120 ppb	05:15:14
2	V 292.402†	-765.7	541.6	2.6853 ug/L	2.6853 ppb	05:15:14
2	Zn 213.857†	5030.7	4481.6	52.673 ug/L	52.673 ppb	05:15:34
2	SiO2†	170506.1	172317.4	13800 ug/L	13800 ppb	05:16:10
3	Sc Radial	4590.5	4590.5	100 %		05:14:21
3	Y RADIAL	5121.9	5121.9	103.8 %		05:14:21
3	Al 396.153Radial†	2721.8	2805.8	2637.7 ug/L	2637.7 ppb	05:14:21
3	Ca 317.933Radial†	933.2	904.7	1599.2 ug/L	1599.2 ppb	05:14:41
3	Fe 238.204 Radial†	930.0	921.6	9655.6 ug/L	9655.6 ppb	05:14:41
3	K 766.490 Radial†	8439.4	5878.3	1125.0 ug/L	1125.0 ppb	05:14:21
3	Mg 279.077 IEC†	8.0	7.9	290.83 ug/L	290.83 ppb	05:14:41
3	Na 589.592 Radial†	2286.6	3090.2	1082.8 ug/L	1082.8 ppb	05:14:21
3	Sr 421.552†	965.4	939.0	7.1614 ug/L	7.1614 ppb	05:14:21
3	Sc 361.383	798334.9	798334.9	98.205 %		05:15:39
3	Y 371.029	699777.3	699777.3	101.50 %		05:15:39
3	Ag 328.068†	-314.1	-530.4	0.2958 ug/L	0.2958 ppb	05:15:39
3	As 188.979†	-22.9	-6.3	0.1397 ug/L	0.1397 ppb	05:15:59
3	B 249.677†	-75.0	338.9	7.9134 ug/L	7.9134 ppb	05:15:39
3	Ba 233.527†	5823.3	5917.2	55.672 ug/L	55.672 ppb	05:15:39
3	Be 313.107†	-3804.6	-145.1	0.2967 ug/L	0.2967 ppb	05:15:39
3	Cd 226.502†	-93.0	81.7	0.1794 ug/L	0.1794 ppb	05:15:59
3	Co 228.616†	12.9	52.9	0.9327 ug/L	0.9327 ppb	05:15:59
3	Cr 267.716†	232.1	156.8	3.1522 ug/L	3.1522 ppb	05:15:59
3	Cu 324.752†	5744.9	383.7	1.8055 ug/L	1.8055 ppb	05:15:39
3	Mn 257.610†	347092.3	352886.3	465.56 ug/L	465.56 ppb	05:15:39
3	Mo 202.031†	23.6	11.2	1.7498 ug/L	1.7498 ppb	05:15:59
3	Ni 231.604†	186.1	108.1	3.4417 ug/L	3.4417 ppb	05:15:59
3	P 214.914†	287.3	108.6	74.419 ug/L	74.419 ppb	05:15:59
3	Pb 220.353†	-8.7	34.0	4.4744 ug/L	4.4744 ppb	05:15:59
3	S 181.975 Axial†	31.0	1.4	1.9908 ug/L	1.9908 ppb	05:15:59
3	Sb 206.836†	26.6	2.6	0.4043 ug/L	0.4043 ppb	05:15:59
3	Se 196.026†	-60.1	-42.4	-6.6171 ug/L	-6.6171 ppb	05:15:59
3	Si 251.611†	167554.7	170119.4	6402.1 ug/L	6402.1 ppb	05:15:39
3	Sn 189.927†	8.8	0.9	-0.0566 ug/L	-0.0566 ppb	05:15:59
3	Ti 334.940†	88715.4	91424.4	158.20 ug/L	158.20 ppb	05:15:39
3	Tl 190.801†	-43.0	-12.0	-1.1048 ug/L	-1.1048 ppb	05:15:59
3	U 409.014†	-3474.0	-1456.5	-45.092 ug/L	-45.092 ppb	05:15:39
3	V 292.402†	-722.3	582.2	3.0120 ug/L	3.0120 ppb	05:15:39
3	Zn 213.857†	5039.9	4514.9	53.075 ug/L	53.075 ppb	05:15:59
3	SiO2†	170559.0	173181.5	13869 ug/L	13869 ppb	05:16:15

Mean Data: 1202047739|955145|5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	801949.1	98.649 %	0.4369			0.44%
Sc Radial	4554.9	99.3 %	0.92			0.93%
Y 371.029	702814.2	101.94 %	0.485			0.48%
Y RADIAL	5092.3	103.2 %	0.97			0.94%
Ag 328.068†	-601.8	-0.0620 ug/L	0.41686	-0.0620 ppb	0.41686	672.58%
Al 396.153Radial†	2787.5	2620.5 ug/L	15.64	2620.5 ppb	15.64	0.60%
As 188.979†	-2.3	2.3625 ug/L	2.18896	2.3625 ppb	2.18896	92.65%
B 249.677†	291.4	6.5776 ug/L	1.28743	6.5776 ppb	1.28743	19.57%
Ba 233.527†	5954.5	56.021 ug/L	0.3037	56.021 ppb	0.3037	0.54%
Be 313.107†	-200.0	0.2741 ug/L	0.02148	0.2741 ppb	0.02148	7.83%
Ca 317.933Radial†	909.6	1607.8 ug/L	11.43	1607.8 ppb	11.43	0.71%
Cd 226.502†	76.7	0.1046 ug/L	0.06586	0.1046 ppb	0.06586	62.97%
Co 228.616†	49.1	0.8319 ug/L	0.15305	0.8319 ppb	0.15305	18.40%
Cr 267.716†	158.9	3.1829 ug/L	0.16735	3.1829 ppb	0.16735	5.26%
Cu 324.752†	347.0	1.6853 ug/L	0.18184	1.6853 ppb	0.18184	10.79%
Fe 238.204 Radial†	924.5	9686.3 ug/L	42.58	9686.3 ppb	42.58	0.44%
K 766.490 Radial†	5978.5	1144.2 ug/L	18.77	1144.2 ppb	18.77	1.64%

Mg 279.077 IEC†	9.1	335.13 ug/L	85.569	335.13 ppb	85.569	25.53%
Mn 257.610†	353758.1	466.71 ug/L	1.006	466.71 ppb	1.006	0.22%
Mo 202.031†	8.4	1.5130 ug/L	0.23612	1.5130 ppb	0.23612	15.61%
Na 589.592 Radial†	3088.7	1082.2 ug/L	3.17	1082.2 ppb	3.17	0.29%
Ni 231.604†	100.2	3.1881 ug/L	0.27773	3.1881 ppb	0.27773	8.71%
P 214.914†	97.9	66.368 ug/L	8.2958	66.368 ppb	8.2958	12.50%
Pb 220.353†	33.5	4.3889 ug/L	1.05204	4.3889 ppb	1.05204	23.97%
S 181.975 Axial†	2.6	4.1832 ug/L	2.30291	4.1832 ppb	2.30291	55.05%
Sb 206.836†	2.3	0.2812 ug/L	2.89899	0.2812 ppb	2.89899	>999.9%
Se 196.026†	-40.1	-4.5821 ug/L	2.56160	-4.5821 ppb	2.56160	55.90%
Si 251.611†	170647.1	6422.0 ug/L	17.39	6422.0 ppb	17.39	0.27%
Sn 189.927†	-1.6	-0.6232 ug/L	1.08518	-0.6232 ppb	1.08518	174.14%
Sr 421.552†	926.6	7.0663 ug/L	0.14336	7.0663 ppb	0.14336	2.03%
Ti 334.940†	91640.6	158.57 ug/L	0.329	158.57 ppb	0.329	0.21%
Tl 190.801†	-6.6	0.9968 ug/L	2.30718	0.9968 ppb	2.30718	231.46%
U 409.014†	-1441.2	-44.635 ug/L	0.8170	-44.635 ppb	0.8170	1.83%
V 292.402†	566.2	2.8782 ug/L	0.17119	2.8782 ppb	0.17119	5.95%
Zn 213.857†	4492.1	52.796 ug/L	0.2421	52.796 ppb	0.2421	0.46%
SiO2†	172381.0	13805 ug/L	61.7	13805 ppb	61.7	0.45%

Sequence No.: 92

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 05:32:44

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4328.7	4328.7	94.4 %		05:34:56
1	Y RADIAL	4823.3	4823.3	97.75 %		05:34:36
1	Al 396.153Radial†	5240.4	5639.7	5277.6 ug/L	5277.6 ppb	05:34:36
1	Ca 317.933Radial†	2857.8	3000.9	5304.4 ug/L	5304.4 ppb	05:34:56
1	Fe 238.204 Radial†	485.1	506.2	5319.4 ug/L	5319.4 ppb	05:34:56
1	K 766.490 Radial†	28923.4	28097.7	5376.0 ug/L	5376.0 ppb	05:34:36
1	Mg 279.077 IEC†	137.5	145.7	5543.7 ug/L	5543.7 ppb	05:34:56
1	Na 589.592 Radial†	29747.4	32331.9	11329 ug/L	11329 ppb	05:34:36
1	Sr 421.552†	68414.6	72481.1	553.67 ug/L	553.67 ppb	05:34:36
1	Sc 361.383	818134.8	818134.8	100.64 %		05:35:53
1	Y 371.029	680933.4	680933.4	98.767 %		05:35:53
1	Ag 328.068†	100809.4	99957.3	516.37 ug/L	516.37 ppb	05:35:59
1	As 188.979†	906.8	918.0	515.29 ug/L	515.29 ppb	05:36:19
1	B 249.677†	17835.6	18137.5	505.23 ug/L	505.23 ppb	05:35:59
1	Ba 233.527†	55226.2	54862.2	514.64 ug/L	514.64 ppb	05:35:59
1	Be 313.107†	1208320.2	1204360.1	515.24 ug/L	515.24 ppb	05:35:53
1	Cd 226.502†	35531.6	35481.8	513.97 ug/L	513.97 ppb	05:35:59
1	Co 228.616†	20167.5	20079.0	521.72 ug/L	521.72 ppb	05:35:59
1	Cr 267.716†	38631.7	38306.4	515.41 ug/L	515.41 ppb	05:35:59
1	Cu 324.752†	160925.8	154435.5	511.17 ug/L	511.17 ppb	05:35:59
1	Mn 257.610†	385740.7	382735.1	504.22 ug/L	504.22 ppb	05:35:59
1	Mo 202.031†	5771.8	5722.3	503.69 ug/L	503.69 ppb	05:36:19
1	Ni 231.604†	16597.2	16410.2	522.17 ug/L	522.17 ppb	05:35:59
1	P 214.914†	3544.3	3337.8	2413.8 ug/L	2413.8 ppb	05:36:19
1	Pb 220.353†	3252.0	3274.1	506.58 ug/L	506.58 ppb	05:36:19
1	S 181.975 Axial†	589.7	555.8	991.34 ug/L	991.34 ppb	05:36:19
1	Sb 206.836†	1227.5	1195.2	512.97 ug/L	512.97 ppb	05:36:19
1	Se 196.026†	587.7	602.8	518.70 ug/L	518.70 ppb	05:36:19
1	Si 251.611†	69488.4	68548.0	2573.5 ug/L	2573.5 ppb	05:35:59
1	Sn 189.927†	2235.5	2213.3	498.98 ug/L	498.98 ppb	05:36:19
1	Ti 334.940†	291224.5	290458.6	501.79 ug/L	501.79 ppb	05:35:59
1	Tl 190.801†	1297.4	1321.0	511.94 ug/L	511.94 ppb	05:36:19
1	U 409.014†	15553.5	17535.5	527.84 ug/L	527.84 ppb	05:35:59
1	V 292.402†	63406.3	64320.6	520.61 ug/L	520.61 ppb	05:35:59
1	Zn 213.857†	44056.9	43159.5	516.59 ug/L	516.59 ppb	05:35:59
1	SiO2†	67971.4	67043.5	5355.3 ug/L	5355.3 ppb	05:37:26
2	Sc Radial	4314.1	4314.1	94.0 %		05:35:21
2	Y RADIAL	4815.2	4815.2	97.59 %		05:35:01
2	Al 396.153Radial†	5225.3	5642.3	5279.6 ug/L	5279.6 ppb	05:35:01
2	Ca 317.933Radial†	2839.2	2991.4	5287.6 ug/L	5287.6 ppb	05:35:21
2	Fe 238.204 Radial†	481.1	503.7	5293.2 ug/L	5293.2 ppb	05:35:21
2	K 766.490 Radial†	28865.9	28139.8	5384.0 ug/L	5384.0 ppb	05:35:01
2	Mg 279.077 IEC†	136.0	144.5	5499.9 ug/L	5499.9 ppb	05:35:21
2	Na 589.592 Radial†	29514.8	32190.8	11279 ug/L	11279 ppb	05:35:01
2	Sr 421.552†	67903.7	72182.1	551.38 ug/L	551.38 ppb	05:35:01
2	Sc 361.383	811868.1	811868.1	99.870 %		05:36:24
2	Y 371.029	677717.5	677717.5	98.300 %		05:36:24
2	Ag 328.068†	100332.2	100252.6	517.89 ug/L	517.89 ppb	05:36:29
2	As 188.979†	893.8	912.0	511.92 ug/L	511.92 ppb	05:36:50
2	B 249.677†	17734.3	18172.8	506.22 ug/L	506.22 ppb	05:36:29
2	Ba 233.527†	55047.4	55106.9	516.94 ug/L	516.94 ppb	05:36:29
2	Be 313.107†	1201886.3	1207185.3	516.45 ug/L	516.45 ppb	05:36:24
2	Cd 226.502†	35379.7	35602.2	515.72 ug/L	515.72 ppb	05:36:29
2	Co 228.616†	20105.0	20171.1	524.13 ug/L	524.13 ppb	05:36:29
2	Cr 267.716†	38529.7	38500.5	518.02 ug/L	518.02 ppb	05:36:29
2	Cu 324.752†	160031.2	154774.0	512.29 ug/L	512.29 ppb	05:36:29
2	Mn 257.610†	384204.5	384155.4	506.08 ug/L	506.08 ppb	05:36:29
2	Mo 202.031†	5811.2	5805.9	511.04 ug/L	511.04 ppb	05:36:50
2	Ni 231.604†	16543.4	16483.6	524.51 ug/L	524.51 ppb	05:36:29

2	P 214.914†	3553.7	3374.4	2441.2 ug/L	2441.2 ppb	05:36:50
2	Pb 220.353†	3264.9	3311.9	512.44 ug/L	512.44 ppb	05:36:50
2	S 181.975 Axial†	603.4	574.0	1023.9 ug/L	1023.9 ppb	05:36:50
2	Sb 206.836†	1222.3	1199.4	514.96 ug/L	514.96 ppb	05:36:50
2	Se 196.026†	591.4	610.9	525.43 ug/L	525.43 ppb	05:36:50
2	Si 251.611†	69390.0	68982.4	2589.7 ug/L	2589.7 ppb	05:36:29
2	Sn 189.927†	2247.4	2242.3	505.51 ug/L	505.51 ppb	05:36:50
2	Ti 334.940†	289762.5	291228.3	503.13 ug/L	503.13 ppb	05:36:29
2	Tl 190.801†	1307.7	1341.2	519.73 ug/L	519.73 ppb	05:36:50
2	U 409.014†	15355.8	17456.9	525.46 ug/L	525.46 ppb	05:36:29
2	V 292.402†	63087.5	64487.6	522.04 ug/L	522.04 ppb	05:36:29
2	Zn 213.857†	44000.8	43441.2	519.98 ug/L	519.98 ppb	05:36:29
2	SiO2†	69262.1	68857.2	5500.3 ug/L	5500.3 ppb	05:37:31
3	Sc Radial	4329.1	4329.1	94.4 %		05:35:47
3	Y RADIAL	4711.0	4711.0	95.47 %		05:35:26
3	Al 396.153Radial†	5086.1	5475.5	5123.3 ug/L	5123.3 ppb	05:35:26
3	Ca 317.933Radial†	2857.6	3000.3	5303.4 ug/L	5303.4 ppb	05:35:47
3	Fe 238.204 Radial†	484.6	505.6	5313.2 ug/L	5313.2 ppb	05:35:47
3	K 766.490 Radial†	28318.1	27452.9	5252.5 ug/L	5252.5 ppb	05:35:26
3	Mg 279.077 IEC†	136.6	144.7	5505.7 ug/L	5505.7 ppb	05:35:47
3	Na 589.592 Radial†	28923.1	31454.8	11021 ug/L	11021 ppb	05:35:26
3	Sr 421.552†	66428.5	70368.3	537.53 ug/L	537.53 ppb	05:35:26
3	Sc 361.383	823358.2	823358.2	101.28 %		05:36:55
3	Y 371.029	686661.7	686661.7	99.598 %		05:36:55
3	Ag 328.068†	100854.2	99366.1	513.33 ug/L	513.33 ppb	05:37:00
3	As 188.979†	895.1	900.8	505.70 ug/L	505.70 ppb	05:37:20
3	B 249.677†	17815.2	18004.9	501.52 ug/L	501.52 ppb	05:37:00
3	Ba 233.527†	55350.9	54637.3	512.53 ug/L	512.53 ppb	05:37:00
3	Be 313.107†	1218641.2	1206933.6	516.33 ug/L	516.33 ppb	05:36:55
3	Cd 226.502†	35513.9	35240.4	510.47 ug/L	510.47 ppb	05:37:00
3	Co 228.616†	20218.9	20002.6	519.74 ug/L	519.74 ppb	05:37:00
3	Cr 267.716†	38644.9	38075.8	512.32 ug/L	512.32 ppb	05:37:00
3	Cu 324.752†	160896.0	153391.7	507.72 ug/L	507.72 ppb	05:37:00
3	Mn 257.610†	386014.6	380574.0	501.37 ug/L	501.37 ppb	05:37:00
3	Mo 202.031†	5774.6	5688.6	500.73 ug/L	500.73 ppb	05:37:20
3	Ni 231.604†	16573.2	16281.8	518.08 ug/L	518.08 ppb	05:37:00
3	P 214.914†	3545.7	3316.9	2398.7 ug/L	2398.7 ppb	05:37:20
3	Pb 220.353†	3259.6	3261.1	504.53 ug/L	504.53 ppb	05:37:20
3	S 181.975 Axial†	589.2	551.6	983.88 ug/L	983.88 ppb	05:37:20
3	Sb 206.836†	1239.7	1199.5	514.66 ug/L	514.66 ppb	05:37:20
3	Se 196.026†	594.4	605.6	520.98 ug/L	520.98 ppb	05:37:20
3	Si 251.611†	69619.7	68239.6	2561.9 ug/L	2561.9 ppb	05:37:00
3	Sn 189.927†	2243.7	2207.3	497.62 ug/L	497.62 ppb	05:37:20
3	Ti 334.940†	291018.1	288419.0	498.28 ug/L	498.28 ppb	05:37:00
3	Tl 190.801†	1287.2	1302.7	504.86 ug/L	504.86 ppb	05:37:20
3	U 409.014†	15318.3	17205.2	517.87 ug/L	517.87 ppb	05:37:00
3	V 292.402†	63406.5	63921.0	517.36 ug/L	517.36 ppb	05:37:00
3	Zn 213.857†	44185.4	43008.6	514.80 ug/L	514.80 ppb	05:37:00
3	SiO2†	69417.8	68043.1	5435.4 ug/L	5435.4 ppb	05:37:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	817787.0	100.60 %		0.708			0.70%
Sc Radial	4324.0	94.3 %		0.19			0.20%
Y 371.029	681770.9	98.888 %		0.6571			0.66%
Y RADIAL	4783.2	96.94 %		1.270			1.31%
Ag 328.068†	99858.7	515.86 ug/L		2.321	515.86 ppb	2.321	0.45%
QC value within limits for Ag 328.068 Recovery = 103.17%							
Al 396.153Radial†	5585.8	5226.8 ug/L		89.65	5226.8 ppb	89.65	1.72%
QC value within limits for Al 396.153Radial Recovery = 104.54%							
As 188.979†	910.3	510.97 ug/L		4.865	510.97 ppb	4.865	0.95%
QC value within limits for As 188.979 Recovery = 102.19%							
B 249.677†	18105.1	504.32 ug/L		2.473	504.32 ppb	2.473	0.49%
QC value within limits for B 249.677 Recovery = 100.86%							
Ba 233.527†	54868.8	514.70 ug/L		2.202	514.70 ppb	2.202	0.43%
QC value within limits for Ba 233.527 Recovery = 102.94%							
Be 313.107†	1206159.6	516.00 ug/L		0.666	516.00 ppb	0.666	0.13%
QC value within limits for Be 313.107 Recovery = 103.20%							
Ca 317.933Radial†	2997.5	5298.5 ug/L		9.47	5298.5 ppb	9.47	0.18%

QC value within limits for Ca 317.933 Radial Recovery = 105.97%							
Cd	226.502†	35441.5	513.39 ug/L	2.673	513.39 ppb	2.673	0.52%
QC value within limits for Cd 226.502 Recovery = 102.68%							
Co	228.616†	20084.2	521.87 ug/L	2.199	521.87 ppb	2.199	0.42%
QC value within limits for Co 228.616 Recovery = 104.37%							
Cr	267.716†	38294.2	515.25 ug/L	2.855	515.25 ppb	2.855	0.55%
QC value within limits for Cr 267.716 Recovery = 103.05%							
Cu	324.752†	154200.4	510.39 ug/L	2.382	510.39 ppb	2.382	0.47%
QC value within limits for Cu 324.752 Recovery = 102.08%							
Fe	238.204 Radial†	505.2	5308.6 ug/L	13.68	5308.6 ppb	13.68	0.26%
QC value within limits for Fe 238.204 Radial Recovery = 106.17%							
K	766.490 Radial†	27896.8	5337.5 ug/L	73.70	5337.5 ppb	73.70	1.38%
QC value within limits for K 766.490 Radial Recovery = 106.75%							
Mg	279.077 IEC†	145.0	5516.5 ug/L	23.80	5516.5 ppb	23.80	0.43%
QC value greater than the upper limit for Mg 279.077 IEC Recovery = 110.33%							
Mn	257.610†	382488.2	503.89 ug/L	2.374	503.89 ppb	2.374	0.47%
QC value within limits for Mn 257.610 Recovery = 100.78%							
Mo	202.031†	5738.9	505.15 ug/L	5.311	505.15 ppb	5.311	1.05%
QC value within limits for Mo 202.031 Recovery = 101.03%							
Na	589.592 Radial†	31992.5	11210 ug/L	165.0	11210 ppb	165.0	1.47%
QC value greater than the upper limit for Na 589.592 Radial Recovery = 112.10%							
Ni	231.604†	16391.9	521.59 ug/L	3.250	521.59 ppb	3.250	0.62%
QC value within limits for Ni 231.604 Recovery = 104.32%							
P	214.914†	3343.1	2417.9 ug/L	21.56	2417.9 ppb	21.56	0.89%
QC value within limits for P 214.914 Recovery = 96.72%							
Pb	220.353†	3282.4	507.85 ug/L	4.107	507.85 ppb	4.107	0.81%
QC value within limits for Pb 220.353 Recovery = 101.57%							
S	181.975 Axial†	560.5	999.70 ug/L	21.265	999.70 ppb	21.265	2.13%
QC value within limits for S 181.975 Axial Recovery = 99.97%							
Sb	206.836†	1198.0	514.20 ug/L	1.074	514.20 ppb	1.074	0.21%
QC value within limits for Sb 206.836 Recovery = 102.84%							
Se	196.026†	606.4	521.71 ug/L	3.422	521.71 ppb	3.422	0.66%
QC value within limits for Se 196.026 Recovery = 104.34%							
Si	251.611†	68590.0	2575.0 ug/L	13.98	2575.0 ppb	13.98	0.54%
QC value within limits for Si 251.611 Recovery = 103.00%							
Sn	189.927†	2221.0	500.70 ug/L	4.215	500.70 ppb	4.215	0.84%
QC value within limits for Sn 189.927 Recovery = 100.14%							
Sr	421.552†	71677.2	547.53 ug/L	8.734	547.53 ppb	8.734	1.60%
QC value within limits for Sr 421.552 Recovery = 109.51%							
Ti	334.940†	290035.3	501.07 ug/L	2.505	501.07 ppb	2.505	0.50%
QC value within limits for Ti 334.940 Recovery = 100.21%							
Tl	190.801†	1321.6	512.18 ug/L	7.437	512.18 ppb	7.437	1.45%
QC value within limits for Tl 190.801 Recovery = 102.44%							
U	409.014†	17399.2	523.72 ug/L	5.206	523.72 ppb	5.206	0.99%
QC value within limits for U 409.014 Recovery = 104.74%							
V	292.402†	64243.1	520.00 ug/L	2.399	520.00 ppb	2.399	0.46%
QC value within limits for V 292.402 Recovery = 104.00%							
Zn	213.857†	43203.1	517.12 ug/L	2.632	517.12 ppb	2.632	0.51%
QC value within limits for Zn 213.857 Recovery = 103.42%							
SiO2†		67981.3	5430.4 ug/L	72.66	5430.4 ppb	72.66	1.34%
QC value within limits for SiO2 Recovery = 101.55%							
QC Failed. Continue with analysis.							

Sequence No.: 93
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 05:39:46
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4339.4	4339.4	94.6 %		05:41:59
1	Y RADIAL	4891.8	4891.8	99.14 %		05:41:39
1	Al 396.153Radial†	-78.1	3.3	3.1101 ug/L	3.1101 ppb	05:41:59
1	Ca 317.933Radial†	20.8	-5.9	-10.344 ug/L	-10.344 ppb	05:41:59
1	Fe 238.204 Radial†	7.6	0.2	1.8898 ug/L	1.8898 ppb	05:41:59
1	K 766.490 Radial†	2618.4	212.4	40.732 ug/L	40.732 ppb	05:41:39
1	Mg 279.077 IEC†	0.6	0.5	20.100 ug/L	20.100 ppb	05:41:59
1	Na 589.592 Radial†	-973.1	-223.6	-78.357 ug/L	-78.357 ppb	05:41:39
1	Sr 421.552†	11.8	-13.3	-0.1012 ug/L	-0.1012 ppb	05:41:39
1	Sc 361.383	802935.0	802935.0	98.771 %		05:42:56
1	Y 371.029	681557.5	681557.5	98.857 %		05:42:56
1	Ag 328.068†	249.6	42.1	0.2202 ug/L	0.2202 ppb	05:42:56
1	As 188.979†	-15.4	1.4	0.7972 ug/L	0.7972 ppb	05:43:16
1	B 249.677†	-245.7	166.6	4.6613 ug/L	4.6613 ppb	05:43:16
1	Ba 233.527†	23.6	11.4	0.1072 ug/L	0.1072 ppb	05:43:16
1	Be 313.107†	-3735.6	-53.1	-0.0225 ug/L	-0.0225 ppb	05:42:56
1	Cd 226.502†	-161.0	13.4	0.1928 ug/L	0.1928 ppb	05:43:16
1	Co 228.616†	-32.6	6.8	0.1756 ug/L	0.1756 ppb	05:43:16
1	Cr 267.716†	74.1	-4.5	-0.0584 ug/L	-0.0584 ppb	05:43:16
1	Cu 324.752†	5288.6	-111.8	-0.3681 ug/L	-0.3681 ppb	05:42:56
1	Mn 257.610†	463.2	-81.9	-0.1085 ug/L	-0.1085 ppb	05:43:16
1	Mo 202.031†	7.9	-4.9	-0.4298 ug/L	-0.4298 ppb	05:43:16
1	Ni 231.604†	92.2	12.0	0.3808 ug/L	0.3808 ppb	05:43:16
1	P 214.914†	182.8	1.2	0.9372 ug/L	0.9372 ppb	05:43:16
1	Pb 220.353†	-39.5	2.8	0.4263 ug/L	0.4263 ppb	05:43:16
1	S 181.975 Axial†	30.4	0.7	1.1622 ug/L	1.1622 ppb	05:43:16
1	Sb 206.836†	32.5	8.3	3.4308 ug/L	3.4308 ppb	05:43:16
1	Se 196.026†	-19.9	-1.4	-1.1459 ug/L	-1.1459 ppb	05:43:16
1	Si 251.611†	531.8	40.2	1.5186 ug/L	1.5186 ppb	05:43:16
1	Sn 189.927†	3.5	-4.4	-0.9962 ug/L	-0.9962 ppb	05:43:16
1	Ti 334.940†	-1043.5	30.9	0.0519 ug/L	0.0519 ppb	05:42:56
1	Tl 190.801†	-28.2	3.2	1.2444 ug/L	1.2444 ppb	05:43:16
1	U 409.014†	-2171.2	-117.3	-3.5413 ug/L	-3.5413 ppb	05:42:56
1	V 292.402†	-1285.2	16.5	0.1192 ug/L	0.1192 ppb	05:42:56
1	Zn 213.857†	651.7	42.7	0.5132 ug/L	0.5132 ppb	05:43:16
1	SiO2†	532.7	44.0	3.5387 ug/L	3.5387 ppb	05:44:27
2	Sc Radial	4300.5	4300.5	93.7 %		05:42:24
2	Y RADIAL	4836.6	4836.6	98.02 %		05:42:04
2	Al 396.153Radial†	-82.7	-2.4	-2.2262 ug/L	-2.2262 ppb	05:42:24
2	Ca 317.933Radial†	20.8	-5.7	-10.025 ug/L	-10.025 ppb	05:42:24
2	Fe 238.204 Radial†	7.4	0.1	0.8436 ug/L	0.8436 ppb	05:42:24
2	K 766.490 Radial†	2666.4	288.6	55.332 ug/L	55.332 ppb	05:42:04
2	Mg 279.077 IEC†	4.1	4.3	165.03 ug/L	165.03 ppb	05:42:24
2	Na 589.592 Radial†	-991.3	-252.4	-88.421 ug/L	-88.421 ppb	05:42:04
2	Sr 421.552†	48.5	25.9	0.1982 ug/L	0.1982 ppb	05:42:04
2	Sc 361.383	801007.3	801007.3	98.534 %		05:43:21
2	Y 371.029	679698.7	679698.7	98.588 %		05:43:21
2	Ag 328.068†	158.9	-49.4	-0.2527 ug/L	-0.2527 ppb	05:43:21
2	As 188.979†	-21.7	-4.9	-2.7519 ug/L	-2.7519 ppb	05:43:41
2	B 249.677†	-267.6	143.8	4.0241 ug/L	4.0241 ppb	05:43:41
2	Ba 233.527†	12.5	0.2	0.0012 ug/L	0.0012 ppb	05:43:41
2	Be 313.107†	-3797.7	-125.2	-0.0535 ug/L	-0.0535 ppb	05:43:21
2	Cd 226.502†	-167.3	6.5	0.0942 ug/L	0.0942 ppb	05:43:41
2	Co 228.616†	-47.9	-8.7	-0.2276 ug/L	-0.2276 ppb	05:43:41
2	Cr 267.716†	83.1	4.8	0.0647 ug/L	0.0647 ppb	05:43:41
2	Cu 324.752†	5306.2	-81.1	-0.2674 ug/L	-0.2674 ppb	05:43:21
2	Mn 257.610†	450.2	-94.0	-0.1305 ug/L	-0.1305 ppb	05:43:41
2	Mo 202.031†	8.7	-4.0	-0.3548 ug/L	-0.3548 ppb	05:43:41
2	Ni 231.604†	70.8	-9.6	-0.3053 ug/L	-0.3053 ppb	05:43:41

2	P 214.914†	175.4	-6.0	-4.4385 ug/L	-4.4385 ppb	05:43:41
2	Pb 220.353†	-42.8	-0.6	-0.0987 ug/L	-0.0987 ppb	05:43:41
2	S 181.975 Axial†	27.9	-1.9	-3.3683 ug/L	-3.3683 ppb	05:43:41
2	Sb 206.836†	32.0	8.0	3.2870 ug/L	3.2870 ppb	05:43:41
2	Se 196.026†	-23.9	-5.4	-4.5061 ug/L	-4.5061 ppb	05:43:41
2	Si 251.611†	527.3	36.9	1.3930 ug/L	1.3930 ppb	05:43:41
2	Sn 189.927†	4.4	-3.5	-0.7979 ug/L	-0.7979 ppb	05:43:41
2	Ti 334.940†	-1080.2	-8.9	-0.0295 ug/L	-0.0295 ppb	05:43:21
2	Tl 190.801†	-29.5	1.9	0.7167 ug/L	0.7167 ppb	05:43:41
2	U 409.014†	-2105.9	-56.3	-1.6995 ug/L	-1.6995 ppb	05:43:21
2	V 292.402†	-1332.9	-35.1	-0.2853 ug/L	-0.2853 ppb	05:43:21
2	Zn 213.857†	655.9	48.5	0.5884 ug/L	0.5884 ppb	05:43:41
2	SiO2†	555.7	68.6	5.5040 ug/L	5.5040 ppb	05:44:47
3	Sc Radial	4323.3	4323.3	94.2 %		05:42:49
3	Y RADIAL	4734.4	4734.4	95.95 %		05:42:29
3	Al 396.153Radial†	-79.5	1.4	1.3546 ug/L	1.3546 ppb	05:42:49
3	Ca 317.933Radial†	21.6	-5.0	-8.7522 ug/L	-8.7522 ppb	05:42:49
3	Fe 238.204 Radial†	9.8	2.5	26.119 ug/L	26.119 ppb	05:42:49
3	K 766.490 Radial†	2620.9	225.4	43.214 ug/L	43.214 ppb	05:42:29
3	Mg 279.077 IEC†	1.7	1.7	65.223 ug/L	65.223 ppb	05:42:49
3	Na 589.592 Radial†	-972.7	-227.1	-79.567 ug/L	-79.567 ppb	05:42:29
3	Sr 421.552†	19.1	-5.5	-0.0418 ug/L	-0.0418 ppb	05:42:29
3	Sc 361.383	798324.2	798324.2	98.203 %		05:43:46
3	Y 371.029	676482.9	676482.9	98.121 %		05:43:46
3	Ag 328.068†	154.4	-53.4	-0.2703 ug/L	-0.2703 ppb	05:43:46
3	As 188.979†	-17.9	-1.2	-0.6582 ug/L	-0.6582 ppb	05:44:07
3	B 249.677†	-270.0	140.4	3.9269 ug/L	3.9269 ppb	05:44:07
3	Ba 233.527†	3.9	-8.5	-0.0795 ug/L	-0.0795 ppb	05:44:07
3	Be 313.107†	-3760.4	-100.1	-0.0426 ug/L	-0.0426 ppb	05:43:46
3	Cd 226.502†	-172.1	1.1	0.0144 ug/L	0.0144 ppb	05:44:07
3	Co 228.616†	-52.5	-13.6	-0.3561 ug/L	-0.3561 ppb	05:44:07
3	Cr 267.716†	62.8	-15.6	-0.2087 ug/L	-0.2087 ppb	05:44:07
3	Cu 324.752†	5290.4	-79.1	-0.2629 ug/L	-0.2629 ppb	05:43:46
3	Mn 257.610†	446.3	-96.5	-0.1271 ug/L	-0.1271 ppb	05:44:07
3	Mo 202.031†	5.5	-7.2	-0.6320 ug/L	-0.6320 ppb	05:44:07
3	Ni 231.604†	75.3	-4.8	-0.1512 ug/L	-0.1512 ppb	05:44:07
3	P 214.914†	183.3	2.7	2.0879 ug/L	2.0879 ppb	05:44:07
3	Pb 220.353†	-50.8	-9.0	-1.3859 ug/L	-1.3859 ppb	05:44:07
3	S 181.975 Axial†	24.2	-5.5	-9.7848 ug/L	-9.7848 ppb	05:44:07
3	Sb 206.836†	34.5	10.6	4.3464 ug/L	4.3464 ppb	05:44:07
3	Se 196.026†	-18.3	0.1	0.1889 ug/L	0.1889 ppb	05:44:07
3	Si 251.611†	514.9	26.1	0.9905 ug/L	0.9905 ppb	05:44:07
3	Sn 189.927†	4.5	-3.4	-0.7727 ug/L	-0.7727 ppb	05:44:07
3	Ti 334.940†	-1043.3	25.0	0.0347 ug/L	0.0347 ppb	05:43:46
3	Tl 190.801†	-29.3	1.9	0.7420 ug/L	0.7420 ppb	05:44:07
3	U 409.014†	-1897.2	149.1	4.4998 ug/L	4.4998 ppb	05:43:46
3	V 292.402†	-1313.2	-19.5	-0.1584 ug/L	-0.1584 ppb	05:43:46
3	Zn 213.857†	646.4	41.2	0.4945 ug/L	0.4945 ppb	05:44:07
3	SiO2†	533.6	48.0	3.8612 ug/L	3.8612 ppb	05:45:07

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	800755.5	98.503 %	0.2849			0.29%
Sc Radial	4321.1	94.2 %	0.43			0.45%
Y 371.029	679246.4	98.522 %	0.3724			0.38%
Y RADIAL	4820.9	97.70 %	1.619			1.66%
Ag 328.068†	-20.2	-0.1009 ug/L	0.27826	-0.1009 ppb	0.27826	275.66%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 396.153Radial†	0.8	0.7461 ug/L	2.71969	0.7461 ppb	2.71969	364.51%
QC value within limits for Al 396.153Radial Recovery = Not calculated						
As 188.979†	-1.6	-0.8709 ug/L	1.78409	-0.8709 ppb	1.78409	204.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 249.677†	150.3	4.2041 ug/L	0.39895	4.2041 ppb	0.39895	9.49%
QC value within limits for B 249.677 Recovery = Not calculated						
Ba 233.527†	1.0	0.0096 ug/L	0.09367	0.0096 ppb	0.09367	971.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-92.8	-0.0396 ug/L	0.01571	-0.0396 ppb	0.01571	39.71%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 317.933Radial†	-5.5	-9.7070 ug/L	0.84210	-9.7070 ppb	0.84210	8.68%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	7.0	0.1005 ug/L	0.08939	0.1005 ppb	0.08939	88.98%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-5.2	-0.1360 ug/L	0.27747	-0.1360 ppb	0.27747	203.98%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-5.1	-0.0674 ug/L	0.13692	-0.0674 ppb	0.13692	203.01%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-90.7	-0.2995 ug/L	0.05945	-0.2995 ppb	0.05945	19.85%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	0.9	9.6175 ug/L	14.30032	9.6175 ppb	14.30032	148.69%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	242.1	46.426 ug/L	7.8121	46.426 ppb	7.8121	16.83%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	2.2	83.450 ug/L	74.1625	83.450 ppb	74.1625	88.87%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-90.8	-0.1220 ug/L	0.01184	-0.1220 ppb	0.01184	9.70%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	-5.4	-0.4722 ug/L	0.14335	-0.4722 ppb	0.14335	30.36%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-234.4	-82.115 ug/L	5.4948	-82.115 ppb	5.4948	6.69%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	-0.8	-0.0252 ug/L	0.35997	-0.0252 ppb	0.35997	>999.9%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	-0.7	-0.4711 ug/L	3.48371	-0.4711 ppb	3.48371	739.42%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-2.3	-0.3527 ug/L	0.93240	-0.3527 ppb	0.93240	264.33%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	-2.2	-3.9970 ug/L	5.50050	-3.9970 ppb	5.50050	137.62%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	9.0	3.6881 ug/L	0.57467	3.6881 ppb	0.57467	15.58%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.2	-1.8210 ug/L	2.41923	-1.8210 ppb	2.41923	132.85%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	34.4	1.3007 ug/L	0.27588	1.3007 ppb	0.27588	21.21%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	-3.8	-0.8556 ug/L	0.12245	-0.8556 ppb	0.12245	14.31%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	2.4	0.0184 ug/L	0.15852	0.0184 ppb	0.15852	862.68%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	15.6	0.0190 ug/L	0.04292	0.0190 ppb	0.04292	225.49%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	2.3	0.9010 ug/L	0.29765	0.9010 ppb	0.29765	33.03%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-8.1	-0.2470 ug/L	4.21276	-0.2470 ppb	4.21276	>999.9%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-12.7	-0.1082 ug/L	0.20687	-0.1082 ppb	0.20687	191.25%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	44.1	0.5320 ug/L	0.04967	0.5320 ppb	0.04967	9.34%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	53.6	4.3013 ug/L	1.05400	4.3013 ppb	1.05400	24.50%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 98
 Sample ID: 247359001|955145|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 113
 Date Collected: 3/17/2010 06:15:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247359001|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4739.5	4739.5	103 %			06:17:12
1	Y RADIAL	5366.8	5366.8	108.8 %			06:17:12
1	Al 396.153Radial†	29446.2	28588.3	26876 ug/L		26876 ppb	06:17:12
1	Ca 317.933Radial†	12791.5	12353.7	21837 ug/L		21837 ppb	06:17:12
1	Fe 238.204 Radial†	4156.4	4015.3	42071 ug/L		42071 ppb	06:17:12
1	K 766.490 Radial†	37835.4	34067.1	6518.4 ug/L		6518.4 ppb	06:17:12
1	Mg 279.077 IEC†	201.3	194.8	7368.8 ug/L		7368.8 ppb	06:17:32
1	Na 589.592 Radial†	-2.7	802.4	281.16 ug/L		281.16 ppb	06:17:12
1	Sr 421.552†	17085.6	16512.3	125.98 ug/L		125.98 ppb	06:17:12
1	Sc 361.383	838215.2	838215.2	103.11 %			06:18:29
1	Y 371.029	739985.7	739985.7	107.33 %			06:18:29
1	Ag 328.068†	-2172.3	-2317.4	1.1371 ug/L		1.1371 ppb	06:18:34
1	As 188.979†	-42.5	-24.2	7.1276 ug/L		7.1276 ppb	06:18:54
1	B 249.677†	840.8	1230.8	27.566 ug/L		27.566 ppb	06:18:34
1	Ba 233.527†	48727.2	47244.7	443.50 ug/L		443.50 ppb	06:18:34
1	Be 313.107†	-6864.3	-2928.2	1.5660 ug/L		1.5660 ppb	06:18:34
1	Cd 226.502†	216.1	385.9	1.2478 ug/L		1.2478 ppb	06:18:54
1	Co 228.616†	578.4	600.8	12.599 ug/L		12.599 ppb	06:18:54
1	Cr 267.716†	2427.9	2275.2	35.125 ug/L		35.125 ppb	06:18:54
1	Cu 324.752†	18234.3	12218.0	42.707 ug/L		42.707 ppb	06:18:34
1	Mn 257.610†	1583767.3	1535438.6	2025.4 ug/L		2025.4 ppb	06:18:29
1	Mo 202.031†	-8.7	-21.3	1.6506 ug/L		1.6506 ppb	06:18:54
1	Ni 231.604†	881.6	773.6	24.622 ug/L		24.622 ppb	06:18:54
1	P 214.914†	2290.0	2037.0	1498.5 ug/L		1498.5 ppb	06:18:54
1	Pb 220.353†	422.6	452.6	70.070 ug/L		70.070 ppb	06:18:54
1	S 181.975 Axial†	1054.6	992.6	1767.3 ug/L		1767.3 ppb	06:18:54
1	Sb 206.836†	43.1	17.3	1.5179 ug/L		1.5179 ppb	06:18:54
1	Se 196.026†	-182.2	-157.9	-1.5480 ug/L		-1.5480 ppb	06:18:54
1	Si 251.611†	513828.2	497829.2	18735 ug/L		18735 ppb	06:18:29
1	Sn 189.927†	-141.8	-145.6	-31.307 ug/L		-31.307 ppb	06:18:54
1	Ti 334.940†	738937.5	717733.1	1242.7 ug/L		1242.7 ppb	06:18:29
1	Tl 190.801†	-84.1	-49.7	0.6081 ug/L		0.6081 ppb	06:18:54
1	U 409.014†	-4527.4	-2309.9	-74.625 ug/L		-74.625 ppb	06:18:34
1	V 292.402†	7063.3	8168.0	57.786 ug/L		57.786 ppb	06:18:34
1	Zn 213.857†	21969.9	20690.1	243.45 ug/L		243.45 ppb	06:18:34
1	SiO2†	511677.0	495745.9	39701 ug/L		39701 ppb	06:20:02
2	Sc Radial	4696.8	4696.8	102 %			06:17:37
2	Y RADIAL	5317.2	5317.2	107.8 %			06:17:37
2	Al 396.153Radial†	29137.0	28545.2	26836 ug/L		26836 ppb	06:17:37
2	Ca 317.933Radial†	12607.0	12285.9	21717 ug/L		21717 ppb	06:17:37
2	Fe 238.204 Radial†	4126.9	4023.1	42152 ug/L		42152 ppb	06:17:37
2	K 766.490 Radial†	37506.0	34078.0	6520.5 ug/L		6520.5 ppb	06:17:37
2	Mg 279.077 IEC†	202.0	197.2	7460.5 ug/L		7460.5 ppb	06:17:57
2	Na 589.592 Radial†	24.9	829.4	290.62 ug/L		290.62 ppb	06:17:37
2	Sr 421.552†	16937.0	16517.3	126.02 ug/L		126.02 ppb	06:17:37
2	Sc 361.383	841483.5	841483.5	103.51 %			06:19:00
2	Y 371.029	742478.6	742478.6	107.69 %			06:19:00
2	Ag 328.068†	-2225.4	-2360.5	0.9331 ug/L		0.9331 ppb	06:19:05
2	As 188.979†	-32.7	-14.5	12.518 ug/L		12.518 ppb	06:19:26
2	B 249.677†	675.8	1068.2	23.003 ug/L		23.003 ppb	06:19:05
2	Ba 233.527†	47670.2	46040.0	432.22 ug/L		432.22 ppb	06:19:05
2	Be 313.107†	-6660.2	-2705.2	1.6580 ug/L		1.6580 ppb	06:19:05
2	Cd 226.502†	219.0	387.9	1.2701 ug/L		1.2701 ppb	06:19:26
2	Co 228.616†	597.4	617.0	13.015 ug/L		13.015 ppb	06:19:26
2	Cr 267.716†	2445.4	2282.8	35.233 ug/L		35.233 ppb	06:19:26
2	Cu 324.752†	17747.7	11679.2	40.925 ug/L		40.925 ppb	06:19:05
2	Mn 257.610†	1589961.9	1535457.2	2025.5 ug/L		2025.5 ppb	06:19:00
2	Mo 202.031†	-8.3	-20.9	1.6949 ug/L		1.6949 ppb	06:19:26
2	Ni 231.604†	894.1	782.3	24.898 ug/L		24.898 ppb	06:19:26

2	P 214.914†	2294.7	2032.9	1495.7 ug/L	1495.7 ppb	06:19:26
2	Pb 220.353†	434.5	462.5	71.571 ug/L	71.571 ppb	06:19:26
2	S 181.975 Axial†	1073.2	1006.7	1792.3 ug/L	1792.3 ppb	06:19:26
2	Sb 206.836†	38.1	12.3	-0.4977 ug/L	-0.4977 ppb	06:19:26
2	Se 196.026†	-199.9	-174.3	-14.932 ug/L	-14.932 ppb	06:19:26
2	Si 251.611†	513990.3	496050.3	18668 ug/L	18668 ppb	06:19:00
2	Sn 189.927†	-129.4	-133.0	-28.502 ug/L	-28.502 ppb	06:19:26
2	Ti 334.940†	740990.5	716933.0	1241.3 ug/L	1241.3 ppb	06:19:00
2	Tl 190.801†	-84.0	-49.4	0.7341 ug/L	0.7341 ppb	06:19:26
2	U 409.014†	-4345.4	-2117.0	-68.809 ug/L	-68.809 ppb	06:19:05
2	V 292.402†	6935.5	8017.9	56.590 ug/L	56.590 ppb	06:19:05
2	Zn 213.857†	21480.0	20134.0	236.72 ug/L	236.72 ppb	06:19:05
2	SiO2†	513936.2	496001.0	39721 ug/L	39721 ppb	06:20:08
3	Sc Radial	4706.5	4706.5	103 %		06:18:02
3	Y RADIAL	5369.0	5369.0	108.8 %		06:18:02
3	Al 396.153Radial†	29343.3	28687.7	26970 ug/L	26970 ppb	06:18:02
3	Ca 317.933Radial†	12712.8	12363.8	21854 ug/L	21854 ppb	06:18:02
3	Fe 238.204 Radial†	4162.0	4049.0	42424 ug/L	42424 ppb	06:18:02
3	K 766.490 Radial†	37670.8	34163.3	6536.8 ug/L	6536.8 ppb	06:18:02
3	Mg 279.077 IEC†	199.4	194.3	7349.5 ug/L	7349.5 ppb	06:18:22
3	Na 589.592 Radial†	75.3	878.5	307.83 ug/L	307.83 ppb	06:18:02
3	Sr 421.552†	16995.5	16540.3	126.19 ug/L	126.19 ppb	06:18:02
3	Sc 361.383	831815.5	831815.5	102.32 %		06:19:31
3	Y 371.029	734608.6	734608.6	106.55 %		06:19:31
3	Ag 328.068†	-2247.9	-2407.5	0.7826 ug/L	0.7826 ppb	06:19:37
3	As 188.979†	-19.5	-2.0	19.546 ug/L	19.546 ppb	06:19:57
3	B 249.677†	779.0	1176.6	25.993 ug/L	25.993 ppb	06:19:37
3	Ba 233.527†	47883.9	46784.2	439.20 ug/L	439.20 ppb	06:19:37
3	Be 313.107†	-6625.0	-2745.5	1.6429 ug/L	1.6429 ppb	06:19:37
3	Cd 226.502†	233.3	404.3	1.4782 ug/L	1.4782 ppb	06:19:57
3	Co 228.616†	590.4	616.8	13.007 ug/L	13.007 ppb	06:19:57
3	Cr 267.716†	2427.1	2292.5	35.395 ug/L	35.395 ppb	06:19:57
3	Cu 324.752†	17820.1	11949.2	41.836 ug/L	41.836 ppb	06:19:37
3	Mn 257.610†	1573959.5	1537670.8	2028.4 ug/L	2028.4 ppb	06:19:31
3	Mo 202.031†	-15.1	-27.6	1.1235 ug/L	1.1235 ppb	06:19:57
3	Ni 231.604†	867.9	766.7	24.402 ug/L	24.402 ppb	06:19:57
3	P 214.914†	2273.1	2037.6	1498.8 ug/L	1498.8 ppb	06:19:57
3	Pb 220.353†	425.3	458.5	70.940 ug/L	70.940 ppb	06:19:57
3	S 181.975 Axial†	1055.0	1000.9	1782.1 ug/L	1782.1 ppb	06:19:57
3	Sb 206.836†	34.4	9.1	-1.8834 ug/L	-1.8834 ppb	06:19:57
3	Se 196.026†	-198.9	-175.6	-15.164 ug/L	-15.164 ppb	06:19:57
3	Si 251.611†	509022.9	496967.0	18702 ug/L	18702 ppb	06:19:31
3	Sn 189.927†	-136.9	-141.8	-30.479 ug/L	-30.479 ppb	06:19:57
3	Ti 334.940†	733034.3	717477.6	1242.3 ug/L	1242.3 ppb	06:19:31
3	Tl 190.801†	-91.0	-57.1	-2.2229 ug/L	-2.2229 ppb	06:19:57
3	U 409.014†	-4510.4	-2327.0	-75.184 ug/L	-75.184 ppb	06:19:37
3	V 292.402†	6965.0	8124.6	57.379 ug/L	57.379 ppb	06:19:37
3	Zn 213.857†	21631.2	20522.9	241.38 ug/L	241.38 ppb	06:19:37
3	SiO2†	512200.4	500075.3	40047 ug/L	40047 ppb	06:20:13

Mean Data: 247359001|955145|1

Analyte	Mean Corrected	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sc 361.383	837171.4	102.98 %	0.605			0.59%
Sc Radial	4714.3	103 %	0.5			0.47%
Y 371.029	739024.3	107.19 %	0.583			0.54%
Y RADIAL	5351.0	108.4 %	0.59			0.55%
Ag 328.068†	-2361.8	0.9509 ug/L	0.17789	0.9509 ppb	0.17789	18.71%
Al 396.153Radial†	28607.1	26894 ug/L	68.7	26894 ppb	68.7	0.26%
As 188.979†	-13.6	13.064 ug/L	6.2274	13.064 ppb	6.2274	47.67%
B 249.677†	1158.5	25.521 ug/L	2.3179	25.521 ppb	2.3179	9.08%
Ba 233.527†	46689.6	438.31 ug/L	5.689	438.31 ppb	5.689	1.30%
Be 313.107†	-2793.0	1.6223 ug/L	0.04937	1.6223 ppb	0.04937	3.04%
Ca 317.933Radial†	12334.5	21803 ug/L	74.8	21803 ppb	74.8	0.34%
Cd 226.502†	392.7	1.3321 ug/L	0.12704	1.3321 ppb	0.12704	9.54%
Co 228.616†	611.6	12.874 ug/L	0.2381	12.874 ppb	0.2381	1.85%
Cr 267.716†	2283.5	35.251 ug/L	0.1356	35.251 ppb	0.1356	0.38%
Cu 324.752†	11948.8	41.823 ug/L	0.8911	41.823 ppb	0.8911	2.13%
Fe 238.204 Radial†	4029.2	42215 ug/L	184.8	42215 ppb	184.8	0.44%
K 766.490 Radial†	34102.8	6525.2 ug/L	10.08	6525.2 ppb	10.08	0.15%

Mg 279.077 IEC†	195.4	7392.9 ug/L	59.29	7392.9 ppb	59.29	0.80%
Mn 257.610†	1536188.9	2026.4 ug/L	1.71	2026.4 ppb	1.71	0.08%
Mo 202.031†	-23.3	1.4897 ug/L	0.31790	1.4897 ppb	0.31790	21.34%
Na 589.592 Radial†	836.8	293.20 ug/L	13.519	293.20 ppb	13.519	4.61%
Ni 231.604†	774.2	24.640 ug/L	0.2484	24.640 ppb	0.2484	1.01%
P 214.914†	2035.8	1497.7 ug/L	1.73	1497.7 ppb	1.73	0.12%
Pb 220.353†	457.9	70.860 ug/L	0.7540	70.860 ppb	0.7540	1.06%
S 181.975 Axial†	1000.1	1780.6 ug/L	12.60	1780.6 ppb	12.60	0.71%
Sb 206.836†	12.9	-0.2877 ug/L	1.71035	-0.2877 ppb	1.71035	594.44%
Se 196.026†	-169.3	-10.548 ug/L	7.7951	-10.548 ppb	7.7951	73.90%
Si 251.611†	496948.8	18702 ug/L	33.5	18702 ppb	33.5	0.18%
Sn 189.927†	-140.1	-30.096 ug/L	1.4414	-30.096 ppb	1.4414	4.79%
Sr 421.552†	16523.3	126.06 ug/L	0.114	126.06 ppb	0.114	0.09%
Ti 334.940†	717381.3	1242.1 ug/L	0.72	1242.1 ppb	0.72	0.06%
Tl 190.801†	-52.1	-0.2936 ug/L	1.67203	-0.2936 ppb	1.67203	569.56%
U 409.014†	-2251.3	-72.873 ug/L	3.5304	-72.873 ppb	3.5304	4.84%
V 292.402†	8103.5	57.252 ug/L	0.6081	57.252 ppb	0.6081	1.06%
Zn 213.857†	20449.0	240.51 ug/L	3.447	240.51 ppb	3.447	1.43%
SiO2†	497274.0	39823 ug/L	194.6	39823 ppb	194.6	0.49%

Sequence No.: 99
 Sample ID: 247359002|955145|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 114
 Date Collected: 3/17/2010 06:22:25
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247359002|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Conc. Units	Sample	Analysis Time
1	Sc Radial	4496.6	4496.6	98.0	%			06:24:19
1	Y RADIAL	5022.7	5022.7	101.8	%			06:24:19
1	Al 396.153Radial†	22672.2	23216.8	21827	ug/L	21827	ppb	06:24:19
1	Ca 317.933Radial†	17166.6	17486.2	30909	ug/L	30909	ppb	06:24:19
1	Fe 238.204 Radial†	2854.1	2904.0	30427	ug/L	30427	ppb	06:24:39
1	K 766.490 Radial†	36620.2	34805.6	6656.9	ug/L	6656.9	ppb	06:24:19
1	Mg 279.077 IEC†	170.8	174.2	6597.0	ug/L	6597.0	ppb	06:24:39
1	Na 589.592 Radial†	82.9	889.7	311.73	ug/L	311.73	ppb	06:24:19
1	Sr 421.552†	24919.6	25398.2	193.79	ug/L	193.79	ppb	06:24:19
1	Sc 361.383	826505.7	826505.7	101.67	%			06:25:36
1	Y 371.029	715617.5	715617.5	103.80	%			06:25:36
1	Ag 328.068†	-1454.3	-1641.0	0.8021	ug/L	0.8021	ppb	06:25:36
1	As 188.979†	-27.9	-10.4	11.062	ug/L	11.062	ppb	06:25:56
1	B 249.677†	941.1	1341.0	32.545	ug/L	32.545	ppb	06:25:36
1	Ba 233.527†	62827.4	61782.8	579.15	ug/L	579.15	ppb	06:25:36
1	Be 313.107†	-7118.8	-3272.9	1.1487	ug/L	1.1487	ppb	06:25:36
1	Cd 226.502†	146.3	320.2	1.5119	ug/L	1.5119	ppb	06:25:56
1	Co 228.616†	536.1	567.1	12.197	ug/L	12.197	ppb	06:25:56
1	Cr 267.716†	3708.7	3568.2	51.219	ug/L	51.219	ppb	06:25:56
1	Cu 324.752†	17276.0	11525.9	39.775	ug/L	39.775	ppb	06:25:36
1	Mn 257.610†	1344953.0	1322308.3	1743.7	ug/L	1743.7	ppb	06:25:36
1	Mo 202.031†	-8.1	-20.8	0.9010	ug/L	0.9010	ppb	06:25:56
1	Ni 231.604†	1071.5	972.4	30.952	ug/L	30.952	ppb	06:25:56
1	P 214.914†	2664.2	2436.5	1807.8	ug/L	1807.8	ppb	06:25:56
1	Pb 220.353†	570.8	604.2	94.116	ug/L	94.116	ppb	06:25:56
1	S 181.975 Axial†	1261.8	1210.9	2158.0	ug/L	2158.0	ppb	06:25:56
1	Sb 206.836†	39.8	14.6	0.9684	ug/L	0.9684	ppb	06:25:56
1	Se 196.026†	-151.4	-130.1	-13.532	ug/L	-13.532	ppb	06:25:56
1	Si 251.611†	618276.0	607621.3	22867	ug/L	22867	ppb	06:25:36
1	Sn 189.927†	-166.9	-172.2	-35.025	ug/L	-35.025	ppb	06:25:56
1	Ti 334.940†	658610.4	648878.7	1125.0	ug/L	1125.0	ppb	06:25:36
1	Tl 190.801†	-78.2	-45.1	0.1024	ug/L	0.1024	ppb	06:25:56
1	U 409.014†	-2949.5	-820.0	-28.342	ug/L	-28.342	ppb	06:25:36
1	V 292.402†	5503.1	6730.4	48.188	ug/L	48.188	ppb	06:25:36
1	Zn 213.857†	15043.6	14179.4	166.50	ug/L	166.50	ppb	06:25:36
1	SiO2†	624862.8	614102.8	49179	ug/L	49179	ppb	06:26:54
2	Sc Radial	4677.2	4677.2	102	%			06:24:44
2	Y RADIAL	5211.3	5211.3	105.6	%			06:24:44
2	Al 396.153Radial†	22401.5	22058.1	20737	ug/L	20737	ppb	06:24:44
2	Ca 317.933Radial†	17024.2	16670.2	29466	ug/L	29466	ppb	06:24:44
2	Fe 238.204 Radial†	2857.4	2794.8	29283	ug/L	29283	ppb	06:25:04
2	K 766.490 Radial†	36325.8	33074.1	6325.6	ug/L	6325.6	ppb	06:24:44
2	Mg 279.077 IEC†	172.9	169.5	6420.5	ug/L	6420.5	ppb	06:25:04
2	Na 589.592 Radial†	21.4	826.1	289.44	ug/L	289.44	ppb	06:24:44
2	Sr 421.552†	24708.3	24209.1	184.72	ug/L	184.72	ppb	06:24:44
2	Sc 361.383	812141.6	812141.6	99.903	%			06:26:02
2	Y 371.029	704693.7	704693.7	102.21	%			06:26:02
2	Ag 328.068†	-1559.3	-1771.4	-0.1877	ug/L	-0.1877	ppb	06:26:02
2	As 188.979†	-22.2	-5.2	14.015	ug/L	14.015	ppb	06:26:22
2	B 249.677†	896.7	1312.9	31.945	ug/L	31.945	ppb	06:26:02
2	Ba 233.527†	63688.2	63737.4	597.41	ug/L	597.41	ppb	06:26:02
2	Be 313.107†	-7209.9	-3487.8	1.1378	ug/L	1.1378	ppb	06:26:02
2	Cd 226.502†	144.1	320.6	1.6349	ug/L	1.6349	ppb	06:26:22
2	Co 228.616†	518.7	559.1	11.939	ug/L	11.939	ppb	06:26:22
2	Cr 267.716†	3693.1	3617.2	51.761	ug/L	51.761	ppb	06:26:22
2	Cu 324.752†	17424.1	11974.8	41.201	ug/L	41.201	ppb	06:26:02
2	Mn 257.610†	1363334.7	1364104.9	1798.6	ug/L	1798.6	ppb	06:26:02
2	Mo 202.031†	-10.9	-23.7	0.5366	ug/L	0.5366	ppb	06:26:22
2	Ni 231.604†	1061.2	980.8	31.219	ug/L	31.219	ppb	06:26:22

2	P 214.914†	2674.6	2493.3	1851.0 ug/L	1851.0 ppb	06:26:22
2	Pb 220.353†	577.9	621.2	96.646 ug/L	96.646 ppb	06:26:22
2	S 181.975 Axial†	1283.7	1254.8	2236.5 ug/L	2236.5 ppb	06:26:22
2	Sb 206.836†	50.8	26.3	5.7128 ug/L	5.7128 ppb	06:26:22
2	Se 196.026†	-142.5	-123.9	-12.019 ug/L	-12.019 ppb	06:26:22
2	Si 251.611†	626307.3	626416.0	23574 ug/L	23574 ppb	06:26:02
2	Sn 189.927†	-168.2	-176.4	-36.158 ug/L	-36.158 ppb	06:26:22
2	Ti 334.940†	667758.5	669492.9	1160.4 ug/L	1160.4 ppb	06:26:02
2	Tl 190.801†	-88.9	-57.2	-4.0113 ug/L	-4.0113 ppb	06:26:22
2	U 409.014†	-2962.4	-884.2	-30.152 ug/L	-30.152 ppb	06:26:02
2	V 292.402†	5776.9	7100.2	51.260 ug/L	51.260 ppb	06:26:02
2	Zn 213.857†	15291.1	14688.8	172.82 ug/L	172.82 ppb	06:26:02
2	SiO2†	633456.8	633575.3	50738 ug/L	50738 ppb	06:27:00
3	Sc Radial	4713.8	4713.8	103 %		06:25:09
3	Y RADIAL	5243.2	5243.2	106.3 %		06:25:09
3	Al 396.153Radial†	22570.2	22051.8	20731 ug/L	20731 ppb	06:25:09
3	Ca 317.933Radial†	17157.3	16670.1	29466 ug/L	29466 ppb	06:25:09
3	Fe 238.204 Radial†	2890.5	2805.3	29392 ug/L	29392 ppb	06:25:29
3	K 766.490 Radial†	36622.3	33086.2	6328.0 ug/L	6328.0 ppb	06:25:09
3	Mg 279.077 IEC†	176.4	171.6	6500.6 ug/L	6500.6 ppb	06:25:29
3	Na 589.592 Radial†	128.9	930.6	326.06 ug/L	326.06 ppb	06:25:09
3	Sr 421.552†	24906.2	24213.7	184.76 ug/L	184.76 ppb	06:25:09
3	Sc 361.383	823229.8	823229.8	101.27 %		06:26:28
3	Y 371.029	712661.3	712661.3	103.37 %		06:26:28
3	Ag 328.068†	-1446.7	-1639.2	0.5215 ug/L	0.5215 ppb	06:26:28
3	As 188.979†	-34.4	-16.9	7.3339 ug/L	7.3339 ppb	06:26:48
3	B 249.677†	992.1	1395.1	34.228 ug/L	34.228 ppb	06:26:28
3	Ba 233.527†	63688.8	62879.3	589.39 ug/L	589.39 ppb	06:26:28
3	Be 313.107†	-7018.0	-3201.2	1.2199 ug/L	1.2199 ppb	06:26:28
3	Cd 226.502†	141.1	315.7	1.5526 ug/L	1.5526 ppb	06:26:48
3	Co 228.616†	519.7	553.0	11.814 ug/L	11.814 ppb	06:26:48
3	Cr 267.716†	3693.7	3568.0	51.110 ug/L	51.110 ppb	06:26:48
3	Cu 324.752†	17373.5	11689.9	40.264 ug/L	40.264 ppb	06:26:28
3	Mn 257.610†	1362907.6	1345302.3	1773.9 ug/L	1773.9 ppb	06:26:28
3	Mo 202.031†	-10.9	-23.6	0.5596 ug/L	0.5596 ppb	06:26:48
3	Ni 231.604†	1064.2	969.4	30.857 ug/L	30.857 ppb	06:26:48
3	P 214.914†	2666.8	2449.5	1818.1 ug/L	1818.1 ppb	06:26:48
3	Pb 220.353†	555.8	591.7	92.073 ug/L	92.073 ppb	06:26:48
3	S 181.975 Axial†	1266.2	1220.2	2174.7 ug/L	2174.7 ppb	06:26:48
3	Sb 206.836†	46.6	21.5	3.8179 ug/L	3.8179 ppb	06:26:48
3	Se 196.026†	-142.2	-121.7	-9.8553 ug/L	-9.8553 ppb	06:26:48
3	Si 251.611†	625364.2	617040.7	23221 ug/L	23221 ppb	06:26:28
3	Sn 189.927†	-163.9	-169.8	-34.686 ug/L	-34.686 ppb	06:26:48
3	Ti 334.940†	666481.6	659229.1	1142.7 ug/L	1142.7 ppb	06:26:28
3	Tl 190.801†	-78.6	-45.8	0.1105 ug/L	0.1105 ppb	06:26:48
3	U 409.014†	-3017.1	-898.4	-30.590 ug/L	-30.590 ppb	06:26:28
3	V 292.402†	5745.8	6991.6	50.397 ug/L	50.397 ppb	06:26:28
3	Zn 213.857†	15227.5	14419.9	169.56 ug/L	169.56 ppb	06:26:28
3	SiO2†	624216.2	615909.9	49324 ug/L	49324 ppb	06:27:05

Mean Data: 247359002|955145|1

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	820625.7	100.95 %		0.926			0.92%
Sc Radial	4629.2	101 %		2.5			2.51%
Y 371.029	710990.9	103.13 %		0.820			0.79%
Y RADIAL	5159.1	104.6 %		2.41			2.31%
Ag 328.068†	-1683.9	0.3786 ug/L		0.51014	0.3786 ppb	0.51014	134.73%
Al 396.153Radial†	22442.2	21098 ug/L		630.7	21098 ppb	630.7	2.99%
As 188.979†	-10.8	10.804 ug/L		3.3479	10.804 ppb	3.3479	30.99%
B 249.677†	1349.7	32.906 ug/L		1.1833	32.906 ppb	1.1833	3.60%
Ba 233.527†	62799.9	588.65 ug/L		9.153	588.65 ppb	9.153	1.55%
Be 313.107†	-3320.6	1.1688 ug/L		0.04459	1.1688 ppb	0.04459	3.82%
Ca 317.933Radial†	16942.2	29947 ug/L		832.8	29947 ppb	832.8	2.78%
Cd 226.502†	318.8	1.5665 ug/L		0.06263	1.5665 ppb	0.06263	4.00%
Co 228.616†	559.7	11.983 ug/L		0.1957	11.983 ppb	0.1957	1.63%
Cr 267.716†	3584.5	51.363 ug/L		0.3483	51.363 ppb	0.3483	0.68%
Cu 324.752†	11730.2	40.414 ug/L		0.7247	40.414 ppb	0.7247	1.79%
Fe 238.204 Radial†	2834.7	29701 ug/L		631.5	29701 ppb	631.5	2.13%
K 766.490 Radial†	33655.3	6436.8 ug/L		190.59	6436.8 ppb	190.59	2.96%

Mg 279.077 IEC†	171.8	6506.0 ug/L	88.38	6506.0 ppb	88.38	1.36%
Mn 257.610†	1343905.2	1772.1 ug/L	27.51	1772.1 ppb	27.51	1.55%
Mo 202.031†	-22.7	0.6657 ug/L	0.20406	0.6657 ppb	0.20406	30.65%
Na 589.592 Radial†	882.1	309.08 ug/L	18.456	309.08 ppb	18.456	5.97%
Ni 231.604†	974.2	31.010 ug/L	0.1878	31.010 ppb	0.1878	0.61%
P 214.914†	2459.8	1825.6 ug/L	22.54	1825.6 ppb	22.54	1.23%
Pb 220.353†	605.7	94.278 ug/L	2.2912	94.278 ppb	2.2912	2.43%
S 181.975 Axial†	1228.6	2189.7 ug/L	41.35	2189.7 ppb	41.35	1.89%
Sb 206.836†	20.8	3.4997 ug/L	2.38818	3.4997 ppb	2.38818	68.24%
Se 196.026†	-125.2	-11.802 ug/L	1.8478	-11.802 ppb	1.8478	15.66%
Si 251.611†	617026.0	23221 ug/L	353.7	23221 ppb	353.7	1.52%
Sn 189.927†	-172.8	-35.290 ug/L	0.7708	-35.290 ppb	0.7708	2.18%
Sr 421.552†	24607.0	187.76 ug/L	5.228	187.76 ppb	5.228	2.78%
Ti 334.940†	659200.2	1142.7 ug/L	17.72	1142.7 ppb	17.72	1.55%
Tl 190.801†	-49.4	-1.2661 ug/L	2.37737	-1.2661 ppb	2.37737	187.76%
U 409.014†	-867.5	-29.695 ug/L	1.1919	-29.695 ppb	1.1919	4.01%
V 292.402†	6940.7	49.948 ug/L	1.5846	49.948 ppb	1.5846	3.17%
Zn 213.857†	14429.4	169.62 ug/L	3.162	169.62 ppb	3.162	1.86%
SiO2†	621196.0	49747 ug/L	861.6	49747 ppb	861.6	1.73%

Sequence No.: 100
 Sample ID: 247359003|955145|1
 Analyst: HSC
 Initial Sample Wt:
 Dilution:

Autosampler Location: 115
 Date Collected: 3/17/2010 06:29:17
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: 247359003|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4677.8	4677.8	102 %		06:31:11
1	Y RADIAL	5835.3	5835.3	118.3 %		06:31:11
1	Al 396.153Radial†	49602.2	48731.1	45813 ug/L	45813 ppb	06:31:11
1	Ca 317.933Radial†	9684.7	9470.0	16739 ug/L	16739 ppb	06:31:11
1	Fe 238.204 Radial†	8781.3	8604.0	90149 ug/L	90149 ppb	06:31:11
1	K 766.490 Radial†	54038.3	50440.0	9656.4 ug/L	9656.4 ppb	06:31:11
1	Mg 279.077 IEC†	264.2	259.0	9762.7 ug/L	9762.7 ppb	06:31:31
1	Na 589.592 Radial†	870.0	1658.3	581.04 ug/L	581.04 ppb	06:31:11
1	Sr 421.552†	19726.8	19320.5	147.47 ug/L	147.47 ppb	06:31:11
1	Sc 361.383	829890.0	829890.0	102.09 %		06:32:28
1	Y 371.029	803467.1	803467.1	116.54 %		06:32:28
1	Ag 328.068†	-5287.8	-5390.3	0.7086 ug/L	0.7086 ppb	06:32:33
1	As 188.979†	-58.5	-40.3	25.337 ug/L	25.337 ppb	06:32:53
1	B 249.677†	635.1	1037.5	14.301 ug/L	14.301 ppb	06:32:33
1	Ba 233.527†	67721.1	66324.5	623.65 ug/L	623.65 ppb	06:32:33
1	Be 313.107†	-9828.2	-5898.3	4.4622 ug/L	4.4622 ppb	06:32:33
1	Cd 226.502†	531.5	697.0	0.7991 ug/L	0.7991 ppb	06:32:53
1	Co 228.616†	1231.8	1246.5	24.877 ug/L	24.877 ppb	06:32:53
1	Cr 267.716†	10907.1	10604.7	152.22 ug/L	152.22 ppb	06:32:33
1	Cu 324.752†	14833.5	9064.1	34.893 ug/L	34.893 ppb	06:32:33
1	Mn 257.610†	2071625.9	2028734.9	2679.6 ug/L	2679.6 ppb	06:32:28
1	Mo 202.031†	12.9	-0.2	7.1818 ug/L	7.1818 ppb	06:32:53
1	Ni 231.604†	2814.6	2675.7	85.172 ug/L	85.172 ppb	06:32:53
1	P 214.914†	1391.7	1179.3	820.76 ug/L	820.76 ppb	06:32:53
1	Pb 220.353†	388.0	422.8	62.762 ug/L	62.762 ppb	06:32:53
1	S 181.975 Axial†	336.0	299.0	525.27 ug/L	525.27 ppb	06:32:53
1	Sb 206.836†	57.0	31.3	0.6713 ug/L	0.6713 ppb	06:32:53
1	Se 196.026†	-414.7	-387.5	-47.774 ug/L	-47.774 ppb	06:32:53
1	Si 251.611†	1012074.0	990891.0	37290 ug/L	37290 ppb	06:32:28
1	Sn 189.927†	-89.9	-96.1	-23.837 ug/L	-23.837 ppb	06:32:53
1	Ti 334.940†	1815112.4	1779102.2	3076.0 ug/L	3076.0 ppb	06:32:28
1	Tl 190.801†	-125.3	-91.0	2.8520 ug/L	2.8520 ppb	06:32:53
1	U 409.014†	-9397.0	-7123.9	-225.75 ug/L	-225.75 ppb	06:32:28
1	V 292.402†	16196.1	17182.8	120.62 ug/L	120.62 ppb	06:32:33
1	Zn 213.857†	30671.7	29427.8	341.44 ug/L	341.44 ppb	06:32:33
1	SiO2†	1007231.1	986149.9	78973 ug/L	78973 ppb	06:34:02
2	Sc Radial	4625.5	4625.5	101 %		06:31:36
2	Y RADIAL	5755.3	5755.3	116.6 %		06:31:36
2	Al 396.153Radial†	49841.8	49519.4	46554 ug/L	46554 ppb	06:31:36
2	Ca 317.933Radial†	9721.5	9614.0	16994 ug/L	16994 ppb	06:31:36
2	Fe 238.204 Radial†	8849.4	8769.1	91878 ug/L	91878 ppb	06:31:36
2	K 766.490 Radial†	54185.4	51185.9	9799.2 ug/L	9799.2 ppb	06:31:36
2	Mg 279.077 IEC†	264.3	262.1	9876.3 ug/L	9876.3 ppb	06:31:56
2	Na 589.592 Radial†	918.8	1716.4	601.41 ug/L	601.41 ppb	06:31:36
2	Sr 421.552†	19713.5	19526.3	149.04 ug/L	149.04 ppb	06:31:36
2	Sc 361.383	826044.1	826044.1	101.61 %		06:32:59
2	Y 371.029	800583.8	800583.8	116.12 %		06:32:59
2	Ag 328.068†	-5182.3	-5310.7	1.6440 ug/L	1.6440 ppb	06:33:04
2	As 188.979†	-49.2	-31.4	30.653 ug/L	30.653 ppb	06:33:24
2	B 249.677†	770.6	1173.7	17.832 ug/L	17.832 ppb	06:33:04
2	Ba 233.527†	67509.1	66424.7	624.64 ug/L	624.64 ppb	06:33:04
2	Be 313.107†	-9866.7	-5981.0	4.4196 ug/L	4.4196 ppb	06:33:04
2	Cd 226.502†	565.8	733.1	1.1452 ug/L	1.1452 ppb	06:33:24
2	Co 228.616†	1242.4	1262.5	25.274 ug/L	25.274 ppb	06:33:24
2	Cr 267.716†	10829.8	10578.3	152.05 ug/L	152.05 ppb	06:33:04
2	Cu 324.752†	14796.4	9095.2	35.085 ug/L	35.085 ppb	06:33:04
2	Mn 257.610†	2060917.7	2027644.5	2678.3 ug/L	2678.3 ppb	06:32:59
2	Mo 202.031†	9.1	-3.9	6.9957 ug/L	6.9957 ppb	06:33:24
2	Ni 231.604†	2812.2	2686.2	85.505 ug/L	85.505 ppb	06:33:24

2	P 214.914†	1407.4	1201.1	835.96 ug/L	835.96 ppb	06:33:24
2	Pb 220.353†	369.6	406.5	60.169 ug/L	60.169 ppb	06:33:24
2	S 181.975 Axial†	351.5	315.7	554.99 ug/L	554.99 ppb	06:33:24
2	Sb 206.836†	61.5	36.0	2.5792 ug/L	2.5792 ppb	06:33:24
2	Se 196.026†	-415.8	-390.4	-45.007 ug/L	-45.007 ppb	06:33:24
2	Si 251.611†	1006297.0	989821.3	37250 ug/L	37250 ppb	06:32:59
2	Sn 189.927†	-93.5	-100.0	-24.765 ug/L	-24.765 ppb	06:33:24
2	Ti 334.940†	1804782.2	1777214.1	3072.8 ug/L	3072.8 ppb	06:32:59
2	Tl 190.801†	-123.6	-89.9	3.2429 ug/L	3.2429 ppb	06:33:24
2	U 409.014†	-9200.6	-6973.5	-221.40 ug/L	-221.40 ppb	06:32:59
2	V 292.402†	16084.0	17146.3	120.08 ug/L	120.08 ppb	06:33:04
2	Zn 213.857†	30612.3	29509.1	342.16 ug/L	342.16 ppb	06:33:04
2	SiO2†	1012708.9	996134.3	79773 ug/L	79773 ppb	06:34:08
3	Sc Radial	4603.5	4603.5	100 %		06:32:01
3	Y RADIAL	5779.1	5779.1	117.1 %		06:32:01
3	Al 396.153Radial†	50141.8	50054.4	47057 ug/L	47057 ppb	06:32:01
3	Ca 317.933Radial†	9792.4	9730.7	17200 ug/L	17200 ppb	06:32:01
3	Fe 238.204 Radial†	8861.3	8822.9	92441 ug/L	92441 ppb	06:32:01
3	K 766.490 Radial†	54295.1	51551.8	9869.2 ug/L	9869.2 ppb	06:32:01
3	Mg 279.077 IEC†	260.2	259.2	9768.6 ug/L	9768.6 ppb	06:32:21
3	Na 589.592 Radial†	922.1	1724.0	604.05 ug/L	604.05 ppb	06:32:01
3	Sr 421.552†	19833.5	19739.2	150.67 ug/L	150.67 ppb	06:32:01
3	Sc 361.383	828184.1	828184.1	101.88 %		06:33:30
3	Y 371.029	801796.6	801796.6	116.30 %		06:33:30
3	Ag 328.068†	-5304.3	-5417.2	1.2846 ug/L	1.2846 ppb	06:33:36
3	As 188.979†	-40.1	-22.3	35.915 ug/L	35.915 ppb	06:33:56
3	B 249.677†	713.2	1115.4	16.110 ug/L	16.110 ppb	06:33:36
3	Ba 233.527†	68702.0	67424.0	634.01 ug/L	634.01 ppb	06:33:36
3	Be 313.107†	-9852.7	-5942.2	4.4498 ug/L	4.4498 ppb	06:33:36
3	Cd 226.502†	564.6	730.6	1.0498 ug/L	1.0498 ppb	06:33:56
3	Co 228.616†	1253.8	1270.6	25.467 ug/L	25.467 ppb	06:33:56
3	Cr 267.716†	11005.7	10723.4	154.06 ug/L	154.06 ppb	06:33:36
3	Cu 324.752†	15036.6	9293.4	35.773 ug/L	35.773 ppb	06:33:36
3	Mn 257.610†	2071127.4	2032425.6	2684.7 ug/L	2684.7 ppb	06:33:30
3	Mo 202.031†	6.5	-6.4	6.8137 ug/L	6.8137 ppb	06:33:56
3	Ni 231.604†	2850.3	2716.3	86.465 ug/L	86.465 ppb	06:33:56
3	P 214.914†	1415.3	1205.3	838.65 ug/L	838.65 ppb	06:33:56
3	Pb 220.353†	385.1	420.8	62.396 ug/L	62.396 ppb	06:33:56
3	S 181.975 Axial†	350.2	313.6	551.13 ug/L	551.13 ppb	06:33:56
3	Sb 206.836†	52.8	27.3	-1.0403 ug/L	-1.0403 ppb	06:33:56
3	Se 196.026†	-415.0	-388.5	-41.681 ug/L	-41.681 ppb	06:33:56
3	Si 251.611†	1011856.4	992719.4	37359 ug/L	37359 ppb	06:33:30
3	Sn 189.927†	-90.6	-97.0	-24.083 ug/L	-24.083 ppb	06:33:56
3	Ti 334.940†	1813009.9	1780700.9	3078.9 ug/L	3078.9 ppb	06:33:30
3	Tl 190.801†	-127.9	-93.8	1.8134 ug/L	1.8134 ppb	06:33:56
3	U 409.014†	-9381.2	-7127.4	-226.12 ug/L	-226.12 ppb	06:33:30
3	V 292.402†	16517.7	17531.2	123.05 ug/L	123.05 ppb	06:33:36
3	Zn 213.857†	31144.9	29954.1	347.44 ug/L	347.44 ppb	06:33:36
3	SiO2†	1004104.5	985113.2	78890 ug/L	78890 ppb	06:34:14

Mean Data: 247359003|955145|1

Analyte	Mean Corrected	Conc. Units	Calib.	Std.Dev.	Conc. Units	Std.Dev.	RSD
Sc 361.383	828039.4	101.86 %		0.237			0.23%
Sc Radial	4635.6	101 %		0.8			0.82%
Y 371.029	801949.2	116.32 %		0.210			0.18%
Y RADIAL	5789.9	117.3 %		0.83			0.71%
Ag 328.068†	-5372.7	1.2124 ug/L		0.47183	1.2124 ppb	0.47183	38.92%
Al 396.153Radial†	49435.0	46474 ug/L		625.8	46474 ppb	625.8	1.35%
As 188.979†	-31.3	30.635 ug/L		5.2889	30.635 ppb	5.2889	17.26%
B 249.677†	1108.9	16.081 ug/L		1.7655	16.081 ppb	1.7655	10.98%
Ba 233.527†	66724.4	627.43 ug/L		5.719	627.43 ppb	5.719	0.91%
Be 313.107†	-5940.5	4.4439 ug/L		0.02196	4.4439 ppb	0.02196	0.49%
Ca 317.933Radial†	9604.9	16978 ug/L		230.9	16978 ppb	230.9	1.36%
Cd 226.502†	720.2	0.9980 ug/L		0.17880	0.9980 ppb	0.17880	17.91%
Co 228.616†	1259.9	25.206 ug/L		0.3006	25.206 ppb	0.3006	1.19%
Cr 267.716†	10635.5	152.77 ug/L		1.116	152.77 ppb	1.116	0.73%
Cu 324.752†	9150.9	35.250 ug/L		0.4629	35.250 ppb	0.4629	1.31%
Fe 238.204 Radial†	8732.0	91489 ug/L		1194.8	91489 ppb	1194.8	1.31%
K 766.490 Radial†	51059.2	9774.9 ug/L		108.47	9774.9 ppb	108.47	1.11%

Mg 279.077 IEC†	260.1	9802.6 ug/L	63.96	9802.6 ppb	63.96	0.65%
Mn 257.610†	2029601.6	2680.9 ug/L	3.36	2680.9 ppb	3.36	0.13%
Mo 202.031†	-3.5	6.9971 ug/L	0.18405	6.9971 ppb	0.18405	2.63%
Na 589.592 Radial†	1699.6	595.50 ug/L	12.591	595.50 ppb	12.591	2.11%
Ni 231.604†	2692.7	85.714 ug/L	0.6715	85.714 ppb	0.6715	0.78%
P 214.914†	1195.3	831.79 ug/L	9.646	831.79 ppb	9.646	1.16%
Pb 220.353†	416.7	61.776 ug/L	1.4038	61.776 ppb	1.4038	2.27%
S 181.975 Axial†	309.4	543.80 ug/L	16.158	543.80 ppb	16.158	2.97%
Sb 206.836†	31.5	0.7367 ug/L	1.81060	0.7367 ppb	1.81060	245.76%
Se 196.026†	-388.8	-44.821 ug/L	3.0507	-44.821 ppb	3.0507	6.81%
Si 251.611†	991143.9	37300 ug/L	55.2	37300 ppb	55.2	0.15%
Sn 189.927†	-97.7	-24.229 ug/L	0.4804	-24.229 ppb	0.4804	1.98%
Sr 421.552†	19528.7	149.06 ug/L	1.598	149.06 ppb	1.598	1.07%
Ti 334.940†	1779005.7	3075.9 ug/L	3.03	3075.9 ppb	3.03	0.10%
Tl 190.801†	-91.5	2.6361 ug/L	0.73879	2.6361 ppb	0.73879	28.03%
U 409.014†	-7074.9	-224.42 ug/L	2.622	-224.42 ppb	2.622	1.17%
V 292.402†	17286.8	121.25 ug/L	1.584	121.25 ppb	1.584	1.31%
Zn 213.857†	29630.3	343.68 ug/L	3.279	343.68 ppb	3.279	0.95%
SiO2†	989132.5	79212 ug/L	487.4	79212 ppb	487.4	0.62%

Sequence No.: 101

Sample ID: 247359004|955145|1

Analyst: HSC

Initial Sample Wt:

Dilution:

Autosampler Location: 116

Date Collected: 3/17/2010 06:36:25

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 247359004|955145|1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4495.7	4495.7	98.0 %			06:38:39
1	Y RADIAL	5459.8	5459.8	110.7 %			06:38:39
1	Al 396.153Radial†	108106.4	110401.7	103790 ug/L		103790 ppb	06:38:19
1	Ca 317.933Radial†	33299.9	33952.7	60015 ug/L		60015 ppb	06:38:19
1	Fe 238.204 Radial†	11636.9	11866.9	124340 ug/L		124340 ppb	06:38:19
1	K 766.490 Radial†	108467.2	108128.3	20693 ug/L		20693 ppb	06:38:19
1	Mg 279.077 IEC†	641.1	654.1	24761 ug/L		24761 ppb	06:38:39
1	Na 589.592 Radial†	2099.8	2947.8	1032.9 ug/L		1032.9 ppb	06:38:19
1	Sr 421.552†	62691.3	63946.9	488.06 ug/L		488.06 ppb	06:38:19
1	Sc 361.383	824334.9	824334.9	101.40 %			06:39:37
1	Y 371.029	779891.4	779891.4	113.12 %			06:39:37
1	Ag 328.068†	-7208.4	-7319.2	1.2942 ug/L		1.2942 ppb	06:39:42
1	As 188.979†	-31.4	-13.9	54.529 ug/L		54.529 ppb	06:40:02
1	B 249.677†	1726.4	2117.9	38.909 ug/L		38.909 ppb	06:39:42
1	Ba 233.527†	155299.3	153137.9	1437.3 ug/L		1437.3 ppb	06:39:42
1	Be 313.107†	-7978.7	-4139.3	6.9101 ug/L		6.9101 ppb	06:39:42
1	Cd 226.502†	820.6	985.6	1.4521 ug/L		1.4521 ppb	06:40:02
1	Co 228.616†	2261.8	2270.3	49.801 ug/L		49.801 ppb	06:40:02
1	Cr 267.716†	8405.7	8209.9	123.86 ug/L		123.86 ppb	06:39:42
1	Cu 324.752†	24530.9	18725.2	68.666 ug/L		68.666 ppb	06:39:42
1	Mn 257.610†	2432859.0	2398644.6	3169.4 ug/L		3169.4 ppb	06:39:37
1	Mo 202.031†	-87.5	-99.1	1.6503 ug/L		1.6503 ppb	06:40:02
1	Ni 231.604†	2641.5	2523.5	80.311 ug/L		80.311 ppb	06:40:02
1	P 214.914†	4008.7	3769.3	2751.5 ug/L		2751.5 ppb	06:40:02
1	Pb 220.353†	548.8	584.0	96.151 ug/L		96.151 ppb	06:40:02
1	S 181.975 Axial†	426.3	390.3	677.39 ug/L		677.39 ppb	06:40:02
1	Sb 206.836†	46.6	21.5	-8.0370 ug/L		-8.0370 ppb	06:40:02
1	Se 196.026†	-541.3	-515.0	-36.929 ug/L		-36.929 ppb	06:40:02
1	Si 251.611†	1195511.8	1178471.3	44349 ug/L		44349 ppb	06:39:37
1	Sn 189.927†	-209.2	-214.3	-44.727 ug/L		-44.727 ppb	06:40:02
1	Ti 334.940†	2241560.0	2211630.8	3828.1 ug/L		3828.1 ppb	06:39:37
1	Tl 190.801†	-164.3	-130.2	-4.0908 ug/L		-4.0908 ppb	06:40:02
1	U 409.014†	-8433.9	-6236.2	-202.76 ug/L		-202.76 ppb	06:39:37
1	V 292.402†	32613.9	33480.4	245.28 ug/L		245.28 ppb	06:39:42
1	Zn 213.857†	27065.8	26074.2	295.80 ug/L		295.80 ppb	06:39:42
1	SiO2†	1203848.4	1186695.4	95034 ug/L		95034 ppb	06:41:11
2	Sc Radial	4524.4	4524.4	98.6 %			06:39:05
2	Y RADIAL	5502.6	5502.6	111.5 %			06:39:05
2	Al 396.153Radial†	109588.3	111205.1	104550 ug/L		104550 ppb	06:38:45
2	Ca 317.933Radial†	33594.5	34036.0	60162 ug/L		60162 ppb	06:38:45
2	Fe 238.204 Radial†	11755.7	11912.1	124810 ug/L		124810 ppb	06:38:45
2	K 766.490 Radial†	109778.2	108756.1	20814 ug/L		20814 ppb	06:38:45
2	Mg 279.077 IEC†	639.1	647.9	24525 ug/L		24525 ppb	06:39:05
2	Na 589.592 Radial†	2195.6	3031.4	1062.2 ug/L		1062.2 ppb	06:38:45
2	Sr 421.552†	63631.9	64495.1	492.25 ug/L		492.25 ppb	06:38:45
2	Sc 361.383	814294.3	814294.3	100.17 %			06:40:08
2	Y 371.029	770903.8	770903.8	111.82 %			06:40:08
2	Ag 328.068†	-7320.1	-7518.4	0.4296 ug/L		0.4296 ppb	06:40:13
2	As 188.979†	-35.0	-17.9	52.451 ug/L		52.451 ppb	06:40:33
2	B 249.677†	1752.3	2164.7	40.139 ug/L		40.139 ppb	06:40:13
2	Ba 233.527†	154885.7	154613.4	1451.1 ug/L		1451.1 ppb	06:40:13
2	Be 313.107†	-7823.0	-4080.9	6.9467 ug/L		6.9467 ppb	06:40:13
2	Cd 226.502†	821.0	995.9	1.5523 ug/L		1.5523 ppb	06:40:33
2	Co 228.616†	2279.7	2315.7	50.969 ug/L		50.969 ppb	06:40:33
2	Cr 267.716†	8348.6	8255.0	124.52 ug/L		124.52 ppb	06:40:13
2	Cu 324.752†	24507.4	19000.0	69.603 ug/L		69.603 ppb	06:40:13
2	Mn 257.610†	2410136.5	2405543.3	3178.5 ug/L		3178.5 ppb	06:40:08
2	Mo 202.031†	-90.3	-103.0	1.3506 ug/L		1.3506 ppb	06:40:33
2	Ni 231.604†	2660.0	2574.1	81.922 ug/L		81.922 ppb	06:40:33

2	P 214.914†	4055.6	3864.8	2823.1 ug/L	2823.1 ppb	06:40:33
2	Pb 220.353†	550.9	592.7	97.606 ug/L	97.606 ppb	06:40:33
2	S 181.975 Axial†	430.6	399.7	694.12 ug/L	694.12 ppb	06:40:33
2	Sb 206.836†	66.8	42.2	0.5407 ug/L	0.5407 ppb	06:40:33
2	Se 196.026†	-544.7	-525.0	-43.604 ug/L	-43.604 ppb	06:40:33
2	Si 251.611†	1183911.9	1181428.0	44461 ug/L	44461 ppb	06:40:08
2	Sn 189.927†	-200.0	-207.6	-43.221 ug/L	-43.221 ppb	06:40:33
2	Ti 334.940†	2217234.9	2214603.5	3833.3 ug/L	3833.3 ppb	06:40:08
2	Tl 190.801†	-143.8	-111.7	3.0968 ug/L	3.0968 ppb	06:40:33
2	U 409.014†	-8507.6	-6412.4	-208.14 ug/L	-208.14 ppb	06:40:08
2	V 292.402†	32492.0	33755.2	247.38 ug/L	247.38 ppb	06:40:13
2	Zn 213.857†	26999.3	26336.9	298.89 ug/L	298.89 ppb	06:40:13
2	SiO2†	1195086.3	1192586.6	95505 ug/L	95505 ppb	06:41:17
3	Sc Radial	4595.3	4595.3	100 %		06:39:30
3	Y RADIAL	5600.2	5600.2	113.5 %		06:39:30
3	Al 396.153Radial†	111068.3	110967.3	104320 ug/L	104320 ppb	06:39:10
3	Ca 317.933Radial†	33959.0	33874.1	59876 ug/L	59876 ppb	06:39:10
3	Fe 238.204 Radial†	11836.0	11808.2	123720 ug/L	123720 ppb	06:39:10
3	K 766.490 Radial†	111066.6	108324.0	20731 ug/L	20731 ppb	06:39:10
3	Mg 279.077 IEC†	640.4	639.3	24198 ug/L	24198 ppb	06:39:30
3	Na 589.592 Radial†	2169.2	2970.6	1040.9 ug/L	1040.9 ppb	06:39:10
3	Sr 421.552†	64518.9	64384.6	491.41 ug/L	491.41 ppb	06:39:10
3	Sc 361.383	816357.5	816357.5	100.42 %		06:40:39
3	Y 371.029	771265.4	771265.4	111.87 %		06:40:39
3	Ag 328.068†	-7413.7	-7593.1	-0.2760 ug/L	-0.2760 ppb	06:40:44
3	As 188.979†	-38.3	-21.1	50.379 ug/L	50.379 ppb	06:41:04
3	B 249.677†	1684.5	2092.8	38.306 ug/L	38.306 ppb	06:40:44
3	Ba 233.527†	156299.4	155630.4	1460.6 ug/L	1460.6 ppb	06:40:44
3	Be 313.107†	-7884.0	-4121.9	6.9207 ug/L	6.9207 ppb	06:40:44
3	Cd 226.502†	813.0	985.9	1.5195 ug/L	1.5195 ppb	06:41:04
3	Co 228.616†	2272.5	2302.8	50.664 ug/L	50.664 ppb	06:41:04
3	Cr 267.716†	8419.4	8304.5	125.07 ug/L	125.07 ppb	06:40:44
3	Cu 324.752†	24502.3	18933.2	69.326 ug/L	69.326 ppb	06:40:44
3	Mn 257.610†	2413483.6	2402795.4	3174.8 ug/L	3174.8 ppb	06:40:39
3	Mo 202.031†	-81.8	-94.3	2.0265 ug/L	2.0265 ppb	06:41:04
3	Ni 231.604†	2647.0	2554.4	81.294 ug/L	81.294 ppb	06:41:04
3	P 214.914†	4031.1	3830.3	2797.9 ug/L	2797.9 ppb	06:41:04
3	Pb 220.353†	544.0	584.5	96.433 ug/L	96.433 ppb	06:41:04
3	S 181.975 Axial†	432.4	400.4	695.44 ug/L	695.44 ppb	06:41:04
3	Sb 206.836†	53.0	28.2	-5.2540 ug/L	-5.2540 ppb	06:41:04
3	Se 196.026†	-557.2	-536.1	-55.978 ug/L	-55.978 ppb	06:41:04
3	Si 251.611†	1184346.6	1178873.8	44365 ug/L	44365 ppb	06:40:39
3	Sn 189.927†	-215.5	-222.6	-46.588 ug/L	-46.588 ppb	06:41:04
3	Ti 334.940†	2220695.7	2212455.5	3829.5 ug/L	3829.5 ppb	06:40:39
3	Tl 190.801†	-167.0	-134.5	-5.7085 ug/L	-5.7085 ppb	06:41:04
3	U 409.014†	-8596.0	-6478.9	-210.02 ug/L	-210.02 ppb	06:40:39
3	V 292.402†	32856.0	34035.7	249.78 ug/L	249.78 ppb	06:40:44
3	Zn 213.857†	27254.3	26522.8	301.30 ug/L	301.30 ppb	06:40:44
3	SiO2†	1190709.2	1185212.6	94915 ug/L	94915 ppb	06:41:23

Mean Data: 247359004|955145|1

Analyte	Mean Corrected	Conc.	Calib.	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Units			Conc. Units		
Sc 361.383	818328.9	100.66 %		0.652			0.65%
Sc Radial	4538.5	98.9 %		1.12			1.13%
Y 371.029	774020.2	112.27 %		0.738			0.66%
Y RADIAL	5520.9	111.9 %		1.46			1.30%
Ag 328.068†	-7476.9	0.4826 ug/L		0.78646	0.4826 ppb	0.78646	162.97%
Al 396.153Radial†	110858.0	104220 ug/L		388.0	104220 ppb	388.0	0.37%
As 188.979†	-17.6	52.453 ug/L		2.0750	52.453 ppb	2.0750	3.96%
B 249.677†	2125.1	39.118 ug/L		0.9344	39.118 ppb	0.9344	2.39%
Ba 233.527†	154460.6	1449.7 ug/L		11.72	1449.7 ppb	11.72	0.81%
Be 313.107†	-4114.0	6.9258 ug/L		0.01882	6.9258 ppb	0.01882	0.27%
Ca 317.933Radial†	33954.2	60018 ug/L		143.1	60018 ppb	143.1	0.24%
Cd 226.502†	989.2	1.5079 ug/L		0.05110	1.5079 ppb	0.05110	3.39%
Co 228.616†	2296.3	50.478 ug/L		0.6056	50.478 ppb	0.6056	1.20%
Cr 267.716†	8256.5	124.48 ug/L		0.608	124.48 ppb	0.608	0.49%
Cu 324.752†	18886.2	69.198 ug/L		0.4816	69.198 ppb	0.4816	0.70%
Fe 238.204 Radial†	11862.4	124290 ug/L		545.5	124290 ppb	545.5	0.44%
K 766.490 Radial†	108402.8	20746 ug/L		61.5	20746 ppb	61.5	0.30%

Mg 279.077 IEC†	647.1	24495 ug/L	282.9	24495 ppb	282.9	1.15%
Mn 257.610†	2402327.8	3174.2 ug/L	4.60	3174.2 ppb	4.60	0.14%
Mo 202.031†	-98.8	1.6758 ug/L	0.33863	1.6758 ppb	0.33863	20.21%
Na 589.592 Radial†	2983.3	1045.3 ug/L	15.15	1045.3 ppb	15.15	1.45%
Ni 231.604†	2550.7	81.175 ug/L	0.8121	81.175 ppb	0.8121	1.00%
P 214.914†	3821.5	2790.8 ug/L	36.29	2790.8 ppb	36.29	1.30%
Pb 220.353†	587.0	96.730 ug/L	0.7714	96.730 ppb	0.7714	0.80%
S 181.975 Axial†	396.8	688.99 ug/L	10.060	688.99 ppb	10.060	1.46%
Sb 206.836†	30.6	-4.2501 ug/L	4.37611	-4.2501 ppb	4.37611	102.97%
Se 196.026†	-525.4	-45.504 ug/L	9.6660	-45.504 ppb	9.6660	21.24%
Si 251.611†	1179591.0	44392 ug/L	60.4	44392 ppb	60.4	0.14%
Sn 189.927†	-214.8	-44.845 ug/L	1.6863	-44.845 ppb	1.6863	3.76%
Sr 421.552†	64275.5	490.57 ug/L	2.215	490.57 ppb	2.215	0.45%
Ti 334.940†	2212896.6	3830.3 ug/L	2.67	3830.3 ppb	2.67	0.07%
Tl 190.801†	-125.5	-2.2342 ug/L	4.68707	-2.2342 ppb	4.68707	209.79%
U 409.014†	-6375.8	-206.97 ug/L	3.768	-206.97 ppb	3.768	1.82%
V 292.402†	33757.1	247.48 ug/L	2.254	247.48 ppb	2.254	0.91%
Zn 213.857†	26311.3	298.66 ug/L	2.759	298.66 ppb	2.759	0.92%
SiO2†	1188164.9	95151 ug/L	312.4	95151 ppb	312.4	0.33%

Sequence No.: 102

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 3/17/2010 06:43:34

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4319.3	4319.3	94.2 %		06:45:27
1	Y RADIAL	4669.3	4669.3	94.63 %		06:45:27
1	Al 396.153Radial†	5178.5	5586.1	5227.1 ug/L	5227.1 ppb	06:45:27
1	Ca 317.933Radial†	2800.6	2946.8	5208.8 ug/L	5208.8 ppb	06:45:47
1	Fe 238.204 Radial†	469.0	490.2	5151.8 ug/L	5151.8 ppb	06:45:47
1	K 766.490 Radial†	28379.2	27586.5	5278.4 ug/L	5278.4 ppb	06:45:27
1	Mg 279.077 IEC†	132.4	140.5	5346.5 ug/L	5346.5 ppb	06:45:47
1	Na 589.592 Radial†	27544.5	30060.7	10533 ug/L	10533 ppb	06:45:27
1	Sr 421.552†	65400.3	69437.4	530.42 ug/L	530.42 ppb	06:45:27
1	Sc 361.383	809814.2	809814.2	99.617 %		06:46:44
1	Y 371.029	675893.2	675893.2	98.036 %		06:46:44
1	Ag 328.068†	98585.3	98753.9	510.13 ug/L	510.13 ppb	06:46:49
1	As 188.979†	885.6	906.1	508.53 ug/L	508.53 ppb	06:47:09
1	B 249.677†	17334.3	17816.3	496.29 ug/L	496.29 ppb	06:46:49
1	Ba 233.527†	53820.3	54014.7	506.70 ug/L	506.70 ppb	06:46:49
1	Be 313.107†	1178740.2	1187002.5	507.81 ug/L	507.81 ppb	06:46:44
1	Cd 226.502†	34641.5	34951.1	506.29 ug/L	506.29 ppb	06:46:49
1	Co 228.616†	19648.9	19764.3	513.57 ug/L	513.57 ppb	06:46:49
1	Cr 267.716†	37818.3	37884.2	509.72 ug/L	509.72 ppb	06:46:49
1	Cu 324.752†	157211.4	152349.8	504.26 ug/L	504.26 ppb	06:46:49
1	Mn 257.610†	381157.5	382072.4	503.33 ug/L	503.33 ppb	06:46:44
1	Mo 202.031†	5717.1	5726.3	504.02 ug/L	504.02 ppb	06:47:09
1	Ni 231.604†	16176.8	16157.6	514.13 ug/L	514.13 ppb	06:46:49
1	P 214.914†	3514.0	3343.6	2419.7 ug/L	2419.7 ppb	06:47:09
1	Pb 220.353†	3226.4	3281.5	507.74 ug/L	507.74 ppb	06:47:09
1	S 181.975 Axial†	593.9	566.0	1009.6 ug/L	1009.6 ppb	06:47:09
1	Sb 206.836†	1215.5	1195.7	513.22 ug/L	513.22 ppb	06:47:09
1	Se 196.026†	591.4	612.5	526.25 ug/L	526.25 ppb	06:47:09
1	Si 251.611†	67791.0	67553.5	2536.0 ug/L	2536.0 ppb	06:46:49
1	Sn 189.927†	2224.8	2225.4	501.69 ug/L	501.69 ppb	06:47:09
1	Ti 334.940†	284127.4	286307.4	494.63 ug/L	494.63 ppb	06:46:49
1	Tl 190.801†	1280.3	1317.0	510.41 ug/L	510.41 ppb	06:47:09
1	U 409.014†	14931.5	17070.0	513.81 ug/L	513.81 ppb	06:46:49
1	V 292.402†	61950.5	63506.4	514.11 ug/L	514.11 ppb	06:46:49
1	Zn 213.857†	43097.0	42645.6	510.47 ug/L	510.47 ppb	06:46:49
1	SiO2†	67925.7	67691.6	5407.2 ug/L	5407.2 ppb	06:48:17
2	Sc Radial	4428.9	4428.9	96.5 %		06:45:52
2	Y RADIAL	4790.6	4790.6	97.09 %		06:45:52
2	Al 396.153Radial†	5125.7	5395.1	5047.7 ug/L	5047.7 ppb	06:45:52
2	Ca 317.933Radial†	2804.6	2877.2	5085.8 ug/L	5085.8 ppb	06:46:12
2	Fe 238.204 Radial†	465.8	474.6	4987.8 ug/L	4987.8 ppb	06:46:12
2	K 766.490 Radial†	28101.0	26552.0	5080.4 ug/L	5080.4 ppb	06:45:52
2	Mg 279.077 IEC†	132.6	137.3	5224.5 ug/L	5224.5 ppb	06:46:12
2	Na 589.592 Radial†	27161.0	28939.3	10140 ug/L	10140 ppb	06:45:52
2	Sr 421.552†	64614.6	66903.9	511.06 ug/L	511.06 ppb	06:45:52
2	Sc 361.383	806800.4	806800.4	99.246 %		06:47:15
2	Y 371.029	672677.3	672677.3	97.569 %		06:47:15
2	Ag 328.068†	97934.9	98468.2	508.61 ug/L	508.61 ppb	06:47:20
2	As 188.979†	880.5	904.3	507.50 ug/L	507.50 ppb	06:47:40
2	B 249.677†	17188.8	17734.7	494.03 ug/L	494.03 ppb	06:47:20
2	Ba 233.527†	53836.4	54232.9	508.73 ug/L	508.73 ppb	06:47:20
2	Be 313.107†	1171450.7	1184077.6	506.56 ug/L	506.56 ppb	06:47:15
2	Cd 226.502†	34614.1	35053.4	507.79 ug/L	507.79 ppb	06:47:20
2	Co 228.616†	19673.6	19862.8	516.12 ug/L	516.12 ppb	06:47:20
2	Cr 267.716†	37615.9	37822.0	508.87 ug/L	508.87 ppb	06:47:20
2	Cu 324.752†	156106.9	151826.4	502.52 ug/L	502.52 ppb	06:47:20
2	Mn 257.610†	379676.6	382009.5	503.24 ug/L	503.24 ppb	06:47:15
2	Mo 202.031†	5671.9	5702.2	501.89 ug/L	501.89 ppb	06:47:40
2	Ni 231.604†	16118.9	16159.9	514.20 ug/L	514.20 ppb	06:47:20

2	P 214.914†	3485.7	3328.3	2408.6 ug/L	2408.6 ppb	06:47:40
2	Pb 220.353†	3195.7	3262.7	504.82 ug/L	504.82 ppb	06:47:40
2	S 181.975 Axial†	580.2	554.5	989.10 ug/L	989.10 ppb	06:47:40
2	Sb 206.836†	1221.1	1205.8	517.36 ug/L	517.36 ppb	06:47:40
2	Se 196.026†	585.0	608.2	522.19 ug/L	522.19 ppb	06:47:40
2	Si 251.611†	67699.0	67715.0	2542.1 ug/L	2542.1 ppb	06:47:20
2	Sn 189.927†	2209.9	2218.7	500.17 ug/L	500.17 ppb	06:47:40
2	Ti 334.940†	283187.5	286425.8	494.83 ug/L	494.83 ppb	06:47:20
2	Tl 190.801†	1274.9	1316.4	510.15 ug/L	510.15 ppb	06:47:40
2	U 409.014†	14904.9	17099.1	514.71 ug/L	514.71 ppb	06:47:20
2	V 292.402†	61584.1	63369.6	513.01 ug/L	513.01 ppb	06:47:20
2	Zn 213.857†	43084.2	42794.3	512.29 ug/L	512.29 ppb	06:47:20
2	SiO2†	67772.6	67792.1	5415.3 ug/L	5415.3 ppb	06:48:22
3	Sc Radial	4493.6	4493.6	98.0 %		06:46:17
3	Y RADIAL	4860.6	4860.6	98.51 %		06:46:17
3	Al 396.153Radial†	5193.7	5388.1	5041.2 ug/L	5041.2 ppb	06:46:17
3	Ca 317.933Radial†	2805.6	2836.4	5013.7 ug/L	5013.7 ppb	06:46:37
3	Fe 238.204 Radial†	470.2	472.2	4962.6 ug/L	4962.6 ppb	06:46:37
3	K 766.490 Radial†	28547.8	26589.0	5087.5 ug/L	5087.5 ppb	06:46:17
3	Mg 279.077 IEC†	132.3	134.9	5135.0 ug/L	5135.0 ppb	06:46:37
3	Na 589.592 Radial†	27411.5	28789.8	10088 ug/L	10088 ppb	06:46:17
3	Sr 421.552†	65657.6	67004.8	511.83 ug/L	511.83 ppb	06:46:17
3	Sc 361.383	808355.1	808355.1	99.437 %		06:47:46
3	Y 371.029	673485.4	673485.4	97.686 %		06:47:46
3	Ag 328.068†	98130.0	98474.6	508.63 ug/L	508.63 ppb	06:47:51
3	As 188.979†	881.4	903.4	507.00 ug/L	507.00 ppb	06:48:11
3	B 249.677†	17232.0	17744.9	494.32 ug/L	494.32 ppb	06:47:51
3	Ba 233.527†	53858.2	54150.4	507.95 ug/L	507.95 ppb	06:47:51
3	Be 313.107†	1171515.0	1181872.2	505.62 ug/L	505.62 ppb	06:47:46
3	Cd 226.502†	34655.6	35028.0	507.43 ug/L	507.43 ppb	06:47:51
3	Co 228.616†	19664.4	19815.5	514.89 ug/L	514.89 ppb	06:47:51
3	Cr 267.716†	37691.4	37825.2	508.91 ug/L	508.91 ppb	06:47:51
3	Cu 324.752†	156435.3	151854.2	502.61 ug/L	502.61 ppb	06:47:51
3	Mn 257.610†	380074.7	381674.1	502.80 ug/L	502.80 ppb	06:47:46
3	Mo 202.031†	5670.1	5689.3	500.75 ug/L	500.75 ppb	06:48:11
3	Ni 231.604†	16147.4	16157.3	514.12 ug/L	514.12 ppb	06:47:51
3	P 214.914†	3496.5	3332.4	2411.6 ug/L	2411.6 ppb	06:48:11
3	Pb 220.353†	3210.2	3271.1	506.11 ug/L	506.11 ppb	06:48:11
3	S 181.975 Axial†	581.3	554.4	988.95 ug/L	988.95 ppb	06:48:11
3	Sb 206.836†	1218.5	1200.9	515.27 ug/L	515.27 ppb	06:48:11
3	Se 196.026†	578.8	600.9	516.00 ug/L	516.00 ppb	06:48:11
3	Si 251.611†	67762.7	67647.8	2539.6 ug/L	2539.6 ppb	06:47:51
3	Sn 189.927†	2202.4	2206.9	497.51 ug/L	497.51 ppb	06:48:11
3	Ti 334.940†	283483.6	286174.8	494.39 ug/L	494.39 ppb	06:47:51
3	Tl 190.801†	1275.1	1314.1	509.27 ug/L	509.27 ppb	06:48:11
3	U 409.014†	15018.9	17184.9	517.30 ug/L	517.30 ppb	06:47:51
3	V 292.402†	61619.4	63285.8	512.33 ug/L	512.33 ppb	06:47:51
3	Zn 213.857†	43024.3	42650.6	510.56 ug/L	510.56 ppb	06:47:51
3	SiO2†	67368.3	67254.1	5372.2 ug/L	5372.2 ppb	06:48:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	808323.3	99.433 %		0.1854			0.19%
Sc Radial	4413.9	96.2 %		1.92			2.00%
Y 371.029	674018.6	97.764 %		0.2427			0.25%
Y RADIAL	4773.5	96.74 %		1.962			2.03%
Ag 328.068†	98565.6	509.12 ug/L		0.872	509.12 ppb	0.872	0.17%
QC value within limits for Ag 328.068 Recovery = 101.82%							
Al 396.153Radial†	5456.4	5105.3 ug/L		105.52	5105.3 ppb	105.52	2.07%
QC value within limits for Al 396.153Radial Recovery = 102.11%							
As 188.979†	904.6	507.68 ug/L		0.780	507.68 ppb	0.780	0.15%
QC value within limits for As 188.979 Recovery = 101.54%							
B 249.677†	17765.3	494.88 ug/L		1.231	494.88 ppb	1.231	0.25%
QC value within limits for B 249.677 Recovery = 98.98%							
Ba 233.527†	54132.7	507.79 ug/L		1.026	507.79 ppb	1.026	0.20%
QC value within limits for Ba 233.527 Recovery = 101.56%							
Be 313.107†	1184317.4	506.67 ug/L		1.099	506.67 ppb	1.099	0.22%
QC value within limits for Be 313.107 Recovery = 101.33%							
Ca 317.933Radial†	2886.8	5102.8 ug/L		98.61	5102.8 ppb	98.61	1.93%

QC value within limits for Ca 317.933 Radial Recovery = 102.06%

Cd	226.502†	35010.8	507.17 ug/L	0.782	507.17 ppb	0.782	0.15%
QC value within limits for Cd 226.502 Recovery = 101.43%							
Co	228.616†	19814.2	514.86 ug/L	1.279	514.86 ppb	1.279	0.25%
QC value within limits for Co 228.616 Recovery = 102.97%							
Cr	267.716†	37843.8	509.17 ug/L	0.482	509.17 ppb	0.482	0.09%
QC value within limits for Cr 267.716 Recovery = 101.83%							
Cu	324.752†	152010.1	503.13 ug/L	0.981	503.13 ppb	0.981	0.19%
QC value within limits for Cu 324.752 Recovery = 100.63%							
Fe	238.204 Radial†	479.0	5034.1 ug/L	102.75	5034.1 ppb	102.75	2.04%
QC value within limits for Fe 238.204 Radial Recovery = 100.68%							
K	766.490 Radial†	26909.2	5148.8 ug/L	112.31	5148.8 ppb	112.31	2.18%
QC value within limits for K 766.490 Radial Recovery = 102.98%							
Mg	279.077 IEC†	137.6	5235.3 ug/L	106.18	5235.3 ppb	106.18	2.03%
QC value within limits for Mg 279.077 IEC Recovery = 104.71%							
Mn	257.610†	381918.7	503.12 ug/L	0.285	503.12 ppb	0.285	0.06%
QC value within limits for Mn 257.610 Recovery = 100.62%							
Mo	202.031†	5705.9	502.22 ug/L	1.659	502.22 ppb	1.659	0.33%
QC value within limits for Mo 202.031 Recovery = 100.44%							
Na	589.592 Radial†	29263.2	10253 ug/L	243.4	10253 ppb	243.4	2.37%
QC value within limits for Na 589.592 Radial Recovery = 102.53%							
Ni	231.604†	16158.3	514.15 ug/L	0.044	514.15 ppb	0.044	0.01%
QC value within limits for Ni 231.604 Recovery = 102.83%							
P	214.914†	3334.8	2413.3 ug/L	5.74	2413.3 ppb	5.74	0.24%
QC value within limits for P 214.914 Recovery = 96.53%							
Pb	220.353†	3271.8	506.23 ug/L	1.465	506.23 ppb	1.465	0.29%
QC value within limits for Pb 220.353 Recovery = 101.25%							
S	181.975 Axial†	558.3	995.87 ug/L	11.864	995.87 ppb	11.864	1.19%
QC value within limits for S 181.975 Axial Recovery = 99.59%							
Sb	206.836†	1200.8	515.28 ug/L	2.069	515.28 ppb	2.069	0.40%
QC value within limits for Sb 206.836 Recovery = 103.06%							
Se	196.026†	607.2	521.48 ug/L	5.160	521.48 ppb	5.160	0.99%
QC value within limits for Se 196.026 Recovery = 104.30%							
Si	251.611†	67638.8	2539.3 ug/L	3.07	2539.3 ppb	3.07	0.12%
QC value within limits for Si 251.611 Recovery = 101.57%							
Sn	189.927†	2217.0	499.79 ug/L	2.117	499.79 ppb	2.117	0.42%
QC value within limits for Sn 189.927 Recovery = 99.96%							
Sr	421.552†	67782.1	517.77 ug/L	10.958	517.77 ppb	10.958	2.12%
QC value within limits for Sr 421.552 Recovery = 103.55%							
Ti	334.940†	286302.7	494.62 ug/L	0.219	494.62 ppb	0.219	0.04%
QC value within limits for Ti 334.940 Recovery = 98.92%							
Tl	190.801†	1315.8	509.94 ug/L	0.600	509.94 ppb	0.600	0.12%
QC value within limits for Tl 190.801 Recovery = 101.99%							
U	409.014†	17118.0	515.27 ug/L	1.815	515.27 ppb	1.815	0.35%
QC value within limits for U 409.014 Recovery = 103.05%							
V	292.402†	63387.2	513.15 ug/L	0.897	513.15 ppb	0.897	0.17%
QC value within limits for V 292.402 Recovery = 102.63%							
Zn	213.857†	42696.8	511.10 ug/L	1.027	511.10 ppb	1.027	0.20%
QC value within limits for Zn 213.857 Recovery = 102.22%							
SiO2†		67579.3	5398.2 ug/L	22.88	5398.2 ppb	22.88	0.42%
QC value within limits for SiO2 Recovery = 100.95%							

All analyte(s) passed QC.

Sequence No.: 103
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 8
 Date Collected: 3/17/2010 06:50:37
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Replicate Data: CCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Sc Radial	4292.6	4292.6	93.6 %		06:52:50
1	Y RADIAL	4681.0	4681.0	94.87 %		06:52:30
1	Al 396.153Radial†	-78.5	1.9	1.7882 ug/L	1.7882 ppb	06:52:50
1	Ca 317.933Radial†	18.6	-8.0	-14.105 ug/L	-14.105 ppb	06:52:50
1	Fe 238.204 Radial†	9.9	2.7	28.669 ug/L	28.669 ppb	06:52:50
1	K 766.490 Radial†	2634.3	259.6	49.777 ug/L	49.777 ppb	06:52:30
1	Mg 279.077 IEC†	-2.1	-2.3	-88.465 ug/L	-88.465 ppb	06:52:50
1	Na 589.592 Radial†	-961.1	-222.1	-77.811 ug/L	-77.811 ppb	06:52:30
1	Sr 421.552†	5.1	-20.3	-0.1552 ug/L	-0.1552 ppb	06:52:30
1	Sc 361.383	796848.2	796848.2	98.022 %		06:53:47
1	Y 371.029	672849.1	672849.1	97.594 %		06:53:47
1	Ag 328.068†	168.1	-39.1	-0.1859 ug/L	-0.1859 ppb	06:53:47
1	As 188.979†	-13.1	3.7	2.0587 ug/L	2.0587 ppb	06:54:07
1	B 249.677†	-316.4	92.6	2.5868 ug/L	2.5868 ppb	06:54:07
1	Ba 233.527†	23.3	11.3	0.1065 ug/L	0.1065 ppb	06:54:07
1	Be 313.107†	-3740.1	-86.6	-0.0370 ug/L	-0.0370 ppb	06:53:47
1	Cd 226.502†	-167.9	5.1	0.0694 ug/L	0.0694 ppb	06:54:07
1	Co 228.616†	-53.4	-14.7	-0.3828 ug/L	-0.3828 ppb	06:54:07
1	Cr 267.716†	86.1	8.3	0.1172 ug/L	0.1172 ppb	06:54:07
1	Cu 324.752†	5327.9	-30.8	-0.0966 ug/L	-0.0966 ppb	06:53:47
1	Mn 257.610†	475.9	-65.5	-0.0797 ug/L	-0.0797 ppb	06:54:07
1	Mo 202.031†	6.3	-6.4	-0.5579 ug/L	-0.5579 ppb	06:54:07
1	Ni 231.604†	81.6	1.9	0.0597 ug/L	0.0597 ppb	06:54:07
1	P 214.914†	194.7	14.8	11.122 ug/L	11.122 ppb	06:54:07
1	Pb 220.353†	-58.3	-16.7	-2.5765 ug/L	-2.5765 ppb	06:54:07
1	S 181.975 Axial†	33.7	4.2	7.4608 ug/L	7.4608 ppb	06:54:07
1	Sb 206.836†	25.3	1.3	0.5388 ug/L	0.5388 ppb	06:54:07
1	Se 196.026†	-31.1	-13.0	-10.681 ug/L	-10.681 ppb	06:54:07
1	Si 251.611†	541.9	54.6	2.0625 ug/L	2.0625 ppb	06:54:07
1	Sn 189.927†	13.0	5.2	1.1779 ug/L	1.1779 ppb	06:54:07
1	Ti 334.940†	-1081.1	-15.7	-0.0187 ug/L	-0.0187 ppb	06:53:47
1	Tl 190.801†	-29.2	2.0	0.7731 ug/L	0.7731 ppb	06:54:07
1	U 409.014†	-2268.5	-233.3	-7.0503 ug/L	-7.0503 ppb	06:53:47
1	V 292.402†	-1296.4	-4.8	-0.0658 ug/L	-0.0658 ppb	06:53:47
1	Zn 213.857†	675.3	71.8	0.8627 ug/L	0.8627 ppb	06:54:07
1	SiO2†	537.3	52.8	4.2436 ug/L	4.2436 ppb	06:55:18
2	Sc Radial	4309.4	4309.4	93.9 %		06:53:15
2	Y RADIAL	4794.7	4794.7	97.17 %		06:52:55
2	Al 396.153Radial†	-88.4	-8.3	-7.8120 ug/L	-7.8120 ppb	06:53:15
2	Ca 317.933Radial†	20.6	-5.9	-10.424 ug/L	-10.424 ppb	06:53:15
2	Fe 238.204 Radial†	8.3	1.0	10.681 ug/L	10.681 ppb	06:53:15
2	K 766.490 Radial†	2555.6	164.8	31.601 ug/L	31.601 ppb	06:52:55
2	Mg 279.077 IEC†	2.1	2.1	80.157 ug/L	80.157 ppb	06:53:15
2	Na 589.592 Radial†	-928.1	-182.9	-64.093 ug/L	-64.093 ppb	06:52:55
2	Sr 421.552†	56.9	34.8	0.2656 ug/L	0.2656 ppb	06:52:55
2	Sc 361.383	806042.7	806042.7	99.153 %		06:54:12
2	Y 371.029	680256.2	680256.2	98.668 %		06:54:12
2	Ag 328.068†	204.1	-4.8	-0.0197 ug/L	-0.0197 ppb	06:54:12
2	As 188.979†	-21.7	-4.9	-2.7127 ug/L	-2.7127 ppb	06:54:32
2	B 249.677†	-352.2	60.2	1.6808 ug/L	1.6808 ppb	06:54:32
2	Ba 233.527†	14.8	2.5	0.0225 ug/L	0.0225 ppb	06:54:32
2	Be 313.107†	-3765.2	-68.4	-0.0292 ug/L	-0.0292 ppb	06:54:12
2	Cd 226.502†	-164.1	10.8	0.1550 ug/L	0.1550 ppb	06:54:32
2	Co 228.616†	-29.0	10.6	0.2757 ug/L	0.2757 ppb	06:54:32
2	Cr 267.716†	64.5	-14.5	-0.1923 ug/L	-0.1923 ppb	06:54:32
2	Cu 324.752†	5263.7	-157.6	-0.5191 ug/L	-0.5191 ppb	06:54:12
2	Mn 257.610†	474.7	-72.2	-0.0973 ug/L	-0.0973 ppb	06:54:32
2	Mo 202.031†	17.6	4.9	0.4345 ug/L	0.4345 ppb	06:54:32
2	Ni 231.604†	75.0	-5.8	-0.1840 ug/L	-0.1840 ppb	06:54:32

2	P 214.914†	191.4	9.1	6.9376 ug/L	6.9376 ppb	06:54:32
2	Pb 220.353†	-46.1	-3.7	-0.5719 ug/L	-0.5719 ppb	06:54:32
2	S 181.975 Axial†	32.5	2.7	4.7730 ug/L	4.7730 ppb	06:54:32
2	Sb 206.836†	30.4	6.2	2.5901 ug/L	2.5901 ppb	06:54:32
2	Se 196.026†	-22.4	-3.8	-3.1292 ug/L	-3.1292 ppb	06:54:32
2	Si 251.611†	534.8	41.2	1.5448 ug/L	1.5448 ppb	06:54:32
2	Sn 189.927†	13.7	5.9	1.3170 ug/L	1.3170 ppb	06:54:32
2	Ti 334.940†	-1088.2	-10.2	-0.0239 ug/L	-0.0239 ppb	06:54:12
2	Tl 190.801†	-28.9	2.6	1.0038 ug/L	1.0038 ppb	06:54:32
2	U 409.014†	-2185.0	-122.7	-3.7054 ug/L	-3.7054 ppb	06:54:12
2	V 292.402†	-1359.4	-53.3	-0.4264 ug/L	-0.4264 ppb	06:54:12
2	Zn 213.857†	660.7	49.3	0.5954 ug/L	0.5954 ppb	06:54:32
2	SiO2†	575.0	84.6	6.7627 ug/L	6.7627 ppb	06:55:38
3	Sc Radial	4272.5	4272.5	93.1 %		06:53:40
3	Y RADIAL	4800.7	4800.7	97.29 %		06:53:20
3	Al 396.153Radial†	-72.9	7.6	7.0927 ug/L	7.0927 ppb	06:53:40
3	Ca 317.933Radial†	24.7	-1.4	-2.3918 ug/L	-2.3918 ppb	06:53:40
3	Fe 238.204 Radial†	8.2	1.0	10.192 ug/L	10.192 ppb	06:53:40
3	K 766.490 Radial†	2723.8	368.9	70.711 ug/L	70.711 ppb	06:53:20
3	Mg 279.077 IEC†	4.1	4.3	162.80 ug/L	162.80 ppb	06:53:40
3	Na 589.592 Radial†	-968.6	-234.9	-82.320 ug/L	-82.320 ppb	06:53:20
3	Sr 421.552†	20.0	-4.3	-0.0331 ug/L	-0.0331 ppb	06:53:20
3	Sc 361.383	809573.7	809573.7	99.587 %		06:54:38
3	Y 371.029	683798.2	683798.2	99.182 %		06:54:38
3	Ag 328.068†	142.8	-67.2	-0.3354 ug/L	-0.3354 ppb	06:54:38
3	As 188.979†	-18.9	-2.0	-1.0944 ug/L	-1.0944 ppb	06:54:58
3	B 249.677†	-340.1	73.8	2.0646 ug/L	2.0646 ppb	06:54:58
3	Ba 233.527†	10.9	-1.5	-0.0132 ug/L	-0.0132 ppb	06:54:58
3	Be 313.107†	-3851.8	-138.7	-0.0592 ug/L	-0.0592 ppb	06:54:38
3	Cd 226.502†	-159.4	16.2	0.2333 ug/L	0.2333 ppb	06:54:58
3	Co 228.616†	-39.4	0.3	0.0095 ug/L	0.0095 ppb	06:54:58
3	Cr 267.716†	64.2	-15.0	-0.1978 ug/L	-0.1978 ppb	06:54:58
3	Cu 324.752†	5429.4	-14.3	-0.0436 ug/L	-0.0436 ppb	06:54:38
3	Mn 257.610†	444.8	-104.3	-0.1429 ug/L	-0.1429 ppb	06:54:58
3	Mo 202.031†	19.4	6.7	0.5861 ug/L	0.5861 ppb	06:54:58
3	Ni 231.604†	94.2	13.1	0.4177 ug/L	0.4177 ppb	06:54:58
3	P 214.914†	195.3	12.2	9.2101 ug/L	9.2101 ppb	06:54:58
3	Pb 220.353†	-51.2	-8.6	-1.3282 ug/L	-1.3282 ppb	06:54:58
3	S 181.975 Axial†	25.3	-4.7	-8.4105 ug/L	-8.4105 ppb	06:54:58
3	Sb 206.836†	25.3	0.9	0.3534 ug/L	0.3534 ppb	06:54:58
3	Se 196.026†	-17.0	1.7	1.4797 ug/L	1.4797 ppb	06:54:58
3	Si 251.611†	536.4	40.4	1.5132 ug/L	1.5132 ppb	06:54:58
3	Sn 189.927†	2.6	-5.3	-1.2045 ug/L	-1.2045 ppb	06:54:58
3	Ti 334.940†	-1067.2	15.7	0.0161 ug/L	0.0161 ppb	06:54:38
3	Tl 190.801†	-34.9	-3.3	-1.2591 ug/L	-1.2591 ppb	06:54:58
3	U 409.014†	-2261.8	-190.2	-5.7447 ug/L	-5.7447 ppb	06:54:38
3	V 292.402†	-1265.6	46.8	0.3731 ug/L	0.3731 ppb	06:54:38
3	Zn 213.857†	661.5	47.1	0.5647 ug/L	0.5647 ppb	06:54:58
3	SiO2†	544.6	51.6	4.1124 ug/L	4.1124 ppb	06:55:58

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib.	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sc 361.383	804154.9	98.921 %		0.8081			0.82%
Sc Radial	4291.5	93.5 %		0.40			0.43%
Y 371.029	678967.8	98.482 %		0.8104			0.82%
Y RADIAL	4758.8	96.44 %		1.367			1.42%
Ag 328.068†	-37.0	-0.1803 ug/L		0.15791	-0.1803 ppb	0.15791	87.57%
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 396.153Radial†	0.4	0.3563 ug/L		7.55485	0.3563 ppb	7.55485	>999.9%
QC value within limits for Al 396.153Radial Recovery = Not calculated							
As 188.979†	-1.1	-0.5828 ug/L		2.42650	-0.5828 ppb	2.42650	416.36%
QC value within limits for As 188.979 Recovery = Not calculated							
B 249.677†	75.5	2.1107 ug/L		0.45473	2.1107 ppb	0.45473	21.54%
QC value within limits for B 249.677 Recovery = Not calculated							
Ba 233.527†	4.1	0.0386 ug/L		0.06144	0.0386 ppb	0.06144	159.17%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	-97.9	-0.0418 ug/L		0.01552	-0.0418 ppb	0.01552	37.13%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933Radial†	-5.1	-8.9737 ug/L		5.98986	-8.9737 ppb	5.98986	66.75%

QC value within limits for Ca 317.933 Radial Recovery = Not calculated							
Cd 226.502†	10.7	0.1525 ug/L	0.08201	0.1525 ppb	0.08201	53.76%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	-1.3	-0.0325 ug/L	0.33122	-0.0325 ppb	0.33122	>999.9%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	-7.1	-0.0910 ug/L	0.18032	-0.0910 ppb	0.18032	198.25%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	-67.6	-0.2198 ug/L	0.26056	-0.2198 ppb	0.26056	118.57%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 238.204 Radial†	1.6	16.514 ug/L	10.5293	16.514 ppb	10.5293	63.76%	
QC value within limits for Fe 238.204 Radial Recovery = Not calculated							
K 766.490 Radial†	264.5	50.696 ug/L	19.5708	50.696 ppb	19.5708	38.60%	
QC value within limits for K 766.490 Radial Recovery = Not calculated							
Mg 279.077 IEC†	1.4	51.496 ug/L	128.0589	51.496 ppb	128.0589	248.68%	
QC value within limits for Mg 279.077 IEC Recovery = Not calculated							
Mn 257.610†	-80.6	-0.1066 ug/L	0.03263	-0.1066 ppb	0.03263	30.60%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo 202.031†	1.7	0.1542 ug/L	0.62136	0.1542 ppb	0.62136	402.85%	
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592 Radial†	-213.3	-74.742 ug/L	9.4934	-74.742 ppb	9.4934	12.70%	
QC value within limits for Na 589.592 Radial Recovery = Not calculated							
Ni 231.604†	3.1	0.0978 ug/L	0.30265	0.0978 ppb	0.30265	309.46%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
P 214.914†	12.0	9.0899 ug/L	2.09485	9.0899 ppb	2.09485	23.05%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-9.7	-1.4922 ug/L	1.01231	-1.4922 ppb	1.01231	67.84%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
S 181.975 Axial†	0.7	1.2744 ug/L	8.49439	1.2744 ppb	8.49439	666.53%	
QC value within limits for S 181.975 Axial Recovery = Not calculated							
Sb 206.836†	2.8	1.1608 ug/L	1.24132	1.1608 ppb	1.24132	106.94%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-5.0	-4.1102 ug/L	6.13939	-4.1102 ppb	6.13939	149.37%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Si 251.611†	45.4	1.7069 ug/L	0.30838	1.7069 ppb	0.30838	18.07%	
QC value within limits for Si 251.611 Recovery = Not calculated							
Sn 189.927†	1.9	0.4301 ug/L	1.41732	0.4301 ppb	1.41732	329.51%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 421.552†	3.4	0.0258 ug/L	0.21650	0.0258 ppb	0.21650	840.05%	
QC value within limits for Sr 421.552 Recovery = Not calculated							
Ti 334.940†	-3.4	-0.0088 ug/L	0.02175	-0.0088 ppb	0.02175	245.85%	
QC value within limits for Ti 334.940 Recovery = Not calculated							
Tl 190.801†	0.4	0.1726 ug/L	1.24524	0.1726 ppb	1.24524	721.59%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
U 409.014†	-182.1	-5.5001 ug/L	1.68579	-5.5001 ppb	1.68579	30.65%	
QC value within limits for U 409.014 Recovery = Not calculated							
V 292.402†	-3.8	-0.0397 ug/L	0.40036	-0.0397 ppb	0.40036	>999.9%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	56.0	0.6742 ug/L	0.16390	0.6742 ppb	0.16390	24.31%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
SiO2†	63.0	5.0396 ug/L	1.49369	5.0396 ppb	1.49369	29.64%	
QC value within limits for SiO2 Recovery = Not calculated							

All analyte(s) passed QC.

ICPMS#3 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Wednesday, March 17, 2010 11:29:49

Sample Description:

Method File: C:\elandata\Method\daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.7527

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	471.8	471.808	16.239	3.4
Mg	24.0	5042.9	5042.890	124.438	2.5
Co	58.9	7261.0	7261.046	198.314	2.7
Rh	102.9	16804.1	16804.083	431.451	2.6
In	114.9	24734.2	24734.201	522.538	2.1
Pb	208.0	14057.1	14057.114	175.371	1.2
[> Ba	137.9	18780.9	18780.938	448.169	2.4
[Ba++	69.0	291.4	0.016	0.001	4.2
[> Ce	139.9	24812.3	24812.333	376.713	1.5
[CeO	155.9	488.3	0.020	0.000	2.1
Bkgd	220.0	0.6	0.600	0.224	37.3

Current Optimization File Data

Current Value	Description
1.09	Nebulizer Gas Flow
8.40	Lens Voltage
1450.00	ICP RF Power
-1855.00	Analog Stage Voltage
1350.00	Pulse Stage Voltage
70.00	Discriminator Threshold
-7.00	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	25	8.3	601.0
Co	59	25	10.5	9090.6
In	115	25	11.8	46012.6

ICPMS#3 Instrument Tuning Report

File Name: 100317.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas Peak W
He	3.0	3.1	591	2060	0.646
Be	9.0	9.0	2056	2040	0.667
Mg	24.0	24.0	5708	2110	0.618
Mg	25.0	25.0	5896	2020	0.662
Mg	26.0	26.0	6230	2140	0.650
Co	58.9	58.9	14201	2115	0.625
Rh	102.9	102.9	24906	2165	0.659
In	114.9	114.9	27827	2180	0.649
Ce	139.9	139.9	33907	2220	0.619
Pb	206.0	206.0	50004	2280	0.674
Pb	207.0	207.0	50272	2310	0.664
Pb	208.0	208.0	50486	2300	0.646
U	238.1	238.0	57837	2340	0.669

ICPMS#3 - Summary Report

Sample ID: Blank

Sample Date/Time: Wednesday, March 17, 2010 23:13:48

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\Blank.253

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		45113	
[U 238		ug/L		32	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175					
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Wednesday, March 17, 2010 23:15:30

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\Standard 1.254

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		45037	45036.906
[	U	238	10.000 ug/L	1.883	20535	0.456

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175				
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Wednesday, March 17, 2010 23:17:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\Standard 2.255

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		46100	46100.061
[U 238	99.991	ug/L	2.492	207880	4.514

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175					
[U 238					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Wednesday, March 17, 2010 23:18:49

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 1.256

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		46458	46458.155
[U	238	51.689	ug/L	0.785	108406	2.334

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175		103.0			
[U	238	103.378				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Wednesday, March 17, 2010 23:20:31

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 2.257

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		46580	46580.159
[U	238	0.130	ug/L	4.655	306	0.006

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			103.3		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Wednesday, March 17, 2010 23:22:14

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 3.258

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		46519	46519.298
[	U	238	0.224 ug/L	4.322	503	0.010

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		103.1		
[	U	238	111.759			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Wednesday, March 17, 2010 23:23:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\du only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 4.259

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		38241	38241.355
[U	238	0.020	ug/L	29.711	61	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu	175			84.8		
[U	238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Wednesday, March 17, 2010 23:25:36

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 5.260

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		40347	40347.462
[	U	238	ug/L	1.493	42485	1.053

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		89.4		
[U	238	116.607			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 17, 2010 23:27:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 6.261

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44078	44078.316
[	U	238	ug/L	2.952	104562	2.375

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.7		
[U	238	105.223			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 17, 2010 23:28:59

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 7.262

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44252	44252.439
[	U	238	0.055 ug/L	10.022	142	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		98.1		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202047743

Sample Date/Time: Wednesday, March 17, 2010 23:30:43

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\1202047743.263

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		42450	42450.322
[	U	238	0.018 ug/L	37.782	65	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		94.1		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202047748

Sample Date/Time: Wednesday, March 17, 2010 23:32:28

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 95514721prb

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100317\1202047748.264

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44106	44106.280
[	U	238	0.530 ug/L	0.285	1086	0.024

Calibration

Analyte	Mass Curve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		97.8		
[	U	238				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047748

Report Date/Time: Wednesday, March 17, 2010 23:32:42

Page 1

ICPMS#3 - Summary Report

Sample ID: 1202047744

Sample Date/Time: Wednesday, March 17, 2010 23:35:58

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\1202047744.266

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44738	44737.598
[	U	238	ug/L	0.268	7278	0.162

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		99.2		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202047746

Sample Date/Time: Wednesday, March 17, 2010 23:37:41

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\1202047746.267

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		45635	45635.122
[U 238	32.165	ug/L	1.812	66258	1.452

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		101.2			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202047747

Sample Date/Time: Wednesday, March 17, 2010 23:39:25

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\1202047747.268

Concentration Results

Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu 175		ug/L		45119	45118.836
[U 238	31.505	ug/L	1.950	64147	1.422

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[> Lu 175		100.0			
[U 238					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 1202047745

Sample Date/Time: Wednesday, March 17, 2010 23:41:10

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 955147|10|prb

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100317\1202047745.269

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44861	44861.438
[	U	238	0.751 ug/L	2.077	1552	0.034

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		99.4		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 17, 2010 23:42:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 6.270

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		45613	45613.128
[	U	238	51.704 ug/L	2.711	106356	2.334

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		101.1		
[	U	238	103.408			

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 17, 2010 23:44:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 7.271

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		45316	45316.103
[	U	238	0.054 ug/L	11.263	141	0.002

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		100.5		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247359001

Sample Date/Time: Wednesday, March 17, 2010 23:46:19

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\247359001.272

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		41177	41176.935
[	U	238	9.809 ug/L	3.822	18231	0.443

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		91.3		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247359002

Sample Date/Time: Wednesday, March 17, 2010 23:48:04

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\247359002.273

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		41457	41457.010
[	U	238	11.424 ug/L	1.419	21399	0.516

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		91.9		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247359003

Sample Date/Time: Wednesday, March 17, 2010 23:49:51

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\w only.mth

Dataset File: C:\elandata\Dataset\100317\247359003.274

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		41468	41468.368
[	U	238	2.851 ug/L	1.530	5367	0.129

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		91.9		
[U	238				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: 247359004

Sample Date/Time: Wednesday, March 17, 2010 23:51:36

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|prb

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\247359004.275

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		43495	43495.375
[	U	238	0.977 ug/L	2.891	1951	0.044

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		96.4		
[	U	238				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Wednesday, March 17, 2010 23:53:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 6.276

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[>	Lu	175	ug/L		44782	44781.518
[	U	238	51.982 ug/L	2.844	104968	2.347

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Lu	175Linear Thru Zero	
U	238Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Lu	175		99.3		
[U	238	103.964			

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#3 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Wednesday, March 17, 2010 23:55:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lu only.mth

Dataset File: C:\elandata\Dataset\100317\QC Std 7.277

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[> Lu	175		ug/L		45015	45015.181
[U	238	0.054	ug/L	3.849	142	0.002

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Lu	175	Linear Thru Zero	
U	238	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Recovery	Dilution	% Diff	Dup. Rel.	% Diff
[> Lu	175					99.8					
[U	238										

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Monday, March 15, 2010 11:49:49

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.731

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
Be	9.0	3870.9	3870.924	21.944	0.6
Mg	24.0	48922.4	48922.432	465.568	1.0
Co	58.9	88703.4	88703.374	1147.297	1.3
Rh	102.9	170324.8	170324.804	1372.464	0.8
In	114.9	234972.6	234972.563	1929.394	0.8
Pb	208.0	237752.2	237752.248	2423.747	1.0
[> Ba	137.9	225503.8	225503.775	1300.803	0.6
[Ba++	69.0	3607.1	0.016	0.000	1.0
[> Ce	139.9	277260.6	277260.595	1748.070	0.6
[CeO	155.9	5905.0	0.021	0.000	1.9
Bkgd	220.0	20.5	20.500	3.571	17.4

Current Optimization File Data

Current Value	Description
0.87	Nebulizer Gas Flow
7.25	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
275.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	13	7.0	4285.0
Co	59	13	8.0	88894.1
In	115	13	8.8	222733.6

ICPMS #5 Instrument Tuning Report

File Name: default2.tun
File Path: c:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	584	2050	0.668
Be	9.0	9.0	2050	2075	0.629
Mg	24.0	24.0	5691	2080	0.604
Mg	25.0	25.0	5955	2080	0.659
Mg	26.0	26.0	6150	2080	0.641
Co	58.9	58.9	14185	2110	0.626
Rh	102.9	102.9	24870	2160	0.641
In	114.9	114.9	27796	2180	0.638
Ce	139.9	139.9	33868	2200	0.646
Pb	206.0	206.0	49948	2295	0.597
Pb	207.0	207.0	50171	2240	0.634
Pb	208.0	208.0	50451	2265	0.694
U	238.1	238.0	57725	2275	0.730

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 16, 2010 00:54:39

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soli.mth

Dataset File: C:\elandata\Dataset\100315\Blank.258

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9		ug/L			15
|> Sc	45		ug/L		311679	
[Ni	60		ug/L		103	
[> Ge	74		ug/L		357729	
| As	75		ug/L		-304	
| Se	77		ug/L		4136	
| Se	82		ug/L		19	
[Kr	83		ug/L		101	
[> Lu	175		ug/L		472364	
[Tl	205		ug/L		1765	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Linear Thru Zero	
Ni	60	Simple Linear	
Ge	74	Simple Linear	
As	75	Simple Linear	
Se	77	Simple Linear	
Se	82	Simple Linear	
Kr	83	Simple Linear	
Lu	175	Linear Thru Zero	
Tl	205	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
|> Sc	45					
[Ni	60					
[> Ge	74					
| As	75					
| Se	77					
| Se	82					
[Kr	83					
[> Lu	175					
[Tl	205					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Blank

Report Date/Time: Tuesday, March 16, 2010 00:55:18

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 16, 2010 00:58:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\Standard 1.259

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	10.000	ug/L	0.862	3794	0.012
> Sc	45		ug/L		320905	320905.377
[Ni	60	10.000	ug/L	0.197	12586	0.039
[> Ge	74		ug/L		362438	362438.365
| As	75	10.000	ug/L	3.020	9612	0.027
| Se	77		ug/L		4608	0.001
| Se	82	10.000	ug/L	1.641	984	0.003
[Kr	83		ug/L		100	-0.000
[> Lu	175		ug/L		477792	477792.272
[Tl	205	10.000	ug/L	2.081	200143	0.415

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45						
[Ni	60						
[> Ge	74						
| As	75						
| Se	77						
| Se	82						
[Kr	83						
[> Lu	175						
[Tl	205						

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 1

Report Date/Time: Tuesday, March 16, 2010 00:58:53

Page 1

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 16, 2010 01:01:51

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\Standard 2.260

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.971	ug/L	1.100	37327	0.114
> Sc	45		ug/L		326258	326258.072
[Ni	60	99.976	ug/L	2.477	123987	0.380
> Ge	74		ug/L		375975	375974.706
| As	75	99.973	ug/L	1.029	99891	0.267
| Se	77		ug/L		11957	0.020
| Se	82	100.020	ug/L	1.379	10230	0.027
[Kr	83		ug/L		138	0.000
> Lu	175		ug/L		482693	482693.420
[Tl	205	99.844	ug/L	1.104	1732790	3.586

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
> Sc	45					
[Ni	60					
> Ge	74					
| As	75					
| Se	77					
| Se	82					
[Kr	83					
> Lu	175					
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: Standard 2

Report Date/Time: Tuesday, March 16, 2010 01:02:28

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, March 16, 2010 01:05:26

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 1.261

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	52.836	ug/L	1.960	20150	0.060
[> Sc	45		ug/L		333157	333156.845
[Ni	60	54.209	ug/L	0.891	68703	0.206
[> Ge	74		ug/L		379532	379532.241
[As	75	51.043	ug/L	1.043	51325	0.136
[Se	77		ug/L		8773	0.012
[Se	82	53.255	ug/L	5.106	5505	0.014
[Kr	83		ug/L		113	0.000
[> Lu	175		ug/L		484247	484247.188
[Tl	205	54.131	ug/L	1.010	943352	1.944

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[Be	9	105.673					
[> Sc	45		106.9				
[Ni	60	108.417					
[> Ge	74		106.1				
[As	75	102.086					
[Se	77						
[Se	82	106.509					
[Kr	83						
[> Lu	175		102.5				
[Tl	205	108.261					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 1

Report Date/Time: Tuesday, March 16, 2010 01:06:04

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ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, March 16, 2010 01:09:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 2.262

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.006	ug/L	165.281	18	0.000
[> Sc	45		ug/L		329554	329553.790
[Ni	60	-0.024	ug/L	29.875	79	-0.000
[> Ge	74		ug/L		373344	373343.551
[As	75	0.010	ug/L	2830.107	-307	0.000
[Se	77		ug/L		4970	0.002
[Se	82	-0.058	ug/L	524.524	14	-0.000
[Kr	83		ug/L		130	0.000
[> Lu	175		ug/L		476362	476361.527
[Tl	205	0.214	ug/L	9.021	5442	0.008

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		105.7				
[Ni	60						
[> Ge	74		104.4				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		100.8				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 2

Report Date/Time: Tuesday, March 16, 2010 01:09:44

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ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, March 16, 2010 01:12:42

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 3.263

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.545	ug/L	1.311	223	0.001
> Sc	45		ug/L		332238	332238.469
Ni	60	2.290	ug/L	3.303	2999	0.009
> Ge	74		ug/L		375739	375739.207
As	75	5.843	ug/L	5.720	5533	0.016
Se	77		ug/L		4965	0.002
Se	82	6.197	ug/L	3.645	652	0.002
Kr	83		ug/L		118	0.000
> Lu	175		ug/L		482194	482193.572
Tl	205	1.251	ug/L	1.842	23472	0.045

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	108.918					
> Sc	45		106.6				
Ni	60	114.525					
> Ge	74		105.0				
As	75	116.854					
Se	77						
Se	82	123.948					
Kr	83						
> Lu	175		102.1				
Tl	205	125.109					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 3

Report Date/Time: Tuesday, March 16, 2010 01:13:20

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 16, 2010 01:16:18

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 4.264

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.112	ug/L	23.796	53	0.000
[> Sc	45		ug/L		298779	298779.325
[Ni	60	3.330	ug/L	4.616	3876	0.013
[> Ge	74		ug/L		343373	343372.760
[As	75	0.176	ug/L	325.429	-130	0.000
[Se	77		ug/L		5734	0.005
[Se	82	-1.340	ug/L	3.456	-107	-0.000
[Kr	83		ug/L		293	0.001
[> Lu	175		ug/L		436391	436390.617
[Tl	205	0.031	ug/L	25.030	2111	0.001

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		95.9				
[Ni	60	100.613					
[> Ge	74		96.0				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		92.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 4

Report Date/Time: Tuesday, March 16, 2010 01:16:57

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ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 16, 2010 01:19:55

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\anal soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 5.265

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	20.949	ug/L	1.547	7100	0.024
> Sc	45		ug/L		295682	295682.294
Li	60	24.303	ug/L	3.267	27380	0.092
> Ge	74		ug/L		340303	340303.039
As	75	22.351	ug/L	2.563	19983	0.060
Se	77		ug/L		7006	0.009
Se	82	20.542	ug/L	5.240	1915	0.006
Kr	83		ug/L		305	0.001
> Lu	175		ug/L		431374	431374.014
Tl	205	22.863	ug/L	1.964	355870	0.821

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9	104.746				
> Sc	45		94.9			
Li	60	104.259				
> Ge	74		95.1			
As	75	111.756				
Se	77					
Se	82	102.709				
Kr	83					
> Lu	175		91.3			
Tl	205	114.316				

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 5

Report Date/Time: Tuesday, March 16, 2010 01:20:34

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ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 16, 2010 01:23:33

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soll.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 6.266

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	53.551	ug/L	1.733	19257	0.061
> Sc	45		ug/L		314159	314158.696
Ni	60	53.864	ug/L	1.378	64363	0.205
> Ge	74		ug/L		369521	369521.407
As	75	50.904	ug/L	1.503	49832	0.136
Se	77		ug/L		8862	0.012
Se	82	51.591	ug/L	1.624	5195	0.014
Kr	83		ug/L		106	0.000
> Lu	175		ug/L		470867	470867.348
Tl	205	53.075	ug/L	3.369	899315	1.906

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	107.103					
> Sc	45		100.8				
Ni	60	107.727					
> Ge	74		103.3				
As	75	101.809					
Se	77						
Se	82	103.181					
Kr	83						
> Lu	175		99.7				
Tl	205	106.149					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 6

Report Date/Time: Tuesday, March 16, 2010 01:24:12

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ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 16, 2010 01:27:12

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 7.267

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.002	ug/L	513.190	16	0.000
> Sc	45		ug/L		316076	316075.972
Li	Ni	60	-0.007	133.429	96	-0.000
> Ge	74		ug/L		363849	363849.301
As	75	0.010	ug/L	2035.999	-298	0.000
Se	77		ug/L		5411	0.003
Se	82	-0.131	ug/L	157.687	7	-0.000
Kr	83		ug/L		113	0.000
> Lu	175		ug/L		465719	465719.050
Tl	205	0.282	ug/L	5.527	6453	0.010

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
Be	9						
> Sc	45		101.4				
Li	Ni	60					
> Ge	74		101.7				
As	75						
Se	77						
Se	82						
Kr	83						
> Lu	175		98.6				
Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 7

Report Date/Time: Tuesday, March 16, 2010 01:27:51

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ICPMS#5 - Summary Report

Sample ID: 1202047743

Sample Date/Time: Tuesday, March 16, 2010 01:30:51

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047743.268

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.002	ug/L	74.999	15	0.000
> Sc	45		ug/L		296226	296225.805
Ni	60	0.016	ug/L	25.030	116	0.000
> Ge	74		ug/L		334141	334141.479
As	75	0.177	ug/L	279.665	-126	0.000
Se	77		ug/L		4320	0.001
Se	82	-0.204	ug/L	22.735	-1	-0.000
Kr	83		ug/L		109	0.000
> Lu	175		ug/L		445721	445721.418
Tl	205	0.104	ug/L	8.916	3336	0.004

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % DI	Duplicate Rel. % Difference
Be	9					
> Sc	45		95.0			
Ni	60					
> Ge	74		93.4			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		94.4			
Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047743

Report Date/Time: Tuesday, March 16, 2010 01:31:31

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ICPMS#5 - Summary Report

Sample ID: 1202047748

Sample Date/Time: Tuesday, March 16, 2010 01:34:30

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 955147[40]baj

Method File: c:\elandata\Method\Nanl soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047748.269

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	22.623	ug/L	2.502	8135	0.026
[> Sc	45		ug/L		313745	313744.995
[Ni	60	41.137	ug/L	1.814	49118	0.156
[> Ge	74		ug/L		356157	356156.991
[As	75	30.247	ug/L	1.575	28414	0.081
[Se	77		ug/L		10967	0.019
[Se	82	82.555	ug/L	2.901	8002	0.022
[Kr	83		ug/L		112	0.000
[> Lu	175		ug/L		454903	454902.638
[Tl	205	38.444	ug/L	2.042	629814	1.381

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		100.7				
[Ni	60						
[> Ge	74		99.6				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		96.3				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047748

Report Date/Time: Tuesday, March 16, 2010 01:35:10

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ICPMS#5 - Summary Report

Sample ID: 1202047744

Sample Date/Time: Tuesday, March 16, 2010 01:41:49

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047744.271

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	1.131	ug/L	5.083	443	0.001
|> Sc	45		ug/L		330008	330008.460
[Ni	60	11.493	ug/L	1.116	14513	0.044
[> Ge	74		ug/L		333201	333200.768
| As	75	3.588	ug/L	8.346	2904	0.010
| Se	77		ug/L		3939	0.000
| Se	82	0.648	ug/L	6.042	76	0.000
[Kr	83		ug/L		182	0.000
[> Lu	175		ug/L		469508	469507.853
[Tl	205	0.369	ug/L	5.218	7974	0.013

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
|> Sc	45		105.9				
[Ni	60						
[> Ge	74		93.1				
| As	75						
| Se	77						
| Se	82						
[Kr	83						
[> Lu	175		99.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047744

Report Date/Time: Tuesday, March 16, 2010 01:42:29

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ICPMS#5 - Summary Report

Sample ID: 1202047746

Sample Date/Time: Tuesday, March 16, 2010 01:45:29

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047746.272

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	25.878	ug/L	2.087	9756	0.030
[> Sc	45		ug/L		329078	329077.682
[Ni	60	34.722	ug/L	1.670	43499	0.132
[> Ge	74		ug/L		329544	329543.965
[As	75	44.086	ug/L	1.247	38456	0.118
[Se	77		ug/L		4580	0.002
[Se	82	10.065	ug/L	2.934	918	0.003
[Kr	83		ug/L		208	0.000
[> Lu	175		ug/L		468844	468843.816
[Tl	205	55.053	ug/L	0.591	928924	1.978

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		105.6			
[Ni	60					
[> Ge	74		92.1			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		99.3			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047746

Report Date/Time: Tuesday, March 16, 2010 01:46:08

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ICPMS#5 - Summary Report

Sample ID: 1202047747

Sample Date/Time: Tuesday, March 16, 2010 01:49:08

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 955147|2|ba|

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047747.273

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	25.812	ug/L	2.600	9306	0.030
> Sc	45		ug/L		314663	314663.045
[Ni	60	35.838	ug/L	2.783	42925	0.136
> Ge	74		ug/L		318768	318768.315
[As	75	43.594	ug/L	1.202	36779	0.116
| Se	77		ug/L		4199	0.002
| Se	82	10.129	ug/L	3.092	894	0.003
[Kr	83		ug/L		177	0.000
> Lu	175		ug/L		459886	459885.511
[Tl	205	54.870	ug/L	0.858	908060	1.971

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
> Sc	45		101.0				
[Ni	60						
> Ge	74		89.1				
[As	75						
| Se	77						
| Se	82						
[Kr	83						
> Lu	175		97.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047747

Report Date/Time: Tuesday, March 16, 2010 01:49:48

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ICPMS#5 - Summary Report

Sample ID: 1202047745

Sample Date/Time: Tuesday, March 16, 2010 01:52:48

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 955147|10|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\1202047745.274

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.230		ug/L	8.240	91	0.000
>	Sc	45			ug/L		290281	290281.212
[	Ni	60	1.946		ug/L	1.186	2241	0.007
>	Ge	74			ug/L		328748	328748.281
|	As	75	0.385		ug/L	30.949	58	0.001
|	Se	77			ug/L		4535	0.002
|	Se	82	-0.010		ug/L	2778.652	17	-0.000
[	Kr	83			ug/L		112	0.000
>	Lu	175			ug/L		432125	432124.955
|	Tl	205	0.039		ug/L	6.058	2215	0.001

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000
Ge	74	Linear Thru Zero	
As	75	Linear Thru Zero	1.0000
Se	77	Linear Thru Zero	
Se	82	Linear Thru Zero	1.0000
Kr	83	Linear Thru Zero	
Lu	175	Linear Thru Zero	
Tl	205	Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
> Sc	45		93.1			
Li	60					
> Ge	74		91.9			
As	75					
Se	77					
Se	82					
Kr	83					
> Lu	175		91.5			
Tl	205					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 1202047745

Report Date/Time: Tuesday, March 16, 2010 01:53:28

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 16, 2010 02:00:06

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 8.276

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	55.375	ug/L	4.050	18948	0.063
> Sc	45		ug/L		299071	299070.766
Ni	60	55.256	ug/L	2.754	62840	0.210
> Ge	74		ug/L		353307	353307.063
As	75	51.584	ug/L	1.275	48290	0.138
Se	77		ug/L		8117	0.011
Se	82	52.085	ug/L	1.986	5015	0.014
Kr	83		ug/L		113	0.000
> Lu	175		ug/L		454043	454042.810
Tl	205	54.265	ug/L	2.302	886536	1.949

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9	110.749				
> Sc	45		96.0			
Ni	60	110.512				
> Ge	74		98.8			
As	75	103.168				
Se	77					
Se	82	104.169				
Kr	83					
> Lu	175		96.1			
Tl	205	108.529				

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
QC Std 8	Be	9CCV is out of limits (+/- 10%)
QC Std 8	Ni	60CCV is out of limits (+/- 10%)

QC Action

QC Action Line: Continue

Sample ID: QC Std 8

Report Date/Time: Tuesday, March 16, 2010 02:00:45

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ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, March 16, 2010 02:03:45

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 9.277

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.011	ug/L	134.606	18	0.000
[> Sc	45		ug/L		294836	294836.392
[Ni	60	-0.005	ug/L	314.239	91	-0.000
[> Ge	74		ug/L		343506	343505.911
[As	75	0.334	ug/L	57.011	13	0.001
[Se	77		ug/L		4593	0.002
[Se	82	-0.408	ug/L	35.709	-20	-0.000
[Kr	83		ug/L		117	0.000
[> Lu	175		ug/L		445764	445764.335
[Tl	205	0.207	ug/L	4.769	4975	0.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		94.6				
[Ni	60						
[> Ge	74		96.0				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		94.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte

MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, March 16, 2010 02:04:25

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ICPMS#5 - Summary Report

Sample ID: 247359001

Sample Date/Time: Tuesday, March 16, 2010 02:25:44

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\lanl soil.mth

Dataset File: C:\elandata\Dataset\100315\247359001.283

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	1.736	ug/L	1.164	615	0.002
[> Sc	45		ug/L		302176	302175.829
[Ni	60	17.107	ug/L	1.097	19731	0.065
[> Ge	74		ug/L		301743	301743.401
[As	75	6.270	ug/L	7.995	4787	0.017
[Se	77		ug/L		2697	-0.003
[Se	82	0.316	ug/L	105.980	42	0.000
[Kr	83		ug/L		153	0.000
[> Lu	175		ug/L		427071	427071.236
[Tl	205	0.341	ug/L	3.075	6827	0.012

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		97.0				
[Ni	60						
[> Ge	74		84.3				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		90.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247359001

Report Date/Time: Tuesday, March 16, 2010 02:26:24

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ICPMS#5 - Summary Report

Sample ID: 247359002

Sample Date/Time: Tuesday, March 16, 2010 02:29:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\ani soil.mth

Dataset File: C:\elandata\Dataset\100315\247359002.284

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.896	ug/L	3.239	312	0.001
[> Sc	45		ug/L		290108	290107.741
[Ni	60	10.506	ug/L	2.034	11671	0.040
[> Ge	74		ug/L		303993	303993.225
[As	75	3.852	ug/L	5.018	2865	0.010
[Se	77		ug/L		2681	-0.003
[Se	82	0.601	ug/L	38.724	66	0.000
[Kr	83		ug/L		113	0.000
[> Lu	175		ug/L		422886	422886.254
[Tl	205	0.177	ug/L	4.783	4268	0.006

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		93.1			
[Ni	60					
[> Ge	74		85.0			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		89.5			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247359002

Report Date/Time: Tuesday, March 16, 2010 02:30:05

Page 1

ICPMS#5 - Summary Report

Sample ID: 247359003

Sample Date/Time: Tuesday, March 16, 2010 02:33:05

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\ani soli.mth

Dataset File: C:\elandata\Dataset\100315\247359003.285

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	2.994	ug/L	2.315	1132	0.003
[> Sc	45		ug/L		325850	325850.443
[Ni	60	25.409	ug/L	2.633	31540	0.097
[> Ge	74		ug/L		298371	298370.564
[As	75	5.703	ug/L	2.008	4282	0.015
[Se	77		ug/L		2533	-0.003
[Se	82	0.018	ug/L	749.683	17	0.000
[Kr	83		ug/L		216	0.000
[> Lu	175		ug/L		431185	431184.797
[Tl	205	0.463	ug/L	2.076	8776	0.017

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[Be	9					
[> Sc	45		104.5			
[Ni	60					
[> Ge	74		83.4			
[As	75					
[Se	77					
[Se	82					
[Kr	83					
[> Lu	175		91.3			
[Tl	205					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247359003

Report Date/Time: Tuesday, March 16, 2010 02:33:45

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ICPMS#5 - Summary Report

Sample ID: 247359004

Sample Date/Time: Tuesday, March 16, 2010 02:36:45

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\Vanl soil.mth

Dataset File: C:\elandata\Dataset\100315\247359004.286

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	3.783	ug/L	1.479	1620	0.004
|> Sc	45		ug/L		370131	370130.549
[Ni	60	37.690	ug/L	1.857	53090	0.143
[> Ge	74		ug/L		310946	310945.822
| As	75	15.868	ug/L	3.412	12887	0.042
| Se	77		ug/L		2892	-0.002
| Se	82	-1.380	ug/L	9.358	-100	-0.000
[Kr	83		ug/L		311	0.001
[> Lu	175		ug/L		431714	431714.121
[Tl	205	0.866	ug/L	3.232	15040	0.031

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[Be	9						
|> Sc	45		118.8				
[Ni	60						
[> Ge	74		86.9				
| As	75						
| Se	77						
| Se	82						
[Kr	83						
[> Lu	175		91.4				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: 247359004

Report Date/Time: Tuesday, March 16, 2010 02:37:25

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ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 16, 2010 02:40:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 8.287

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	54.136	ug/L	0.601	18736	0.062
[> Sc	45		ug/L		302296	302295.922
[Ni	60	54.023	ug/L	2.381	62120	0.205
[> Ge	74		ug/L		350833	350833.443
[As	75	50.903	ug/L	1.311	47313	0.136
[Se	77		ug/L		7375	0.009
[Se	82	52.037	ug/L	2.528	4975	0.014
[Kr	83		ug/L		114	0.000
[> Lu	175		ug/L		455296	455296.424
[Tl	205	52.777	ug/L	2.771	864323	1.896

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[Be	9	108.273					
[> Sc	45		97.0				
[Ni	60	108.045					
[> Ge	74		98.1				
[As	75	101.806					
[Se	77						
[Se	82	104.073					
[Kr	83						
[> Lu	175		96.4				
[Tl	205	105.554					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 8

Report Date/Time: Tuesday, March 16, 2010 02:41:02

Page 1

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, March 16, 2010 02:44:02

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\VanI soil.mth

Dataset File: C:\elandata\Dataset\100315\QC Std 9.288

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[Be	9	0.030	ug/L	18.362	24	0.000
[> Sc	45		ug/L		289736	289736.394
[Ni	60	0.002	ug/L	441.449	98	0.000
[> Ge	74		ug/L		335542	335541.666
[As	75	0.217	ug/L	140.028	-93	0.001
[Se	77		ug/L		3914	0.000
[Se	82	-0.052	ug/L	199.615	13	-0.000
[Kr	83		ug/L		104	0.000
[> Lu	175		ug/L		439446	439446.168
[Tl	205	0.182	ug/L	9.193	4514	0.007

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000
Ge	74Linear Thru Zero	
As	75Linear Thru Zero	1.0000
Se	77Linear Thru Zero	
Se	82Linear Thru Zero	1.0000
Kr	83Linear Thru Zero	
Lu	175Linear Thru Zero	
Tl	205Linear Thru Zero	0.9999

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[Be	9						
[> Sc	45		93.0				
[Ni	60						
[> Ge	74		93.8				
[As	75						
[Se	77						
[Se	82						
[Kr	83						
[> Lu	175		93.0				
[Tl	205						

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Sample ID: QC Std 9

Report Date/Time: Tuesday, March 16, 2010 02:44:42

Page 1

ICPMS #5 Daily Performance Report

Sample ID: Sample

Sample Date/Time: Tuesday, March 16, 2010 16:52:51

Sample Description:

Method File: c:\elandata\Method\Daily2.mth

Dataset File: c:\elandata\Dataset\default\Sample.797

Tuning File: c:\elandata\Tuning\default2.tun

Optimization File: c:\elandata\Optimize\default.dac

Dual Detector Mode: Pulse

Acq. Dead Time(ns): 35

Current Dead Time (ns): 35

Number of Replicates: 5

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Be	9.0		3874.3		3874.325		83.806		2.2
Mg	24.0		49595.7		49595.744		262.158		0.5
Co	58.9		79336.9		79336.908		762.505		1.0
Rh	102.9		147901.5		147901.494		788.630		0.5
In	114.9		194334.3		194334.287		704.680		0.4
Pb	208.0		208713.3		208713.311		2128.318		1.0
[> Ba	137.9		193490.9		193490.894		1213.801		0.6
[Ba++	69.0		3240.4		0.017		0.000		1.5
[> Ce	139.9		232921.8		232921.783		1891.373		0.8
[CeO	155.9		5836.7		0.025		0.000		1.9
Bkgd	220.0		12.6		12.600		1.782		14.1

Current Optimization File Data

Current Value	Description
0.88	Nebulizer Gas Flow
6.75	Lens Voltage
1450.00	ICP RF Power
-1750.00	Analog Stage Voltage
1250.00	Pulse Stage Voltage
425.00	Discriminator Threshold
-6.00	AC Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	19	7.0	5026.9
Co	59	19	7.5	85138.3
In	115	19	8.5	216543.8

ICPMS #5 Instrument Tuning Report

File Name: 100221.tun
File Path: C:\elandata\Tuning

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width
He	3.0	3.0	590	2072	0.619
Be	9.0	9.0	2049	2088	0.613
Mg	24.0	24.0	5683	2100	0.576
Mg	25.0	25.0	5935	2100	0.578
Mg	26.0	26.0	6174	2100	0.593
Co	58.9	58.9	14189	2125	0.597
Rh	102.9	102.9	24872	2180	0.587
In	114.9	114.9	27786	2200	0.586
Ce	139.9	139.9	33870	2220	0.596
Pb	206.0	206.0	49948	2305	0.628
Pb	207.0	207.0	50159	2240	0.641
Pb	208.0	208.0	50463	2265	0.723
U	238.1	238.0	57720	2275	0.760

ICPMS#5 - Summary Report

Sample ID: Blank

Sample Date/Time: Tuesday, March 16, 2010 17:58:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\Blank.435

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9		ug/L		17	
Sc	45		ug/L		347046	
Ni	60		ug/L		239	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Simple Linear	
Sc	45	Linear Thru Zero	
Ni	60	Simple Linear	

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45					
Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 1

Sample Date/Time: Tuesday, March 16, 2010 18:00:24

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\Standard 1.436

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	10.000	ug/L	1.645	4140	0.012
|>	Sc	45		ug/L		342320	342319.575
[	Ni	60	10.000	ug/L	1.536	15292	0.044

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
>	Sc	45						
[Ni	60						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: Standard 2

Sample Date/Time: Tuesday, March 16, 2010 18:02:04

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\Standard 2.437

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	99.957	ug/L	1.664	39539	0.116
Sc	45		ug/L		342224	342224.424
Ni	60	99.952	ug/L	3.176	143818	0.420

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dif	Duplicate Rel. % Difference
Be	9					
Sc	45					
Ni	60					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 1

Sample Date/Time: Tuesday, March 16, 2010 18:03:44

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 1.438

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	50.924	ug/L	1.215	20236	0.059
|>	Sc	45		ug/L		343631	343631.342
[	Ni	60	51.319	ug/L	1.418	74280	0.216

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	101.847				
|>	Sc	45		99.0			
[	Ni	60	102.638				

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 2

Sample Date/Time: Tuesday, March 16, 2010 18:05:27

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 2.439

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.000	ug/L	5480.712	17	0.000
Sc	45		ug/L		353404	353403.661
Ni	60	0.010	ug/L	40.137	258	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
Be	9						
Sc	45		101.8				
Ni	60						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 3

Sample Date/Time: Tuesday, March 16, 2010 18:07:10

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 3.440

Concentration Results

	Analyte	Mass	Conc.	Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.538		ug/L	5.203	238	0.001
>	Sc	45			ug/L		355284	355284.026
]	Ni	60	2.136		ug/L	5.127	3431	0.009

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	107.597					
>	Sc	45		102.4				
]	Ni	60	106.823					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 4

Sample Date/Time: Tuesday, March 16, 2010 18:08:52

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 4.441

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.082	ug/L	14.172	45	0.000
|>	Sc	45		ug/L		311454	311454.032
[	Ni	60	3.174	ug/L	2.071	4366	0.013

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		89.7				
[	Ni	60	95.897					

QC Out Of Limits

Measurement Type Analyte MassOut of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 5

Sample Date/Time: Tuesday, March 16, 2010 18:10:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 5.442

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	20.327	ug/L	0.359	7075	0.023
Sc	45		ug/L		300564	300564.016
Ni	60	23.359	ug/L	1.581	29685	0.098

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9	101.637					
Sc	45		86.6				
Ni	60	100.210					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 16, 2010 18:12:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 6.443

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	53.332	ug/L	1.576	19738	0.062
>	Sc	45		ug/L		320055	320054.615
]	Ni	60	52.835	ug/L	2.576	71211	0.222

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	106.665					
>	Sc	45		92.2				
]	Ni	60	105.669					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 16, 2010 18:14:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 7.444

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.006	ug/L	160.198	18	0.000
Sc	45		ug/L		326664	326664.028
Ni	60	0.014	ug/L	72.265	245	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		94.1				
Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047743

Sample Date/Time: Tuesday, March 16, 2010 18:15:45

Sample Type:

Sample Description: LANL 6020 MB

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047743.445

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.006	ug/L	57.739	16	-0.000
Sc	45		ug/L		389835	389835.038
Ni	60	-0.119	ug/L	3.374	74	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
Be	9						
Sc	45		112.3				
Ni	60						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047748

Sample Date/Time: Tuesday, March 16, 2010 18:17:29

Sample Type:

Sample Description: LANL 6020 LCS

Number of Replicates: 3

Batch ID: 955147|40|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047748.446

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	22.724	ug/L	1.853	8840	0.026
>	Sc	45		ug/L		336054	336054.393
[	Ni	60	41.251	ug/L	1.654	58438	0.173

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
>	Sc	45		96.8				
[Ni	60						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047744

Sample Date/Time: Tuesday, March 16, 2010 18:20:58

Sample Type:

Sample Description: LANL 6020 DUP

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047744.448

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.940	ug/L	3.591	432	0.001
|>	Sc	45		ug/L		381157	381157.065
[	Ni	60	10.271	ug/L	0.930	16703	0.043

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		109.8			
[Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047746

Sample Date/Time: Tuesday, March 16, 2010 18:22:43

Sample Type:

Sample Description: LANL 6020 MS

Number of Replicates: 3

Batch ID: 955147[2]ba]

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047746.449

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	24.293	ug/L	1.039	10516	0.028
|>	Sc	45		ug/L		373955	373954.650
[	Ni	60	32.524	ug/L	0.766	51330	0.137

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		107.8			
[Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047747

Sample Date/Time: Tuesday, March 16, 2010 18:24:27

Sample Type:

Sample Description: LANL 6020 MSD

Number of Replicates: 3

Batch ID: 955147|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047747.450

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	24.105	ug/L	1.657	10181	0.028
|>	Sc	45		ug/L		364887	364887.329
[	Ni	60	33.359	ug/L	1.251	51364	0.140

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		105.1				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 1202047745

Sample Date/Time: Tuesday, March 16, 2010 18:26:12

Sample Type:

Sample Description: LANL 6020 SDILT

Number of Replicates: 3

Batch ID: 955147|10|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\1202047745.451

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.204	ug/L	7.570	96	0.000
|>	Sc	45		ug/L		337169	337168.632
[	Ni	60	1.755	ug/L	1.888	2717	0.007

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9					
|>	Sc	45		97.2			
[	Ni	60					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 16, 2010 18:29:41

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 8.453

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	52.240	ug/L	0.765	19883	0.060
|>	Sc	45		ug/L		329094	329094.077
[	Ni	60	52.619	ug/L	1.384	72944	0.221

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	104.480				
|>	Sc	45		94.8			
[	Ni	60	105.237				

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, March 16, 2010 18:31:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 9.454

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.002	ug/L	225.392	15	-0.000
Sc	45		ug/L		329840	329840.048
Ni	60	0.018	ug/L	20.068	252	0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel. % Difference
Be	9					
Sc	45		95.0			
Ni	60					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247359001

Sample Date/Time: Tuesday, March 16, 2010 18:41:55

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\247359001.460

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	1.555	ug/L	9.239	653	0.002
> Sc	45		ug/L		354232	354232.039
Ni	60	16.042	ug/L	0.946	24106	0.067

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
> Sc	45		102.1				
Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247359002

Sample Date/Time: Tuesday, March 16, 2010 18:43:40

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\247359002.461

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	0.885	ug/L	3.090	366	0.001
Sc	45		ug/L		341978	341978.139
Ni	60	10.268	ug/L	1.760	14980	0.043

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		98.5			
Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247359003

Sample Date/Time: Tuesday, March 16, 2010 18:45:25

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|2|baj

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\247359003.462

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	2.875	ug/L	0.380	1302	0.003
|>	Sc	45		ug/L		386374	386374.119
[	Ni	60	24.714	ug/L	1.247	40368	0.104

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		111.3				
[Ni	60						

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 16, 2010 18:48:54

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 8.464

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	47.789	ug/L	0.754	19848	0.055
|>	Sc	45		ug/L		359073	359073.228
[	Ni	60	48.487	ug/L	1.269	73362	0.204

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	95.578					
|>	Sc	45		103.5				
[	Ni	60	96.975					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, March 16, 2010 18:50:38

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 9.465

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.008	ug/L	44.553	14	-0.000
Sc	45		ug/L		354026	354025.661
Ni	60	-0.003	ug/L	369.610	239	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
Be	9						
Sc	45		102.0				
Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 8

Sample Date/Time: Tuesday, March 16, 2010 19:07:34

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 8.475

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.413	ug/L	1.344	19232	0.057
>	Sc	45		ug/L		336531	336530.542
[	Ni	60	48.798	ug/L	1.886	69181	0.205

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
[	Be	9	98.826				
>	Sc	45		97.0			
[	Ni	60	97.595				

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 9

Sample Date/Time: Tuesday, March 16, 2010 19:09:17

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 9.476

Concentration Results

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
Be	9	-0.001	ug/L	1501.532	16	-0.000
Sc	45		ug/L		338839	338838.554
Ni	60	0.003	ug/L	324.319	238	0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel. % Difference
Be	9					
Sc	45		97.6			
Ni	60					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 16, 2010 19:26:16

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 6.486

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	49.279	ug/L	0.807	19360	0.057
|>	Sc	45		ug/L		339695	339694.846
[	Ni	60	47.893	ug/L	1.711	68541	0.201

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	98.557					
|>	Sc	45		97.9				
[	Ni	60	95.786					

QC Out Of Limits

Measurement Type: Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 16, 2010 19:28:00

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 7.487

Concentration Results

	Analyte Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	-0.004 ug/L	86.171	15	-0.000
|>	Sc	45	ug/L		346835	346834.519
[	Ni	60	-0.015 ug/L	66.041	216	-0.000

Calibration

Analyte	MassCurve Type	Correlation Coefficient
Be	9Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	
Ni	60Linear Thru Zero	1.0000

QC Calculated Values

	Analyte Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9					
|>	Sc	45	99.9				
[Ni	60					

QC Out Of Limits

Measurement Type	Analyte	MassOut of Limits Message
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QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: 247359004

Sample Date/Time: Tuesday, March 16, 2010 19:32:41

Sample Type:

Sample Description: LANL 6020

Number of Replicates: 3

Batch ID: 955147|10|ba|

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\247359004.489

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.914	ug/L	3.678	378	0.001
| >	Sc	45		ug/L		342058	342057.881
|	Ni	60	9.157	ug/L	1.596	13389	0.038

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Di	Duplicate Rel.	% Difference
[	Be	9						
| >	Sc	45		98.6				
|	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 6

Sample Date/Time: Tuesday, March 16, 2010 19:34:25

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 6.490

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	48.491	ug/L	0.662	18855	0.056
|>	Sc	45		ug/L		336192	336192.240
[	Ni	60	47.881	ug/L	0.462	67831	0.201

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recov	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9	96.982					
|>	Sc	45		96.9				
[	Ni	60	95.762					

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

ICPMS#5 - Summary Report

Sample ID: QC Std 7

Sample Date/Time: Tuesday, March 16, 2010 19:36:09

Sample Type:

Sample Description:

Number of Replicates: 3

Batch ID:

Method File: c:\elandata\Method\be and ni.mth

Dataset File: c:\elandata\Dataset\100315\QC Std 7.491

Concentration Results

	Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[	Be	9	0.008	ug/L	52.557	19	0.000
|>	Sc	45		ug/L		337195	337194.564
[	Ni	60	-0.007	ug/L	68.378	223	-0.000

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
Be	9	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	
Ni	60	Linear Thru Zero	1.0000

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Dil	Duplicate Rel.	% Difference
[	Be	9						
|>	Sc	45		97.2				
[	Ni	60						

QC Out Of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC out of limits detected

Method Name: SOIL
 Method Description: 7471A, ILM04 ANALYST JXL1
 Element: Hg

Date: 03/04/2010
 Technique: FI-MHS
 Calibration Type:
 Hg, Calc. Intercept : Linear
 Wavelength: 253.7 nm
 Sample Info Name: 030410S1.SIF Results Data Set Name: 030410S1

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 03/04/2010
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0046	0.0046	10:02:27	No
2			0.0045	0.0045	10:03:02	No
Mean:			0.0046			
SD :			0.0001			
%RSD:			1.5609			

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 03/04/2010
 Sample ID: S0.2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0016	0.0062	10:04:24	No
2			0.0017	0.0063	10:04:58	No
Mean:			0.0017			
SD :			0.0001			
%RSD:			4.6700			

[Hg] Standard number 1 applied. [0.200]
 Correlation Coefficient: 1.00000 Slope: 0.00835
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 03/04/2010
 Sample ID: S0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0050	0.0095	10:06:21	No
2			0.0050	0.0095	10:06:56	No
Mean:			0.0050			
SD :			0.0000			
%RSD:			0.2174			

[Hg] Standard number 2 applied. [0.500]
 Correlation Coefficient: 0.99736 Slope: 0.01004
 Intercept : -0.00013

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 03/04/2010
 Sample ID: S2.0

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1			0.0215	0.0261	10:08:21	No
2			0.0210	0.0255	10:08:55	No
Mean:			0.0213			
SD :			0.0004			
%RSD:			1.8691			

[Hg] Standard number 3 applied. [2.000]

Correlation Coefficient: 0.99977
Intercept : -0.00027

Slope: 0.01074

=====

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 03/04/2010
Sample ID: S5.0

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0518	0.0563	10:10:21	No
2			0.0514	0.0560	10:10:56	No
Mean:			0.0516			
SD :			0.0002			
%RSD:			0.4780			

[Hg] Standard number 4 applied. [5.000]

Correlation Coefficient: 0.99986

Slope: 0.01038

Intercept : -0.00008

=====

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 03/04/2010
Sample ID: S10

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1			0.0998	0.1044	10:12:23	No
2			0.1015	0.1061	10:12:58	No
Mean:			0.1007			
SD :			0.0012			
%RSD:			1.2141			

[Hg] Standard number 5 applied. [10.00]

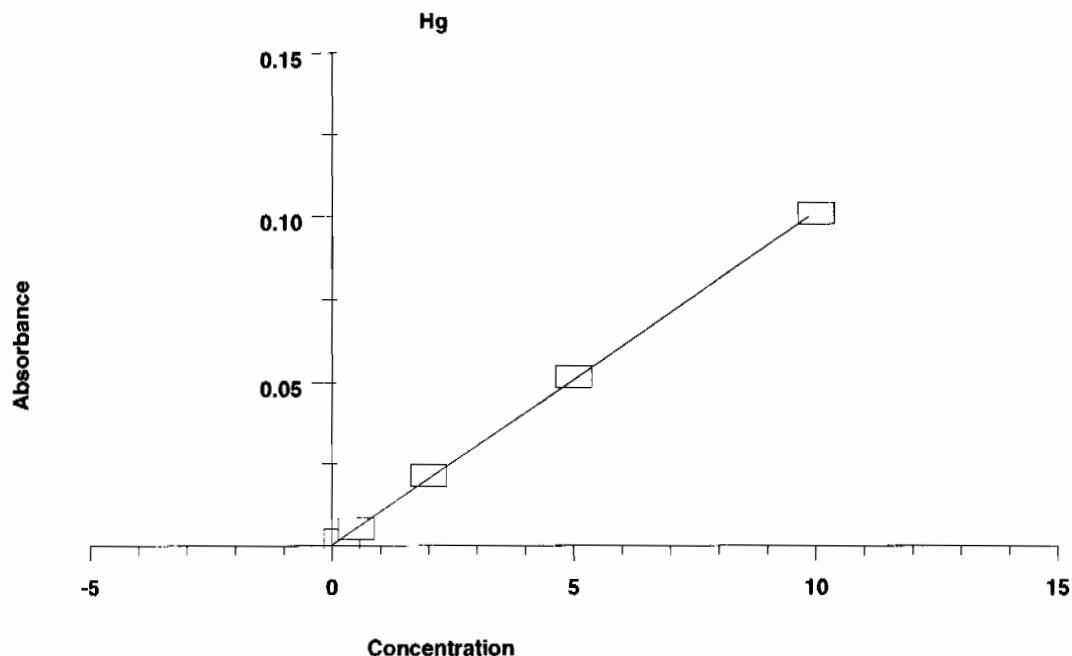
Correlation Coefficient: 0.99986

Slope: 0.01010

Intercept : 0.00023

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0046	---	---	---	---
S0.2	0.0017	0.200	0.143	0.0001	4.7
S0.5	0.0050	0.500	0.470	0.0000	0.2
S2.0	0.0213	2.000	2.081	0.0004	1.9
S5.0	0.0516	5.000	5.085	0.0002	0.5
S10	0.1007	10.000	9.944	0.0012	1.2
Correlation Coefficient: 0.99986		Slope:	0.01010	Intercept:	0.0002



=====
 Element: Hg Seq. No.: 7 AS Loc.: 9 Date: 03/04/2010
 Sample ID: ICV

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	5.134	5.134	0.0521	0.0566	10:14:27	No
2	5.223	5.223	0.0530	0.0575	10:15:01	No
Mean:	5.178	5.178	0.0525			
SD :	0.0629	0.0629	0.0006			
%RSD:	1.2	1.2	1.2095			

 QC value within specified limits.
 =====

=====
 Element: Hg Seq. No.: 8 AS Loc.: 10 Date: 03/04/2010
 Sample ID: ICB

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	-0.089	-0.089	-0.0007	0.0039	10:16:23	No
2	-0.095	-0.095	-0.0007	0.0038	10:16:58	No
Mean:	-0.092	-0.092	-0.0007			
SD :	0.0044	0.0044	0.0000			
%RSD:	4.8	4.8	6.2911			

 QC value within specified limits.
 =====

=====
 Element: Hg Seq. No.: 9 AS Loc.: 11 Date: 03/04/2010
 Sample ID: CRDL

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Height	Time	Peak Stored
1	0.194	0.194	0.0022	0.0067	10:18:20	No
2	0.192	0.192	0.0022	0.0067	10:18:55	No
Mean:	0.193	0.193	0.0022			
SD :	0.0016	0.0016	0.0000			
%RSD:	0.8	0.8	0.7348			

 =====

QC value within specified limits.

=====

Element: Hg Seq. No.: 10 AS Loc.: 7 Date: 03/04/2010

Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.305	5.305	0.0538	0.0584	10:20:20	No
2	5.214	5.214	0.0529	0.0575	10:20:56	No
Mean:	5.259	5.259	0.0534			
SD :	0.0642	0.0642	0.0006			
%RSD:	1.2	1.2	1.2161			

QC value within specified limits.

=====

Element: Hg Seq. No.: 11 AS Loc.: 8 Date: 03/04/2010

Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.015	-0.015	0.0001	0.0046	10:22:24	No
2	-0.023	-0.023	0.0000	0.0045	10:22:59	No
Mean:	-0.019	-0.019	0.0000			
SD :	0.0057	0.0057	0.0001			
%RSD:	29.7	29.7	165.1552			

QC value within specified limits.

=====

Element: Hg Seq. No.: 12 AS Loc.: 12 Date: 03/04/2010

Sample ID: 1202047351|i|954983|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.043	-0.043	-0.0002	0.0044	10:24:25	No
2	-0.066	-0.066	-0.0004	0.0041	10:25:00	No
Mean:	-0.054	-0.054	-0.0003			
SD :	0.0169	0.0169	0.0002			
%RSD:	31.1	31.1	53.0222			

=====

Element: Hg Seq. No.: 13 AS Loc.: 13 Date: 03/04/2010

Sample ID: 1202047352|i|10|LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.483	3.483	0.0354	0.0400	10:26:26	No
2	3.520	3.520	0.0358	0.0403	10:27:02	No
Mean:	3.501	3.501	0.0356			
SD :	0.0263	0.0263	0.0003			
%RSD:	0.7	0.7	0.7452			

=====

Element: Hg Seq. No.: 14 AS Loc.: 14 Date: 03/04/2010

Sample ID: 247195001|i||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.105	0.105	0.0013	0.0058	10:28:28	No
2	0.093	0.093	0.0012	0.0057	10:29:03	No
Mean:	0.099	0.099	0.0012			
SD :	0.0083	0.0083	0.0001			
%RSD:	8.3	8.3	6.7922			

=====

Element: Hg Seq. No.: 15 AS Loc.: 15 Date: 03/04/2010

Sample ID: 1202047353|i||DUP

%RSD: 1.7 1.7 1.6642

=====
 Element: Hg Seq. No.: 21 AS Loc.: 21 Date: 03/04/2010
 Sample ID: 247195004|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.377	0.377	0.0040	0.0086	10:42:17	No
2	0.378	0.378	0.0040	0.0086	10:42:52	No
Mean:	0.377	0.377	0.0040			
SD :	0.0010	0.0010	0.0000			
%RSD:	0.3	0.3	0.2570			

=====
 Element: Hg Seq. No.: 22 AS Loc.: 7 Date: 03/04/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.131	5.131	0.0521	0.0566	10:44:18	No
2	5.146	5.146	0.0522	0.0568	10:44:53	No
Mean:	5.139	5.139	0.0521			
SD :	0.0107	0.0107	0.0001			
%RSD:	0.2	0.2	0.2082			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 23 AS Loc.: 8 Date: 03/04/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0002	0.0048	10:46:21	No
2	-0.013	-0.013	0.0001	0.0046	10:46:55	No
Mean:	-0.007	-0.007	0.0002			
SD :	0.0085	0.0085	0.0001			
%RSD:	121.7	121.7	54.2400			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 24 AS Loc.: 22 Date: 03/04/2010
 Sample ID: 247195005|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.769	2.769	0.0282	0.0328	10:48:20	No
2	2.739	2.739	0.0279	0.0325	10:48:55	No
Mean:	2.754	2.754	0.0281			
SD :	0.0213	0.0213	0.0002			
%RSD:	0.8	0.8	0.7684			

=====
 Element: Hg Seq. No.: 25 AS Loc.: 23 Date: 03/04/2010
 Sample ID: 247195006|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.226	0.226	0.0025	0.0071	10:50:18	No
2	0.217	0.217	0.0024	0.0070	10:50:53	No
Mean:	0.221	0.221	0.0025			
SD :	0.0059	0.0059	0.0001			
%RSD:	2.6	2.6	2.4026			

=====
 Element: Hg Seq. No.: 26 AS Loc.: 24 Date: 03/04/2010
 Sample ID: 247195007|i|||

%RSD: 2.2 2.2 2.0958

=====

Element: Hg Seq. No.: 32 AS Loc.: 30 Date: 03/04/2010
 Sample ID: 247195013|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.233	0.233	0.0026	0.0071	11:04:20	No
2	0.228	0.228	0.0025	0.0071	11:04:56	No
Mean:	0.231	0.231	0.0026			
SD :	0.0037	0.0037	0.0000			
%RSD:	1.6	1.6	1.4689			

=====

Element: Hg Seq. No.: 33 AS Loc.: 31 Date: 03/04/2010
 Sample ID: 247195014|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	2.395	2.395	0.0244	0.0290	11:06:23	No
2	2.385	2.385	0.0243	0.0289	11:06:57	No
Mean:	2.390	2.390	0.0244			
SD :	0.0073	0.0073	0.0001			
%RSD:	0.3	0.3	0.3047			

=====

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 03/04/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.314	5.314	0.0539	0.0585	11:08:25	No
2	5.375	5.375	0.0545	0.0591	11:08:59	No
Mean:	5.344	5.344	0.0542			
SD :	0.0431	0.0431	0.0004			
%RSD:	0.8	0.8	0.8036			

QC value within specified limits.

=====

Element: Hg Seq. No.: 35 AS Loc.: 8 Date: 03/04/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.001	-0.001	0.0002	0.0048	11:10:27	No
2	-0.026	-0.026	0.0000	0.0045	11:11:02	No
Mean:	-0.014	-0.014	0.0001			
SD :	0.0175	0.0175	0.0002			
%RSD:	126.6	126.6	200.4262			

QC value within specified limits.

=====

Element: Hg Seq. No.: 36 AS Loc.: 32 Date: 03/04/2010
 Sample ID: 247195015|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.455	0.455	0.0048	0.0094	11:12:26	No
2	0.447	0.447	0.0047	0.0093	11:13:01	No
Mean:	0.451	0.451	0.0048			
SD :	0.0053	0.0053	0.0001			
%RSD:	1.2	1.2	1.1239			

=====

Element: Hg Seq. No.: 37 AS Loc.: 33 Date: 03/04/2010
 Sample ID: 1202055944|i||958641|MB

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      -0.078     -0.078    -0.0006   0.0040    11:14:21  No
2      -0.101     -0.101    -0.0008   0.0038    11:14:56  No
Mean:   -0.089     -0.089    -0.0007
SD :    0.0163     0.0163    0.0002
%RSD:   18.3       18.3      24.5182
-----

```

```

=====
Element: Hg      Seq. No.: 38      AS Loc.: 34      Date: 03/04/2010
Sample ID: 1202055945|i|10||LCS
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      4.337      4.337     0.0440    0.0486    11:16:16  No
2      4.205      4.205     0.0427    0.0473    11:16:51  No
Mean:   4.271      4.271     0.0434
SD :    0.0934     0.0934    0.0009
%RSD:   2.2        2.2        2.1761
-----

```

```

=====
Element: Hg      Seq. No.: 39      AS Loc.: 35      Date: 03/04/2010
Sample ID: 247359001|i|||
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.831      0.831     0.0086    0.0132    11:18:13  No
2      0.822      0.822     0.0085    0.0131    11:18:48  No
Mean:   0.826      0.826     0.0086
SD :    0.0062     0.0062    0.0001
%RSD:   0.8        0.8        0.7305
-----

```

```

=====
Element: Hg      Seq. No.: 40      AS Loc.: 36      Date: 03/04/2010
Sample ID: 1202055946|i|||DUP
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      0.660      0.660     0.0069    0.0114    11:20:09  No
2      0.672      0.672     0.0070    0.0116    11:20:44  No
Mean:   0.666      0.666     0.0070
SD :    0.0083     0.0083    0.0001
%RSD:   1.2        1.2        1.2021
-----

```

```

=====
Element: Hg      Seq. No.: 41      AS Loc.: 37      Date: 03/04/2010
Sample ID: 1202055947|i|||MS
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      3.150      3.150     0.0320    0.0366    11:22:06  No
2      3.071      3.071     0.0312    0.0358    11:22:40  No
Mean:   3.110      3.110     0.0316
SD :    0.0558     0.0558    0.0006
%RSD:   1.8        1.8        1.7813
-----

```

```

=====
Element: Hg      Seq. No.: 42      AS Loc.: 38      Date: 03/04/2010
Sample ID: 1202055949|i|||MSD
-----

```

```

Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height    Stored
1      2.953      2.953     0.0301    0.0346    11:24:02  No
2      2.930      2.930     0.0298    0.0344    11:24:36  No
Mean:   2.941      2.941     0.0299
SD :    0.0161     0.0161    0.0002
-----

```

%RSD: 0.5 0.5 0.5416

=====
 Element: Hg Seq. No.: 43 AS Loc.: 39 Date: 03/04/2010
 Sample ID: 1202055948|i|5||SDILT

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.041	0.041	0.0006	0.0052	11:26:00	No
2	0.018	0.018	0.0004	0.0050	11:26:35	No
Mean:	0.030	0.030	0.0005			
SD :	0.0156	0.0156	0.0002			
%RSD:	53.0	53.0	30.0388			

=====
 Element: Hg Seq. No.: 44 AS Loc.: 40 Date: 03/04/2010
 Sample ID: 247359002|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.743	0.743	0.0077	0.0123	11:27:58	No
2	0.742	0.742	0.0077	0.0123	11:28:33	No
Mean:	0.743	0.743	0.0077			
SD :	0.0008	0.0008	0.0000			
%RSD:	0.1	0.1	0.1005			

=====
 Element: Hg Seq. No.: 45 AS Loc.: 41 Date: 03/04/2010
 Sample ID: 247359003|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.101	0.101	0.0012	0.0058	11:29:58	No
2	0.100	0.100	0.0012	0.0058	11:30:33	No
Mean:	0.100	0.100	0.0012			
SD :	0.0006	0.0006	0.0000			
%RSD:	0.6	0.6	0.5114			

=====
 Element: Hg Seq. No.: 46 AS Loc.: 7 Date: 03/04/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	5.237	5.237	0.0531	0.0577	11:31:58	No
2	5.320	5.320	0.0540	0.0585	11:32:33	No
Mean:	5.278	5.278	0.0535			
SD :	0.0582	0.0582	0.0006			
%RSD:	1.1	1.1	1.0971			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 47 AS Loc.: 8 Date: 03/04/2010
 Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.067	-0.067	-0.0004	0.0041	11:34:01	No
2	-0.056	-0.056	-0.0003	0.0042	11:34:36	No
Mean:	-0.061	-0.061	-0.0004			
SD :	0.0074	0.0074	0.0001			
%RSD:	12.0	12.0	18.9738			

QC value within specified limits.

=====
 Element: Hg Seq. No.: 48 AS Loc.: 42 Date: 03/04/2010
 Sample ID: 247359004|i|||

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.264      0.264      0.0029    0.0074    11:36:02    No
2      0.286      0.286      0.0031    0.0077    11:36:36    No
Mean:   0.275      0.275      0.0030
SD :    0.0155     0.0155     0.0002
%RSD:   5.7        5.7        5.2300

```

```

=====
Element: Hg      Seq. No.: 49      AS Loc.: 43      Date: 03/04/2010
Sample ID: 247463001|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.104      0.104      0.0013    0.0058    11:38:00    No
2      0.089      0.089      0.0011    0.0057    11:38:34    No
Mean:   0.097      0.097      0.0012
SD :    0.0108     0.0108     0.0001
%RSD:  11.2        11.2       9.0604

```

```

=====
Element: Hg      Seq. No.: 50      AS Loc.: 44      Date: 03/04/2010
Sample ID: 247463002|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.320      0.320      0.0035    0.0080    11:40:00    No
2      0.297      0.297      0.0032    0.0078    11:40:34    No
Mean:   0.308      0.308      0.0033
SD :    0.0156     0.0156     0.0002
%RSD:   5.1        5.1        4.7227

```

```

=====
Element: Hg      Seq. No.: 51      AS Loc.: 45      Date: 03/04/2010
Sample ID: 247463003|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.092      0.092      0.0012    0.0057    11:42:01    No
2      0.065      0.065      0.0009    0.0054    11:42:36    No
Mean:   0.078      0.078      0.0010
SD :    0.0195     0.0195     0.0002
%RSD:  24.9        24.9       19.3452

```

```

=====
Element: Hg      Seq. No.: 52      AS Loc.: 46      Date: 03/04/2010
Sample ID: 247463004|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.308      0.308      0.0033    0.0079    11:44:02    No
2      0.304      0.304      0.0033    0.0079    11:44:37    No
Mean:   0.306      0.306      0.0033
SD :    0.0029     0.0029     0.0000
%RSD:   0.9        0.9        0.8784

```

```

=====
Element: Hg      Seq. No.: 53      AS Loc.: 47      Date: 03/04/2010
Sample ID: 247463005|i|||

```

```

-----
Repl  SampleConc  StndConc  BlnkCorr  Peak      Time      Peak
#      µg/L       µg/L       Signal    Height              Stored
1      0.126      0.126      0.0015    0.0061    11:46:03    No
2      0.141      0.141      0.0017    0.0062    11:46:38    No
Mean:   0.134      0.134      0.0016
SD :    0.0108     0.0108     0.0001

```

%RSD: 8.1 8.1 6.9198

=====
 Element: Hg Seq. No.: 54 AS Loc.: 48 Date: 03/04/2010
 Sample ID: 247463006|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.156	0.156	0.0018	0.0064	11:48:01	No
2	0.141	0.141	0.0017	0.0062	11:48:36	No
Mean:	0.149	0.149	0.0017			
SD :	0.0104	0.0104	0.0001			
%RSD:	7.0	7.0	6.0706			

=====
 Element: Hg Seq. No.: 55 AS Loc.: 49 Date: 03/04/2010
 Sample ID: 247469001|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	110.0	110.0	1.1117	1.1163	11:49:56	No
Sample absorbance is greater than that of the highest standard.						
2	109.6	109.6	1.1070	1.1116	11:50:31	No
Sample absorbance is greater than that of the highest standard.						
Mean:	109.8	109.8	1.1094			
SD :	0.3298	0.3298	0.0033			
%RSD:	0.3	0.3	0.3003			
Sample absorbance is greater than that of the highest standard.						

=====
 Element: Hg Seq. No.: 56 AS Loc.: 50 Date: 03/04/2010
 Sample ID: 247469002|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	0.164	0.164	0.0019	0.0064	11:51:52	No
2	0.182	0.182	0.0021	0.0066	11:52:27	No
Mean:	0.173	0.173	0.0020			
SD :	0.0127	0.0127	0.0001			
%RSD:	7.3	7.3	6.4814			

=====
 Element: Hg Seq. No.: 57 AS Loc.: 51 Date: 03/04/2010
 Sample ID: 247469003|i|||

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	11.22	11.22	0.1136	0.1181	11:53:48	No
Sample absorbance is greater than that of the highest standard.						
2	11.16	11.16	0.1129	0.1175	11:54:23	No
Sample absorbance is greater than that of the highest standard.						
Mean:	11.19	11.19	0.1133			
SD :	0.0469	0.0469	0.0005			
%RSD:	0.4	0.4	0.4179			
Sample absorbance is greater than that of the highest standard.						

=====
 Element: Hg Seq. No.: 58 AS Loc.: 7 Date: 03/04/2010
 Sample ID: CCV

Repl #	SampleConc µg/L	StdndConc µg/L	BlndCorr Signal	Peak Height	Time	Peak Stored
1	5.264	5.264	0.0534	0.0580	11:55:47	No
2	5.374	5.374	0.0545	0.0591	11:56:21	No
Mean:	5.319	5.319	0.0540			
SD :	0.0774	0.0774	0.0008			
%RSD:	1.5	1.5	1.4491			

QC value within specified limits.

=====

Element: Hg Seq. No.: 59 AS Loc.: 8 Date: 03/04/2010
Sample ID: CCB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.022	-0.022	0.0000	0.0046	11:57:49	No
2	-0.040	-0.040	-0.0002	0.0044	11:58:24	No
Mean:	-0.031	-0.031	-0.0001			
SD :	0.0123	0.0123	0.0001			
%RSD:	39.8	39.8	146.9413			

QC value within specified limits.

=====

Element: Hg Seq. No.: 60 AS Loc.: 52 Date: 03/04/2010
Sample ID: 1202055896|i||958616|MB

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	-0.149	-0.149	-0.0013	0.0033	11:59:49	No
2	-0.128	-0.128	-0.0011	0.0035	12:00:24	No
Mean:	-0.139	-0.139	-0.0012			
SD :	0.0148	0.0148	0.0001			
%RSD:	10.7	10.7	12.7556			

=====

Element: Hg Seq. No.: 61 AS Loc.: 53 Date: 03/04/2010
Sample ID: 1202055897|i||10||LCS

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	3.996	3.996	0.0406	0.0451	12:01:46	No
2	3.898	3.898	0.0396	0.0442	12:02:21	No
Mean:	3.947	3.947	0.0401			
SD :	0.0695	0.0695	0.0007			
%RSD:	1.8	1.8	1.7501			

=====

Element: Hg Seq. No.: 62 AS Loc.: 54 Date: 03/04/2010
Sample ID: 247178001|i|||

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.180	0.180	0.0020	0.0066	12:03:43	No
2	0.179	0.179	0.0020	0.0066	12:04:19	No
Mean:	0.179	0.179	0.0020			
SD :	0.0003	0.0003	0.0000			
%RSD:	0.1	0.1	0.1293			

=====

Element: Hg Seq. No.: 63 AS Loc.: 55 Date: 03/04/2010
Sample ID: 1202055898|i|||DUP

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Height	Time	Peak Stored
1	0.308	0.308	0.0033	0.0079	12:05:42	No
2	0.295	0.295	0.0032	0.0078	12:06:17	No
Mean:	0.301	0.301	0.0033			
SD :	0.0089	0.0089	0.0001			
%RSD:	3.0	3.0	2.7561			

=====

Element: Hg Seq. No.: 64 AS Loc.: 56 Date: 03/04/2010
Sample ID: 1202055899|i|||MS

Miscellaneous

Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 955144.0

Analyst: Anthony Green

Method: SW846 3050B

Lab SOP: GL-MA-E-009 REV# 19

Instrument: BAL-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202047742	Metals Soil LCS SRM ICP/Hg	UI062540-1	.513	g
MS	1202047740	Metals Spike Mix I	UI100205-01	.25	mL
MS	1202047740	Metals Spike Mix II	UI100205-06	.25	mL
MSD	1202047741	Metals Spike Mix I	UI100205-01	.25	mL
MSD	1202047741	Metals Spike Mix II	UI100205-06	.25	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202047737 MB	25-FEB-2010 08:00:00	Soil	0.521	50	95.96929	
1202047742 LCS	25-FEB-2010 08:00:00	Soil	0.513	50	97.46589	
247321001	25-FEB-2010 08:00:00	Soil	0.502	50	99.60159	
1202047738 DUP (247321001)	25-FEB-2010 08:00:00	Soil	0.506	50	98.81423	
1202047739 SDILT (247321001)	25-FEB-2010 08:00:00	Soil	0.502	50	99.60159	
1202047740 MS (247321001)	25-FEB-2010 08:00:00	Soil	0.515	50	97.08738	
1202047741 MSD (247321001)	25-FEB-2010 08:00:00	Soil	0.528	50	94.69697	
247321002	25-FEB-2010 08:00:00	Soil	0.52	50	96.15385	
247321003	25-FEB-2010 08:00:00	Soil	0.514	50	97.27626	
247321004	25-FEB-2010 08:00:00	Soil	0.519	50	96.33911	
247321005	25-FEB-2010 08:00:00	Soil	0.533	50	93.80863	
247321006	25-FEB-2010 08:00:00	Soil	0.5	50	100	
247321007	25-FEB-2010 08:00:00	Soil	0.517	50	96.7118	
247359001	25-FEB-2010 08:00:00	Soil	0.554	50	90.25271	
247359002	25-FEB-2010 08:00:00	Soil	0.53	50	94.33962	
247359003	25-FEB-2010 08:00:00	Soil	0.535	50	93.45794	
247359004	25-FEB-2010 08:00:00	Soil	0.517	50	96.7118	

Reagent/Solvent Lot ID	Description	Amount	Comments:
1265209	HYDROCHLORIC ACID	10 mL	Sample 247321001 consist of light, gray soil.
1274969	Nitric Acid CONC.	1.25 mL	

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Prep Logbook

Acid Digestion of Sediments, Sludges, and Soils

Batch ID: 955146.0 Verified by: _____ Lab SOP: GL-MA-E-009 REV# 19
 Analyst: Anthony Green Instrument: BAL-001
 Method: SW846 3050B

Sample ID	Run Date	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check
1202047743 MB	25-FEB-2010 08:00:00	0.514	50	97.27626	
1202047748 LCS	25-FEB-2010 08:00:00	0.524	50	95.41985	
247321001	25-FEB-2010 08:00:00	0.503	50	99.40358	
1202047744 DUP (247321001)	25-FEB-2010 08:00:00	0.507	50	98.61933	
1202047745 SDILT (247321001)	25-FEB-2010 08:00:00	0.503	50	99.40358	
1202047746 MS (247321001)	25-FEB-2010 08:00:00	0.522	50	95.78544	
1202047747 MSD (247321001)	25-FEB-2010 08:00:00	0.525	50	95.2381	
247321002	25-FEB-2010 08:00:00	0.504	50	99.20635	
247321003	25-FEB-2010 08:00:00	0.529	50	94.51796	
247321004	25-FEB-2010 08:00:00	0.52	50	96.15385	
247321005	25-FEB-2010 08:00:00	0.527	50	94.87666	
247321006	25-FEB-2010 08:00:00	0.506	50	98.81423	
247321007	25-FEB-2010 08:00:00	0.501	50	99.8004	
247359001	25-FEB-2010 08:00:00	0.52	50	96.15385	
247359002	25-FEB-2010 08:00:00	0.504	50	99.20635	
247359003	25-FEB-2010 08:00:00	0.526	50	95.05703	
247359004	25-FEB-2010 08:00:00	0.543	50	92.08103	

Type	Sample Id	Description	Serial Number	Spike Amt	Units	Comments:
LCS	1202047748	Metals Soil LCS SRM ICPMS	UI062540-MS	.524	g	
MS	1202047746	ICP-MS Spike for soil products.	UI090827-A	.5	mL	Sample 247321001 consist of light, gray soil.
MS	1202047746	ICP-MS Spike for Soil Products	UI090827-B	.5	mL	
MSD	1202047747	ICP-MS Spike for soil products.	UI090827-A	.5	mL	
MSD	1202047747	ICP-MS Spike for Soil Products	UI090827-B	.5	mL	
REGNT	All	Hydrogen Peroxide 30%	1250038-02	1.5	mL	
REGNT	All	Nitric Acid CONC.	1274969	.5	mL	

Prep Logbook

Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Batch ID: 958639.0	Verified by:	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst: Tara Griffin		LCS	1202055945	Metals LCS Soil SRM	U1031809A	.204	g
Method: SW846 7471A Prep		MS	1202055947	Mercury soil working intermediate standard for MS	WHG100303-14	.3	mL
Lab SOP: GL-MA-E-010 REV# 23		MSD	1202055949	Mercury soil working intermediate standard for MS	WHG100303-14	.3	mL
Instrument: BAL-002							

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202055944 MB	03-MAR-2010 16:00:00	Soil	0.591	30	50.76142	
1202055945 LCS	03-MAR-2010 16:00:00	Soil	0.204	30	147.05882	
247359001	03-MAR-2010 16:00:00	Soil	0.545	30	55.04587	
1202055946 DUP (247359001)	03-MAR-2010 16:00:00	Soil	0.507	30	59.1716	
1202055947 MS (247359001)	03-MAR-2010 16:00:00	Soil	0.569	30	52.72408	
1202055949 MSD (247359001)	03-MAR-2010 16:00:00	Soil	0.584	30	51.36986	
1202055948 SDILT (247359001)	03-MAR-2010 16:00:00	Soil	0.545	30	55.04587	
247359002	03-MAR-2010 16:00:00	Soil	0.528	30	56.81818	
247359003	03-MAR-2010 16:00:00	Soil	0.551	30	54.44646	
247359004	03-MAR-2010 16:00:00	Soil	0.517	30	58.02708	
247463001	03-MAR-2010 16:00:00	Soil	0.513	30	58.47953	
247463002	03-MAR-2010 16:00:00	Soil	0.557	30	53.85996	
247463003	03-MAR-2010 16:00:00	Soil	0.569	30	52.72408	
247463004	03-MAR-2010 16:00:00	Soil	0.541	30	55.45287	
247463005	03-MAR-2010 16:00:00	Soil	0.563	30	53.28597	
247463006	03-MAR-2010 16:00:00	Soil	0.569	30	52.72408	
247469001	03-MAR-2010 16:00:00	Soil	0.53	30	56.60377	
247469002	03-MAR-2010 16:00:00	Soil	0.557	30	53.85996	
247469003	03-MAR-2010 16:00:00	Soil	0.539	30	55.65863	

Reagent/Solvent Lot ID	Description	Amount	Comments:
125532-C	Hg reducing agent	2 mL	Sample 247359001 is a moist dark brown soil.
1274391-I	NITRIC ACID	.375 mL	Digestion Start Date: 03-MAR-10 16:00
1277235-A	Hydrochloric Acid Conc.	1.125 mL	Digestion End Date: 03-MAR-10 16:30
1277238-C	5% KMnO4 solution	7.5 mL	
WHG100303-07	Mercury Working Standard 1st Source CAL S 0.2/CRA	30 uL	

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DATA EXCEPTION REPORT

Mo. Day Yr. 17-MAR-10	Division: Industrial	Quality Criteria: Specifications	Type: Process
Instrument Type: ICP	Test / Method: SW846 3050B/6010B	Matrix Type: Solid	Client Code: LANL
Batch ID: 955145	Sample Numbers: See Below		
Potentially affected work order(s)(SDG): 247321(10-1893),247359(10-1915) Application Issues: Failed Recovery for MS/PS Failed RPD for DUP Failed Recovery for MSD/PSD			
Specification and Requirements		DER Disposition:	
Exception Description: 1. Failed Recovery for MS/PS: QC 1202047740MS 2. Failed RPD for DUP: QC 1202047738DUP 3. Failed Recovery for MSD/PSD: QC 1202047741MSD		1/3. The matrix spike and matrix spike duplicate recovery failed outside of the control limits for aluminum, potassium and sodium due to possible matrix interferences and/or non-homogeneity. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported. 2. The sample and sample duplicate % RPD failed outside the control limits for chromium, magnesium and vanadium due to possible sample non-homogeneity and/or matrix interference. Per GEL's accredited methods and SOPs, a corrective action is not required and the data is qualified and reported.	

Originator's Name:

Helen Carnello 17-MAR-10

Data Validator/Group Leader:

Christopher Louviere 17-MAR-10

Standard Logbook

Serial ID: UHG1167639-01 **Opened:** 13-AUG-09 **Amount :** 125 mL
Name: MHGSTOCK1 **Received:** 13-AUG-09 **Catalog Number :** PLHG4-2Y
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 15-37HG
Employee: Bryan Davis **Solvent :** 10% HNO3
Supplier: Spex
Description: Mercury Source Standard #1 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	1000 mg/L		

Serial ID: UHG1167641-02 **Opened:** 13-AUG-09 **Amount :** 100 mL
Name: MHGSTOCK2 **Received:** 13-AUG-09 **Catalog Number :** AHG1KN-100
Type: Source Material **Expires:** 13-AUG-10 **Lot Number :** 4905530
Employee: Bryan Davis **Solvent :** 3% HNO3
Supplier: Ricca Chemical Company
Description: Mercury Source Standard #2 1,000 mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Mercury	999.7 mg/L		

Serial ID: UI031809A **Opened:** 18-MAR-09 **Catalog Number :** 540
Name: METALSOILSRM **Received:** 18-MAR-09 **Lot Number :** D061-540
Type: Source Material **Expires:** 10-OCT-10
Employee: Jamie Johnson
Supplier: ERA
Description: Metals LCS Soil SRM
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10600 mg/kg	Antimony	126 mg/kg
Arsenic	225 mg/kg	Barium	565 mg/kg
Beryllium	162 mg/kg	Boron	107 mg/kg
Cadmium	69.1 mg/kg	Calcium	10000 mg/kg
Chromium	124 mg/kg	Cobalt	115 mg/kg
Copper	66.7 mg/kg	Iron	17600 mg/kg
Lead	223 mg/kg	Magnesium	4260 mg/kg
Manganese	368 mg/kg	Mercury	5.15 mg/kg
Molybdenum	107 mg/kg	Nickel	172 mg/kg
Potassium	4090 mg/kg	Selenium	147 mg/kg
Silver	35.2 mg/kg	Sodium	538 mg/kg
Strontium	117 mg/kg	Thallium	173 mg/kg
Tin	164 mg/kg	Titanium	381 mg/kg
Vanadium	93.9 mg/kg	Zinc	349 mg/kg

Standard Logbook

Serial ID: UI062540-I **Opened:** 12-JUN-09 **Amount :** 80 g
Name: ICP SOIL SRM **Received:** 12-JUN-09 **Lot Number :** D062-540
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICP/Hg
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	173 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.7 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Magnesium	4000 mg/kg
Manganese	558 mg/kg	Mercury	8.46 mg/kg
Molybdenum	48.6 mg/kg	Nickel	134 mg/kg
Phosphorous	736 mg/kg	Potassium	4300 mg/kg
Selenium	286 mg/kg	Silica	2591 mg/kg
Silicon	1211 mg/kg	Silver	30.1 mg/kg
Sodium	1020 mg/kg	Strontium	227 mg/kg
Sulfur	385 mg/kg	Thallium	121 mg/kg
Tin	104 mg/kg	Titanium	462 mg/kg
Vanadium	115 mg/kg	Zinc	594 mg/kg

Serial ID: UI062540-MS **Opened:** 12-JUN-09 **Lot Number :** D062-540
Name: ICPMS SOIL SRM **Received:** 12-JUN-09
Type: Source Material **Expires:** 31-JAN-12
Employee: Bryan Davis
Supplier: ERA
Description: Metals Soil LCS SRM ICPMS
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	10500 mg/kg	Antimony	67.4 mg/kg
Arsenic	104 mg/kg	Barium	198 mg/kg
Beryllium	77.6 mg/kg	Boron	141 mg/kg
Cadmium	60.6 mg/kg	Calcium	9870 mg/kg
Chromium	236 mg/kg	Cobalt	91.2 mg/kg
Copper	174 mg/kg	Iron	18000 mg/kg
Lead	86 mg/kg	Lithium	10.6 mg/kg
Magnesium	4000 mg/kg	Manganese	558 mg/kg
Mercury	8.46 mg/kg	Molybdenum	48.6 mg/kg
Nickel	134 mg/kg	Phosphorous	755 mg/kg
Potassium	4300 mg/kg	Selenium	286 mg/kg
Silver	30.1 mg/kg	Sodium	1020 mg/kg

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Strontium	227 mg/kg	Thallium	121 mg/kg
Thorium	9.84 mg/kg	Tin	104 mg/kg
Titanium	462 mg/kg	Uranium	2.13 mg/kg
Uranium-235	.0153 mg/kg	Uranium-238	2.11 mg/kg
Vanadium	92.4 mg/kg	Zinc	594 mg/kg
Zirconium	10.6 mg/kg		

Serial ID: UI090421-40 **Opened:** 09-OCT-09 **Amount :** 250 mL
Name: TRACE ICP Na-1000SOUR **Received:** 21-APR-09 **Catalog Number :** HP100052-1
Type: Source Material **Expires:** 09-OCT-10 **Lot Number :** 0830227
Employee: Helen Camello **Solvent :** 1%HNO3
Supplier: ENVIRONMENTAL EXPRESS
Description: Sodium 1000 +/- 3 ug/mL in 1% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Sodium	1000 ug/mL		

Serial ID: UI090422-40 **Opened:** 04-MAY-09 **Amount :** 500 mL
Name: TRACE ICP ICSA SOLN A **Received:** 22-APR-09 **Catalog Number :** 160005-01-03
Type: Source Material **Expires:** 04-MAY-10 **Lot Number :** 1013357
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: o2si
Description: TRACE ICP ICSA SOLN A mg/L +/- 0.5% IN 5% HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	5000 mg/L	Calcium	5000 mg/L
Iron	2000 mg/L	Magnesium	5000 mg/L

Serial ID: UI090612-02 **Opened:** 12-JUN-09 **Catalog Number :** 060074-06-01
Name: ICPMS Tungsten - 10mg/L **Received:** 12-JUN-09 **Lot Number :** 1016377
Type: Source Material **Expires:** 12-JUN-10 **Solvent :** 2% HNO3
Employee: Paul Boyd
Supplier: O2SI
Description: ICPMS Tungsten standard SPIKE - 10mg/L
Comments: None

Analyte	Concentration	Analyte	Concentration
Tungsten	10 mg/L		

Standard Logbook

Serial ID: UI090701-09 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #1 **Received:** 01-JUL-09 **Catalog Number :** 160044-09-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016477
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Master Soln #1
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	15 mg/L	Arsenic	5 mg/L
Barium	2 mg/L	Beryllium	.5 mg/L
Boron	15 mg/L	Cadmium	1 mg/L
Calcium	100 mg/L	Chromium	3 mg/L
Cobalt	1 mg/L	Copper	1 mg/L
Iron	25 mg/L	Lead	2 mg/L
Lithium	10 mg/L	Magnesium	15 mg/L
Manganese	5 mg/L	Nickel	2 mg/L
Phosphorous	50 mg/L	Potassium	300 mg/L
Selenium	5 mg/L	Sodium	250 mg/L
Strontium	10 mg/L	Thallium	1 mg/L
Thorium	1 mg/L	Uranium	.2 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UI090701-10 **Opened:** 01-JUL-09 **Amount :** 250 mL
Name: ICP-MS CRDL Master #2 **Received:** 01-JUL-09 **Catalog Number :** 160044-08-02
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016476
Employee: Paul Boyd **Solvent :** +/- 0.5% IN 2% HNO3
Supplier: 02SI
Description: ICPMS CRDL Soln #2
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Molybdenum	.5 mg/L
Silver	1 mg/L	Tin	2 mg/L
Titanium	10 mg/L	Tungsten	5 mg/L
Zirconium	2 mg/L		

Serial ID: UI090701-40 **Opened:** 01-JUL-09 **Amount :** 500 mL
Name: TRACE ICP Stock PQL St **Received:** 30-JUN-09 **Catalog Number :** 160543-01-03
Type: Source Material **Expires:** 01-JUL-10 **Lot Number :** 1016475
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3+TrHF
Supplier: 02si
Description: TRACE ICP Stock PQL Standard
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Aluminum	100 mg/L	Antimony	5 mg/L
Arsenic	15 mg/L	Barium	2.5 mg/L
Beryllium	2.5 mg/L	Boron	25 mg/L
Cadmium	2.5 mg/L	Calcium	100 mg/L
Chromium	2.5 mg/L	Cobalt	2.5 mg/L
Copper	5 mg/L	Iron	50 mg/L
Lead	5 mg/L	Magnesium	150 mg/L
Manganese	5 mg/L	Molybdenum	5 mg/L
Nickel	2.5 mg/L	Phosphorous	75 mg/L
Potassium	75 mg/L	Selenium	15 mg/L
Silicon	50 mg/L	Silver	2.5 mg/L
Sodium	150 mg/L	Strontium	2.5 mg/L
Sulfur	50 mg/L	Thallium	10 mg/L
Tin	5 mg/L	Titanium	2.5 mg/L
Uranium	25 mg/L	Vanadium	2.5 mg/L
Zinc	5 mg/L		

Serial ID: UI090827-A **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for soil products.
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	200 mg/L	Arsenic	8 mg/L
Barium	5 mg/L	Beryllium	5 mg/L
Boron	10 mg/L	Cadmium	1 mg/L
Calcium	200 mg/L	Chromium	5 mg/L
Cobalt	5 mg/L	Copper	5 mg/L
Iron	200 mg/L	Lead	20 mg/L
Lithium	5 mg/L	Magnesium	200 mg/L
Manganese	5 mg/L	Nickel	5 mg/L
Phosphorus, Total as P	200 mg/L	Potassium	200 mg/L
Selenium	2 mg/L	Sodium	200 mg/L
Strontium	5 mg/L	Thallium	10 mg/L
Thorium	5 mg/L	Uranium	5 mg/L
Uranium-235	.036 mg/L	Uranium-238	4.964 mg/L
Vanadium	5 mg/L	Zinc	5 mg/L

Standard Logbook

Serial ID: UI090827-B **Opened:** 27-AUG-09 **Catalog Number :** 160067-03
Name: ICP-MS DOE SOIL SPIKE **Received:** 27-AUG-09 **Lot Number :** 1015749
Type: Source Material **Expires:** 27-AUG-10
Employee: Francena Armstrong
Supplier: 02si
Description: ICP-MS Spike for Soil Products
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	5 mg/L
Silicon	200 mg/L	Silver	5 mg/L
Tin	5 mg/L	Zirconium	5 mg/L

Serial ID: UI090925-40 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX38-500N
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909129
Employee: Helen Camello **Solvent :** 5%HNO3
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1A 5%HNO3
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Arsenic	100 mg/L
Barium	100 mg/L	Boron	100 mg/L
Cadmium	100 mg/L	Calcium	1000 mg/L
Chromium	100 mg/L	Cobalt	100 mg/L
Copper	100 mg/L	Iron	1000 mg/L
Lead	100 mg/L	Phosphorous	500 mg/L
Potassium	500 mg/L	Selenium	500 mg/L
Sodium	500 mg/L	Strontium	100 mg/L

Serial ID: UI090925-41 **Opened:** 23-OCT-09 **Amount :** 500 mL
Name: SECOND SOURCE STD -1 **Received:** 25-SEP-09 **Catalog Number :** SGELMX39-500B
Type: Source Material **Expires:** 30-SEP-10 **Lot Number :** 4909130
Employee: Helen Camello **Solvent :** 5%HNO3,TR.HF
Supplier: SPECTRO PURE
Description: SECOND SOURCE STD #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 mg/L	Beryllium	50 mg/L
Magnesium	1000 mg/L	Manganese	100 mg/L
Molybdenum	100 mg/L	Nickel	100 mg/L
Silver	50 mg/L	Sulfur	500 mg/L
Thallium	100 mg/L	Tin	100 mg/L
Titanium	100 mg/L	Uranium	100 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Vanadium	100 mg/L	Zinc	100 mg/L

Serial ID: UI091015-42 **Opened:** 28-OCT-09 **Amount :** 500 mL
Name: SI 1000mg/L **Received:** 15-OCT-09 **Catalog Number :** 060014-02-03
Type: Source Material **Expires:** 28-OCT-10 **Lot Number :** 1017581
Employee: Helen Camello **Solvent :** 0.3%H2O(NH4)2SiF6
Supplier: o2si
Description: Silicon 1000mg/L+/-0.3%in H2O(NH4)2SiF6
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091102-40 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1A SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-1-500
Type: Source Material **Expres:** 31-OCT-10 **Lot Number :** 0930215
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Std #1A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2000 mg/L	Arsenic	200 mg/L
Barium	200 mg/L	Beryllium	200 mg/L
Boron	200 mg/L	Cadmium	200 mg/L
Calcium	2000 mg/L	Chromium	200 mg/L
Cobalt	200 mg/L	Copper	200 mg/L
Iron	2000 mg/L	Lead	200 mg/L
Magnesium	2000 mg/L	Manganese	200 mg/L
Nickel	200 mg/L	Phosphorous	1000 mg/L
Potassium	2000 mg/L	Selenium	200 mg/L
Sodium	2000 mg/L	Strontium	200 mg/L
Thallium	200 mg/L	Uranium	200 mg/L
Vanadium	200 mg/L	Zinc	200 mg/L

Serial ID: UI091102-41 **Opened:** 16-NOV-09 **Amount :** 500 mL
Name: TRACE CALSTD#1B SOUF **Received:** 02-NOV-09 **Catalog Number :** HP2270-2-500
Type: Source Material **Expires:** 31-OCT-10 **Lot Number :** 0930216
Employee: Helen Camello **Solvent :** HNO3
Supplier: Environmental Express
Description: Trace Calibration Standard #1B
Comments: None

Analyte	Concentration	Analyte	Concentration
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Standard Logbook

Analyte	Concentration	Analyte	Concentration
Antimony	200 mg/L	Molybdenum	200 mg/L
Silver	200 mg/L	Sulfur	400 mg/L
Tin	200 mg/L	Titanium	200 mg/L

Serial ID: UI091102-42 **Opened:** 17-NOV-09 **Amount :** 200 mL
Name: SILICON **Received:** 02-NOV-09 **Catalog Number :** HP100050-4F
Type: Source Material **Expires:** 17-NOV-10 **Lot Number :** 0921924
Employee: Helen Camello **Solvent :** H2O/tr HF
Supplier: ENVIRONMENTAL EXPRESS
Description: SILICON 1000mg/L H2O/tr HF
Comments: None

Analyte	Concentration	Analyte	Concentration
Silica	2139 mg/L	Silicon	1000 mg/L

Serial ID: UI091217-06 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master A **Received:** 17-DEC-09 **Catalog Number :** 160055-01
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018209
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV SOLN A - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	2020 mg/L	Calcium	2000 mg/L
Iron	2000 mg/L	Magnesium	2000 mg/L
Phosphorous	2000 mg/L	Potassium	2000 mg/L
Sodium	2000 mg/L		

Serial ID: UI091217-07 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master B **Received:** 17-DEC-09 **Catalog Number :** 160054-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018210
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: 02SI
Description: ICPMS ICV/CCV Soln B - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	20 mg/L	Barium	20 mg/L
Beryllium	20 mg/L	Boron	40 mg/L
Cadmium	20 mg/L	Chromium	20 mg/L
Cobalt	20 mg/L	Copper	20 mg/L
Lead	20 mg/L	Lithium	20 mg/L
Manganese	20 mg/L	Nickel	20 mg/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Selenium	20 mg/L	Strontium	20 mg/L
Thallium	20 mg/L	Thorium	20 mg/L
Uranium	20 mg/L	Vanadium	20 mg/L
Zinc	20 mg/L		

Serial ID: UI091217-08 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICV/CCV Master C **Received:** 17-DEC-09 **Catalog Number :** 160054-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018211
Employee: Paul Boyd **Solvent :** +/- 0.5% in 5% HNO3 100 cm2
Supplier: Q2SI
Description: ICPMS ICV/CCV Soln C - 10ppm
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	20 mg/L	Molybdenum	20 mg/L
Silver	20 mg/L	Tin	20 mg/L
Titanium	20 mg/L	Tungsten	20 mg/L
Zirconium	20 mg/L		

Serial ID: UI091217-12 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master B **Received:** 17-DEC-09 **Catalog Number :** 160033-02
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1018212
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: Q2SI
Description: ICPMS ICSAB Master B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	2 mg/L	Barium	2 mg/L
Beryllium	2 mg/L	Boron	2 mg/L
Cadmium	2 mg/L	Chromium	2 mg/L
Cobalt	2 mg/L	Copper	2 mg/L
Lead	2 mg/L	Lithium	2 mg/L
Manganese	2 mg/L	Nickel	2 mg/L
Selenium	2 mg/L	Strontium	2 mg/L
Thallium	2 mg/L	Thorium	2 mg/L
Uranium	2 mg/L	Vanadium	2 mg/L
Zinc	2 mg/L		

Serial ID: UI091217-13 **Opened:** 17-DEC-09 **Amount :** 250 mL
Name: ICP-MS ICSAB Master C **Received:** 17-DEC-09 **Catalog Number :** 160033-03
Type: Source Material **Expires:** 17-DEC-10 **Lot Number :** 1016926
Employee: Paul Boyd **Solvent :** +/- 0.5% in 2% HNO3
Supplier: Q2SI

Standard Logbook

Description: ICPMS ICSAB Master C

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	2 mg/L	Silver	2 mg/L
Tin	2 mg/L	Tungsten	2 mg/L
Zirconium	2 mg/L		

Serial ID: UI100205-01 **Opened:** 05-FEB-10 **Lot Number :** 1018514

Name: METALSPIKE-1 **Received:** 05-FEB-10

Type: Source Material **Expires:** 05-FEB-11

Employee: Francena Armstrong

Supplier: OS2I

Description: Metals Spike Mix I

Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 ug/mL	Arsenic	100 ug/mL
Barium	100 ug/mL	Beryllium	100 ug/mL
Boron	100 ug/mL	Cadmium	100 ug/mL
Calcium	1000 ug/mL	Cobalt	100 ug/mL
Iron	1000 ug/mL	Lead	100 ug/mL
Magnesium	1000 ug/mL	Phosphorous	100 ug/mL
Potassium	1000 ug/mL	Silver	100 ug/mL
Sodium	1000 ug/mL	Strontium	100 ug/mL

Serial ID: UI100205-06 **Opened:** 05-FEB-10 **Lot Number :** 1018515

Name: METALSPIKE-2 **Received:** 05-FEB-10

Type: Source Material **Expires:** 05-FEB-11

Employee: Francena Armstrong

Supplier: OS2I

Description: Metals Spike Mix II

Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	100 ug/mL	Chromium	100 ug/mL
Copper	100 ug/mL	Manganese	100 ug/mL
Molybdenum	100 ug/mL	Nickel	100 ug/mL
Selenium	100 ug/mL	Silica	2141 ug/mL
Silicon	1000 ug/mL	Sulfur	1000 ug/mL
Thallium	100 ug/mL	Tin	100 ug/mL
Titanium	100 ug/mL	Uranium	100 ug/mL
Uranium-235	.72 ug/mL	Uranium-238	99.28 ug/mL
Vanadium	100 ug/mL	Zinc	100 ug/mL

Standard Logbook

Serial ID: UI100217-48 **Opened:** 04-MAR-10 **Amount :** 1000 mL
Name: Trace ICP ICSA **Received:** 17-FEB-10 **Catalog Number :** 160005-02
Type: Source Material **Expires:** 19-MAR-10 **Lot Number :** 1018878
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 UG/L	Calcium	500000 UG/L
Iron	200000 UG/L	Magnesium	500000 UG/L

Serial ID: UI100219-11 **Opened:** 19-FEB-10 **Amount :** 1000 mL
Name: ICP-MS ICSA Master A **Received:** 19-FEB-10 **Catalog Number :** 160013-01-01L
Type: Source Material **Expires:** 19-FEB-11 **Lot Number :** 1018321
Employee: Paul Boyd **Solvent :** 2% HNO3
Supplier: 02SI
Description: ICP-MS ICSA Master A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Carbon	2000 mg/L	Chloride	10000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Molybdenum	20 mg/L	Phosphorous	1000 mg/L
Potassium	1000 mg/L	Sodium	1000 mg/L
Sulfur	1000 mg/L	Titanium	20 mg/L

Serial ID: UI100310-49.2 **Opened:** 17-MAR-10 **Amount :** 100 ml
Name: Trace ICP ICSAB **Received:** 12-MAR-10 **Catalog Number :** 160066-04
Type: Source Material **Expires:** 18-MAR-10 **Lot Number :** 1019142
Employee: Helen Camello **Solvent :** 3% HCl + 1% HNO3
Supplier: o2si
Description: Trace ICP Interferent Check Standard AB
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Antimony	500 ug/L
Arsenic	500 ug/L	Barium	500 ug/L
Beryllium	250 ug/L	Boron	500 ug/L
Cadmium	500 ug/L	Calcium	500000 ug/L
Chromium	500 ug/L	Cobalt	500 ug/L
Copper	500 ug/L	Iron	200000 ug/L
Lead	500 ug/L	Magnesium	500000 ug/L
Manganese	500 ug/L	Molybdenum	500 ug/L
Nickel	500 ug/L	Phosphorous	2500 ug/L

Standard Logbook

Analyte	Concentration	Analyte	Concentration
Potassium	5000 ug/L	Selenium	2500 ug/L
Silica	10696.5 ug/L	Silicon	5000 ug/L
Silver	250 ug/L	Sodium	5000 ug/L
Strontium	500 ug/L	Sulfur	2500 ug/L
Thallium	500 ug/L	Tin	500 ug/L
Titanium	500 ug/L	Uranium	500 ug/L
Vanadium	500 ug/L	Zinc	500 ug/L

Serial ID: UI100312-40 **Opened:** 14-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD-A **Received:** 12-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 14-MAR-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION A
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10000 ug/L	Arsenic	10000 ug/L
Barium	15000 ug/L	Beryllium	3000 ug/L
Boron	5000 ug/L	Cadmium	10000 ug/L
Chromium	25000 ug/L	Cobalt	10000 ug/L
Copper	20000 ug/L	Lead	25000 ug/L
Manganese	10000 ug/L	Molybdenum	10000 ug/L
Nickel	10000 ug/L	Phosphorous	15000 ug/L
Potassium	300000 ug/L	Selenium	10000 ug/L
Silica	107000 ug/L	Silicon	50000 ug/L
Silver	1000 ug/L	Strontium	10000 ug/L
Sulfur	50000 ug/L	Thallium	10000 ug/L
Tin	10000 ug/L	Titanium	10000 ug/L
Vanadium	10000 ug/L	Zinc	15000 ug/L

Serial ID: UI100312-41 **Opened:** 14-MAR-10 **Amount :** 500 mL
Name: ICP HIGH RANGE STD B **Received:** 12-MAR-10 **Catalog Number :** 160211-05-03
Type: Source Material **Expires:** 14-MAR-11 **Lot Number :** 1018981
Employee: Helen Camello **Solvent :** +/-0.5%in2%HNO3
Supplier: 02SI
Description: ICP HIGH RANGE STD SOLUTION B
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	500000 ug/L	Calcium	500000 ug/L
Iron	500000 ug/L	Magnesium	500000 ug/L
Sodium	500000 ug/L	Uranium	15000 ug/L

Standard Logbook

Serial ID: UMS100226-01 **Opened:** 26-FEB-10 **Amount :** 250 mL
Name: ICPMSCalSPIKEB **Received:** 26-FEB-10 **Catalog Number :** ZGEL-100-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-104JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution B
Comments: None

Analyte	Concentration	Analyte	Concentration
Arsenic	10 mg/L	Barium	10 mg/L
Beryllium	10 mg/L	Boron	20 mg/L
Cadmium	10 mg/L	Chromium	10 mg/L
Cobalt	10 mg/L	Copper	10 mg/L
Lead	10 mg/L	Lithium	10 mg/L
Manganese	10 mg/L	Nickel	10 mg/L
Selenium	10 mg/L	Silver	10 mg/L
Strontium	10 mg/L	Thallium	10 mg/L
Thorium	10 mg/L	Uranium	10 mg/L
Vanadium	10 mg/L	Zinc	10 mg/L

Serial ID: UMS100226-02 **Opened:** 26-FEB-10 **Catalog Number :** ZGEL-102-250
Name: ICPMSCalSPIKEA **Received:** 26-FEB-10 **Lot Number :** 21-103JB
Type: Source Material **Expires:** 26-FEB-11
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution A
Comments: None

Analyte	Concentration	Analyte	Concentration
Aluminum	1000 mg/L	Calcium	1000 mg/L
Iron	1000 mg/L	Magnesium	1000 mg/L
Phosphorous	1000 mg/L	Potassium	1000 mg/L
Sodium	1000 mg/L		

Serial ID: UMS100226-03 **Opened:** 26-FEB-10 **Amount :** 250 ml
Name: ICPMSCalSPIKEC **Received:** 26-FEB-10 **Catalog Number :** ZGEL-101-250
Type: Source Material **Expires:** 26-FEB-11 **Lot Number :** 21-102JB
Employee: Paul Boyd
Supplier: SPEX
Description: ICPMS Calibration Standard Solution C
Comments: None

Analyte	Concentration	Analyte	Concentration
Antimony	10 mg/L	Molybdenum	10 mg/L
Tin	10 mg/L	Titanium	10 mg/L
Zirconium	10 mg/L		

Standard Logbook

Serial ID: IHG100303-01 **Opened:** 03-MAR-10 **Instrument Id :** Mercury
Name: MHGINTER1 **Received:** 03-MAR-10 **Pipet Id :** Minou1
Type: Intermediate **Expires:** 04-MAR-10 **Solvent :** 1mL HNO3 + Type1 H2O
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 1st Source 200 ug/L
Comments: Prepare fresh daily

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100303-02 **Opened:** 03-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 04-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: IHG100315-02 **Opened:** 15-MAR-10 **Pipet Id :** Minou1
Name: MHGINTER2 **Received:** 15-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Intermediate **Expires:** 16-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Intermediate 2nd Source 200 ug/L
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167641-02	Mercury	999.7 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100303-07 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALSO.2CRA **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.2/CRA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-01	Mercury	200 ug/L	30 uL	30 mL	.2 ug/L

Standard Logbook

Serial ID: WHG100303-08 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS0.5 **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working Standard 1st Source CAL S 0.5
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-01	Mercury	200 ug/L	75 uL	30 mL	.5 ug/L

Serial ID: WHG100303-09 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS2.0 **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 2.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-01	Mercury	200 ug/L	300 uL	30 mL	2 ug/L

Serial ID: WHG100303-10 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS5.0CCV **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 1st Source CAL S 5.0/CCV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-01	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100303-11 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKCALS10.0 **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin
Supplier: GEL
Description: Mercury Working 1st Source CAL S 10.0
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-01	Mercury	200 ug/L	1.5 mL	30 mL	10 ug/L

Standard Logbook

Serial ID: WHG100303-12 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 2nd Source S 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100303-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WHG100303-14 **Opened:** 03-MAR-10 **Pipet Id :** Hg1289245
Name: MHGSOILMSSPIKE **Received:** 03-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 10-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury soil working intermediate standard for MS
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UHG1167639-01	Mercury	1000 mg/L	.05 mL	250 mL	200 ug/L

Serial ID: WHG100315-12 **Opened:** 15-MAR-10 **Pipet Id :** Hg1289245
Name: MHGWORKS5.0ICV **Received:** 15-MAR-10 **Solvent :** 2% HNO3-1274391
Type: Working **Expires:** 22-MAR-10
Employee: Tara Griffin **Verified:** 20-JUL-07
Supplier: GEL
Description: Mercury Working 2nd Source S 5.0/ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
IHG100315-02	Mercury	200 ug/L	750 uL	30 mL	5 ug/L

Serial ID: WI100316-42 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100316-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100316-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100316-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100316-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100316-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100316-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100316-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100316-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100316-43 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expres:** 17-MAR-10 **Solvent :** 3%HCL and 1%HNO3 --1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100316-44 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1285629
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100316-45 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100316-46 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1285629
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals

Standard Logbook

Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100316-47 **Opened:** 16-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 17-MAR-10 **Solvent :** 3%HCL &1%HNO3-1285629
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WI100317-42 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.1 PPM STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.1 PPM CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
WI100317-44	Aluminum	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Antimony	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Arsenic	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Barium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Beryllium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Boron	1000 ug/L	10 mL	100 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WI100317-44	Cadmium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Calcium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Chromium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Cobalt	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Copper	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Iron	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Lead	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Magnesium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Manganese	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Molybdenum	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Nickel	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Phosphorous	5000 ug/L	10 mL	100 mL	500 ug/L
WI100317-44	Potassium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Selenium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Silica	10698 ug/L	10 mL	100 mL	1069 ug/L
WI100317-44	Silicon	5000 ug/L	10 mL	100 mL	500 ug/L
WI100317-44	Silver	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Sodium	10000 ug/L	10 mL	100 mL	1000 ug/L
WI100317-44	Strontium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Sulfur	2000 ug/L	10 mL	100 mL	200 ug/L
WI100317-44	Thallium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Tin	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Titanium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Uranium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Vanadium	1000 ug/L	10 mL	100 mL	100 ug/L
WI100317-44	Zinc	1000 ug/L	10 mL	100 mL	100 ug/L

Serial ID: WI100317-43 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: TRACE ICP 0.5/CCV STD. **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL and 1%HNO3 --1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP 0.5/CCV CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	5 mL	1000 mL	5000 UG/L
UI091015-42	Silica	2139 mg/L	2.5 mL	1000 mL	5348.25 UG/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Barium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Boron	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Calcium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Chromium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Copper	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Iron	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Lead	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Manganese	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Nickel	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	1000 mL	2500 UG/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Selenium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	1000 mL	5000 UG/L
UI091102-40	Strontium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Thallium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Uranium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-40	Zinc	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Antimony	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Silver	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	1000 mL	1000 UG/L
UI091102-41	Tin	200 mg/L	2.5 mL	1000 mL	500 UG/L
UI091102-41	Titanium	200 mg/L	2.5 mL	1000 mL	500 UG/L

Serial ID: WI100317-44 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: TRACE ICP SCAL 1.0 **Received:** 02-NOV-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL and 1 %HNO3-1285629
Employee: Helen Camello
Supplier: o2si
Description: Trace ICP Calibration Standard 1.0ppm
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091015-42	Silica	2139 mg/L	2.5 mL	500 mL	10698 ug/L
UI091015-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Aluminum	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Arsenic	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Barium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Beryllium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Boron	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cadmium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Calcium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Chromium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Cobalt	200 mg/L	2.5 mL	500 mL	1000 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091102-40	Copper	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Iron	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Lead	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Magnesium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Manganese	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Nickel	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Phosphorous	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI091102-40	Potassium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Selenium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Sodium	2000 mg/L	2.5 mL	500 mL	10000 ug/L
UI091102-40	Strontium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Thallium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Uranium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Vanadium	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-40	Zinc	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Antimony	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Molybdenum	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Silver	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Sulfur	400 mg/L	2.5 mL	500 mL	2000 ug/L
UI091102-41	Tin	200 mg/L	2.5 mL	500 mL	1000 ug/L
UI091102-41	Titanium	200 mg/L	2.5 mL	500 mL	1000 ug/L

Serial ID: WI100317-45 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: TRACE ICP S-10 STD **Received:** 22-APR-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL and 1%HNO3 -1285629
Employee: Helen Camello
Supplier: GEL
Description: TRACE ICP S-10 CALIBRATION STD.
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090421-40	Sodium	1000 ug/mL	10 mL	500 mL	20000 UG/L
UI090422-40	Aluminum	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Calcium	5000 mg/L	5 mL	500 mL	50000 UG/L
UI090422-40	Iron	2000 mg/L	5 mL	500 mL	20000 UG/L
UI090422-40	Magnesium	5000 mg/L	5 mL	500 mL	50000 UG/L

Serial ID: WI100317-46 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: ICP TRACE ICV **Received:** 25-SEP-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL AND 1%HNO3-1285629
Employee: Helen Camello
Supplier: GEL
Description: Initial Calibration Verification ICP Trace Metals
Comments: None

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090925-40	Aluminum	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Arsenic	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Barium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Boron	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cadmium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Calcium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Chromium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Cobalt	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Copper	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Iron	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-40	Lead	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-40	Phosphorous	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Potassium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Selenium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Sodium	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-40	Strontium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Antimony	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Beryllium	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Magnesium	1000 mg/L	2.5 mL	500 mL	5000 ug/L
UI090925-41	Manganese	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Molybdenum	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Nickel	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Silver	50 mg/L	2.5 mL	500 mL	250 ug/L
UI090925-41	Sulfur	500 mg/L	2.5 mL	500 mL	2500 ug/L
UI090925-41	Thallium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Tin	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Titanium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Uranium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Vanadium	100 mg/L	2.5 mL	500 mL	500 ug/L
UI090925-41	Zinc	100 mg/L	2.5 mL	500 mL	500 ug/L
UI091102-42	Silica	2139 mg/L	2.5 mL	500 mL	10695 ug/L
UI091102-42	Silicon	1000 mg/L	2.5 mL	500 mL	5000 ug/L

Serial ID: WI100317-47 **Opened:** 17-MAR-10 **Balance Id :** 216
Name: PQL Working Standard **Received:** 30-JUN-09 **Pipet Id :** 3581809
Type: Working **Expires:** 18-MAR-10 **Solvent :** 3%HCL & 1%HNO3-1285629
Employee: Helen Camello
Supplier: 02si
Description: PQL Working Standard
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Aluminum	100 mg/L	2 mL	1000 mL	200 ug/L
UI090701-40	Antimony	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Arsenic	15 mg/L	2 mL	1000 mL	15 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-40	Barium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Beryllium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Boron	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Cadmium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Calcium	100 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Chromium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Cobalt	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Copper	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Iron	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Lead	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Magnesium	150 mg/L	2 mL	1000 mL	300 ug/L
UI090701-40	Manganese	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Molybdenum	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Nickel	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Phosphorous	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Potassium	75 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Selenium	15 mg/L	2 mL	1000 mL	15 ug/L
UI090701-40	Silicon	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Silver	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sodium	150 mg/L	2 mL	1000 mL	150 ug/L
UI090701-40	Strontium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Sulfur	50 mg/L	2 mL	1000 mL	100 ug/L
UI090701-40	Thallium	10 mg/L	2 mL	1000 mL	20 ug/L
UI090701-40	Tin	5 mg/L	2 mL	1000 mL	10 ug/L
UI090701-40	Titanium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Uranium	25 mg/L	2 mL	1000 mL	50 ug/L
UI090701-40	Vanadium	2.5 mg/L	2 mL	1000 mL	5 ug/L
UI090701-40	Zinc	5 mg/L	2 mL	1000 mL	10 ug/L

Serial ID: WMS100315-04 **Opened:** 15-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 15-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 16-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1285348
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100315-04A **Opened:** 15-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 15-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100315-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100315-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
WMS100315-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100315-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100315-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100315-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100315-05 **Opened:** 15-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 15-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 16-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100315-06 **Opened:** 15-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 15-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 16-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100315-07 **Opened:** 15-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 15-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 16-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1285348
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100315-08 **Opened:** 15-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 15-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 16-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Standard Logbook

Serial ID: WMS100316-04 **Opened:** 16-MAR-10 **Amount :** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 16-MAR-10 **Balance Id :** 4025216
Type: Working **Expires:** 17-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl-1285348
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Serial ID: WMS100316-04A **Opened:** 16-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 16-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 17-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100316-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100316-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100316-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100316-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100316-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Standard Logbook

Serial ID: WMS100316-05 **Opened:** 16-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 16-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 17-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Serial ID: WMS100316-06 **Opened:** 16-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 16-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 17-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Standard Logbook

Serial ID: WMS100316-07 **Opened:** 16-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 16-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 17-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1285348
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100316-08 **Opened:** 16-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 16-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 17-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100317-04 **Opened:** 17-MAR-10 **Amount:** 50 mL
Name: ICPMS Cal Standard 100 **Received:** 17-MAR-10 **Balance Id:** 4025216
Type: Working **Expires:** 18-MAR-10 **Pipet Id:** 3541598
Employee: Paul Boyd **Solvent:** 2%HNO3/1%HCl-1285348
Supplier: GEL
Description: ICPMS Calibration Standard (100 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090612-02	Tungsten	10 mg/L	.5 mL	50 mL	100 ug/L
UMS100226-01	Arsenic	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Barium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Beryllium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Boron	20 mg/L	.5 mL	50 mL	200 ug/l
UMS100226-01	Cadmium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Chromium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Cobalt	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Copper	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lead	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Lithium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Manganese	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Nickel	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Selenium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Silver	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Strontium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Thallium	10 mg/L	.5 mL	50 mL	100 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UMS100226-01	Thorium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Uranium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Vanadium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-01	Zinc	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-02	Aluminum	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Calcium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Iron	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Magnesium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Phosphorous	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Potassium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-02	Sodium	1000 mg/L	.5 mL	50 mL	10000 ug/l
UMS100226-03	Antimony	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Molybdenum	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Tin	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Titanium	10 mg/L	.5 mL	50 mL	100 ug/l
UMS100226-03	Zirconium	10 mg/L	.5 mL	50 mL	100 ug/l

Serial ID: WMS100317-04A **Opened:** 17-MAR-10 **Balance Id :** 4025216
Name: ICPMS Cal Standard 10 **Received:** 17-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 18-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS Calibration Standard (10 ppb)
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100317-04	Aluminum	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Antimony	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Arsenic	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Barium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Beryllium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Boron	200 ug/l	5 mL	50 mL	20 ug/l
WMS100317-04	Cadmium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Calcium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Chromium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Cobalt	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Copper	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Iron	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Lead	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Lithium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Magnesium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Manganese	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Molybdenum	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Nickel	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Phosphorous	10000 ug/l	5 mL	50 mL	1000 ug/l

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
WMS100317-04	Potassium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Selenium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Silver	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Sodium	10000 ug/l	5 mL	50 mL	1000 ug/l
WMS100317-04	Strontium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Thallium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Thorium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Tin	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Titanium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Tungsten	100 ug/L	5 mL	50 mL	10 ug/L
WMS100317-04	Uranium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Vanadium	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Zinc	100 ug/l	5 mL	50 mL	10 ug/l
WMS100317-04	Zirconium	100 ug/l	5 mL	50 mL	10 ug/l

Serial ID: WMS100317-05 **Opened:** 17-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICV **Received:** 17-MAR-10 **Pipet Id :** 3541598
Type: Working **Expires:** 18-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICV
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-06	Aluminum	2020 mg/L	.125 mL	50 mL	5050 ug/L
UI091217-06	Calcium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Iron	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Magnesium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Phosphorous	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Potassium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-06	Sodium	2000 mg/L	.125 mL	50 mL	5000 ug/L
UI091217-07	Arsenic	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Barium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Beryllium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Boron	40 mg/L	.125 mL	50 mL	100 ug/L
UI091217-07	Cadmium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Chromium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Cobalt	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Copper	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lead	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Lithium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Manganese	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Nickel	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Selenium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Strontium	20 mg/L	.125 mL	50 mL	50 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI091217-07	Thallium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Thorium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Uranium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Vanadium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-07	Zinc	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Antimony	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Molybdenum	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Silver	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tin	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Titanium	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Tungsten	20 mg/L	.125 mL	50 mL	50 ug/L
UI091217-08	Zirconium	20 mg/L	.125 mL	50 mL	50 ug/L

Serial ID: WMS100317-06 **Opened:** 17-MAR-10 **Balance Id :** 40245216
Name: ICPMS CRDL **Received:** 17-MAR-10 **Pipet Id :** 3820544
Type: Working **Expires:** 18-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS CRDL
Comments: None

Parent Material	Analyte	Parent Conc.	Alliquot	Final Vol.	Final Conc.
UI090701-09	Aluminum	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Arsenic	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Barium	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Beryllium	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-09	Boron	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Cadmium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Calcium	100 mg/L	.05 mL	50 mL	100 ug/L
UI090701-09	Chromium	3 mg/L	.05 mL	50 mL	3 ug/L
UI090701-09	Cobalt	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Copper	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Iron	25 mg/L	.05 mL	50 mL	25 ug/L
UI090701-09	Lead	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Lithium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Magnesium	15 mg/L	.05 mL	50 mL	15 ug/L
UI090701-09	Manganese	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Nickel	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-09	Phosphorous	50 mg/L	.05 mL	50 mL	50 ug/L
UI090701-09	Potassium	300 mg/L	.05 mL	50 mL	300 ug/L
UI090701-09	Selenium	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-09	Sodium	250 mg/L	.05 mL	50 mL	250 ug/L
UI090701-09	Strontium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Thallium	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-09	Thorium	1 mg/L	.05 mL	50 mL	1 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI090701-09	Uranium	.2 mg/L	.05 mL	50 mL	.2 ug/L
UI090701-09	Vanadium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-09	Zinc	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Antimony	2 mg/L	.05 mL	50 mL	2 ug/L
UI090701-10	Molybdenum	.5 mg/L	.05 mL	50 mL	.5 ug/L
UI090701-10	Silver	1 mg/L	.05 mL	50 mL	1 ug/L
UI090701-10	Tin	2 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Titanium	10 mg/L	.05 mL	50 mL	10 ug/L
UI090701-10	Tungsten	5 mg/L	.05 mL	50 mL	5 ug/L
UI090701-10	Zirconium	2 mg/L	.05 mL	50 mL	2 ug/L

Serial ID: WMS100317-07 **Opened:** 17-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSA **Received:** 17-MAR-10 **Lot Number :** 1010773
Type: Working **Expires:** 18-MAR-10 **Pipet Id :** 3541598
Employee: Paul Boyd **Solvent :** 2%HNO3/1%HCl - 1285348
Supplier: GEL
Description: ICPMS ICSA
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: WMS100317-08 **Opened:** 17-MAR-10 **Balance Id :** 40245216
Name: ICPMS ICSAB **Received:** 17-MAR-10 **Pipet Id :** 1758088
Type: Working **Expires:** 18-MAR-10 **Solvent :** 2%HNO3/1%HCl - 1285348
Employee: Paul Boyd
Supplier: GEL
Description: ICPMS ICSAB
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Arsenic	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Barium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Beryllium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Boron	2 mg/L	.5 mL	50 mL	20 ug/L

Standard Logbook

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
UI091217-12	Cadmium	2 mg/L	.5 mL	50 mL	20.2 ug/L
UI091217-12	Chromium	2 mg/L	.5 mL	50 mL	22.2 ug/L
UI091217-12	Cobalt	2 mg/L	.5 mL	50 mL	20.4 ug/L
UI091217-12	Copper	2 mg/L	.5 mL	50 mL	23.4 ug/L
UI091217-12	Lead	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Lithium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Manganese	2 mg/L	.5 mL	50 mL	22.7 ug/L
UI091217-12	Nickel	2 mg/L	.5 mL	50 mL	22.4 ug/L
UI091217-12	Selenium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Strontium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thallium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Thorium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Uranium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Vanadium	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-12	Zinc	2 mg/L	.5 mL	50 mL	27 ug/L
UI091217-13	Antimony	2 mg/L	.5 mL	50 mL	20.5 ug/L
UI091217-13	Silver	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tin	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Tungsten	2 mg/L	.5 mL	50 mL	20 ug/L
UI091217-13	Zirconium	2 mg/L	.5 mL	50 mL	20 ug/L
UI100219-11	Aluminum	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Calcium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Chloride	10000 mg/L	5 mL	50 mL	1000000 ug/L
UI100219-11	Iron	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Magnesium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Molybdenum	20 mg/L	5 mL	50 mL	2000 ug/L
UI100219-11	Phosphorous	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Potassium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sodium	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Sulfur	1000 mg/L	5 mL	50 mL	100000 ug/L
UI100219-11	Titanium	20 mg/L	5 mL	50 mL	2000 ug/L

Serial ID: 100202 **Opened:** 02-FEB-10 **Lot Number :** 200930201
Name: I-HCL **Received:** 02-FEB-10
Type: Reagent/Solvent **Expires:** 02-FEB-11
Employee: Francena Armstrong
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Standard Logbook

Serial ID: 1100721TCLP **Opened:** 16-APR-09 **Lot Number :** H02026 L
Name: I-HNO3 **Received:** 02-APR-09
Type: Reagent/Solvent **Expires:** 02-APR-10
Employee: Clifford Postell
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1156689-A **Opened:** 20-JUL-09 **Lot Number :** 41226920
Name: B-KMnO4(VWR)-MER **Received:** 20-JUL-09
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin **Verified:** 07-AUG-07
Supplier: VWR
Description: Potassium Permanganate
Comments: None

Serial ID: 1228372-A **Opened:** 12-NOV-09 **Lot Number :** 49215936
Name: B-NH2OH.HCl-MER **Received:** 12-NOV-09
Type: Reagent/Solvent **Expires:** 12-NOV-10
Employee: Tara Griffin
Supplier: Fisher Scientific
Description: Hydroxylamine Hydrochloride
Comments: None

Serial ID: 1250038-02 **Opened:** 04-JAN-10 **Lot Number :** ZU74081198 mL
Name: B-H2O2 **Received:** 04-JAN-10
Type: Reagent/Solvent **Expires:** 04-JAN-11
Employee: Bryan Davis
Supplier: EM SCIENCE
Description: Hydrogen Peroxide 30%
Comments: None

Serial ID: 1255532-C **Opened:** 15-JAN-10 **Balance Id :** BAL-002
Name: B-NaCl.NH2OH.HCl-MER **Received:** 15-JAN-10
Type: Reagent/Solvent **Expires:** 15-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: Hg reducing agent
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1228372-A	B-NH2OH.HCl-MER	N/A	120 g	1000 mL	N/A

Standard Logbook

Serial ID: 1265209 **Opened:** 04-FEB-10 **Lot Number :** J02039
Name: I-HCL **Received:** 04-FEB-10 **Preservative_Id :** 5 none
Type: Reagent/Solvent **Expires:** 04-FEB-11
Employee: Bryan Davis
Supplier: J.T. BAKER
Description: HYDROCHLORIC ACID
Comments: None

Serial ID: 1274391-1 **Opened:** 24-FEB-10 **Instrument Id :** MERCURY
Name: B-HNO3-MER **Received:** 24-FEB-10 **Lot Number :** H44025
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Tara Griffin
Supplier: Mallinckrodt Chemicals
Description: NITRIC ACID
Comments: None

Serial ID: 1274969 **Opened:** 24-FEB-10 **Lot Number :** J 04043 L
Name: I-HNO3 **Received:** 24-FEB-10
Type: Reagent/Solvent **Expires:** 24-FEB-11
Employee: Francena Armstrong
Supplier: BAKER
Description: Nitric Acid CONC.
Comments: None

Serial ID: 1277235-A **Opened:** 01-MAR-10 **Lot Number :** J02039
Name: B-HCL-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 01-MAR-11
Employee: Tara Griffin
Supplier: J T Baker
Description: Hydrochloric Acid Conc.
Comments: None

Serial ID: 1277238-C **Opened:** 01-MAR-10 **Balance Id :** BAL-002
Name: B-KMnO4-MER **Received:** 01-MAR-10
Type: Reagent/Solvent **Expires:** 20-JUL-10
Employee: Tara Griffin
Supplier: GEL
Description: 5% KMnO4 solution
Comments: None

Parent Material	Analyte	Parent Conc.	Aliquot	Final Vol.	Final Conc.
1156689-A	B-KMnO4(VWR)-MER	Crystals	50 g	1000 mL	3%

Standard Logbook

Serial ID: 1285348 **Opened:** 15-MAR-10 **Solvent :** Type I Water
Name: B-2%HNO3/1%HCl-ICPMS **Received:** 15-MAR-10
Type: Reagent/Solvent **Expires:** 22-MAR-10
Employee: Paul Boyd
Supplier: GEL
Description: 2%HNO3/1%HCl Solution (Type I Water)
Comments: None

Parent Material	Analyte	Parent Conc.	Allquot	Final Vol.	Final Conc.
100202	I-HCL	36.5-38.0	90 mL	9 l	N/A
1100721TCLP	I-HNO3	69.0-70.0	180 mL	9 l	N/A

Serial ID: 1285629 **Opened:** 15-MAR-10 **Amount :** 20 L
Name: B-ICP-RINSE SOLN **Received:** 05-MAR-10 **Lot Number :** H04040+G34050
Type: Reagent/Solvent **Expires:** 21-MAR-10 **Solvent :** 3%HCL+1%HNO3
Employee: Helen Camello
Supplier: GEL
Description: 3%HCL+1%HNO3 RINSE SOLN.
Comments: None

General Chemistry Analysis

Case Narrative

**General Chemistry Narrative
Los Alamos National Laboratory (LANL)
SDG 10-1915**

Method/Analysis Information

Product: pH
Analytical Batch: 954988 **Method:** SW9045C pH

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9045C/9045D:

Sample ID	Client ID
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424
1202047372	247336001(RE15-10-8346) Sample Duplicate (DUP)
1202047373	247359001(RE36-10-7427) Sample Duplicate (DUP)
1202047374	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-008 REV# 17.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Electrode analysis was performed on a PerpHecT LogR pH/ISE.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Quality Control (QC) Information

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 247336001 (RE15-10-8346) and 247359001 (RE36-10-7427).

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

The following samples from this sample group were received by the lab outside of the method specified holding time: 247359001 (RE36-10-7427), 247359002 (RE36-10-7423), 247359003 (RE36-10-7428) and 247359004 (RE36-10-7424).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information**Data Exception (DER) Documentation**

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Cyanide, Total
Analytical Batch: 955987 **Method:** SW9012A Cyanide and Total
Prep Batch : 955986 **Method:** SSW846 9010B Prep

Sample Analysis

The following samples were analyzed using the analytical protocol as established in SW846 9012A:

Sample ID	Client ID
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424
1202049739	Method Blank (MB)
1202049740	247338007(RE15-10-8209) Sample Duplicate (DUP)
1202049741	247338008(RE15-10-8205) Sample Duplicate (DUP)
1202049742	247338007(RE15-10-8209) Matrix Spike (MS)
1202049743	247338008(RE15-10-8205) Matrix Spike (MS)
1202049744	247338007(RE15-10-8209) Matrix Spike Duplicate (MSD)
1202049745	247338008(RE15-10-8205) Matrix Spike Duplicate (MSD)
1202049746	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-095 REV# 12.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Flow Injection analysis was performed on a Lachat QuickChem FIA+ 8000 Series.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 247338007 (RE15-10-8209) and 247338008 (RE15-10-8205).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The values for the sample and duplicate are less than the Practical Quantitation Limit (PQL); therefore, the RPD is not applicable. 1202049741 (RE15-10-8205).

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Preservation/Integrity

All the samples from this sample group met the preservation and integrity requirements of the method.

Sample Dilutions

The following sample in this sample group was diluted due to high concentration: 1202049746 (LCS).

Sample Re-analysis

The samples in this SDG did not require re-analysis.

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Method/Analysis Information

Product: Ion Chromatography
Analytical Batch: 955448 **Method:** EPA 300.0 Nitrate in Soil
Prep Batch : 955446 **Method:** EPA 300.0 PREP

Sample Analysis

The following samples were analyzed using the analytical protocol as established in EPA 300.0:

Sample ID	Client ID
247359001	RE36-10-7427
247359002	RE36-10-7423
247359003	RE36-10-7428
247359004	RE36-10-7424
1202048427	Method Blank (MB)
1202048428	247336001(RE15-10-8346) Sample Duplicate (DUP)
1202048429	247359004(RE36-10-7424) Sample Duplicate (DUP)
1202048430	247336001(RE15-10-8346) Matrix Spike (MS)
1202048431	247359004(RE36-10-7424) Matrix Spike (MS)
1202048432	247336001(RE15-10-8346) Matrix Spike Duplicate (MSD)
1202048433	247359004(RE36-10-7424) Matrix Spike Duplicate (MSD)
1202048434	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by GEL Laboratories LLC as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with GL-GC-E-086 REV# 17.

Preparation/Analytical Method Verification

The SOP stated above has been prepared based on technical research and testing conducted by GEL Laboratories, LLC. and with guidance from the regulatory documents listed in this "Method/Analysis Information" section.

Calibration Information

The Ion Chromatography analysis was performed on a Dionex ICS-3000 Ion Chromatograph.

Initial Calibration

All initial calibration requirements have been met for this SDG.

Continuing Calibration Blanks

All continuing calibration blanks (CCBs) associated with reported data from this batch were within acceptance limits.

Calibration Verification Information (CCV)

All continuing calibration verification standards (CCVs) associated with reported data from this batch were within acceptance limits.

Y Intercept Rule

The absolute value of the intercept is less than 3 times the MDL.

Quality Control (QC) Information

Method Blank (MB) Statement

The MB analyzed with this SDG met the acceptance criteria.

Laboratory Control Sample (LCS) Recovery

The LCS spike recovery met the acceptance limits.

Quality Control (QC) Designation

The following samples were selected for QC analysis: 247336001 (RE15-10-8346) and 247359004 (RE36-10-7424).

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The MS/PS recoveries for this sample set were within the required acceptance limits.

Matrix Spike Duplicate (MSD) Recovery Statement

The MSD recoveries for this sample set were within the required acceptance limits.

MS/MSD Relative Percent Difference (RPD) Statement

The RPDs between the spike and spike duplicate met the acceptance limits.

Duplicate Relative Percent Difference (RPD) Statement

The RPD between the sample and its duplicate met the acceptance limits.

Technical Information

GEL assigns holding times based on the date and time of sample collection. Those holding times expressed in hours are calculated in the AlphaLims system by hours. Those holding times expressed as days expire at midnight on the day of expiration.

Holding Times

All samples in this SDG met the specified holding time.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-analysis

The following samples were re-analyzed due to CCV failure: 1202048429 (RE36-10-7424), 1202048431 (RE36-10-7424), 1202048433 (RE36-10-7424), 247359001 (RE36-10-7427), 247359002 (RE36-10-7423), 247359003 (RE36-10-7428) and 247359004 (RE36-10-7424).

Miscellaneous Information

Data Exception (DER) Documentation

A DER was not required for this SDG.

Manual Integrations

Manual integrations were not required for the samples in this SDG.

Additional Comments

Additional comments were not required for this SDG.

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted:

Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. The data validator will always sign and date the case narrative. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

Review Validation:

GEL requires all analytical data to be verified by a qualified data validator. In addition, all data designated for CLP or CLP-like packaging will receive a third level validation upon completion of the data package.

The following data validator verified the information presented in this case narrative:

Reviewer:  Date: 16Mar10

Sample Data Summary

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis Report for

LANL010 Los Alamos National Laboratory (72733-001-09)

Client SDG: 10-1915 GEL Work Order: 247359

The Qualifiers in this report are defined as follows:

- * Indicates that a quality control analyte recovery is outside of specified acceptance criteria.
- ** Indicates the analyte is a surrogate compound.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the detection limit.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7423
Sample ID: 247359002
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 51.1%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.8C	H	5.96	0.010	0.100	SU	1	TXT1	02/18/10	1642	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	J	341	124	456	ug/kg	1	AXC2	02/25/10	1620	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N	U	ND	0.613	2.04	mg/kg	1	MAR1	03/07/10	1420	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7428
Sample ID: 247359003
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 8.63%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.7C	H	6.58	0.010	0.100	SU	1	TXT1	02/18/10	1644	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.4	274	ug/kg	1	AXC2	02/25/10	1621	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		2.08	0.328	1.09	mg/kg	1	MAR1	03/07/10	1449	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

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TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: LANL ER Project

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7424
Sample ID: 247359004
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 8.59%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.5C	H	8.40	0.010	0.100	SU	1	TXT1	02/18/10	1648	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total	U	ND	74.4	274	ug/kg	1	AXC2	02/25/10	1622	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		1.33	0.328	1.09	mg/kg	1	MAR1	03/07/10	1518	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

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Certificate of Analysis

Company : Los Alamos National Laboratory
Address : PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico 87545
Contact: Ms. Joylene Valdez
Project: **LANL ER Project**

Report Date: March 13, 2010

Client SDG: 10-1915

Client Sample ID: RE36-10-7427
Sample ID: 247359001
Matrix: R
Collect Date: 12-FEB-10 12:00
Receive Date: 18-FEB-10
Collector: Client
Moisture: 36.4%

Project: LANL01004
Client ID: LANL010

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Electrode Analysis											
<i>SW9045C pH "As Received"</i>											
pH at Temp 19.8C	H	5.29	0.010	0.100	SU	1	TXT1	02/18/10	1639	954988	1
Flow Injection Analysis											
<i>SW9012A Cyanide, Total "Dry Weight Corrected"</i>											
Cyanide, Total		659	92.2	339	ug/kg	1	AXC2	02/25/10	1619	955987	2
Ion Chromatography											
<i>EPA 300.0 Nitrate in Soil "Dry Weight Corrected"</i>											
Nitrate-N		12.7	0.472	1.57	mg/kg	1	MAR103	07/10	1351	955448	3

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 300.0 PREP	EPA 300.0 Total Anions in Soil	MAR1	03/06/10	1050	955446
SW846 9010B Prep	SW846 9010B Prep	AXS5	02/25/10	1137	955986

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 9045C/9045D	
2	SW846 9012A	
3	EPA 300.0	

Quality Control Summary

GEL LABORATORIES LLC

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QC Summary

Report Date: March 13, 2010

Page 1 of 3

Los Alamos National Laboratory
PO Box 1663
TA-03, SM271, Drop Pt. 02U, Rm111
Los Alamos, New Mexico

Contact: Ms. Joylene Valdez

Workorder: 247359

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Electrode Analysis											
Batch	954988										
QC1202047372	247336001	DUP									
pH		H	11.4	H	11.2	SU	1.33	(0%-10%)	TXT1	02/18/10	16:22
QC1202047373	247359001	DUP									
pH		H	5.29	H	5.30	SU	0.189	(0%-10%)		02/18/10	16:41
QC1202047374	LCS										
pH	7.00			7.02	SU		100	(95%-105%)		02/18/10	16:06
Flow Injection Analysis											
Batch	955987										
QC1202049740	247338007	DUP									
Cyanide, Total		U	ND	U	ND	ug/kg	N/A		AXC2	02/25/10	15:56
QC1202049741	247338008	DUP									
Cyanide, Total		J	89.8	U	ND	ug/kg	200 ^			02/25/10	15:59
QC1202049746	LCS										
Cyanide, Total	67900			42300	ug/kg		62.2	(32%-157%)		02/25/10	15:48
QC1202049739	MB										
Cyanide, Total				U	250	ug/kg				02/25/10	15:47
QC1202049742	247338007	MS									
Cyanide, Total	5100	U	ND	5100	ug/kg		100	(26%-158%)		02/25/10	15:56
QC1202049743	247338008	MS									
Cyanide, Total	5090	J	89.8	4730	ug/kg		91.1	(26%-158%)		02/25/10	16:00
QC1202049744	247338007	MSD									
Cyanide, Total	4900	U	ND	4900	ug/kg	3.92	100	(0%-30%)		02/25/10	15:57
QC1202049745	247338008	MSD									
Cyanide, Total	4990	J	89.8	5090	ug/kg	7.36	100	(0%-30%)		02/25/10	16:01
Ion Chromatography											
Batch	955448										
QC1202048428	247336001	DUP									
Nitrate-N			1.22	1.21	mg/kg	0.643 ^		(+/-1.12)	MAR1	03/06/10	21:36
QC1202048429	247359004	DUP									
Nitrate-N			1.33	1.24	mg/kg	6.74 ^		(+/-1.09)		03/07/10	15:47
QC1202048434	LCS										
Nitrate-N	50.0			51.7	mg/kg		103	(90%-110%)		03/06/10	20:39
QC1202048427	MB										
Nitrate-N				U	1.00	mg/kg				03/06/10	20:10
QC1202048430	247336001	MS									
Nitrate-N	55.9		1.22	57.1	mg/kg		100	(90%-110%)		03/06/10	22:05
QC1202048431	247359004	MS									
Nitrate-N	54.7		1.33	55.5	mg/kg		99	(90%-110%)		03/07/10	16:16
QC1202048432	247336001	MSD									
Nitrate-N	55.9		1.22	57.1	mg/kg	0.0176	100	(0%-20%)		03/06/10	22:34
QC1202048433	247359004	MSD									
Nitrate-N	54.7		1.33	55.6	mg/kg	0.230	99.2	(0%-20%)		03/07/10	16:44

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QC Summary

Workorder: 247359

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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Notes:

RER is calculated at the 95% confidence level (2-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- E Metals--%difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E Organics--Concentration of the target analyte exceeds the instrument calibration range
- F Estimated Value
- H Analytical holding time was exceeded
- J Value is estimated
- M M if above MDC and less than LLD
- M Matrix Related Failure
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- h Preparation or preservation holding time was exceeded

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QC Summary

Workorder: 247359

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Instrument QC Data Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 13-MAR-2010 14:12

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1915

Flow Injection Analysis

Method: SW846 9012A

Concentration Units:ug/L

Instrument: Lachat QuickChem FIA+ 8000 Series

Parmname: Cyanide, Total

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	25-FEB-2010 12:24:32	OM_2-25-2010_12-14-00	148	150	98.7	(90%-110%)	Yes
CCV	25-FEB-2010 15:37:07	OM_2-25-2010_15-11-15	98.8	100	98.8	(90%-110%)	Yes
CCV	25-FEB-2010 15:49:37	OM_2-25-2010_15-11-15	101	100	101	(90%-110%)	Yes
CCV	25-FEB-2010 16:02:14	OM_2-25-2010_15-11-15	100	100	100	(90%-110%)	Yes
CCV	25-FEB-2010 16:14:52	OM_2-25-2010_15-11-15	100	100	100	(90%-110%)	Yes
CCV	25-FEB-2010 16:23:53	OM_2-25-2010_15-11-15	100	100	100	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	25-FEB-2010 12:26:22	OM_2-25-2010_12-14-00	0.328	10	Yes
CCB	25-FEB-2010 15:38:58	OM_2-25-2010_15-11-15	-1.45	10	Yes
CCB	25-FEB-2010 15:51:27	OM_2-25-2010_15-11-15	-1.48	10	Yes
CCB	25-FEB-2010 16:04:05	OM_2-25-2010_15-11-15	-1.11	10	Yes
CCB	25-FEB-2010 16:16:42	OM_2-25-2010_15-11-15	-1.47	10	Yes
CCB	25-FEB-2010 16:25:44	OM_2-25-2010_15-11-15	-1.54	10	Yes

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Report Run On: 13-MAR-2010 14:12

GEL Laboratories LLC

Contract: LANL01004

SDG #: 10-1915

Ion Chromatography

Method: EPA 300.0

Concentration Units:mg/L

Instrument: Dionex ICS-3000 Ion Chromatograph

Parmname: Nitrate-N

Sample Type	Run Date	Data File	Result	Nominal	Recovery	Limits	Within Limits
ICV	06-MAR-2010 16:18:00	100306	5.1399	5	103	(90%-110%)	Yes
CCV	06-MAR-2010 19:12:00	100306	8.1813	7.5	109	(90%-110%)	Yes
CCV	07-MAR-2010 00:59:00	100306	5.1735	5	103	(90%-110%)	Yes
CCV	07-MAR-2010 06:17:00	100306	8.3311	7.5	111	(90%-110%)	No
ICV	07-MAR-2010 11:55:00	100307	5.1275	5	103	(90%-110%)	Yes
CCV	07-MAR-2010 17:13:00	100307	8.0441	7.5	107	(90%-110%)	Yes

Sample Type	Run Date	Data File	Result	Limits	Within Limits
ICB	06-MAR-2010 16:47:00	100306	0	0.1	Yes
CCB	06-MAR-2010 19:41:00	100306	0	0.1	Yes
CCB	07-MAR-2010 01:28:00	100306	0	0.1	Yes
CCB	07-MAR-2010 06:46:00	100306	0	0.1	Yes
ICB	07-MAR-2010 12:24:00	100307	0	0.1	Yes
CCB	07-MAR-2010 17:42:00	100307	0	0.1	Yes

Cyanide, Total

Prep Logbook

Cyanide Sample Distillation

Batch ID:	955986.0	Verified by:		Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Analyst:	Alan Stanley			LCS	1202049746	Total Cyanide Solid LCS	URF1200957-01	.25	g
Method:	SW846 9010B Prep			MS	1202049742	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Lab SOP:	GL-GC-E-067 REV# 13			MS	1202049743	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
Instrument:	Sartorius Balance B-001			MSD	1202049744	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
				MSD	1202049745	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
1202049739 MB	25-FEB-2010 11:36:00	Soil	0.5	25	50	>12
1202049746 LCS	25-FEB-2010 11:36:00	Soil	0.25	25	100	>12
247249001	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247249002	25-FEB-2010 11:37:00	Soil	0.58	25	43.10345	>12
247338007	25-FEB-2010 11:37:00	Soil	0.52	25	48.07692	>12
1202049740 DUP (247338007)	25-FEB-2010 11:37:00	Soil	0.57	25	43.85965	>12
1202049742 MS (247338007)	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
1202049744 MSD (247338007)	25-FEB-2010 11:37:00	Soil	0.52	25	48.07692	>12
247338008	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
1202049741 DUP (247338008)	25-FEB-2010 11:37:00	Soil	0.57	25	43.85965	>12
1202049743 MS (247338008)	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
1202049745 MSD (247338008)	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247338009	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
247338010	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247338011	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247347001	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247347002	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
247347003	25-FEB-2010 11:37:00	Soil	0.53	25	47.16981	>12
247347004	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247347005	25-FEB-2010 11:37:00	Soil	0.54	25	46.2963	>12
247347006	25-FEB-2010 11:37:00	Soil	0.52	25	48.07692	>12

Analytical Logbook version 1 11-04-2002

GEL Laboratories LLC

Prep Logbook

Batch ID: 955986.0
Analyst: Alan Stanley
Method: SW846 9010B Prep
Lab SOP: GL-GC-E-067 REV# 13
Instrument: Sartorius Balance B-001

Verified by:

Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
LCS	1202049746	Total Cyanide Solid LCS	URF1200957-01	.25	g
MS	1202049742	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MS	1202049743	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202049744	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL
MSD	1202049745	Secondary source standard for CN and phenol. Used to spike LCS, MS, ICV	URF1269274-02	.025	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check 1
247347007	25-FEB-2010 11:37:00	Soil	0.57	25	43.85965	>12
247347008	25-FEB-2010 11:37:00	Soil	0.51	25	49.01961	>12
247359001	25-FEB-2010 11:37:00	Soil	0.58	25	43.10345	>12
247359002	25-FEB-2010 11:37:00	Soil	0.56	25	44.64286	>12
247359003	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
247359004	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12
247552002	25-FEB-2010 11:37:00	Soil	0.5	25	50	>12

Reagent/Solvent Lot ID	Description	Amount	Comments:
1260189-C	50% H2SO4 CN Prep	2.5 mL	
1270661-C	Bismuth Nitrate Solution	1.25 mL	
1270663-C	0.8N H3NO3S	1.25 mL	
1270669-C	51% MgCl2 Soln	1 mL	
1273851-C	0.25N Sodium Hydroxide Solution	25 mL	
WCN100225-07	150 ppb CN Distilled ICV Standard	.0375 mL	

This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
200 ppb		1	axc2	2/25/2010 12:17:22	OM_2-25-2010_12-14-00
150 ppb		1	axc2	2/25/2010 12:18:14	OM_2-25-2010_12-14-00
100 ppb		1	axc2	2/25/2010 12:19:07	OM_2-25-2010_12-14-00
50 ppb		1	axc2	2/25/2010 12:20:00	OM_2-25-2010_12-14-00
10 ppb		1	axc2	2/25/2010 12:20:53	OM_2-25-2010_12-14-00
CRDL 5.0 ppb		1	axc2	2/25/2010 12:21:47	OM_2-25-2010_12-14-00
ICAL-00		1	axc2	2/25/2010 12:22:41	OM_2-25-2010_12-14-00
ICV		1	axc2	2/25/2010 12:24:32	OM_2-25-2010_12-14-00
ICB		1	axc2	2/25/2010 12:26:22	OM_2-25-2010_12-14-00
CRDL		1	axc2	2/25/2010 12:28:12	OM_2-25-2010_12-14-00
1202046116	954509	1	axc2	2/25/2010 12:30:02	OM_2-25-2010_12-14-00
1202046123*	954509	25	axc2	2/25/2010 12:30:55	OM_2-25-2010_12-14-00
247103001	954509	1	axc2	2/25/2010 12:31:48	OM_2-25-2010_12-14-00
247103002	954509	1	axc2	2/25/2010 12:32:41	OM_2-25-2010_12-14-00
247103003	954509	1	axc2	2/25/2010 12:33:34	OM_2-25-2010_12-14-00
247103004	954509	1	axc2	2/25/2010 12:34:27	OM_2-25-2010_12-14-00
247103005	954509	1	axc2	2/25/2010 12:35:20	OM_2-25-2010_12-14-00
247103006	954509	1	axc2	2/25/2010 12:36:12	OM_2-25-2010_12-14-00
247103007	954509	1	axc2	2/25/2010 12:37:04	OM_2-25-2010_12-14-00
247103008	954509	1	axc2	2/25/2010 12:37:57	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010 12:38:49	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010 12:40:39	OM_2-25-2010_12-14-00
1202046123	954509	25	axc2	2/25/2010 12:42:29	OM_2-25-2010_12-14-00
247103009	954509	1	axc2	2/25/2010 12:43:21	OM_2-25-2010_12-14-00
247103010	954509	1	axc2	2/25/2010 12:44:13	OM_2-25-2010_12-14-00
247103011	954509	1	axc2	2/25/2010 12:45:05	OM_2-25-2010_12-14-00
247103012	954509	1	axc2	2/25/2010 12:45:56	OM_2-25-2010_12-14-00
247103013	954509	1	axc2	2/25/2010 12:46:48	OM_2-25-2010_12-14-00
247103014	954509	1	axc2	2/25/2010 12:47:42	OM_2-25-2010_12-14-00
247103015	954509	1	axc2	2/25/2010 12:48:35	OM_2-25-2010_12-14-00
247123001	954509	1	axc2	2/25/2010 12:49:29	OM_2-25-2010_12-14-00
1202046117	954509	1	axc2	2/25/2010 12:50:22	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010 12:51:15	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010 12:53:06	OM_2-25-2010_12-14-00
1202046119	954509	1	axc2	2/25/2010 12:54:54	OM_2-25-2010_12-14-00
1202046121	954509	1	axc2	2/25/2010 12:55:47	OM_2-25-2010_12-14-00
247123002	954509	1	axc2	2/25/2010 12:56:40	OM_2-25-2010_12-14-00
1202046118	954509	1	axc2	2/25/2010 12:57:33	OM_2-25-2010_12-14-00
1202046120	954509	1	axc2	2/25/2010 12:58:26	OM_2-25-2010_12-14-00
1202046122	954509	1	axc2	2/25/2010 12:59:18	OM_2-25-2010_12-14-00
247123003	954509	1	axc2	2/25/2010 13:00:11	OM_2-25-2010_12-14-00
247123004	954509	1	axc2	2/25/2010 13:01:03	OM_2-25-2010_12-14-00
247273002	954509	1	axc2	2/25/2010 13:01:56	OM_2-25-2010_12-14-00
1202049712	955983	1	axc2	2/25/2010 13:02:48	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010 13:03:40	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010 13:05:30	OM_2-25-2010_12-14-00
1202049725	955983	1	axc2	2/25/2010 13:07:17	OM_2-25-2010_12-14-00
247046002	955983	1	axc2	2/25/2010 13:08:11	OM_2-25-2010_12-14-00
1202049713	955983	1	axc2	2/25/2010 13:09:06	OM_2-25-2010_12-14-00
1202049717	955983	1	axc2	2/25/2010 13:09:59	OM_2-25-2010_12-14-00
1202049721	955983	1	axc2	2/25/2010 13:10:52	OM_2-25-2010_12-14-00
247261003	955983	1	axc2	2/25/2010 13:11:45	OM_2-25-2010_12-14-00
1202049714	955983	1	axc2	2/25/2010 13:12:39	OM_2-25-2010_12-14-00
1202049718	955983	1	axc2	2/25/2010 13:13:32	OM_2-25-2010_12-14-00
1202049722	955983	1	axc2	2/25/2010 13:14:25	OM_2-25-2010_12-14-00
247394001	955983	1	axc2	2/25/2010 13:15:18	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010 13:16:10	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010 13:18:01	OM_2-25-2010_12-14-00

247402001	955983	1	axc2	2/25/2010	13:19:49	OM_2-25-2010_12-14-00
247402002	955983	1	axc2	2/25/2010	13:20:42	OM_2-25-2010_12-14-00
247402004	955983	1	axc2	2/25/2010	13:21:34	OM_2-25-2010_12-14-00
247431001	955983	1	axc2	2/25/2010	13:22:27	OM_2-25-2010_12-14-00
247438001	955983	1	axc2	2/25/2010	13:23:19	OM_2-25-2010_12-14-00
1202049715	955983	1	axc2	2/25/2010	13:24:10	OM_2-25-2010_12-14-00
1202049719	955983	1	axc2	2/25/2010	13:25:05	OM_2-25-2010_12-14-00
1202049723	955983	1	axc2	2/25/2010	13:25:59	OM_2-25-2010_12-14-00
247441001	955983	1	axc2	2/25/2010	13:26:53	OM_2-25-2010_12-14-00
247449001	955983	1	axc2	2/25/2010	13:27:47	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010	13:28:39	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010	13:30:29	OM_2-25-2010_12-14-00
247505001	955983	1	axc2	2/25/2010	13:32:20	OM_2-25-2010_12-14-00
1202049716	955983	1	axc2	2/25/2010	13:33:12	OM_2-25-2010_12-14-00
1202049720	955983	1	axc2	2/25/2010	13:34:06	OM_2-25-2010_12-14-00
1202049724	955983	1	axc2	2/25/2010	13:34:59	OM_2-25-2010_12-14-00
247505002	955983	1	axc2	2/25/2010	13:35:52	OM_2-25-2010_12-14-00
247505003	955983	1	axc2	2/25/2010	13:36:45	OM_2-25-2010_12-14-00
247505004	955983	1	axc2	2/25/2010	13:37:38	OM_2-25-2010_12-14-00
247505005	955983	1	axc2	2/25/2010	13:38:30	OM_2-25-2010_12-14-00
247533001	955983	1	axc2	2/25/2010	13:39:22	OM_2-25-2010_12-14-00
247533002	955983	1	axc2	2/25/2010	13:40:14	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010	13:41:07	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010	13:42:58	OM_2-25-2010_12-14-00
247548001	955983	1	axc2	2/25/2010	13:44:45	OM_2-25-2010_12-14-00
247548002	955983	1	axc2	2/25/2010	13:45:40	OM_2-25-2010_12-14-00
247273002	954509	2	axc2	2/25/2010	13:46:32	OM_2-25-2010_12-14-00
247533001	955983	10	axc2	2/25/2010	13:47:24	OM_2-25-2010_12-14-00
247533002	955983	25	axc2	2/25/2010	13:48:16	OM_2-25-2010_12-14-00
CCV		1	axc2	2/25/2010	13:49:09	OM_2-25-2010_12-14-00
CCB		1	axc2	2/25/2010	13:50:59	OM_2-25-2010_12-14-00

Author: axc2

Date : 2/25/2010

Original Run Filename: OM_2-25-2010_12-14-00.OMN created 2/25/2010 12:14:00
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-25-2010_12-14-00.OMN last modified 2/25/2010 13:52:05
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area				
			Conc. (ug/L)	(Vs)				
WCN100225-01	1	S1	200	9.64	2/25/2010@12:17:22			200 ppb
WCN100225-02	1	S2	150	7.20	2/25/2010@12:18:14			150 ppb
WCN100225-03	1	S3	100	4.68	2/25/2010@12:19:07			100 ppb
WCN100225-04	1	S4	50.0	2.51	2/25/2010@12:20:00			50 ppb
WCN100225-05	1	S5	10.0	0.629	2/25/2010@12:20:53			10 ppb
WCN100225-06	1	S6	5.00	0.384	2/25/2010@12:21:47			CRDL 5.0 ppb
WCN100225-08	1	S7	0.00	0.0380	2/25/2010@12:22:41			0.0 ppb
DQM Test: Minimum Correlation Coefficient								
Result:			0.99976 > 0.99500					
Message			Pass					
Action			Continue					
WCN100225-07	1	S8	148	7.12	2/25/2010@12:24:32			ICV
Known Conc:			150					
DQM Test: > + Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			ICV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			ICV Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
WCN100225-08	1	S7	0.328	0.111	2/25/2010@12:26:22			ICB/CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			0.328 < 5.01					
Message			ICB/CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			0.328 > -5.01					
Message			ICB/CCB Passed					
Action			Continue					
WCN100225-06	1	S6	6.32	0.395	2/25/2010@12:28:12			CRDL
Known Conc:			5.00					
DQM Test: > + Concentration Limit								
Result:			6.32 < 7.50					
Message			CRDL Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			6.32 > 2.50					
Message			Pass					
Action			None					
1202046116|954509|MB	1	1	-1.07	0.0449	2/25/2010@12:30:02			
1202046123|LCS	1	2	492	23.4	2/25/2010@12:30:55		25.00	
247103001	1	3	2.33	0.206	2/25/2010@12:31:48			
247103002	1	4	-2.02	-4.98e-4	2/25/2010@12:32:41			
247103003	1	5	1.28	0.156	2/25/2010@12:33:34			
247103004	1	6	-0.839	0.0556	2/25/2010@12:34:27			
247103005	1	7	-0.982	0.0489	2/25/2010@12:35:20			
247103006	1	8	-0.483	0.0725	2/25/2010@12:36:12			
247103007	1	9	0.0851	0.0994	2/25/2010@12:37:04			
247103008	1	10	-2.02	-2.21e-4	2/25/2010@12:37:57			
WCN100225-03	1	S3	103	4.99	2/25/2010@12:38:49			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			3.2 < 10.0					

			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	3.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-2.01	2.30e-4	2/25/2010@12:40:39		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-2.01 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-2.01 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202046123||LCS	1	2		27.6	1.41	2/25/2010@12:42:29		25.00
247103009	1	11		0.343	0.112	2/25/2010@12:43:21		
247103010	1	12		-0.641	0.0650	2/25/2010@12:44:13		
247103011	1	13		1.10	0.148	2/25/2010@12:45:05		
247103012	1	14		0.143	0.102	2/25/2010@12:45:56		
247103013	1	15		-2.03	-7.26e-4	2/25/2010@12:46:48		
247103014	1	16		0.252	0.107	2/25/2010@12:47:42		
247103015	1	17		-0.684	0.0630	2/25/2010@12:48:35		
247123001	1	18		-1.43	0.0275	2/25/2010@12:49:29		
1202046117||DUP	1	19		-2.01	2.15e-4	2/25/2010@12:50:22		
WCN100225-03	1	S3		104	5.03	2/25/2010@12:51:15		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	4.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-0.919	0.0518	2/25/2010@12:53:06		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-0.919 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-0.919 > -5.00				
			Message	CCB Passed				
			Action	Continue				
1202046119||MS	1	20		105	5.07	2/25/2010@12:54:54		
1202046121||MSD	1	21		102	4.93	2/25/2010@12:55:47		
247123002	1	22		-1.18	0.0395	2/25/2010@12:56:40		
1202046118||DUP	1	23		-1.98	0.00160	2/25/2010@12:57:33		
1202046120||MS	1	24		97.4	4.71	2/25/2010@12:58:26		
1202046122||MSD	1	25		75.3	3.66	2/25/2010@12:59:18		
247123003	1	26		-1.24	0.0366	2/25/2010@13:00:11		
247123004	1	27		-1.41	0.0287	2/25/2010@13:01:03		
247273002	1	28		218	10.4	2/25/2010@13:01:56		
1202049712|955983|MB	1	29		0.307	0.110	2/25/2010@13:02:48		
WCN100225-03	1	S3		104	5.04	2/25/2010@13:03:40		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	4.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	4.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-1.35	0.0312	2/25/2010@13:05:30		CCB
			Known Conc:	0.00				

DQM Test: > + Concentration Limit						
Result:		-1.35 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.35 > -5.00				
Message		CCB Passed				
Action		Continue				
1202049725||LCS	1	30	53.2	2.62	2/25/2010@13:07:17	
247046002	1	31	-1.20	0.0386	2/25/2010@13:08:11	
1202049713||DUP	1	32	-1.16	0.0403	2/25/2010@13:09:06	
1202049717||MS	1	33	110	5.30	2/25/2010@13:09:59	
1202049721||MSD	1	34	112	5.43	2/25/2010@13:10:52	
247261003	1	35	-1.14	0.0416	2/25/2010@13:11:45	
1202049714||DUP	1	36	-1.44	0.0273	2/25/2010@13:12:39	
1202049718||MS	1	37	111	5.38	2/25/2010@13:13:32	
1202049722||MSD	1	38	105	5.05	2/25/2010@13:14:25	
247394001	1	39	-1.18	0.0397	2/25/2010@13:15:18	
WCN100225-03	1	S3	105	5.07	2/25/2010@13:16:10	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		5.0 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		5.0 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100225-08	1	S7	-1.41	0.0283	2/25/2010@13:18:01	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.41 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.41 > -5.00				
Message		CCB Passed				
Action		Continue				
247402001	1	40	-1.02	0.0469	2/25/2010@13:19:49	
247402002	1	41	-0.885	0.0535	2/25/2010@13:20:42	
247402004	1	42	-0.633	0.0654	2/25/2010@13:21:34	
247431001	1	43	-1.65	0.0173	2/25/2010@13:22:27	
247438001	1	44	-1.24	0.0365	2/25/2010@13:23:19	
1202049715||DUP	1	45	-1.40	0.0289	2/25/2010@13:24:10	
1202049719||MS	1	46	99.6	4.82	2/25/2010@13:25:05	
1202049723||MSD	1	47	111	5.37	2/25/2010@13:25:59	
247441001	1	48	-1.19	0.0390	2/25/2010@13:26:53	
247449001	1	49	0.0261	0.0966	2/25/2010@13:27:47	
WCN100225-03	1	S3	103	5.00	2/25/2010@13:28:39	CCV
Known Conc:		100				
DQM Test: > + Percent Relative Difference						
Result:		3.4 < 10.0				
Message		CCV Passed				
Action		Continue				
DQM Test: < - Percent Relative Difference						
Result:		3.4 < 10.0				
Message		CCV Passed				
Action		Continue				
WCN100225-08	1	S7	-1.29	0.0343	2/25/2010@13:30:29	CCB
Known Conc:		0.00				
DQM Test: > + Concentration Limit						
Result:		-1.29 < 5.00				
Message		CCB Passed				
Action		Continue				
DQM Test: < - Concentration Limit						
Result:		-1.29 > -5.00				
Message		CCB Passed				
Action		Continue				

247505001	1	50	-0.496	0.0719	2/25/2010@13:32:20		
1202049716||DUP	1	51	-1.17	0.0398	2/25/2010@13:33:12		
1202049720||MS	1	52	96.2	4.65	2/25/2010@13:34:06		
1202049724||MSD	1	53	100	4.83	2/25/2010@13:34:59		
247505002	1	54	-1.29	0.0342	2/25/2010@13:35:52		
247505003	1	55	-1.28	0.0346	2/25/2010@13:36:45		
247505004	1	56	-1.98	0.00137	2/25/2010@13:37:38		
247505005	1	57	-1.07	0.0448	2/25/2010@13:38:30		
247533001	1	58	476	22.7	2/25/2010@13:39:22		
247533002	1	59	1.91e+3	90.9	2/25/2010@13:40:14		
WCN100225-03	1	S3	110	5.30	2/25/2010@13:41:07		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			9.9 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			9.9 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100225-08	1	S7	-0.877	0.0538	2/25/2010@13:42:58		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.877 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.877 > -5.00				
Message			CCB Passed				
Action			Continue				
247548001	1	60	-1.11	0.0426	2/25/2010@13:44:45		
247548002	1	61	1.17	0.151	2/25/2010@13:45:40		
247273002|954509|	1	28	106	5.10	2/25/2010@13:46:32	2.00	
247533001|955983|	1	58	43.8	2.17	2/25/2010@13:47:24	10.00	
247533002	1	59	183	8.78	2/25/2010@13:48:16	25.00	
WCN100225-03	1	S3	104	5.01	2/25/2010@13:49:09		CCV
Known Conc:			100				
DQM Test: > + Percent Relative Difference							
Result:			3.7 < 10.0				
Message			CCV Passed				
Action			Continue				
DQM Test: < - Percent Relative Difference							
Result:			3.7 < 10.0				
Message			CCV Passed				
Action			Continue				
WCN100225-08	1	S7	-0.996	0.0482	2/25/2010@13:50:59		CCB
Known Conc:			0.00				
DQM Test: > + Concentration Limit							
Result:			-0.996 < 5.00				
Message			CCB Passed				
Action			Continue				
DQM Test: < - Concentration Limit							
Result:			-0.996 > -5.00				
Message			CCB Passed				
Action			Continue				

Analyte Properties Table for OM_2-25-2010_12-14-00.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A

Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

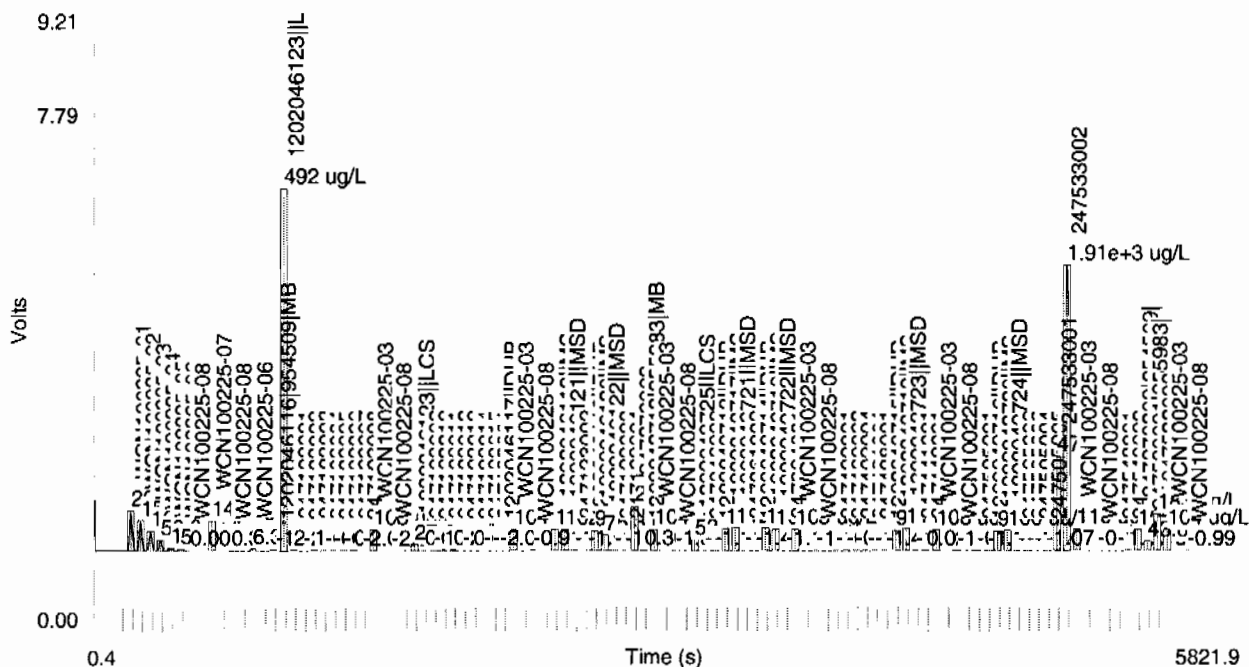
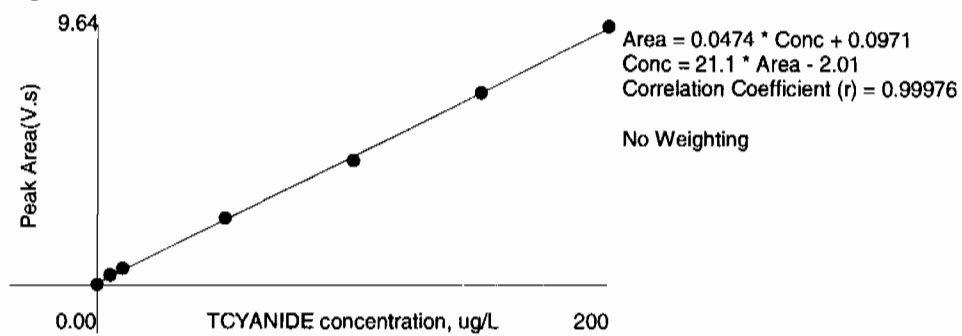


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.64	0.609	-0.7	2/25/2010	12:18:25
2	150	1	7.20	0.459	0.0	2/25/2010	12:19:17
3	100	1	4.68	0.300	3.2	2/25/2010	12:20:10
4	50.0	1	2.51	0.160	-1.8	2/25/2010	12:21:03
5	10.0	1	0.629	0.0395	-10.1	2/25/2010	12:21:56
6	5.00	1	0.384	0.0226	-14.9	2/25/2010	12:22:50
7	0.00	1	0.0380	0.00110		2/25/2010	12:23:44

Figure 1: TCYANIDE



This is runlog Lachat1

Sample ID	Batch	Dilution	Analyst	Runtime	Dataset
CCV		1	axc2	2/25/2010 15:12:01	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010 15:13:51	OM_2-25-2010_15-11-15
1202046664	954711	1	axc2	2/25/2010 15:15:41	OM_2-25-2010_15-11-15
1202046671	954711	25	axc2	2/25/2010 15:16:36	OM_2-25-2010_15-11-15
247040009	954711	1	axc2	2/25/2010 15:17:29	OM_2-25-2010_15-11-15
247040010	954711	1	axc2	2/25/2010 15:18:24	OM_2-25-2010_15-11-15
247040011	954711	1	axc2	2/25/2010 15:19:17	OM_2-25-2010_15-11-15
247040012	954711	1	axc2	2/25/2010 15:20:10	OM_2-25-2010_15-11-15
247040013	954711	1	axc2	2/25/2010 15:21:03	OM_2-25-2010_15-11-15
247040014	954711	1	axc2	2/25/2010 15:21:56	OM_2-25-2010_15-11-15
247040015	954711	1	axc2	2/25/2010 15:22:49	OM_2-25-2010_15-11-15
247040016	954711	1	axc2	2/25/2010 15:23:42	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010 15:24:35	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010 15:26:25	OM_2-25-2010_15-11-15
247097001	954711	1	axc2	2/25/2010 15:28:14	OM_2-25-2010_15-11-15
247097002	954711	1	axc2	2/25/2010 15:29:06	OM_2-25-2010_15-11-15
247097003	954711	1	axc2	2/25/2010 15:29:58	OM_2-25-2010_15-11-15
247097004	954711	1	axc2	2/25/2010 15:30:51	OM_2-25-2010_15-11-15
247097005	954711	1	axc2	2/25/2010 15:31:45	OM_2-25-2010_15-11-15
247201001	954711	1	axc2	2/25/2010 15:32:39	OM_2-25-2010_15-11-15
1202046665	954711	1	axc2	2/25/2010 15:33:33	OM_2-25-2010_15-11-15
1202046667	954711	1	axc2	2/25/2010 15:34:28	OM_2-25-2010_15-11-15
1202046669	954711	1	axc2	2/25/2010 15:35:21	OM_2-25-2010_15-11-15
247201002	954711	1	axc2	2/25/2010 15:36:15	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010 15:37:07	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010 15:38:58	OM_2-25-2010_15-11-15
1202046666	954711	1	axc2	2/25/2010 15:40:47	OM_2-25-2010_15-11-15
1202046668	954711	1	axc2	2/25/2010 15:41:41	OM_2-25-2010_15-11-15
1202046670	954711	1	axc2	2/25/2010 15:42:34	OM_2-25-2010_15-11-15
247201003	954711	1	axc2	2/25/2010 15:43:27	OM_2-25-2010_15-11-15
247201004	954711	1	axc2	2/25/2010 15:44:20	OM_2-25-2010_15-11-15
247201005	954711	1	axc2	2/25/2010 15:45:13	OM_2-25-2010_15-11-15
247201006	954711	1	axc2	2/25/2010 15:46:06	OM_2-25-2010_15-11-15
247201007	954711	1	axc2	2/25/2010 15:46:58	OM_2-25-2010_15-11-15
1202049739	955987	1	axc2	2/25/2010 15:47:50	OM_2-25-2010_15-11-15
1202049746	955987	25	axc2	2/25/2010 15:48:45	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010 15:49:37	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010 15:51:27	OM_2-25-2010_15-11-15
247249001	955987	1	axc2	2/25/2010 15:53:18	OM_2-25-2010_15-11-15
247249002	955987	1	axc2	2/25/2010 15:54:12	OM_2-25-2010_15-11-15
247338007	955987	1	axc2	2/25/2010 15:55:06	OM_2-25-2010_15-11-15
1202049740	955987	1	axc2	2/25/2010 15:56:01	OM_2-25-2010_15-11-15
1202049742	955987	1	axc2	2/25/2010 15:56:55	OM_2-25-2010_15-11-15
1202049744	955987	1	axc2	2/25/2010 15:57:49	OM_2-25-2010_15-11-15
247338008	955987	1	axc2	2/25/2010 15:58:42	OM_2-25-2010_15-11-15
1202049741	955987	1	axc2	2/25/2010 15:59:35	OM_2-25-2010_15-11-15
1202049743	955987	1	axc2	2/25/2010 16:00:29	OM_2-25-2010_15-11-15
1202049745	955987	1	axc2	2/25/2010 16:01:22	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010 16:02:14	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010 16:04:05	OM_2-25-2010_15-11-15
247338009	955987	1	axc2	2/25/2010 16:05:54	OM_2-25-2010_15-11-15
247338010	955987	1	axc2	2/25/2010 16:06:47	OM_2-25-2010_15-11-15
247338011	955987	1	axc2	2/25/2010 16:07:40	OM_2-25-2010_15-11-15
247347001	955987	1	axc2	2/25/2010 16:08:32	OM_2-25-2010_15-11-15
247347002	955987	1	axc2	2/25/2010 16:09:27	OM_2-25-2010_15-11-15
247347003	955987	1	axc2	2/25/2010 16:10:22	OM_2-25-2010_15-11-15
247347004	955987	1	axc2	2/25/2010 16:11:17	OM_2-25-2010_15-11-15
247347005	955987	1	axc2	2/25/2010 16:12:11	OM_2-25-2010_15-11-15

247347006	955987	1	axc2	2/25/2010	16:13:05	OM_2-25-2010_15-11-15
247347007	955987	1	axc2	2/25/2010	16:13:59	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010	16:14:52	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010	16:16:42	OM_2-25-2010_15-11-15
247347008	955987	1	axc2	2/25/2010	16:18:33	OM_2-25-2010_15-11-15
247359001	955987	1	axc2	2/25/2010	16:19:27	OM_2-25-2010_15-11-15
247359002	955987	1	axc2	2/25/2010	16:20:21	OM_2-25-2010_15-11-15
247359003	955987	1	axc2	2/25/2010	16:21:14	OM_2-25-2010_15-11-15
247359004	955987	1	axc2	2/25/2010	16:22:07	OM_2-25-2010_15-11-15
247552002	955987	1	axc2	2/25/2010	16:23:00	OM_2-25-2010_15-11-15
CCV		1	axc2	2/25/2010	16:23:53	OM_2-25-2010_15-11-15
CCB		1	axc2	2/25/2010	16:25:44	OM_2-25-2010_15-11-15

Original Run Filename: OM_2-25-2010_15-11-15.OMN created 2/25/2010 15:11:15
 Original Run Author's Signature: [axc2]
 Current Run Filename: OM_2-25-2010_15-11-15.OMN last modified 2/25/2010 16:26:48
 Current Run Author's Signature: [axc2]
 Description: GL-GC-E-095 EPA 335.1, 335.3, 335.4, 9012A, CLP335.2-M
 Liquid LCS nominal 50 ug/L

Sample	Rep.	Cup No.	Channel 1		Detection Time	ADF	MDF	Description
			TCYANIDE	Area (Vs)				
WCN100225-03	1	S3	93.8	4.54	2/25/2010@15:12:01			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-6.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-6.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100225-08	1	S7	-1.29	0.0342	2/25/2010@15:13:51			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.29 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.29 > -5.00					
Message			CCB Passed					
Action			Continue					
Calibration:			Table/Fig. 1					
1202046664|954711|MB	1	62	-1.26	0.0354	2/25/2010@15:15:41			
1202046671|LCS	1	63	20.2	1.05	2/25/2010@15:16:36		25.00	
247040009	1	64	-0.381	0.0774	2/25/2010@15:17:29			
247040010	1	65	2.94	0.235	2/25/2010@15:18:24			
247040011	1	66	-0.810	0.0570	2/25/2010@15:19:17			
247040012	1	67	2.37	0.208	2/25/2010@15:20:10			
247040013	1	68	-0.421	0.0754	2/25/2010@15:21:03			
247040014	1	69	2.04	0.192	2/25/2010@15:21:56			
247040015	1	70	-0.752	0.0597	2/25/2010@15:22:49			
247040016	1	71	-2.22	-0.00975	2/25/2010@15:23:42			
WCN100225-03	1	S3	98.6	4.77	2/25/2010@15:24:35			CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-1.4 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.4 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100225-08	1	S7	-1.53	0.0230	2/25/2010@15:26:25			CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.53 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.53 > -5.00					
Message			CCB Passed					
Action			Continue					
247097001	1	72	-0.645	0.0648	2/25/2010@15:28:14			
247097002	1	73	-0.931	0.0513	2/25/2010@15:29:06			
247097003	1	74	-0.937	0.0510	2/25/2010@15:29:58			
247097004	1	75	-1.16	0.0405	2/25/2010@15:30:51			
247097005	1	76	-0.518	0.0709	2/25/2010@15:31:45			

247201001	1	77	1.57	0.170	2/25/2010@15:32:39			
1202046665	DUP	1	78	1.62	0.172	2/25/2010@15:33:33		
1202046667	MS	1	79	95.6	4.63	2/25/2010@15:34:28		
1202046669	MSD	1	80	88.3	4.28	2/25/2010@15:35:21		
247201002		1	81	1.52	0.167	2/25/2010@15:36:15		
WCN100225-03		1	S3	98.8	4.78	2/25/2010@15:37:07		CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			-1.2 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100225-08		1	S7	-1.45	0.0265	2/25/2010@15:38:58		CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.45 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.45 > -5.00					
Message			CCB Passed					
Action			Continue					
1202046666	DUP	1	82	1.24	0.154	2/25/2010@15:40:47		
1202046668	MS	1	83	90.0	4.36	2/25/2010@15:41:41		
1202046670	MSD	1	84	98.0	4.74	2/25/2010@15:42:34		
247201003		1	85	0.892	0.138	2/25/2010@15:43:27		
247201004		1	86	1.31	0.157	2/25/2010@15:44:20		
247201005		1	87	0.962	0.141	2/25/2010@15:45:13		
247201006		1	88	3.55	0.263	2/25/2010@15:46:06		
247201007		1	89	-0.233	0.0844	2/25/2010@15:46:58		
1202049739	955987|MB	1	90	-1.75	0.0126	2/25/2010@15:47:50		
1202049746	LCS	1	91	16.9	0.898	2/25/2010@15:48:45	25.00	
WCN100225-03		1	S3	101	4.86	2/25/2010@15:49:37		CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								
Result:			0.6 < 10.0					
Message			CCV Passed					
Action			Continue					
DQM Test: < - Percent Relative Difference								
Result:			0.6 < 10.0					
Message			CCV Passed					
Action			Continue					
WCN100225-08		1	S7	-1.48	0.0251	2/25/2010@15:51:27		CCB
Known Conc:			0.00					
DQM Test: > + Concentration Limit								
Result:			-1.48 < 5.00					
Message			CCB Passed					
Action			Continue					
DQM Test: < - Concentration Limit								
Result:			-1.48 > -5.00					
Message			CCB Passed					
Action			Continue					
247249001		1	92	-0.837	0.0557	2/25/2010@15:53:18		
247249002		1	93	-1.08	0.0441	2/25/2010@15:54:12		
247338007		1	94	-1.30	0.0336	2/25/2010@15:55:06		
1202049740	DUP	1	95	-1.29	0.0340	2/25/2010@15:56:01		
1202049742	MS	1	96	100	4.84	2/25/2010@15:56:55		
1202049744	MSD	1	97	100	4.83	2/25/2010@15:57:49		
247338008		1	98	1.80	0.181	2/25/2010@15:58:42		
1202049741	DUP	1	99	-1.61	0.0190	2/25/2010@15:59:35		
1202049743	MS	1	100	92.9	4.50	2/25/2010@16:00:29		
1202049745	MSD	1	101	102	4.92	2/25/2010@16:01:22		
WCN100225-03		1	S3	100	4.84	2/25/2010@16:02:14		CCV
Known Conc:			100					
DQM Test: > + Percent Relative Difference								

			Result:	0.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	0.1 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-1.11	0.0429	2/25/2010@16:04:05		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.11 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.11 > -5.00				
			Message	CCB Passed				
			Action	Continue				
247338009	1	102		-2.00	3.73e-4	2/25/2010@16:05:54		
247338010	1	103		-2.02	-1.74e-4	2/25/2010@16:06:47		
247338011	1	104		-1.51	0.0238	2/25/2010@16:07:40		
247347001	1	105		-1.26	0.0355	2/25/2010@16:08:32		
247347002	1	106		-1.57	0.0209	2/25/2010@16:09:27		
247347003	1	107		-1.38	0.0302	2/25/2010@16:10:22		
247347004	1	108		-1.38	0.0301	2/25/2010@16:11:17		
247347005	1	109		-1.24	0.0366	2/25/2010@16:12:11		
247347006	1	110		-1.31	0.0333	2/25/2010@16:13:05		
247347007	1	111		-2.15	-0.00660	2/25/2010@16:13:59		
WCN100225-03	1	S3		100	4.84	2/25/2010@16:14:52		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	-0.0 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	-0.0 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-1.47	0.0259	2/25/2010@16:16:42		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.47 < 5.00				
			Message	CCB Passed				
			Action	Continue				
DQM Test: < - Concentration Limit								
			Result:	-1.47 > -5.00				
			Message	CCB Passed				
			Action	Continue				
247347008	1	112		-1.35	0.0313	2/25/2010@16:18:33		
247359001	1	113		9.72	0.556	2/25/2010@16:19:27		
247359002	1	114		3.74	0.273	2/25/2010@16:20:21		
247359003	1	115		-0.434	0.0748	2/25/2010@16:21:14		
247359004	1	116		-1.40	0.0288	2/25/2010@16:22:07		
247552002	1	117		-0.339	0.0793	2/25/2010@16:23:00		
WCN100225-03	1	S3		100	4.84	2/25/2010@16:23:53		CCV
			Known Conc:	100				
DQM Test: > + Percent Relative Difference								
			Result:	0.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
DQM Test: < - Percent Relative Difference								
			Result:	0.2 < 10.0				
			Message	CCV Passed				
			Action	Continue				
WCN100225-08	1	S7		-1.54	0.0225	2/25/2010@16:25:44		CCB
			Known Conc:	0.00				
DQM Test: > + Concentration Limit								
			Result:	-1.54 < 5.00				
			Message	CCB Passed				

Action	Continue				
DQM Test: < - Concentration Limit					
Result:	-1.54 > -5.00				
Message	CCB Passed				
Action	Continue				

Analyte Properties Table for OM_2-25-2010_15-11-15.OMN

Property	Channel 1 TCYANIDE
Concentration Units	ug/L
Calibration Fit Type	First Order
Clear Calibration	True
Force Through Zero	False
Calibration Weighting	None
Auto Dilution Trigger	True
% of High Standard	100
Quik Chem Method	10-204-00-1-A
Chemistry	Direct/Bipolar
Calibration by Height	False
Inject to Peak Start	22
Peak Base Width	39

Channel 1: Current View

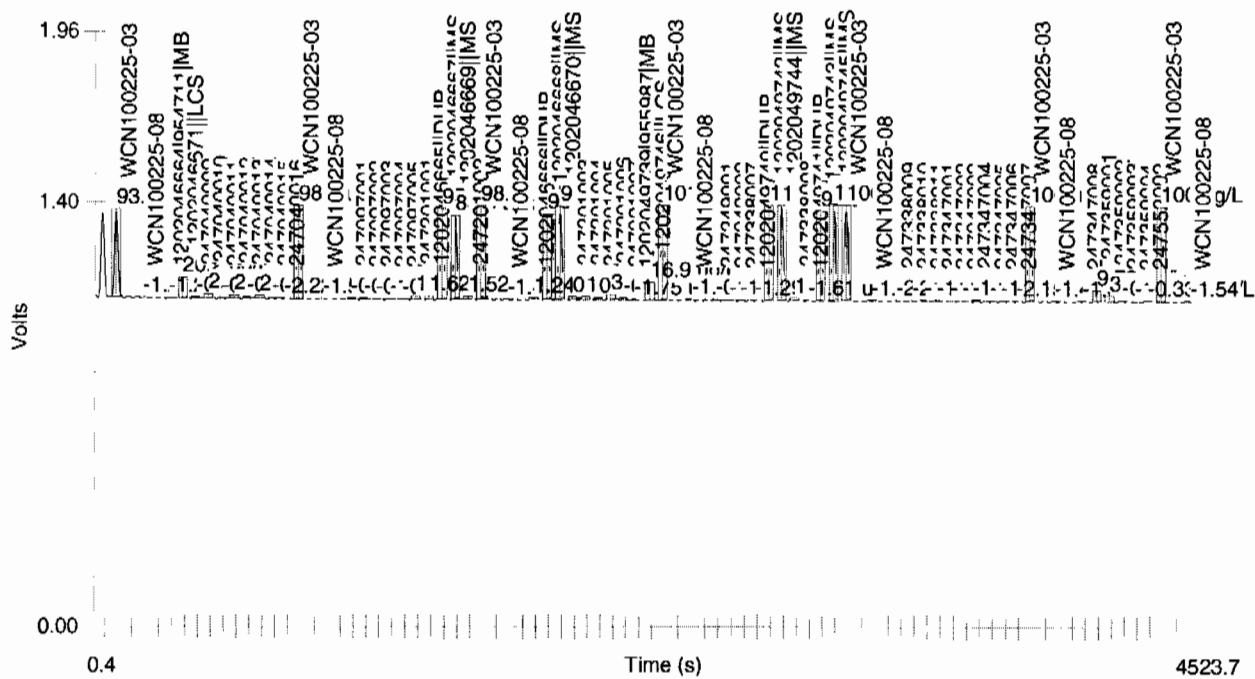
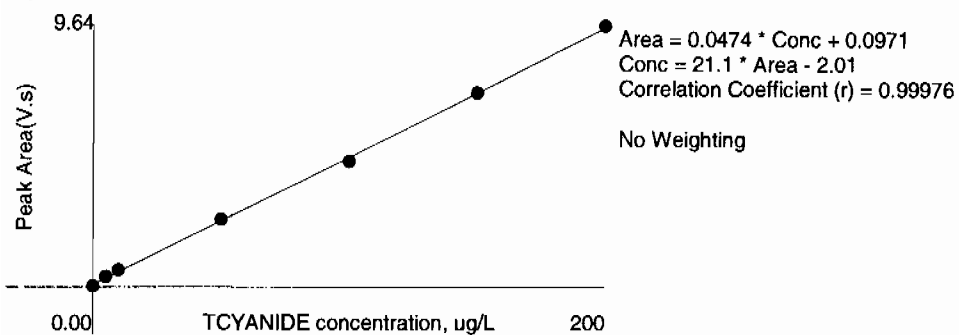


Table 1: TCYANIDE

	Conc. (ug/L)	Rep	Peak Area (Volt-s)	Peak Height (Volts)	% Residual	Detection Date	Detection Time
1	200	1	9.64	0.609	-0.7	2/25/2010	12:18:25
2	150	1	7.20	0.459	0.0	2/25/2010	12:19:17
3	100	1	4.68	0.300	3.2	2/25/2010	12:20:10
4	50.0	1	2.51	0.160	-1.8	2/25/2010	12:21:03
5	10.0	1	0.629	0.0395	-10.1	2/25/2010	12:21:56
6	5.00	1	0.384	0.0226	-14.9	2/25/2010	12:22:50
7	0.00	1	0.0380	0.00110		2/25/2010	12:23:44

Figure 1: TCYANIDE



Ion Chromatography

Prep Logbook

Ion Chromatography (IC)

Batch ID:	955446.0	Verified by:					
Analyst:	Mary Sherwood	Type	Sample Id	Description	Serial Number	Spike Amount	Spike Units
Method:	EPA 300.0 PREP	LCS	1202048434	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
Lab SOP:	GL-GC-E-086 REV# 17	MS	1202048430	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
Instrument:	Sartorius Balance B-001	MS	1202048431	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
		MSD	1202048432	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL
		MSD	1202048433	GEL-ANION-4C Spiking Solution	UIC100224SPK	.8	mL

Sample ID	Run Date	Matrix	Initial Weight (g)	Final Volume (mL)	Prep Factor (mL/g)	pH Check	1
1202048427 MB	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048434 LCS	06-MAR-2010 10:50:00	Soil	4	40	10		
247336001	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048428 DUP (247336001)	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048430 MS (247336001)	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048432 MSD (247336001)	06-MAR-2010 10:50:00	Soil	4	40	10		
247336002	06-MAR-2010 10:50:00	Soil	4	40	10		
247336003	06-MAR-2010 10:50:00	Soil	4	40	10		
247336004	06-MAR-2010 10:50:00	Soil	4	40	10		
247336005	06-MAR-2010 10:50:00	Soil	4	40	10		
247336006	06-MAR-2010 10:50:00	Soil	4	40	10		
247336007	06-MAR-2010 10:50:00	Soil	4	40	10		
247359001	06-MAR-2010 10:50:00	Soil	4	40	10		
247359002	06-MAR-2010 10:50:00	Soil	4	40	10		
247359003	06-MAR-2010 10:50:00	Soil	4	40	10		
247359004	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048429 DUP (247359004)	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048431 MS (247359004)	06-MAR-2010 10:50:00	Soil	4	40	10		
1202048433 MSD (247359004)	06-MAR-2010 10:50:00	Soil	4	40	10		

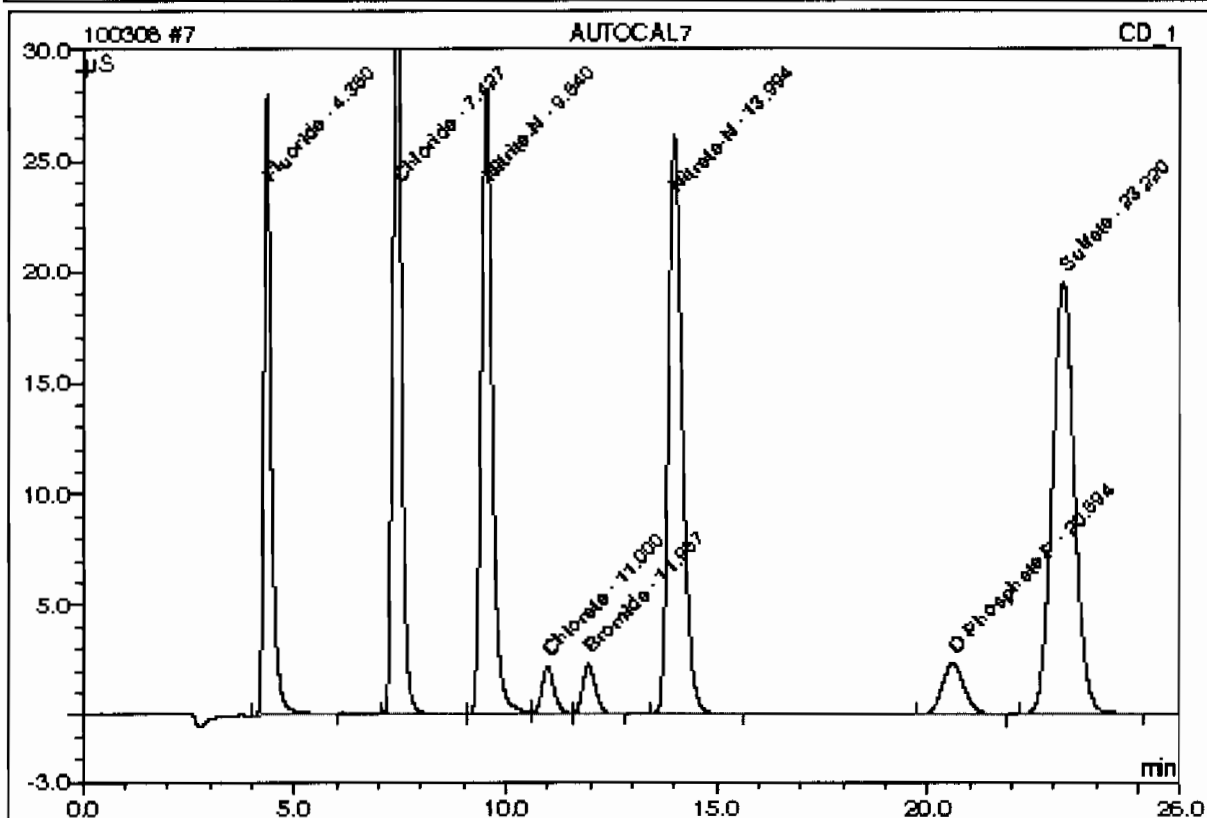
Reagent/Solvent Lot ID	Description	Amount	Comments:
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This is runlog for Sequence 100308.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
ICAL-07	02/26/10 14:11		1	100308	MAR1
ICAL-06	02/26/10 14:40		1	100308	MAR1
ICAL-05	02/26/10 15:09		1	100308	MAR1
ICAL-04	02/26/10 15:38		1	100308	MAR1
ICAL-03	02/26/10 16:07		1	100308	MAR1
ICAL-02	02/26/10 16:36		1	100308	MAR1
ICAL-01	02/26/10 17:04		1	100308	MAR1

7 AUTOCAL7

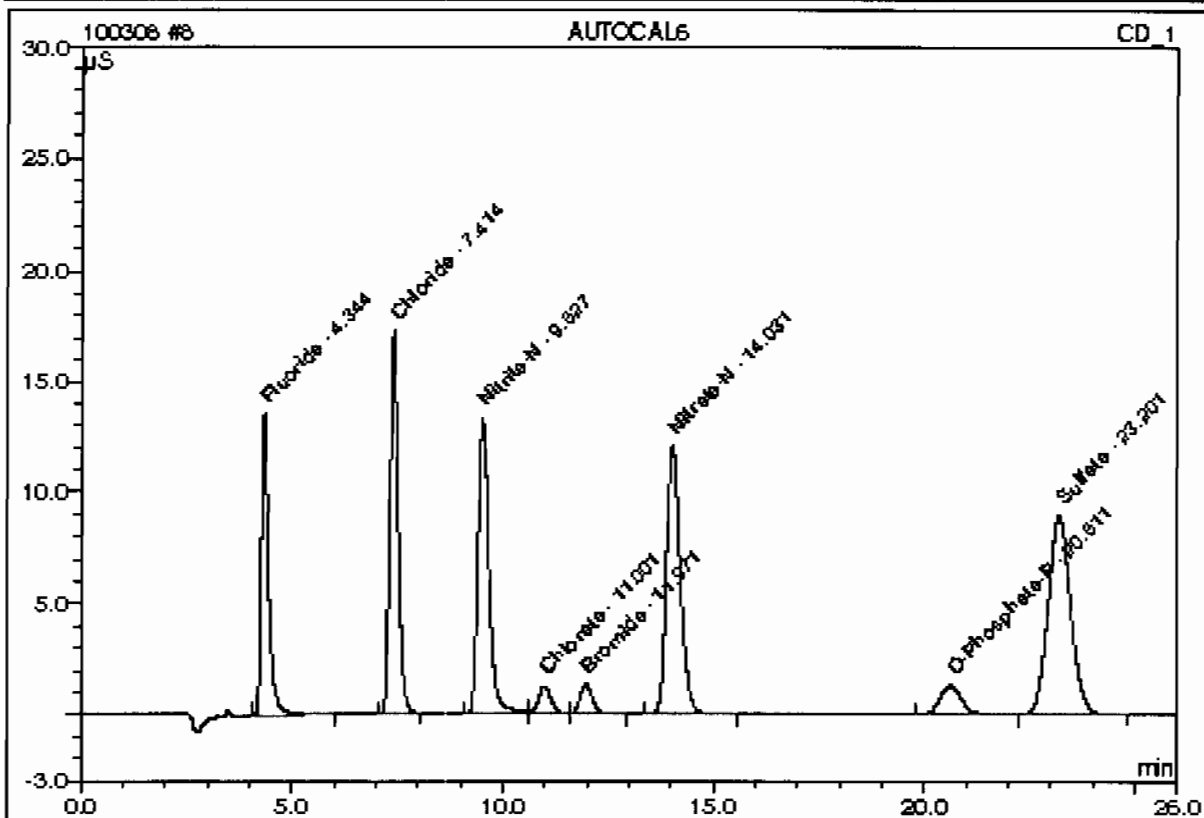
Sample Name:	AUTOCAL7	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 14:11	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.35	Fluoride	10.0000	10.0855		5.77442	12.08
2	7.43	Chloride	20.0000	20.3596		8.66452	18.13
3	9.54	Nitrite-N	10.0000	10.0633		8.38569	17.54
4	11.00	Chlorate	5.0000	4.9969		0.72891	1.52
5	11.97	Bromide	5.0000	4.9428		0.76589	1.60
6	13.99	Nitrate-N	10.0000	10.1518		10.17664	21.30
7	20.59	O-Phosphate-P	5.0000	5.0680		1.40399	2.94
8	23.22	Sulfate	40.0000	40.5177		11.89615	24.89
Total:				106.1856	0.000	47.798	100.00

8 AUTOCAL6

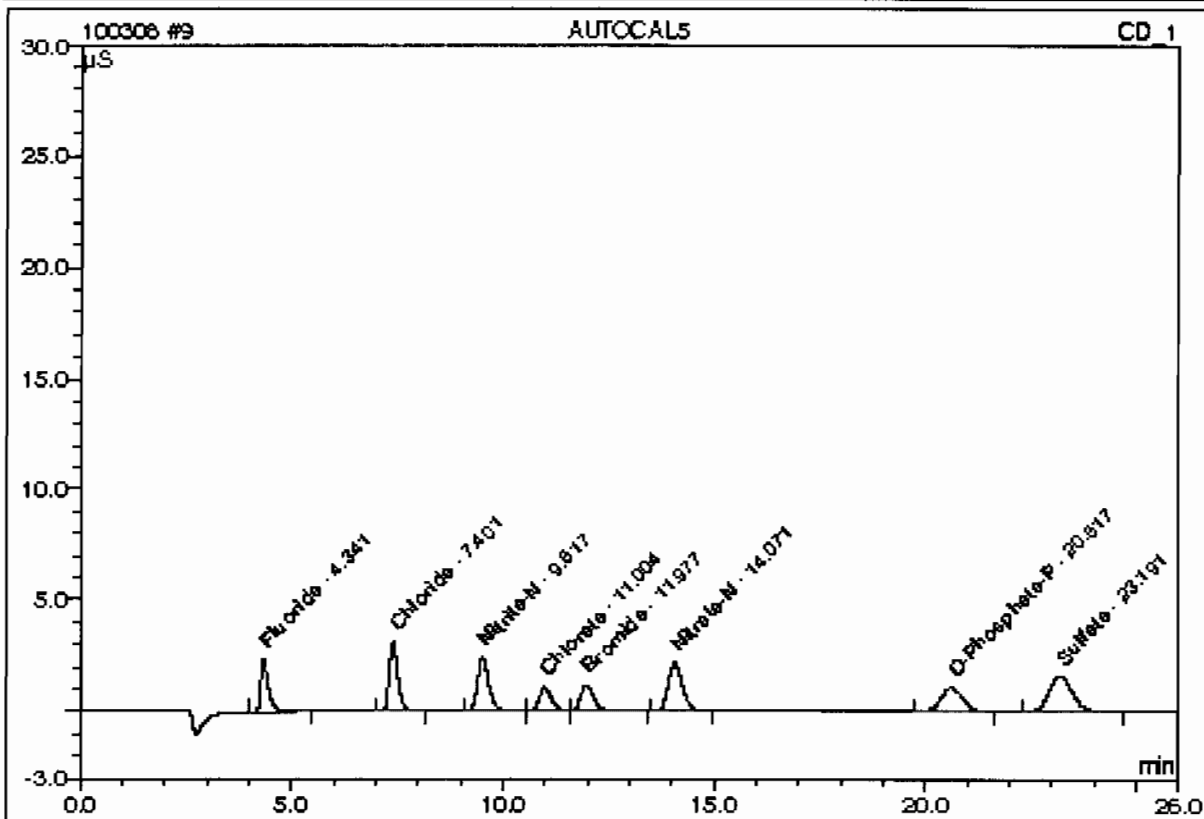
Sample Name:	AUTOCAL6	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 14:40	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.34	Fluoride	5.0000	4.8384		2.75188	12.16
2	7.41	Chloride	10.0000	9.2955		3.91334	17.29
3	9.53	Nitrite-N	5.0000	4.8858		4.04396	17.86
4	11.00	Chlorate	3.0000	3.0905		0.44848	1.98
5	11.97	Bromide	3.0000	2.9623		0.45913	2.03
6	14.03	Nitrate-N	5.0000	4.7080		4.67150	20.63
7	20.61	O-Phosphate-P	3.0000	2.9576		0.80102	3.54
8	23.20	Sulfate	20.0000	19.0177		5.55000	24.51
Total:				51.7555	0.000	22.639	100.00

9 AUTOCAL5

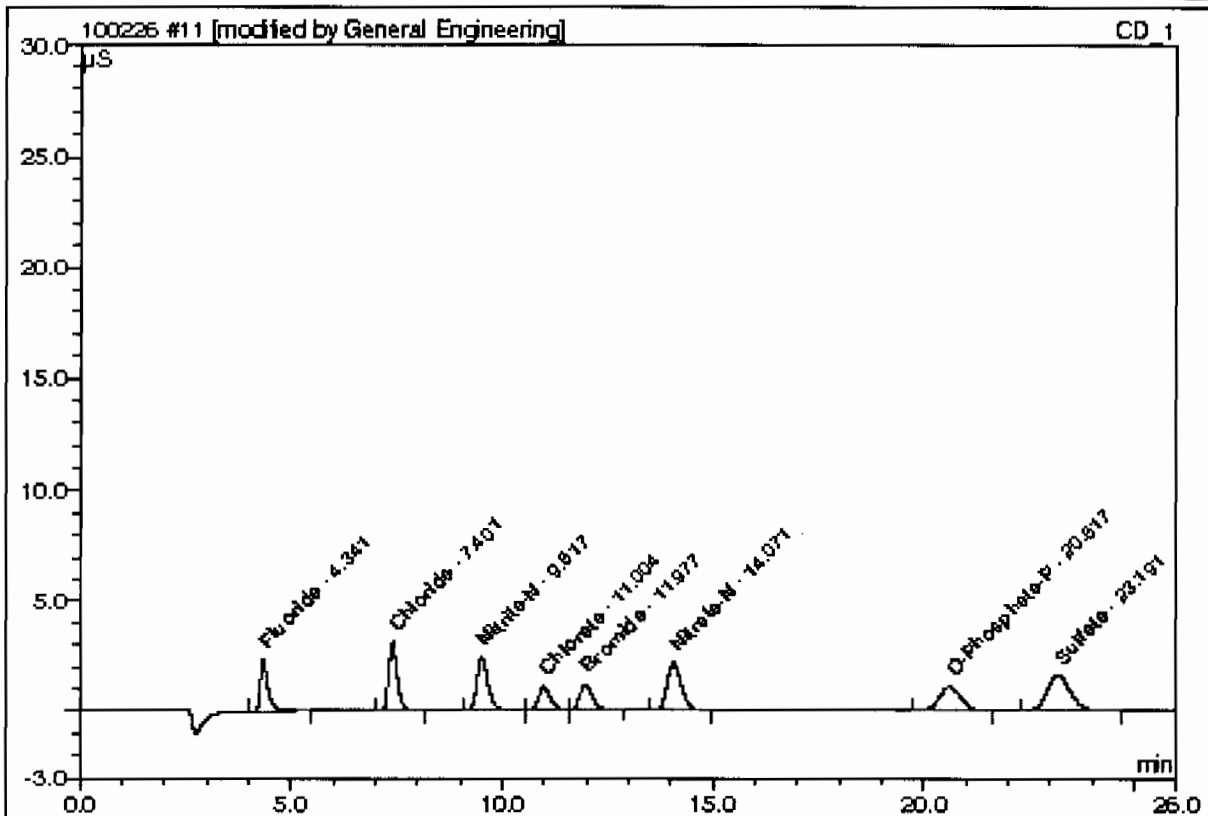
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:09	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.34	Fluoride	1.0000	0.9456		0.50946	9.66
2	7.40	Chloride	2.0000	1.8831		0.73030	13.85
3	9.52	Nitrite-N	1.0000	0.9352		0.73136	13.87
4	11.00	Chlorate	2.5000	2.4073		0.34799	6.60
5	11.98	Bromide	2.5000	2.6793		0.41530	7.88
6	14.07	Nitrate-N	1.0000	0.9238		0.84323	15.99
7	20.62	O-Phosphate-P	2.5000	2.4571		0.65802	12.48
8	23.19	Sulfate	4.0000	3.7265		1.03648	19.66
Total:				15.9578	0.000	5.272	100.00

11 AUTOCAL5

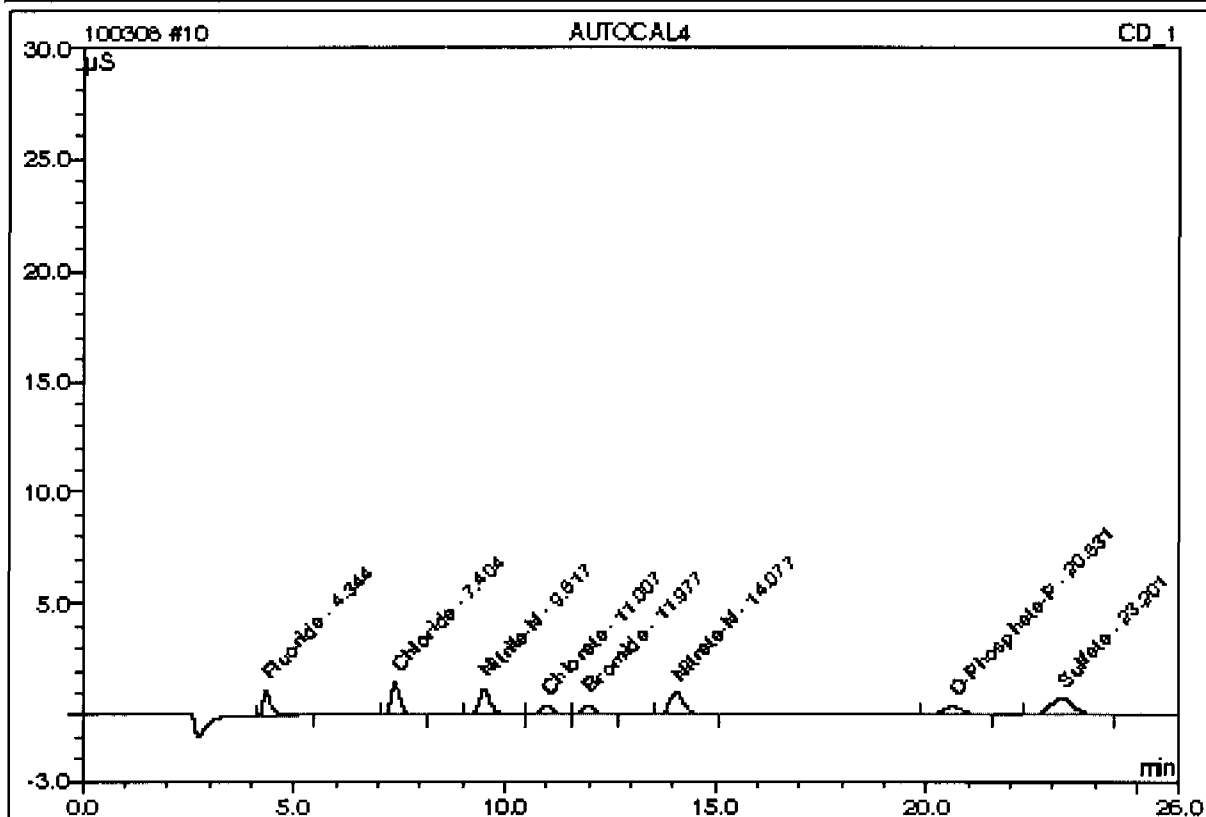
Sample Name:	AUTOCAL5	Injection Volume:	1.0
Vial Number:	5	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:09	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086,300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.34	Fluoride	1.0000	0.9456		0.50946	9.72
2	7.40	Chloride	2.0000	1.8831		0.73030	13.93
3	9.52	Nitrite-N	1.0000	0.9315		0.72762	13.88
4	11.00	Chlorate	2.5000	2.3673		0.34093	6.50
5	11.98	Bromide	2.5000	2.5838		0.39739	7.58
6	14.07	Nitrate-N	1.0000	0.9238		0.84323	16.08
7	20.62	O-Phosphate-P	2.5000	2.4544		0.65602	12.55
8	23.19	Sulfate	4.0000	3.7873		1.03648	19.77
Total:				15.8767	0.000	5.243	100.00

10 AUTOCAL4

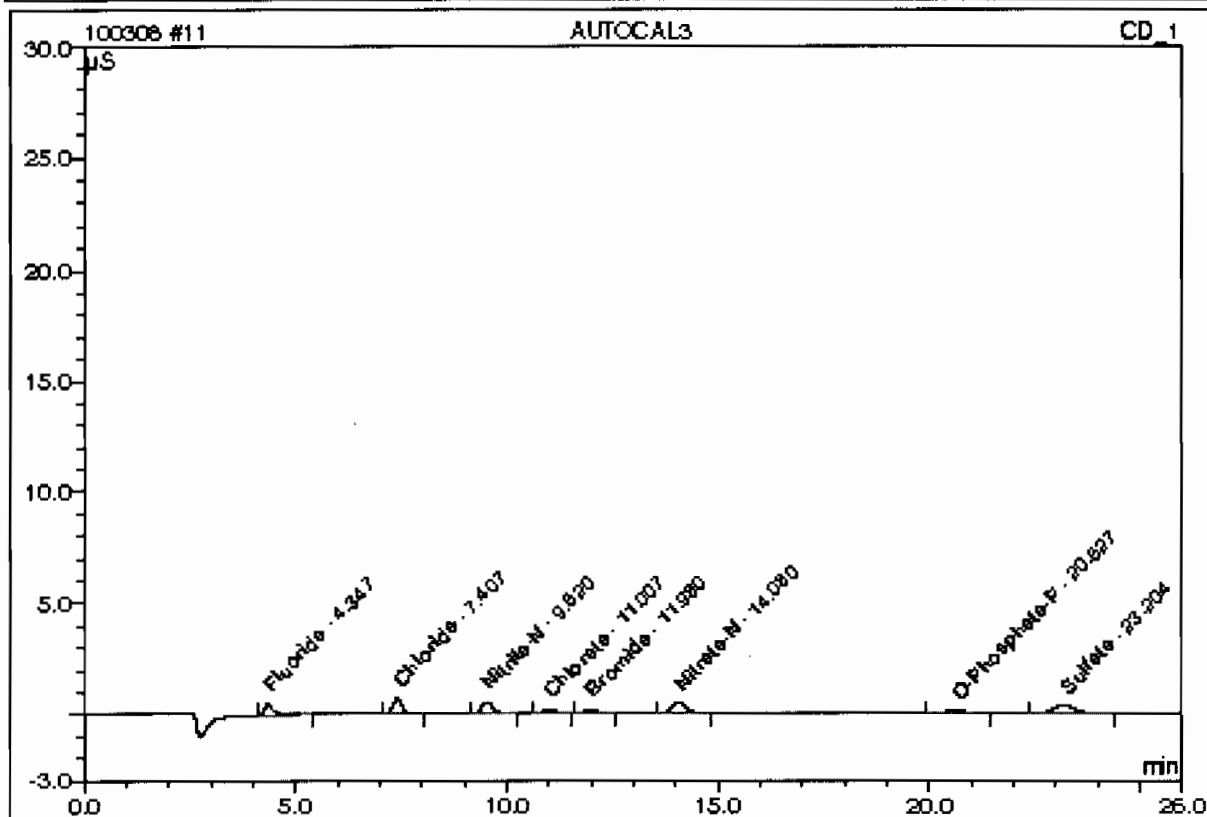
Sample Name:	AUTOCAL4	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 15:38	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.34	Fluoride	0.5000	0.4893		0.24663	10.36
2	7.40	Chloride	1.0000	0.9971		0.34985	14.69
3	9.52	Nitrite-N	0.5000	0.4888		0.35700	14.99
4	11.01	Chlorate	1.0000	0.9788		0.13787	5.79
5	11.98	Bromide	1.0000	0.9719		0.15086	6.34
6	14.08	Nitrate-N	0.5000	0.4953		0.40975	17.21
7	20.63	O-Phosphate-P	1.0000	0.9259		0.22053	9.26
8	23.20	Sulfate	2.0000	1.9380		0.50858	21.36
Total:				7.2852	0.000	2.381	100.00

11 AUTOCAL3

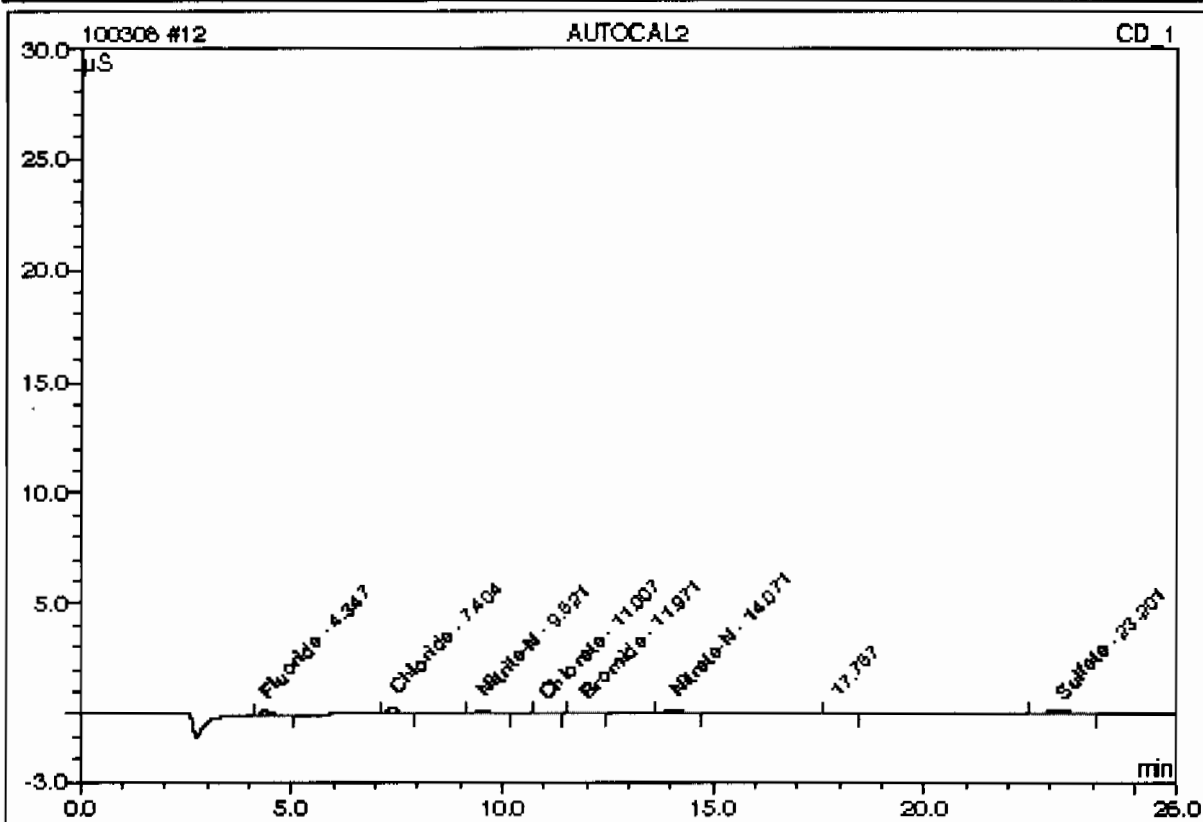
Sample Name:	AUTOCAL3	Injection Volume:	1.0
Vial Number:	7	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:07	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.35	Fluoride	0.2500	0.2826		0.12755	10.86
2	7.41	Chloride	0.5000	0.6142		0.18541	15.79
3	9.52	Nitrite-N	0.2500	0.2696		0.17315	14.75
4	11.01	Chlorate	0.5000	0.5000		0.06743	5.74
5	11.98	Bromide	0.5000	0.4657		0.07246	6.17
6	14.08	Nitrate-N	0.2500	0.2969		0.20912	17.81
7	20.63	O-Phosphate-P	0.5000	0.4374		0.08097	6.90
8	23.20	Sulfate	1.0000	1.0893		0.25806	21.98
Total:				3.9557	0.000	1.174	100.00

12 AUTOCAL2

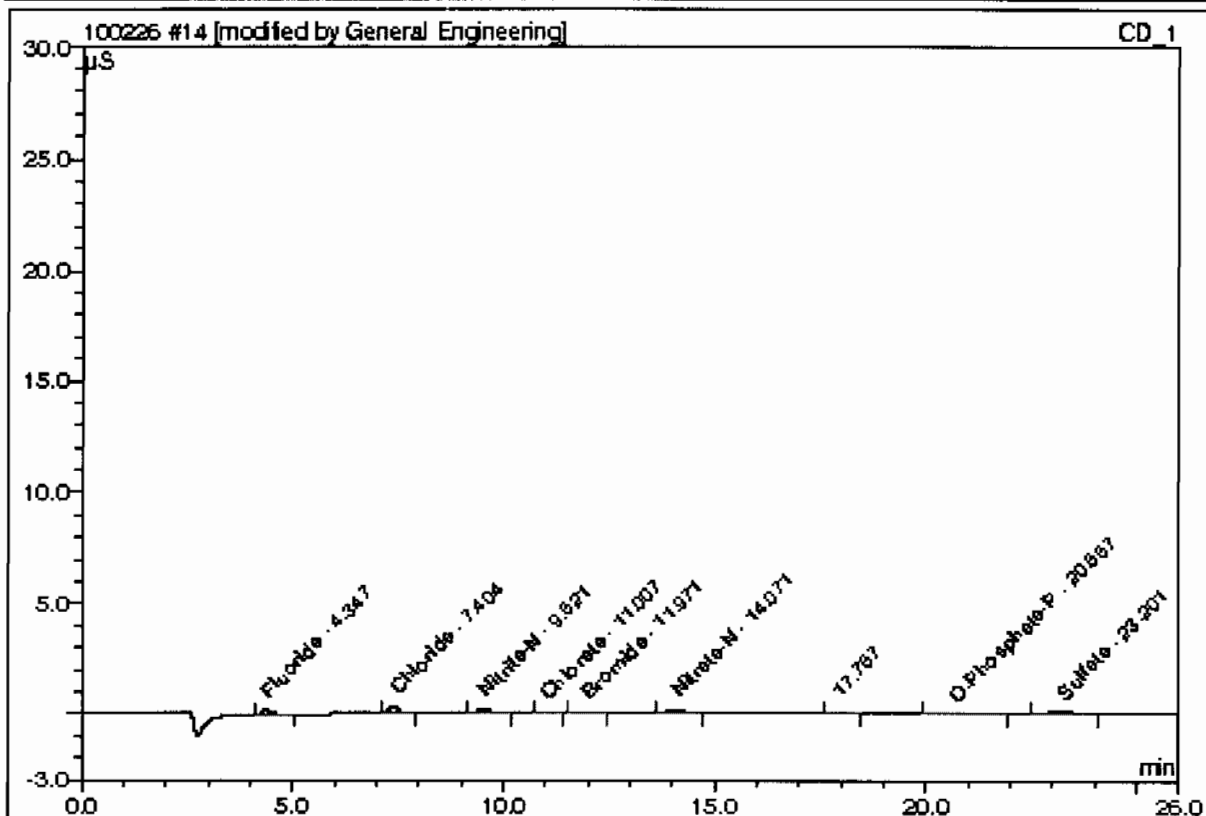
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:36	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.35	Fluoride	0.1000	0.1475		0.04972	10.74
2	7.40	Chloride	0.2000	0.3681		0.07973	17.22
3	9.52	Nitrite-N	0.1000	0.1444		0.06824	14.74
4	11.01	Chlorate	0.2000	0.1849		0.02108	4.55
5	11.97	Bromide	0.2000	0.1801		0.02821	6.10
6	14.07	Nitrate-N	0.1000	0.1840		0.09485	20.49
n.a.	n.a.	O-Phosphate-P	0.2000	n.a.	n.a.	n.a.	n.a.
8	23.20	Sulfate	0.4000	0.5652		0.10336	22.33
Total:				1.7742	0.000	0.445	96.18

14 AUTOCAL2

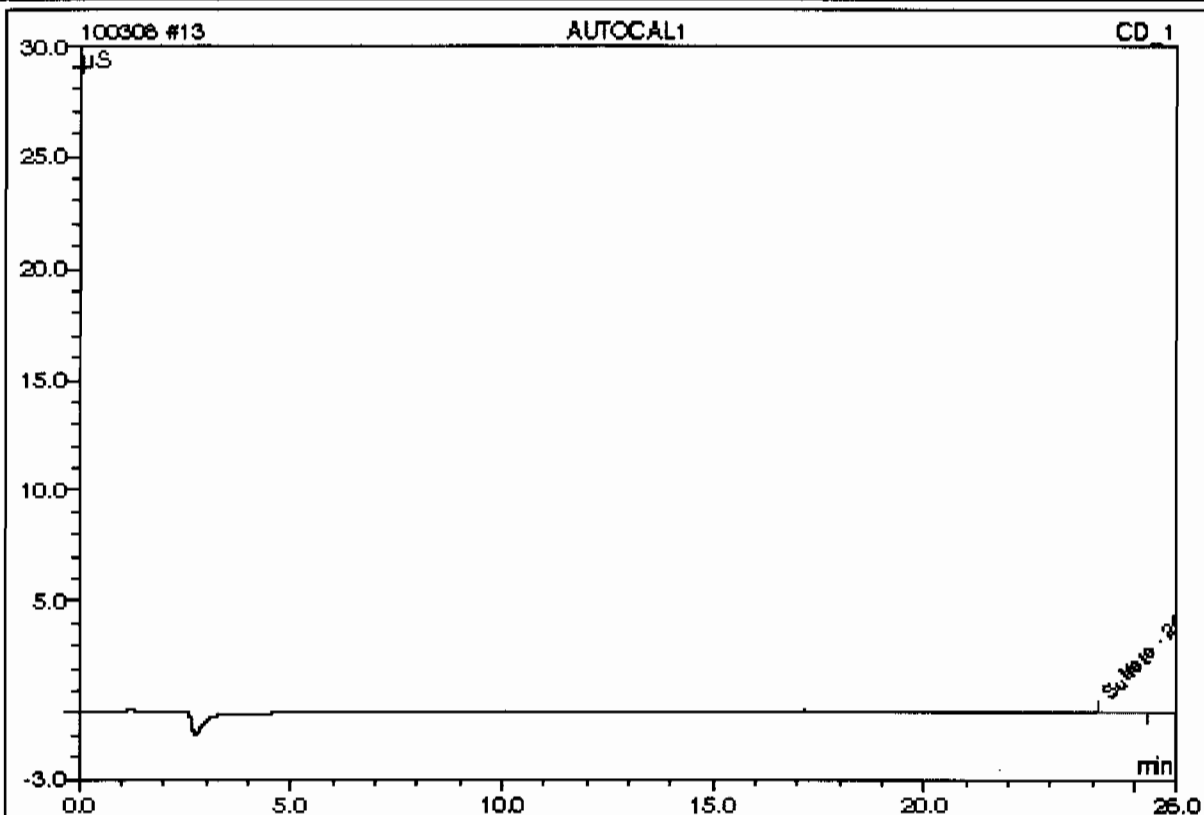
Sample Name:	AUTOCAL2	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 16:36	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	0.1000	0.1475		0.04972	10.26
2	7.40	Chloride	0.2000	0.3681		0.07973	16.45
3	9.52	Nitrite-N	0.1000	0.1452		0.06824	14.08
4	11.01	Chlorate	0.2000	0.1890		0.02108	4.35
5	11.97	Bromide	0.2000	0.1899		0.02821	5.82
6	14.07	Nitrate-N	0.1000	0.1840		0.09485	19.57
8	20.66	O-Phosphate-P	0.2000	0.2223		0.02173	4.48
9	23.20	Sulfate	0.4000	0.6333		0.10336	21.33
Total:				2.0793	0.000	0.467	96.35

13 AUTOCAL1

Sample Name:	AUTOCAL1	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	standard	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 17:04	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	0.0000	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	0.0000	n.a.	n.a.	n.a.	n.a.
1	24.32	Sulfate	0.0000	0.3305		0.03410	100.00
Total:				0.3305	0.000	0.034	100.00

13 AUTOCAL1

Sample Name: AUTOCAL1

Vial Number: 9

Sample Type: standard

Control Program: AS23

Quantif. Method: 100225an

Recording Time: 2/26/2010 17:04

Run Time (min): 26.00

Injection Volume: 1.0

Channel: CD_1

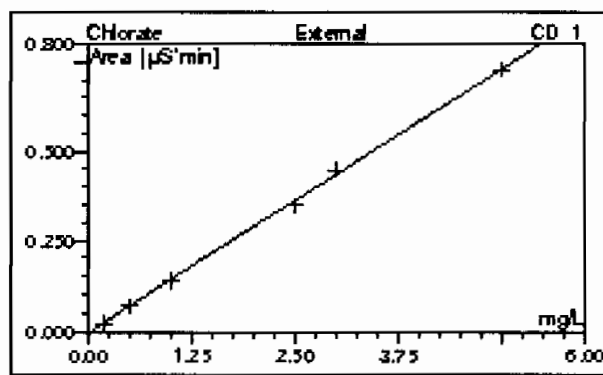
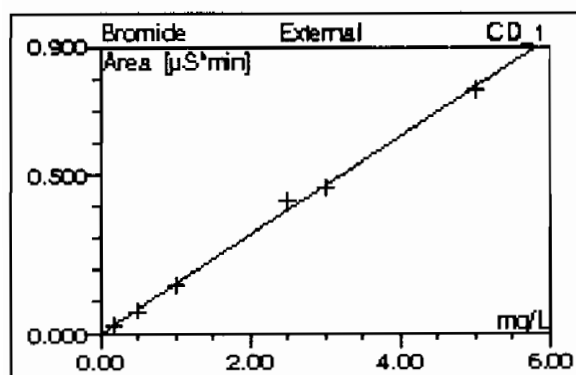
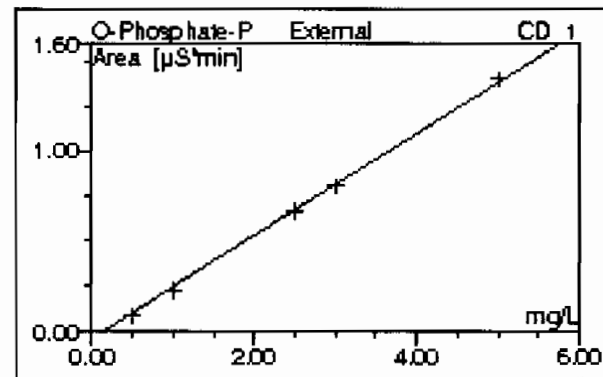
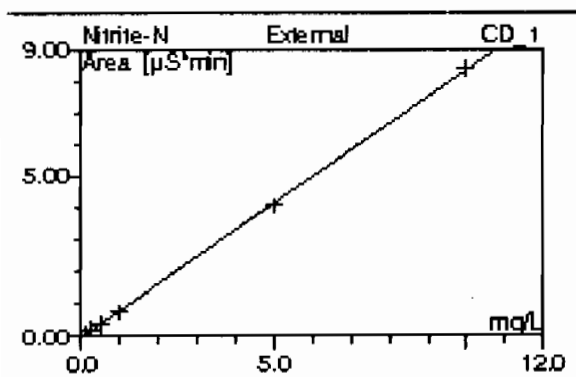
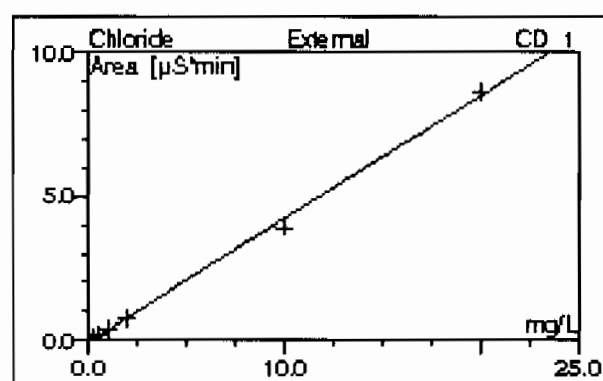
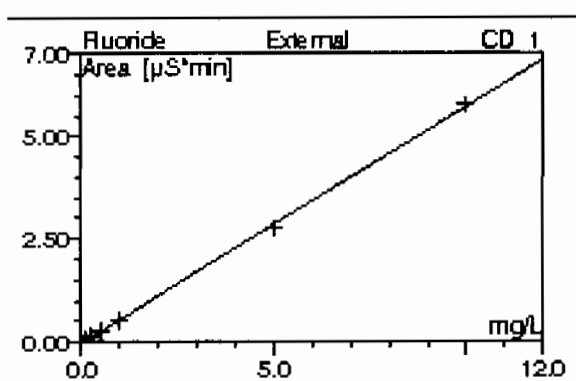
Dilution Factor: 1.0000

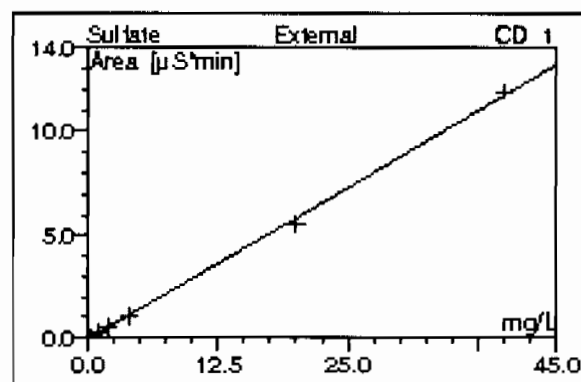
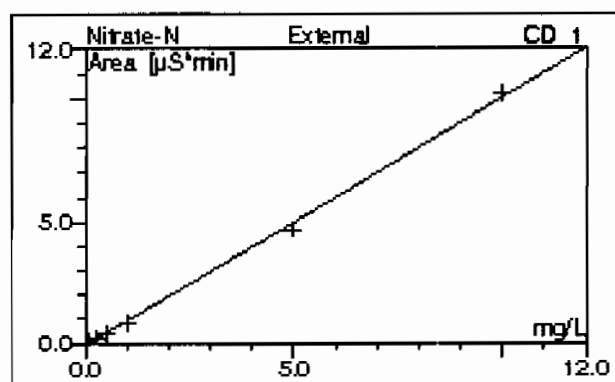
Sample Weight: 1.0000

Sample Amount: 1.0000

Analyst: MAR1

Column: AS23-002712; GL GC E086; 300; 9056





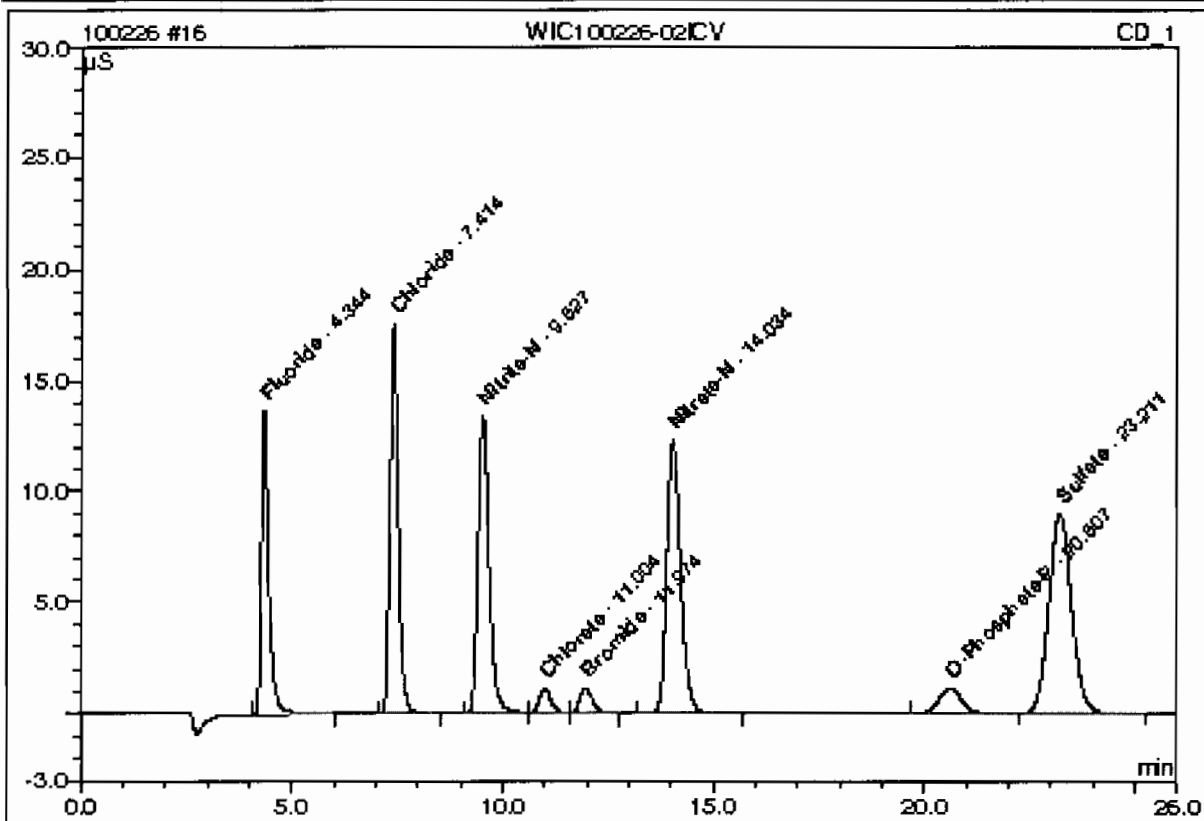
No. CD_1	Ret.Time CD_1 min	Peak Name CD_1	Cal.Type CD_1	Coeff.Det. CD_1 %	Offset CD_1	Slope CD_1	Curve CD_1
n.a.	n.a.	Fluoride	OLO#	99.9498	-0.0352	0.5760	0.0000
n.a.	n.a.	Chloride	OLO#	99.7865	-0.0783	0.4294	0.0000
n.a.	n.a.	Nitrite-N	OLO#	99.9701	-0.0529	0.8385	0.0000
n.a.	n.a.	Chlorate	OLO#	99.8968	-0.0061	0.1471	0.0000
n.a.	n.a.	Bromide	OLO#	99.7662	0.0003	0.1549	0.0000
n.a.	n.a.	Nitrate-N	OLO#	99.8450	-0.0913	1.0116	0.0000
n.a.	n.a.	O-Phosphate-P	OLO#	99.8686	-0.0440	0.2857	0.0000
1	24.32	Sulfate	OLO#	99.8943	-0.0635	0.2952	0.0000
Average:				99.8722	-0.0464	0.4673	0.0000

This is runlog for Sequence 100226.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	02/26/10 13:14		1	100226	MAR1
BLK	02/26/10 13:42		1	100226	MAR1
ICAL-07	02/26/10 14:11		1	100226	MAR1
ICAL-06	02/26/10 14:40		1	100226	MAR1
ICAL-05	02/26/10 15:09		1	100226	MAR1
ICAL-04	02/26/10 15:38		1	100226	MAR1
ICAL-03	02/26/10 16:07		1	100226	MAR1
ICAL-02	02/26/10 16:36		1	100226	MAR1
ICAL-01	02/26/10 17:04		1	100226	MAR1
ICV	02/26/10 17:33		1	100226	MAR1
ICB	02/26/10 18:02		1	100226	MAR1
1202055176	02/26/10 18:31	958323	1	100226	MAR1
1202055181	02/26/10 18:59	958323	1	100226	MAR1
248133001	02/26/10 19:28	958323	1	100226	MAR1
1202055177	02/26/10 19:57	958323	1	100226	MAR1
1202055179	02/26/10 20:26	958323	1	100226	MAR1
248133002	02/26/10 20:55	958323	1	100226	MAR1
248133003	02/26/10 21:24	958323	1	100226	MAR1
248133005	02/26/10 21:53	958323	1	100226	MAR1
248133006	02/26/10 22:22	958323	1	100226	MAR1
248133007	02/26/10 22:50	958323	1	100226	MAR1
CVH	02/26/10 23:19		1	100226	MAR1
CCB	02/26/10 23:48		1	100226	MAR1

16 WIC100226-02ICV

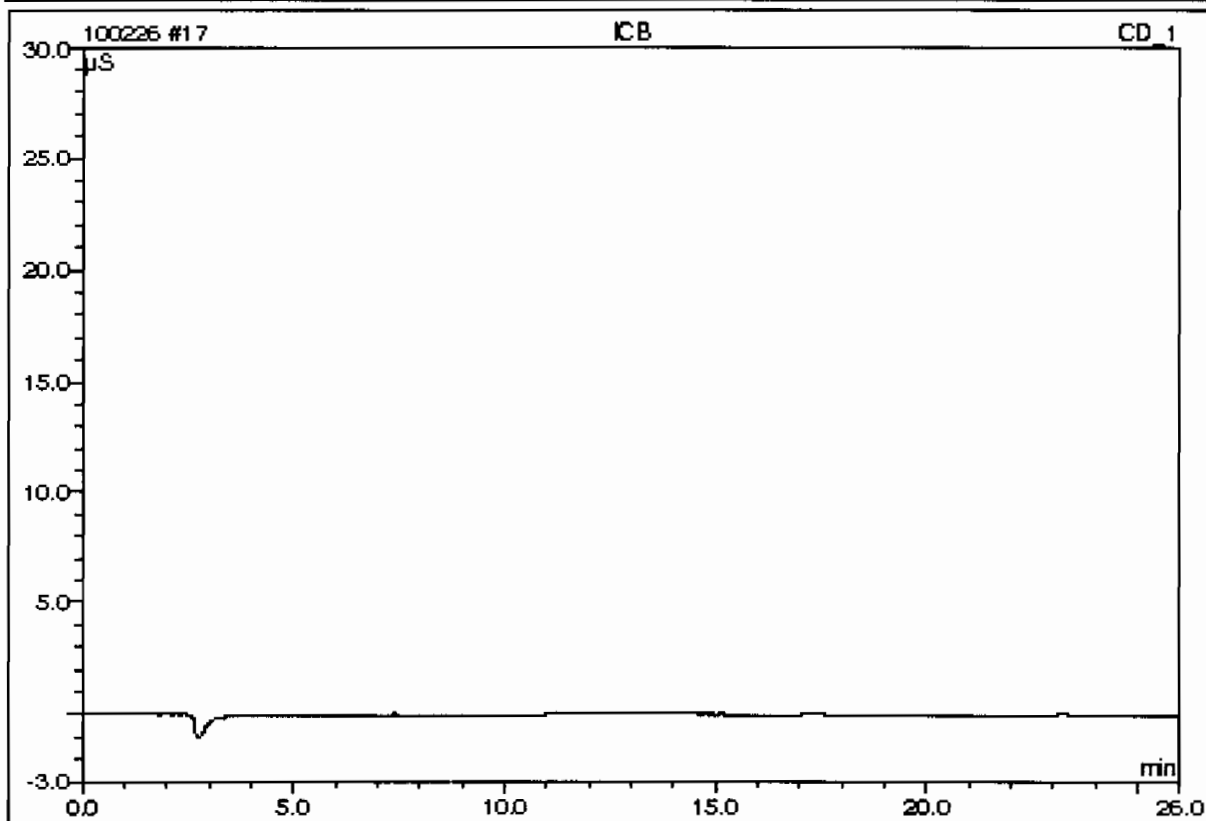
Sample Name:	WIC100226-02ICV	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 17:33	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.34	Fluoride	n.a.	4.8533		2.76044	12.27
2	7.41	Chloride	n.a.	9.4181		3.96602	17.63
3	9.53	Nitrite-N	n.a.	4.8245		3.99229	17.75
4	11.00	Chlorate	n.a.	2.4815		0.35771	1.59
5	11.97	Bromide	n.a.	2.4889		0.38276	1.70
6	14.03	Nitrate-N	n.a.	4.7766		4.74087	21.07
7	20.61	O-Phosphate-P	n.a.	2.7182		0.73321	3.26
8	23.21	Sulfate	n.a.	19.0842		5.56215	24.73
Total:				50.6453	0.000	22.495	100.00

17 ICB

Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	2/26/2010 18:02	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



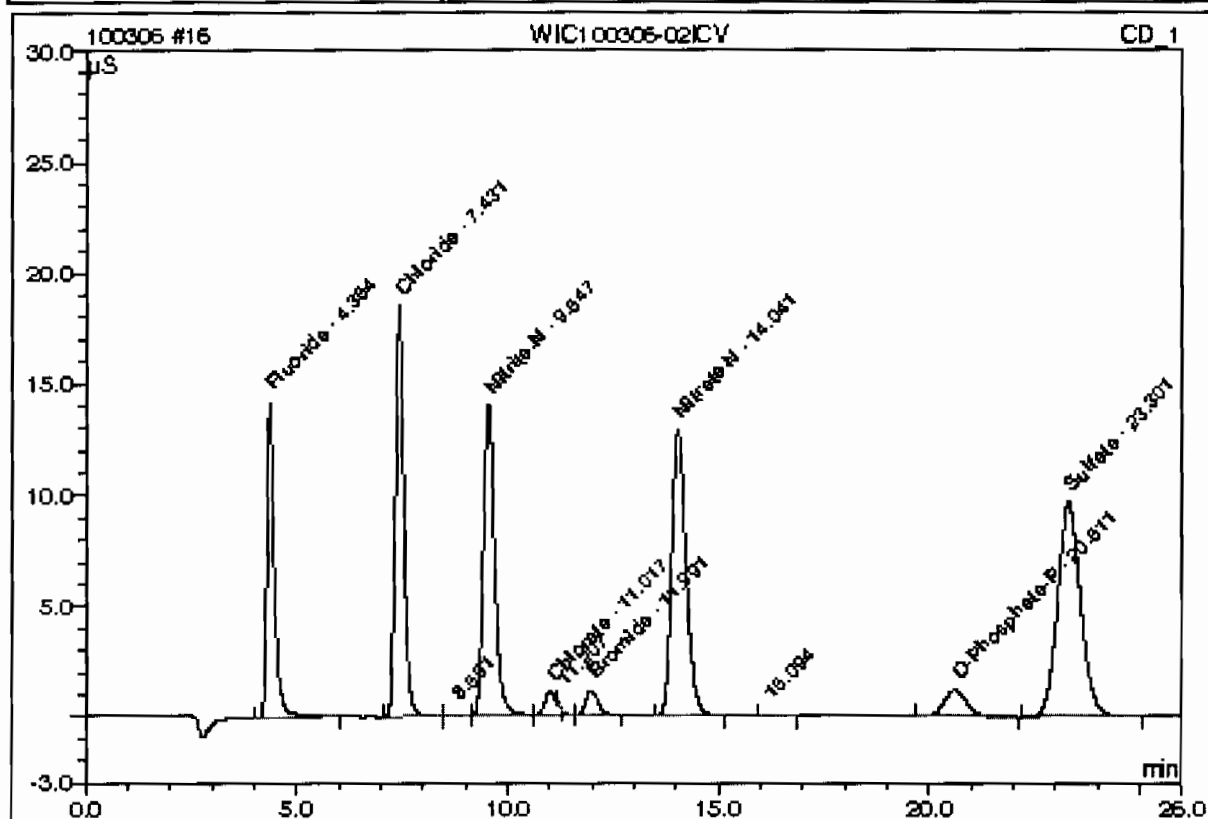
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

This is runlog for Sequence 100306.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/06/10 15:21		1	100306	MAR1
BLK	03/06/10 15:50		1	100306	MAR1
ICV	03/06/10 16:18		1	100306	MAR1
ICB	03/06/10 16:47		1	100306	MAR1
247094002	03/06/10 17:16	957884	2	100306	GXM3
1202054075	03/06/10 17:45	957884	2	100306	GXM3
1202054077	03/06/10 18:14	957884	2	100306	GXM3
1202054079	03/06/10 18:43	957884	2	100306	GXM3
CVH	03/06/10 19:12		1	100306	GXM3
CCB	03/06/10 19:41		1	100306	GXM3
1202048427	03/06/10 20:10	955448	1	100306	MAR1
1202048434	03/06/10 20:39	955448	1	100306	MAR1
247336001	03/06/10 21:08	955448	1	100306	MAR1
1202048428	03/06/10 21:36	955448	1	100306	MAR1
1202048430	03/06/10 22:05	955448	1	100306	MAR1
1202048432	03/06/10 22:34	955448	1	100306	MAR1
247336002	03/06/10 23:03	955448	1	100306	MAR1
247336003	03/06/10 23:32	955448	1	100306	MAR1

16 WIC100306-02ICV

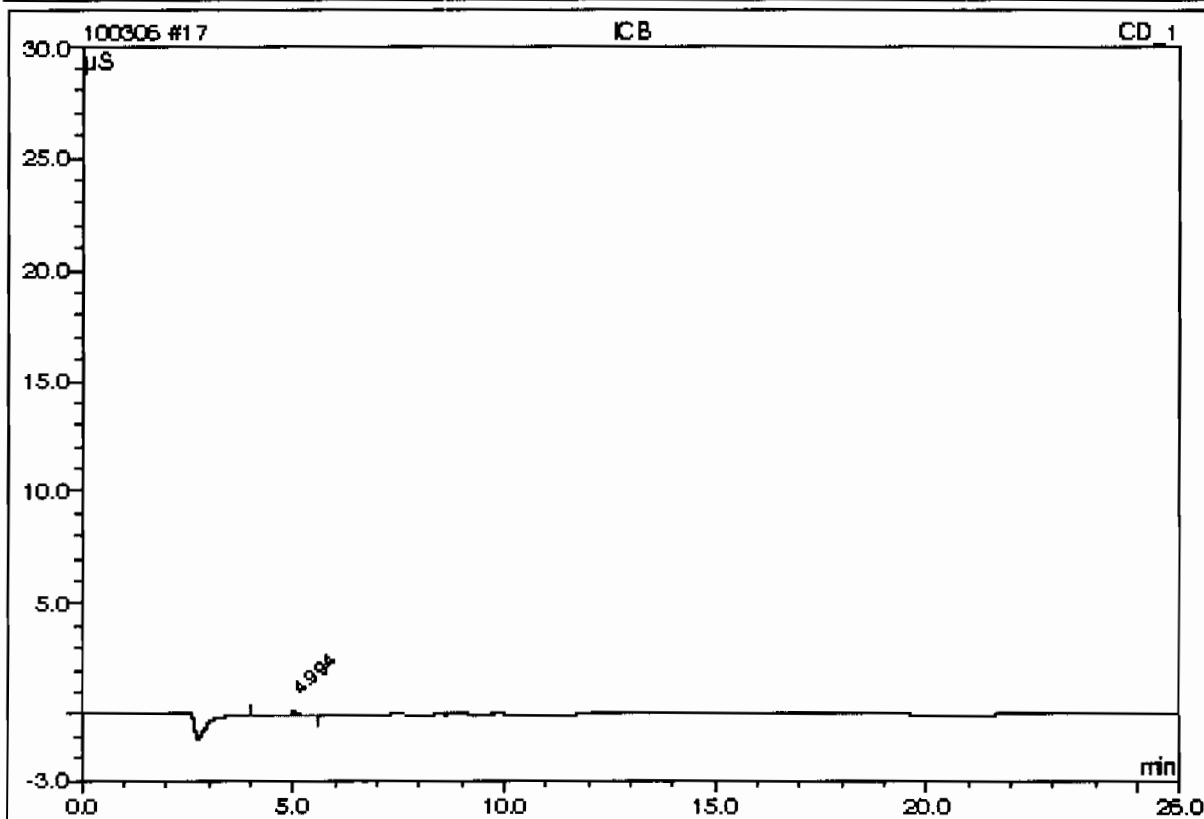
Sample Name:	WIC100306-02ICV	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 16:18	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	5.2090		2.96537	12.15
2	7.43	Chloride	n.a.	10.2406		4.31919	17.70
4	9.55	Nitrite-N	n.a.	5.1863		4.29577	17.60
5	11.02	Chlorate	n.a.	2.5947		0.37432	1.53
7	11.99	Bromide	n.a.	2.5507		0.39229	1.61
8	14.04	Nitrate-N	n.a.	5.1399		5.10842	20.93
10	20.61	O-Phosphate-P	n.a.	2.8430		0.76879	3.15
11	23.30	Sulfate	n.a.	20.9933		6.12696	25.10
Total:				54.7575	0.000	24.351	99.77

17 ICB

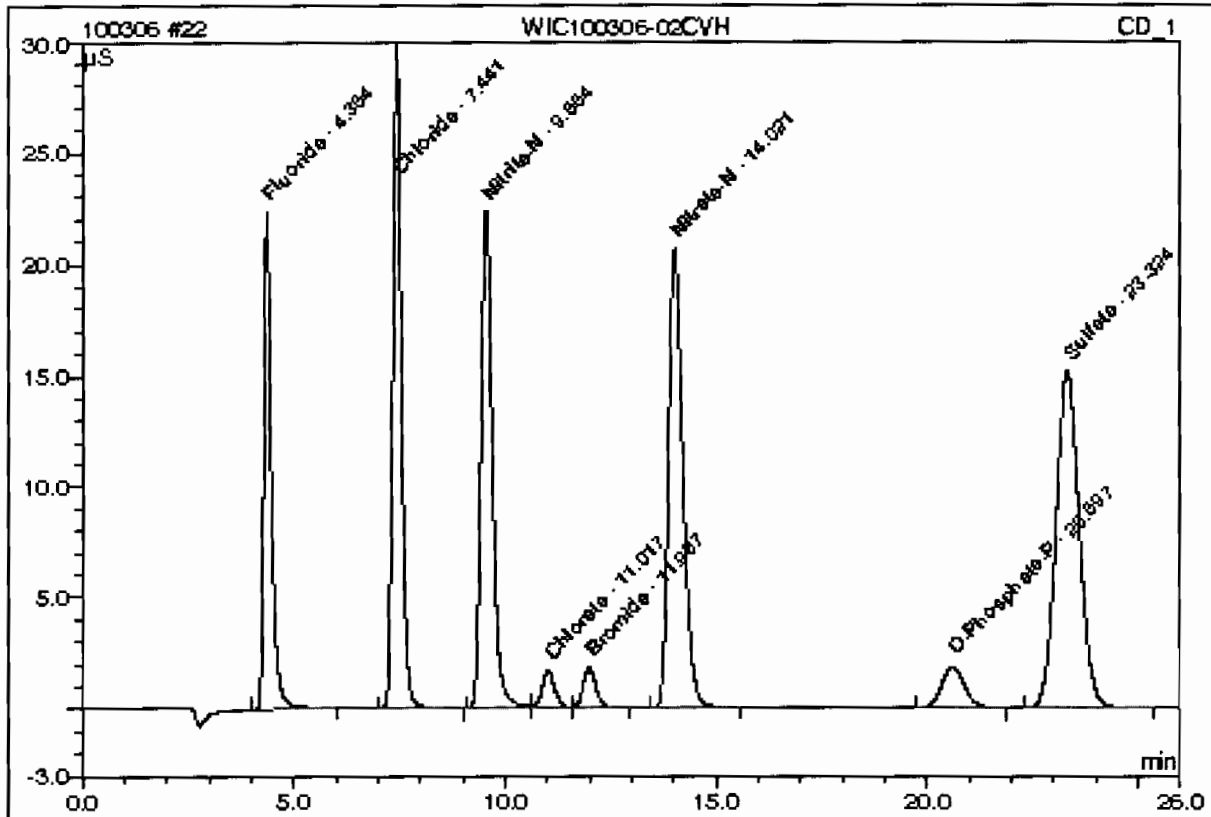
Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 16:47	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

22 WIC100306-02CVH

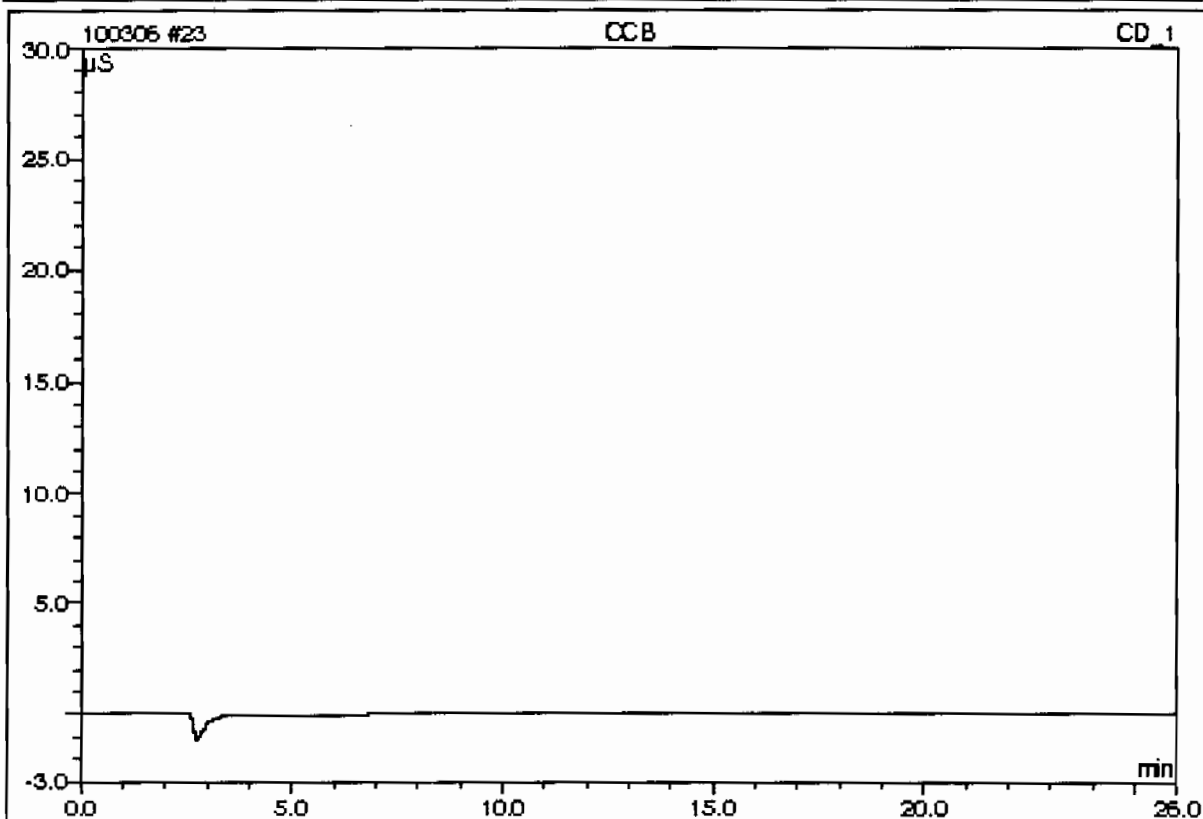
Sample Name:	WIC100306-02CVH	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 19:12	Analyst:	GXM3
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.36	Fluoride	n.a.	8.1568		4.66339	12.08
2	7.44	Chloride	n.a.	16.3534		6.94417	17.99
3	9.55	Nitrite-N	n.a.	8.2062		6.82828	17.69
4	11.02	Chlorate	n.a.	3.9565		0.57427	1.49
5	11.99	Bromide	n.a.	3.9972		0.61535	1.59
6	14.02	Nitrate-N	n.a.	8.1813		8.18518	21.20
7	20.60	O-Phosphate-P	n.a.	4.2403		1.16711	3.02
8	23.32	Sulfate	n.a.	32.8219		9.62653	24.94
Total:				85.9136	0.000	38.604	100.00

23 CCB

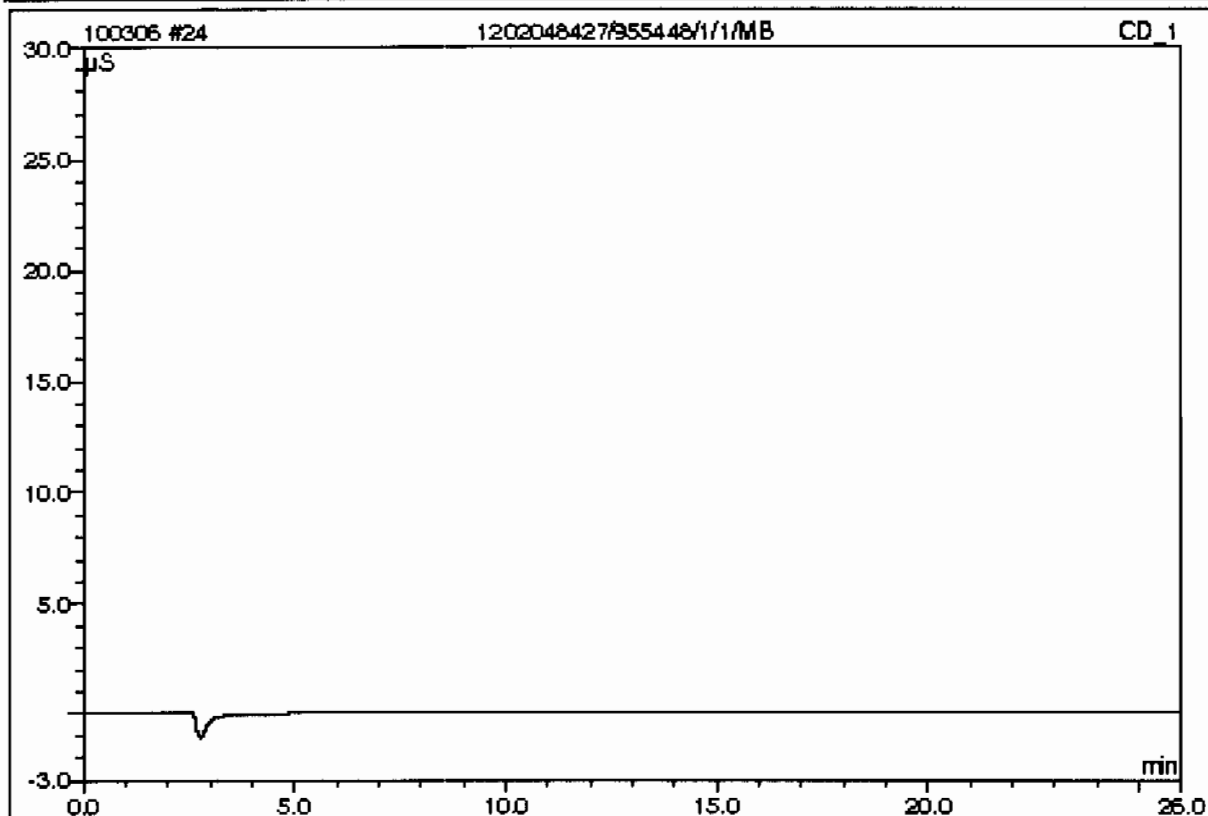
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 19:41	Analyst:	GXM3
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	<u>n.a.</u>	n.a.
Total:				0.0000	0.000	0.000	0.00

24 1202048427/955448/1/1/MB

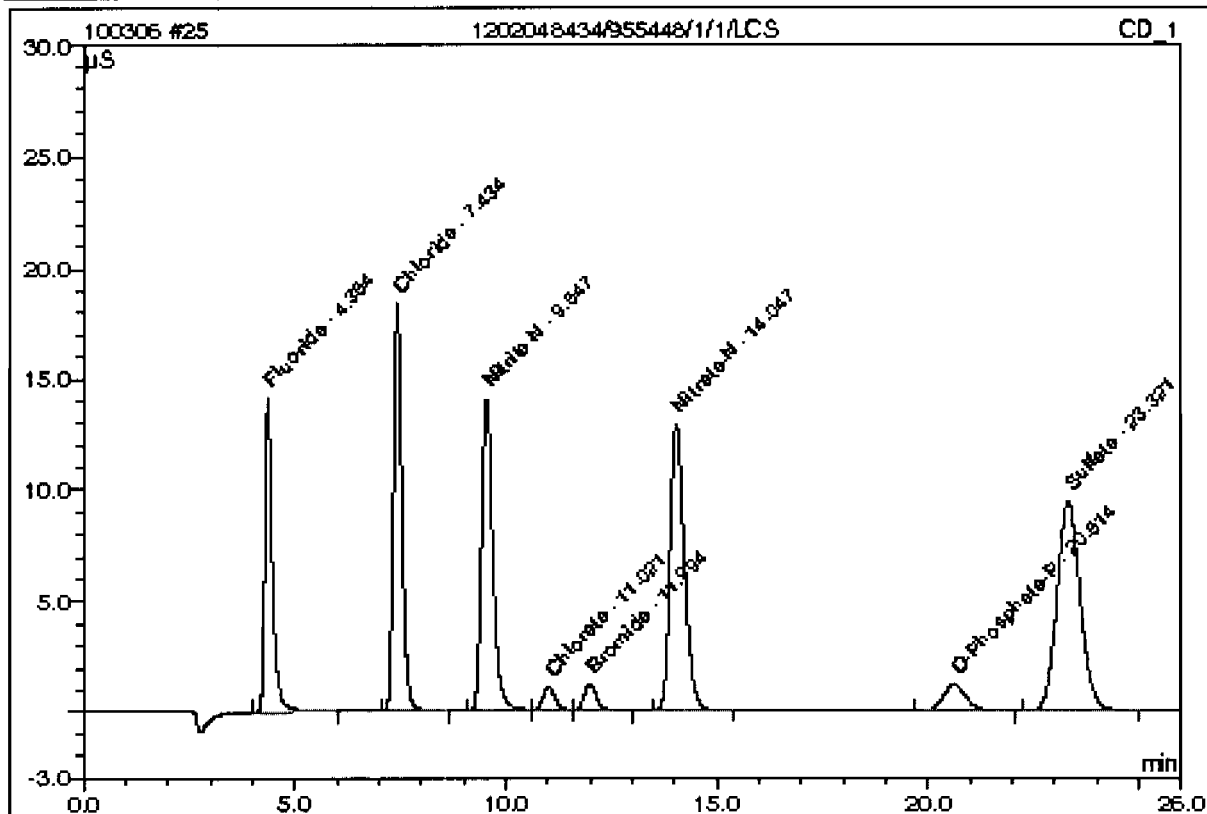
Sample Name:	1202048427/955448/1/1/MB	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 20:10	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GLGCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

25 1202048434/955448/1/1/LCS

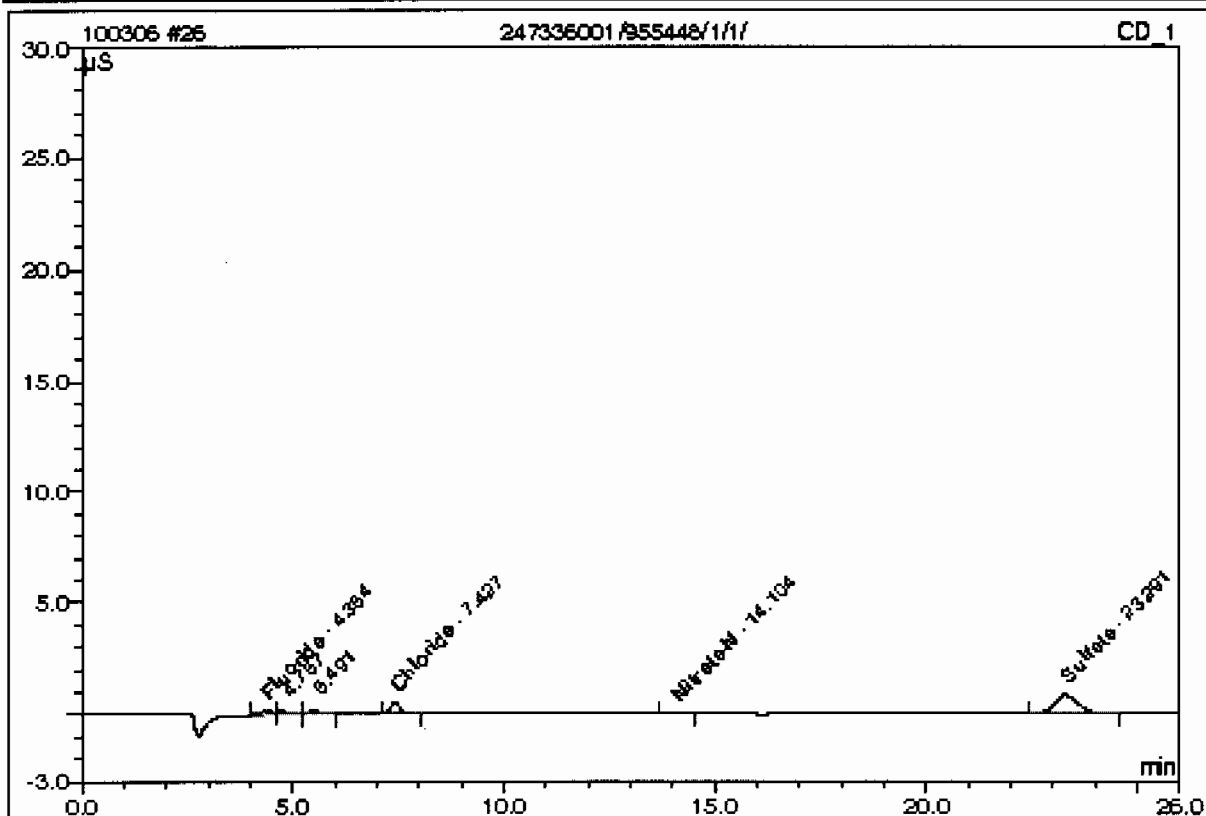
Sample Name:	1202048434/955448/1/1/LCS	Injection Volume:	1.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 20:39	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	5.2119		2.96703	12.19
2	7.43	Chloride	n.a.	10.2298		4.31456	17.72
3	9.55	Nitrite-N	n.a.	5.2063		4.31253	17.71
4	11.02	Chlorate	n.a.	2.7028		0.39019	1.60
5	11.99	Bromide	n.a.	2.7379		0.42115	1.73
6	14.05	Nitrate-N	n.a.	5.1705		5.13936	21.11
7	20.81	O-Phosphate-P	n.a.	2.8426		0.76687	3.16
8	23.32	Sulfate	n.a.	20.8770		6.03340	24.78
Total:				54.7788	0.000	24.347	100.00

26 247336001/955448/1/1/

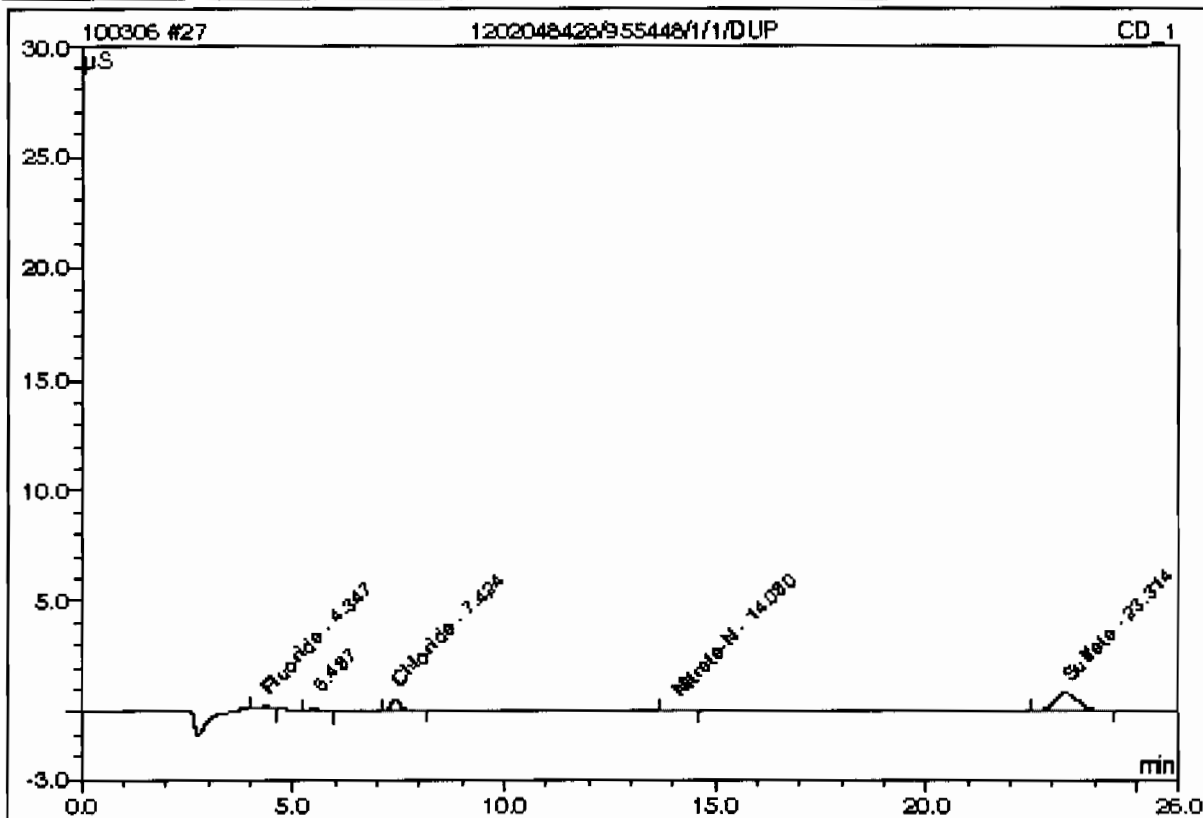
Sample Name:	247336001/955448/1/1/	Injection Volume:	1.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 21:08	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.1468		0.04933	5.66
4	7.43	Chloride	n.a.	0.5019		0.13717	16.30
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
5	14.10	Nitrate-N	n.a.	0.1092		0.01919	2.28
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
6	23.29	Sulfate	n.a.	2.1550		0.55358	65.78
Total:				2.9129	0.000	0.759	90.22

27 1202048428/955448/1/1/DUP

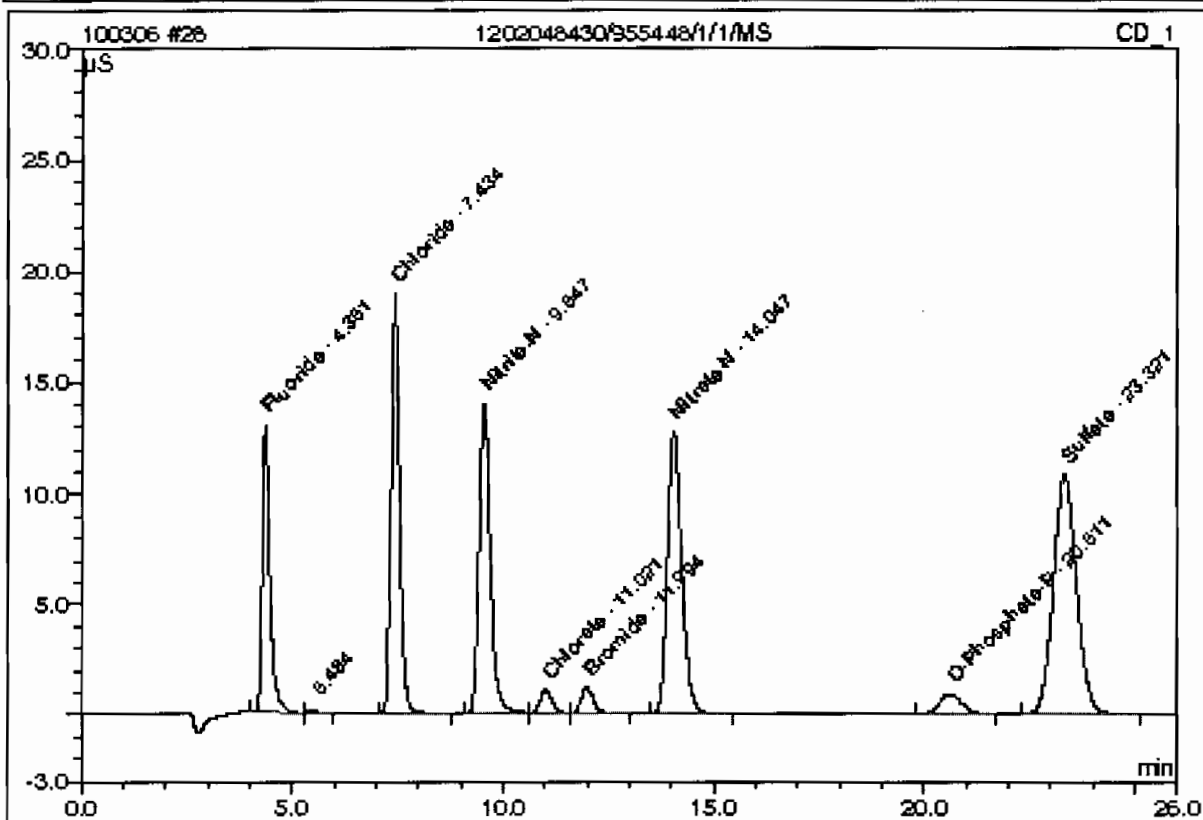
Sample Name:	1202048428/955448/1/1/DUP	Injection Volume:	1.0
Vial Number:	14	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 21:36	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.35	Fluoride	n.a.	0.1217		0.03487	4.51
3	7.42	Chloride	n.a.	0.5079		0.13978	18.07
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
4	14.08	Nitrate-N	n.a.	0.1085		0.01847	2.39
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	23.31	Sulfate	n.a.	2.0935		0.53536	69.19
Total:				2.8318	0.000	0.728	94.15

28 1202048430/955448/1/1/MS

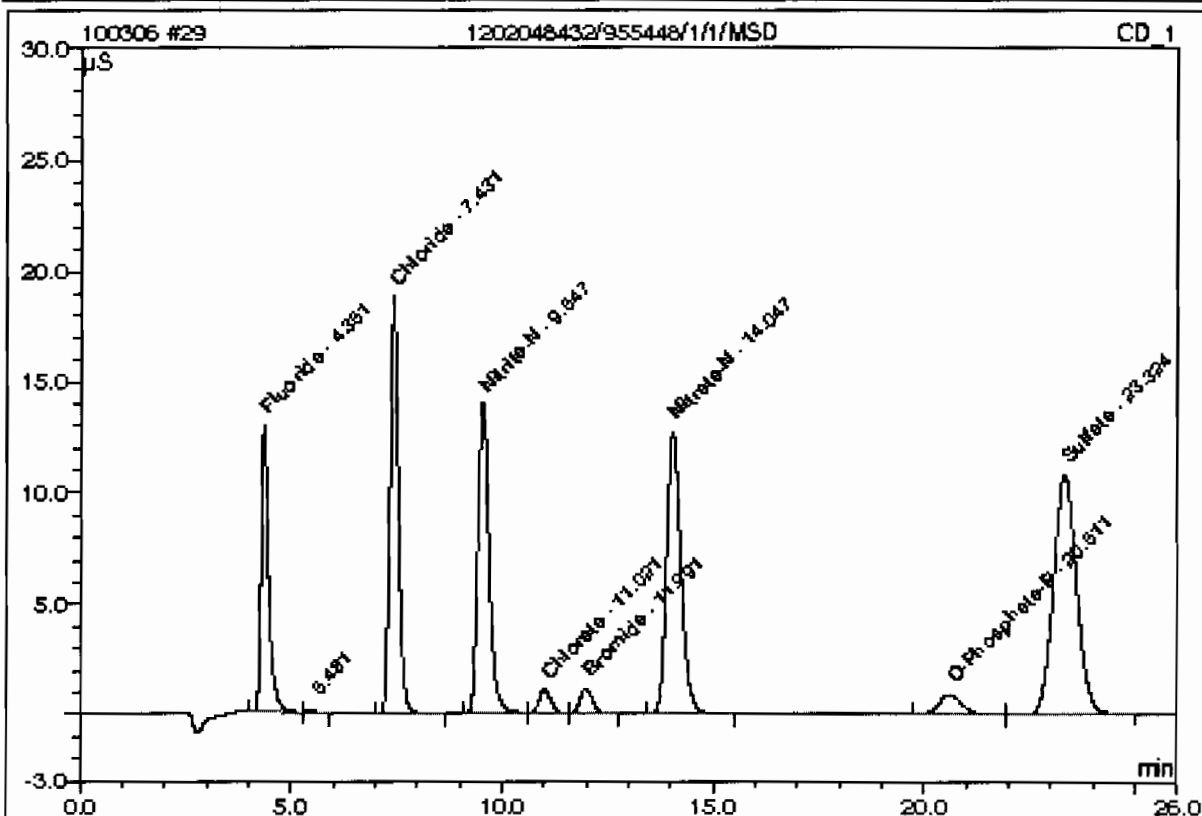
Sample Name:	1202048430/955448/1/1/MS	Injection Volume:	1.0
Vial Number:	15	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/6/2010 22:05	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
1	4.36	Fluoride	n.a.	4.7289		2.68883	10.84
3	7.43	Chloride	n.a.	10.5093		4.43460	17.88
4	9.55	Nitrate-N	n.a.	5.1925		4.30090	17.34
5	11.02	Chloride	n.a.	2.6077		0.37623	1.52
6	11.99	Bromide	n.a.	2.6458		0.40696	1.64
7	14.05	Nitrate-N	n.a.	5.1126		5.08077	20.48
8	20.61	O-Phosphate-P	n.a.	2.1386		0.56799	2.29
9	23.32	Sulfate	n.a.	23.6597		6.91583	27.88
Total:				56.5951	0.000	24.772	99.86

29 1202048432/955448/1/1/MSD

Sample Name:	1202048432/955448/1/1/MSD	Injection Volume:	1.0
Vial Number:	16	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/8/2010 22:34	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GLGCED86;300;9056



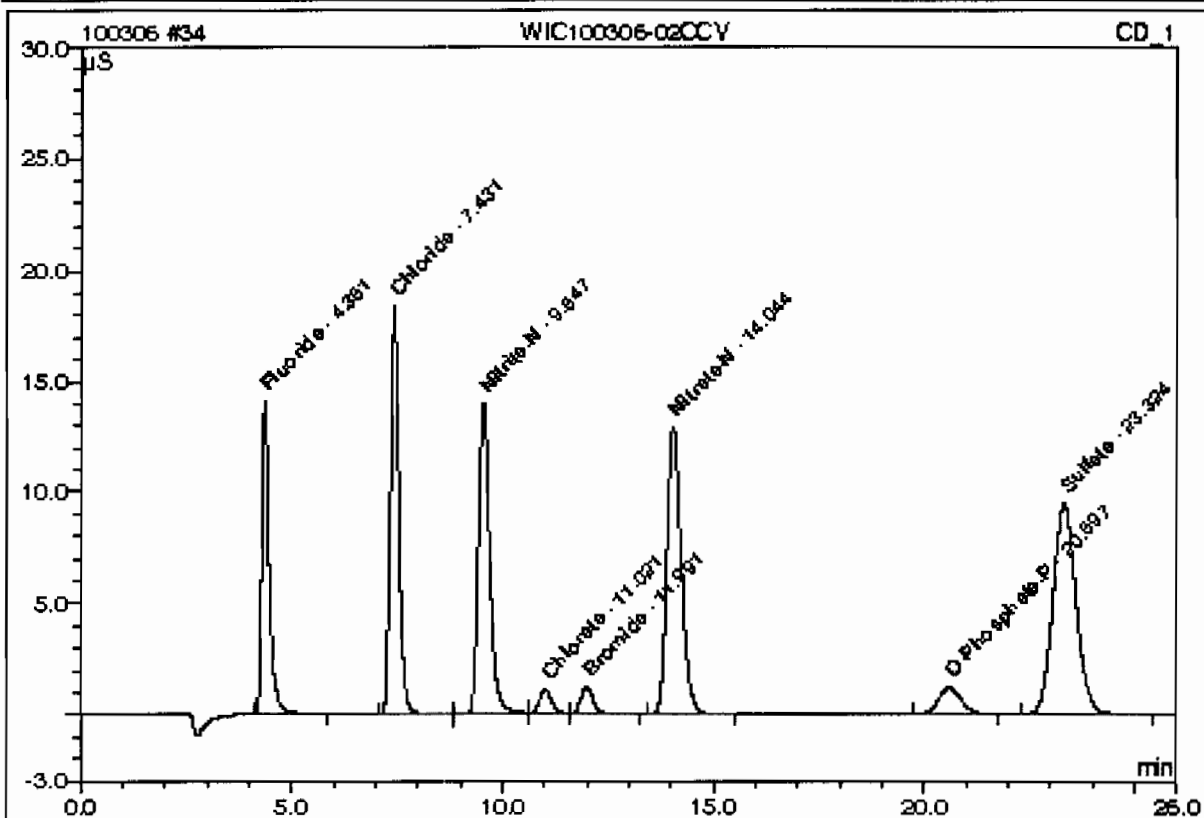
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	4.7102		2.67804	10.82
3	7.43	Chloride	n.a.	10.4697		4.41759	17.84
4	9.55	Nitrite-N	n.a.	5.1828		4.29277	17.34
5	11.02	Chlorate	n.a.	2.6340		0.36009	1.54
6	11.99	Bromide	n.a.	2.6147		0.40216	1.62
7	14.05	Nitrate-N	n.a.	5.1117		5.07985	20.52
8	20.61	O-Phosphate-P	n.a.	2.1954		0.58418	2.36
9	23.32	Sulfate	n.a.	23.5804		6.89237	27.84
Total:				56.4989	0.000	24.727	99.87

This is runlog for Sequence 100306.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
247336004	03/07/10 00:01	955448	1	100306	MAR1
247336005	03/07/10 00:30	955448	1	100306	MAR1
CCV	03/07/10 00:59		1	100306	MAR1
CCB	03/07/10 01:28		1	100306	MAR1
247336006	03/07/10 01:57	955448	1	100306	MAR1
247336007	03/07/10 02:26	955448	1	100306	MAR1
247359001	03/07/10 02:55	955448	1	100306	MAR1
247359002	03/07/10 03:23	955448	1	100306	MAR1
247359003	03/07/10 03:52	955448	1	100306	MAR1
247359004	03/07/10 04:21	955448	1	100306	MAR1
1202048429	03/07/10 04:50	955448	1	100306	MAR1
1202048431	03/07/10 05:19	955448	1	100306	MAR1
1202048433	03/07/10 05:48	955448	1	100306	MAR1
CVH	03/07/10 06:17		1	100306	MAR1
CCB	03/07/10 06:46		1	100306	MAR1
E	03/07/10 07:15		1	100306	MAR1
E	03/07/10 07:44		1	100306	MAR1
E	03/07/10 08:13		1	100306	MAR1
BLK	03/07/10 08:41		1	100306	MAR1
BLK	03/07/10 09:10		1	100306	MAR1

34 WIC100306-02CCV

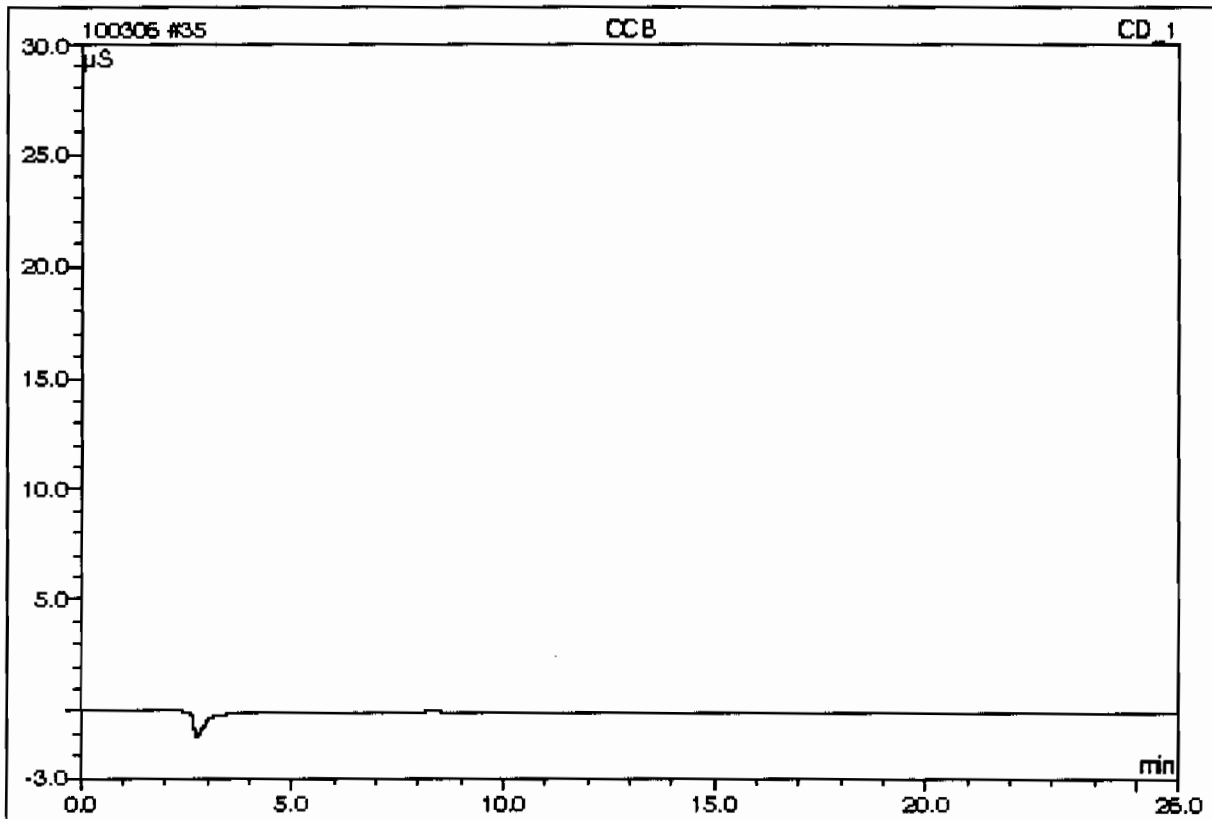
Sample Name:	WIC100306-02CCV	Injection Volume:	1.0
Vial Number:	21	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 0:59	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.36	Fluoride	n.a.	5.1287		2.91908	12.00
2	7.43	Chloride	n.a.	10.2192		4.31001	17.71
3	9.55	Nitrate-N	n.a.	5.2264		4.32932	17.79
4	11.02	Chloride	n.a.	2.7303		0.39423	1.62
5	11.99	Bromide	n.a.	2.7887		0.42699	1.76
6	14.04	Nitrate-N	n.a.	5.1735		5.14241	21.14
7	20.60	O-Phosphate-P	n.a.	2.8515		0.77121	3.17
8	23.32	Sulfate	n.a.	20.6824		6.03498	24.80
Total:				54.8006	0.000	24.330	100.00

35 CCB

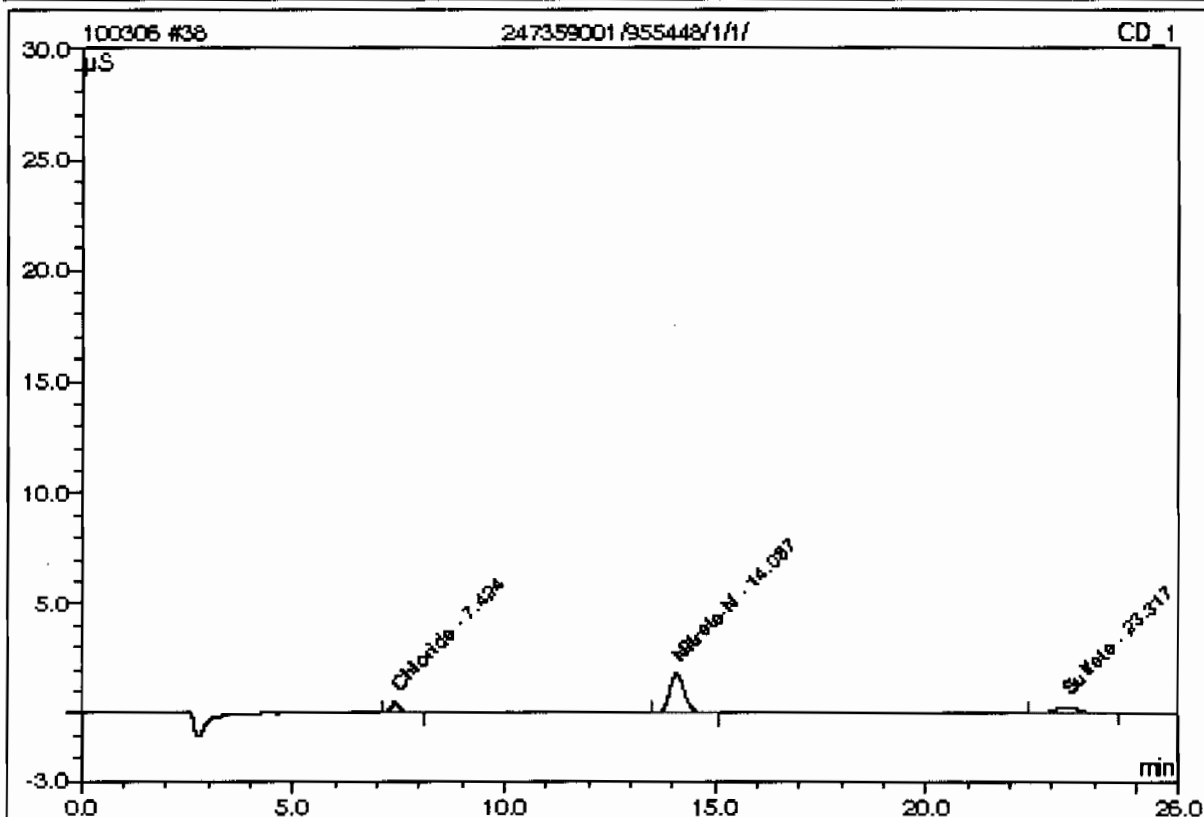
Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	22	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 1:28	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

38 247359001/955448/1/1/

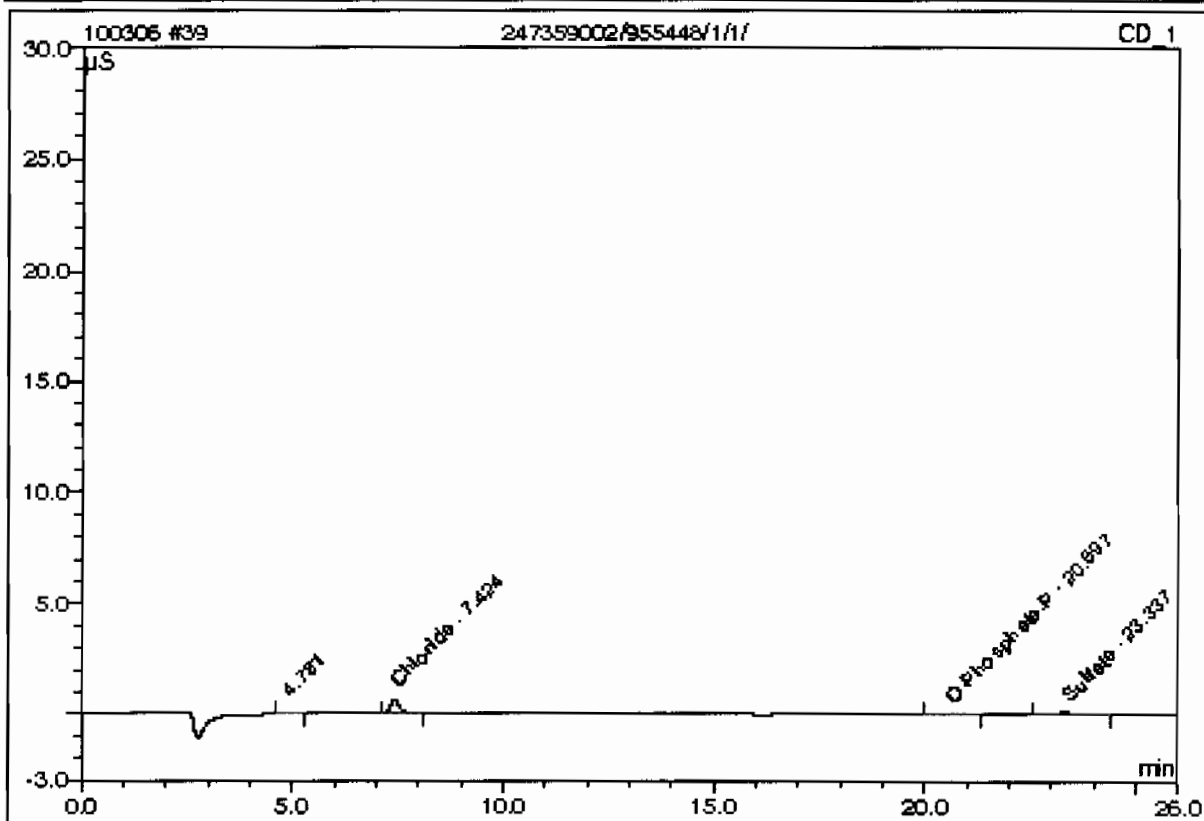
Sample Name:	247359001/955448/1/1/	Injection Volume:	1.0
Vial Number:	25	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 2:55	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.42	Chloride	n.a.	0.4650		0.12136	11.37
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
2	14.09	Nitrate-N	n.a.	0.8094		0.72757	68.17
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.32	Sulfate	n.a.	1.0218		0.21829	20.45
Total:				2.2962	0.000	1.067	100.00

39 247359002/955448/1/1/

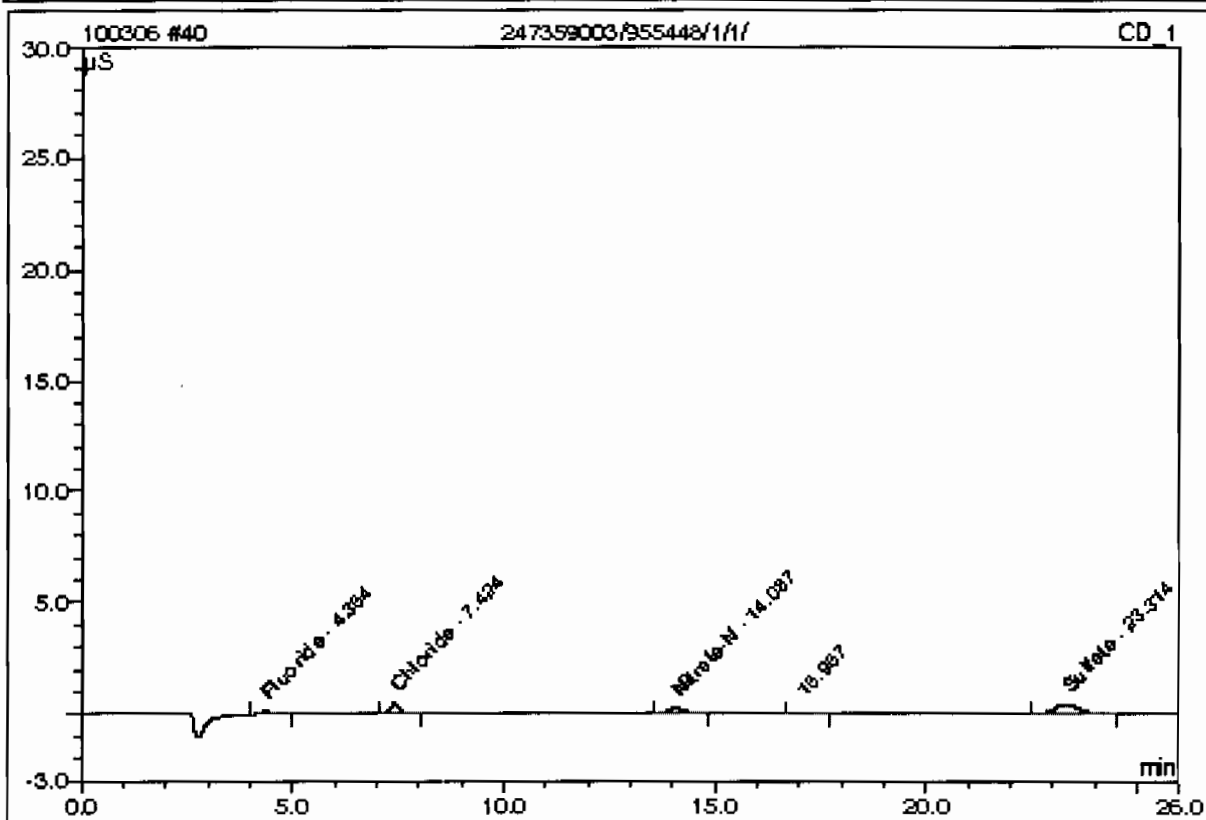
Sample Name:	247359002/955448/1/1/	Injection Volume:	1.0
Vial Number:	26	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 3:23	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
2	7.42	Chloride	n.a.	0.5843		0.17256	55.36
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.60	O-Phosphate-P	n.a.	0.2765		0.03718	11.93
4	23.34	Sulfate	n.a.	0.5607		0.08188	26.27
Total:				1.4214	0.000	0.292	93.55

40 247359003/955448/1/1/

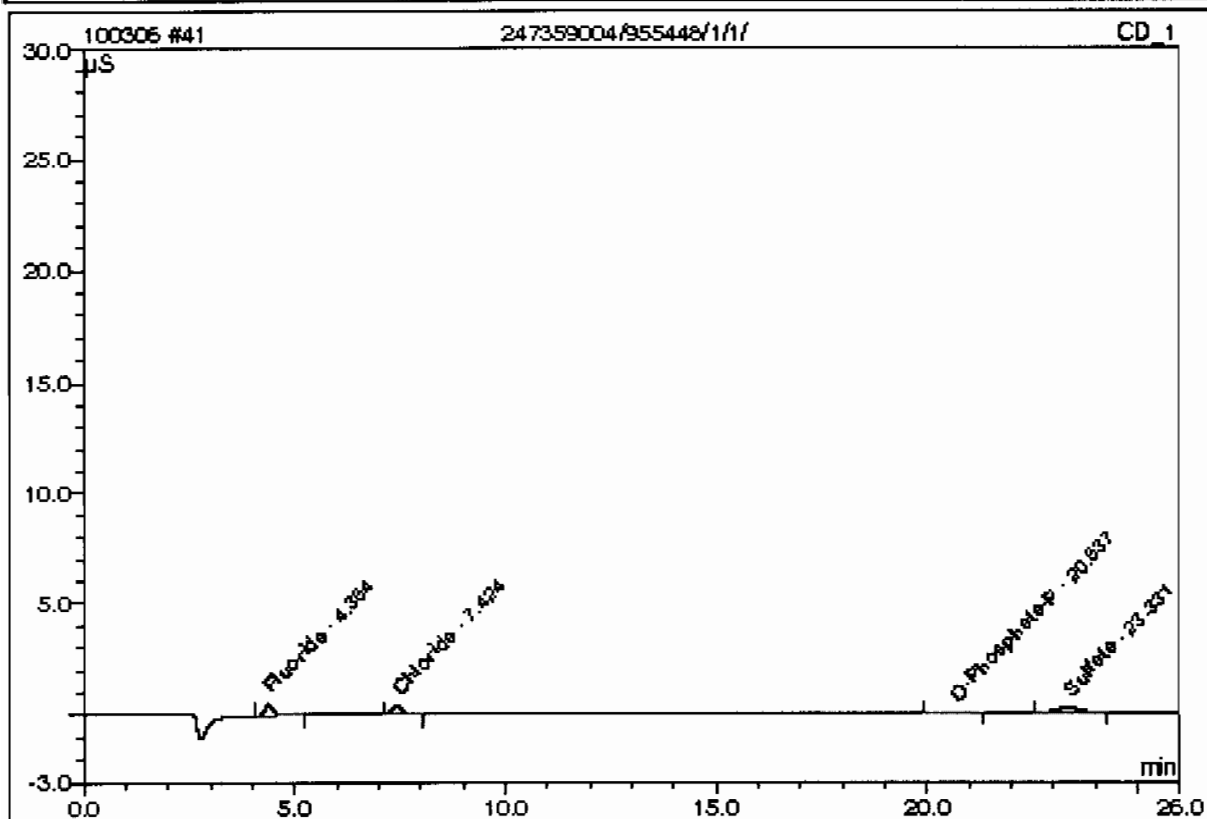
Sample Name:	247359003/955448/1/1/	Injection Volume:	1.0
Vial Number:	27	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 3:52	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.1266		0.03768	6.71
2	7.42	Chloride	n.a.	0.4523		0.11588	20.65
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.09	Nitrate-N	n.a.	0.1873		0.09819	17.50
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	23.31	Sulfate	n.a.	1.2641		0.28999	51.67
Total:				2.0302	0.000	0.542	96.53

41 247359004/955448/1/1/

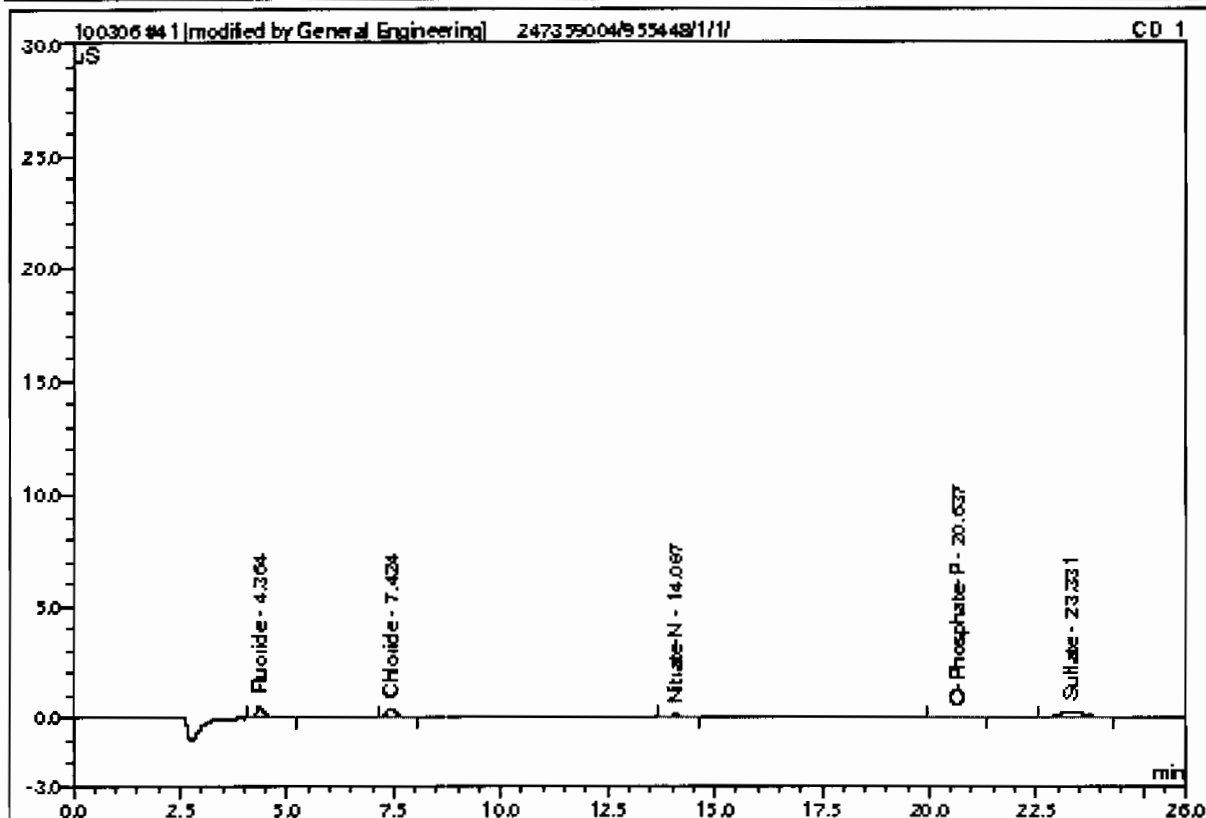
Sample Name:	247359004/955448/1/1/	Injection Volume:	1.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 4:21	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.36	Fluoride	n.a.	0.2587		0.11379	27.29
2	7.42	Chloride	n.a.	0.4109		0.09812	23.53
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
3	20.64	O-Phosphate-P	n.a.	0.2488		0.02928	7.02
4	23.33	Sulfate	n.a.	0.8781		0.17579	42.16
Total:				1.7965	0.000	0.417	100.00

41 247359004/955448/1/1/

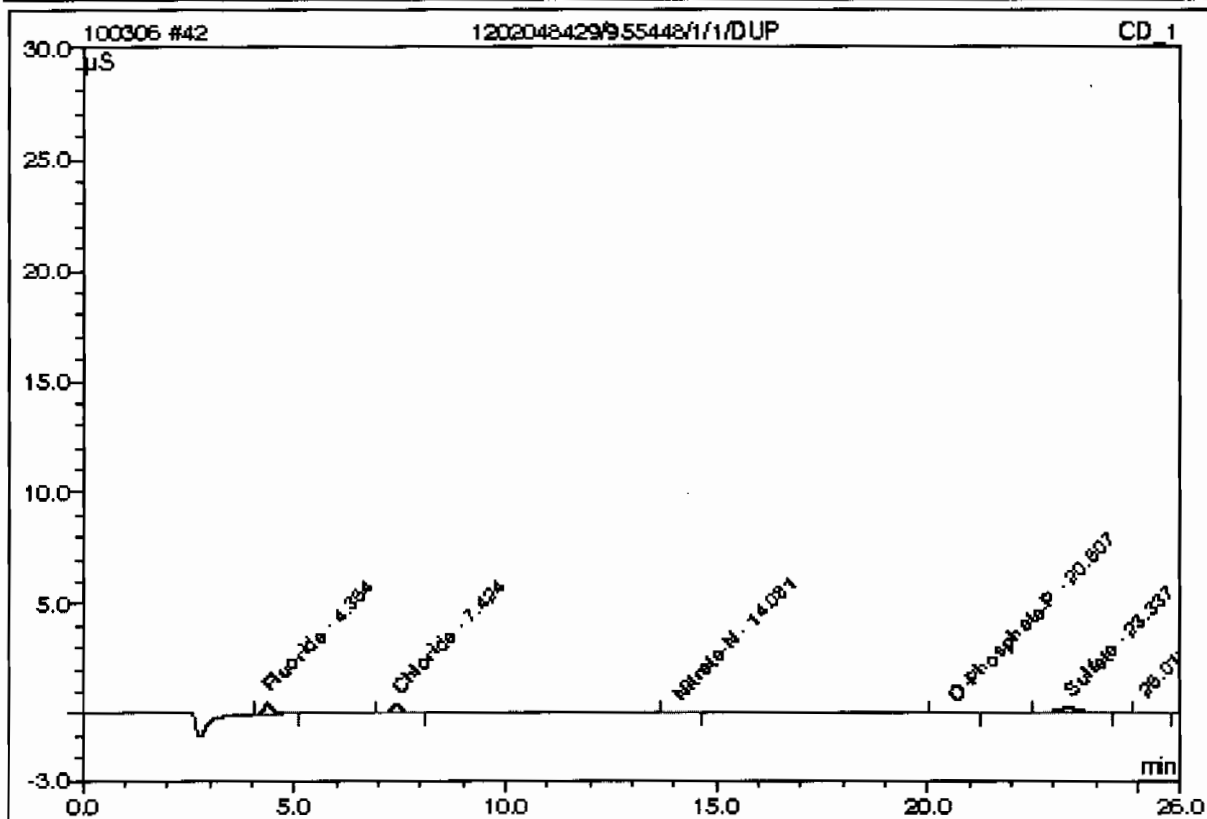
Sample Name:	247359004/955448/1/1/	Injection Volume:	1.0
Vial Number:	28	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 4:21	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.2587		0.11379	25.46
2	7.42	Chloride	n.a.	0.4109		0.09812	21.95
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.10	Nitrate-N	n.a.	0.1198		0.02995	6.70
4	20.64	O-Phosphate-P	n.a.	0.2488		0.02928	6.55
5	23.33	Sulfate	n.a.	0.8781		0.17579	39.33
Total:				1.9164	0.000	0.447	100.00

42 1202048429/955448/1/1/DUP

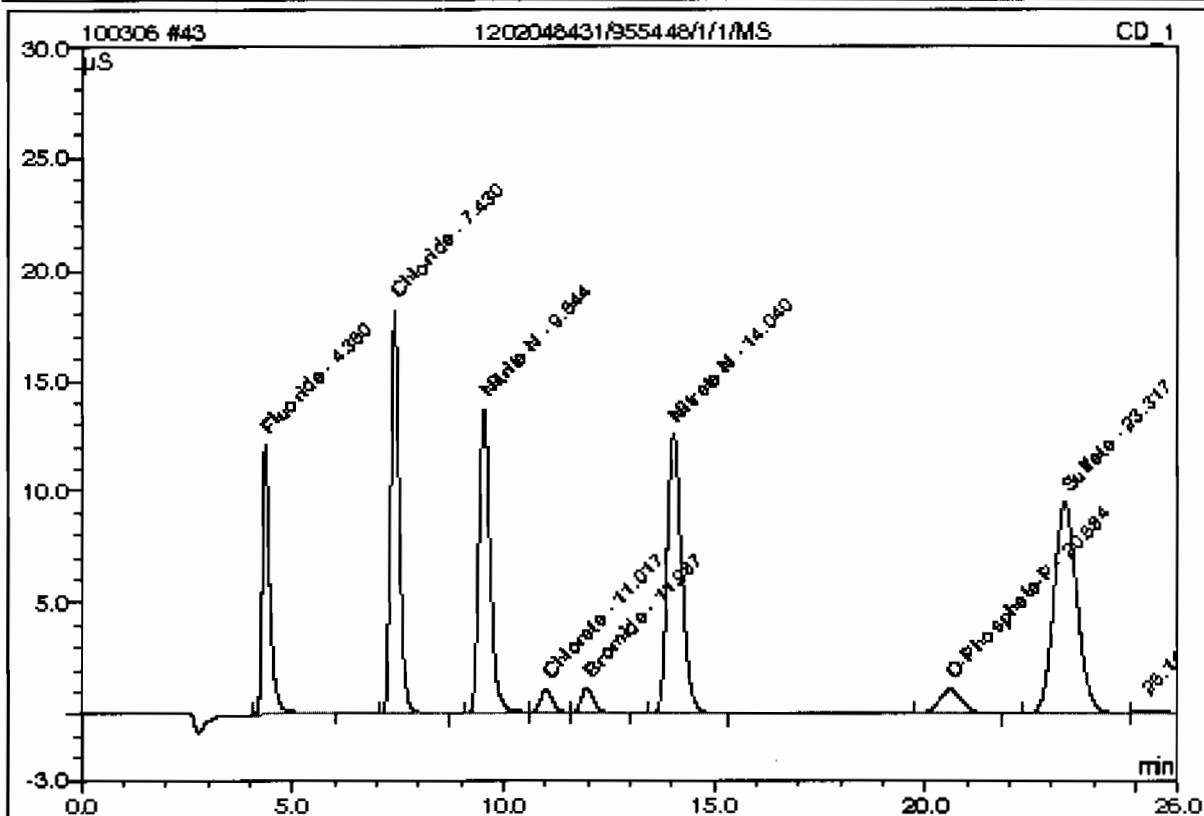
Sample Name:	1202048429/955448/1/1/DUP	Injection Volume:	1.0
Vial Number:	29	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 4:50	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.2574		0.11301	24.47
2	7.42	Chloride	n.a.	0.4150		0.09989	21.63
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.08	Nitrate-N	n.a.	0.1170		0.02711	5.87
4	20.61	O-Phosphate-P	n.a.	0.2311		0.02423	5.25
5	23.34	Sulfate	n.a.	0.8776		0.17564	38.03
Total:				1.8981	0.000	0.440	95.25

43 1202048431/955448/1/1/MS

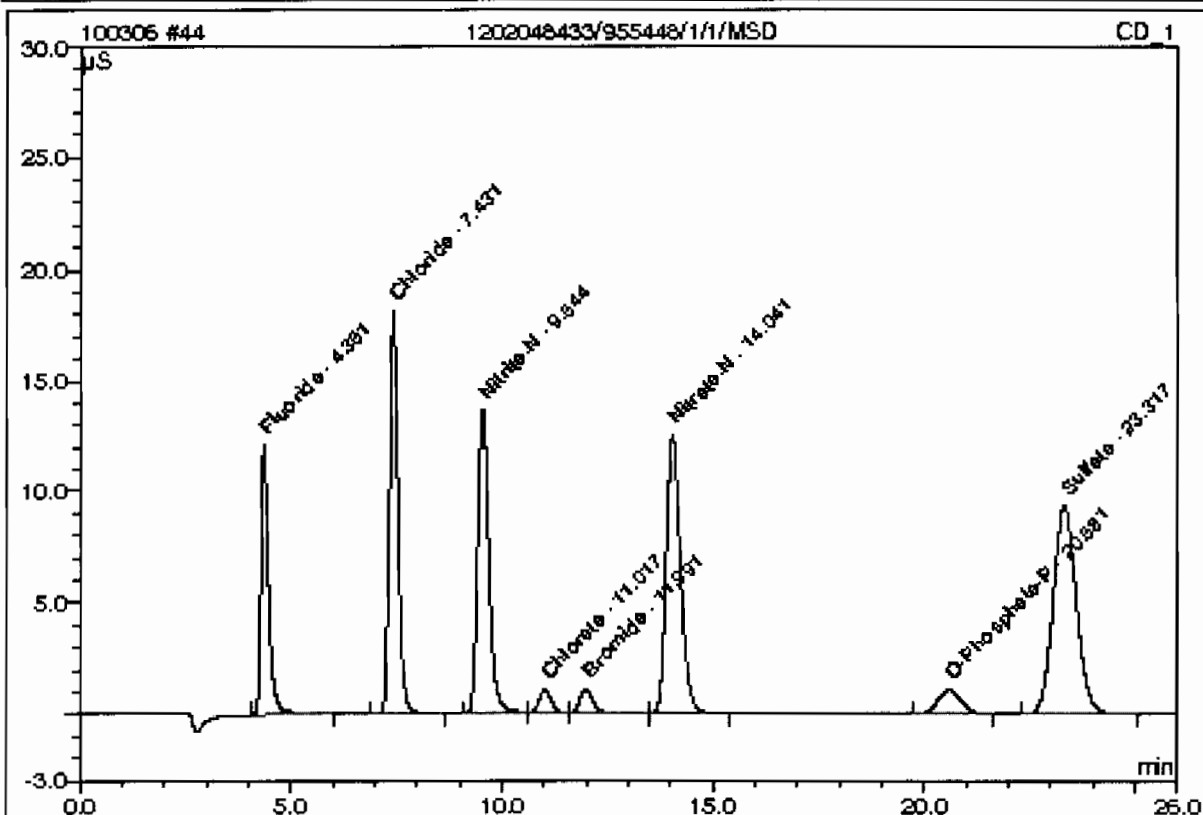
Sample Name:	1202048431/955448/1/1/MS	Injection Volume:	1.0
Vial Number:	30	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 5:19	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.36	Fluoride	n.a.	4.5305		2.57451	10.89
2	7.43	Chloride	n.a.	10.1758		4.29137	18.15
3	9.54	Nitrite-N	n.a.	5.0992		4.22268	17.86
4	11.02	Chlorate	n.a.	2.6199		0.37802	1.60
5	11.99	Bromide	n.a.	2.6241		0.40360	1.71
6	14.04	Nitrate-N	n.a.	5.0268		4.99397	21.12
7	20.58	O-Phosphate-P	n.a.	2.5563		0.68705	2.91
8	23.32	Sulfate	n.a.	20.6111		6.01388	25.44
Total:				53.2435	0.000	23.565	99.68

44 1202048433/955448/1/1/MSD

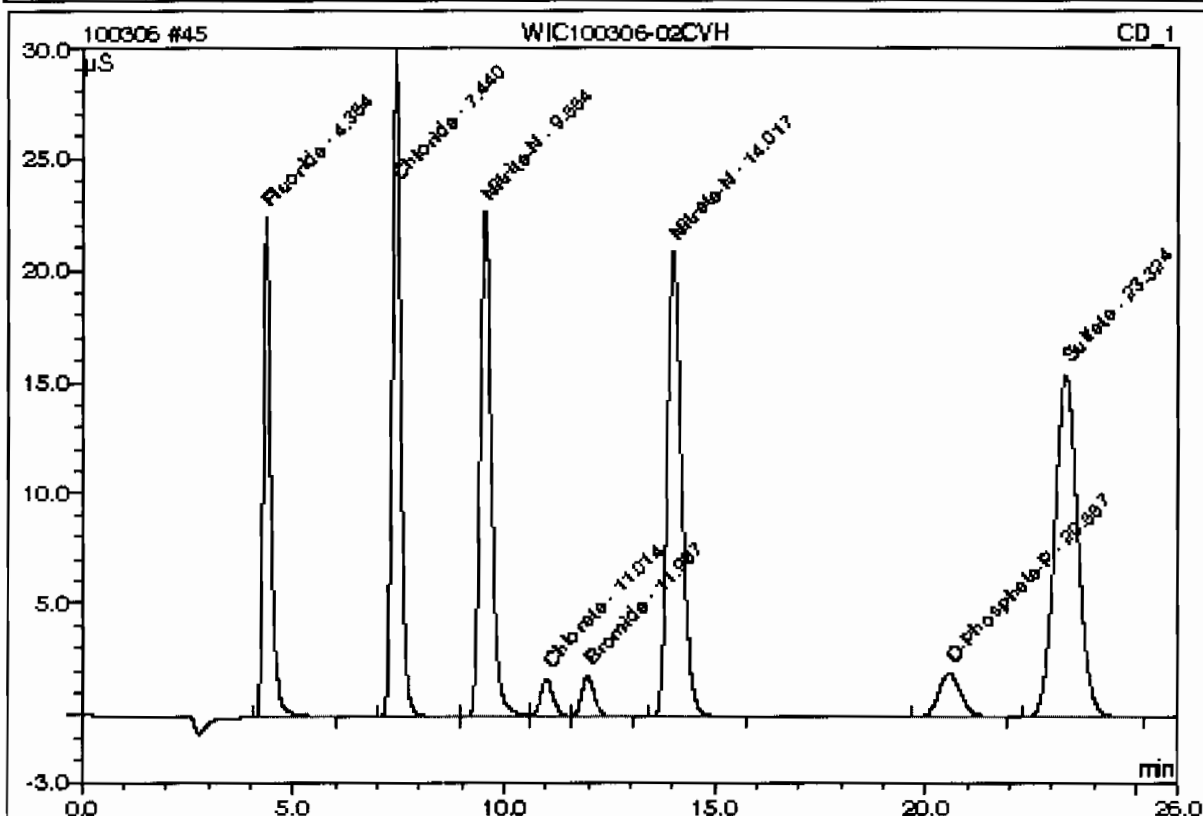
Sample Name:	1202048433/955448/1/1/MSD	Injection Volume:	1.0
Vial Number:	31	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 5:48	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area $\mu\text{S} \cdot \text{min}$	Rel. Area %
1	4.36	Fluoride	n.a.	4.4954		2.55427	10.89
2	7.43	Chloride	n.a.	10.1451		4.27820	18.23
3	9.54	Nitrite-N	n.a.	5.0816		4.20796	17.93
4	11.02	Chlorate	n.a.	2.5874		0.37325	1.59
5	11.99	Bromide	n.a.	2.7375		0.42109	1.79
6	14.04	Nitrate-N	n.a.	5.0067		4.97364	21.20
7	20.58	O-Phosphate-P	n.a.	2.5594		0.68796	2.93
8	23.32	Sulfate	n.a.	20.4504		5.96634	25.43
Total:				53.0635	0.000	23.463	100.00

45 WIC100306-02CVH

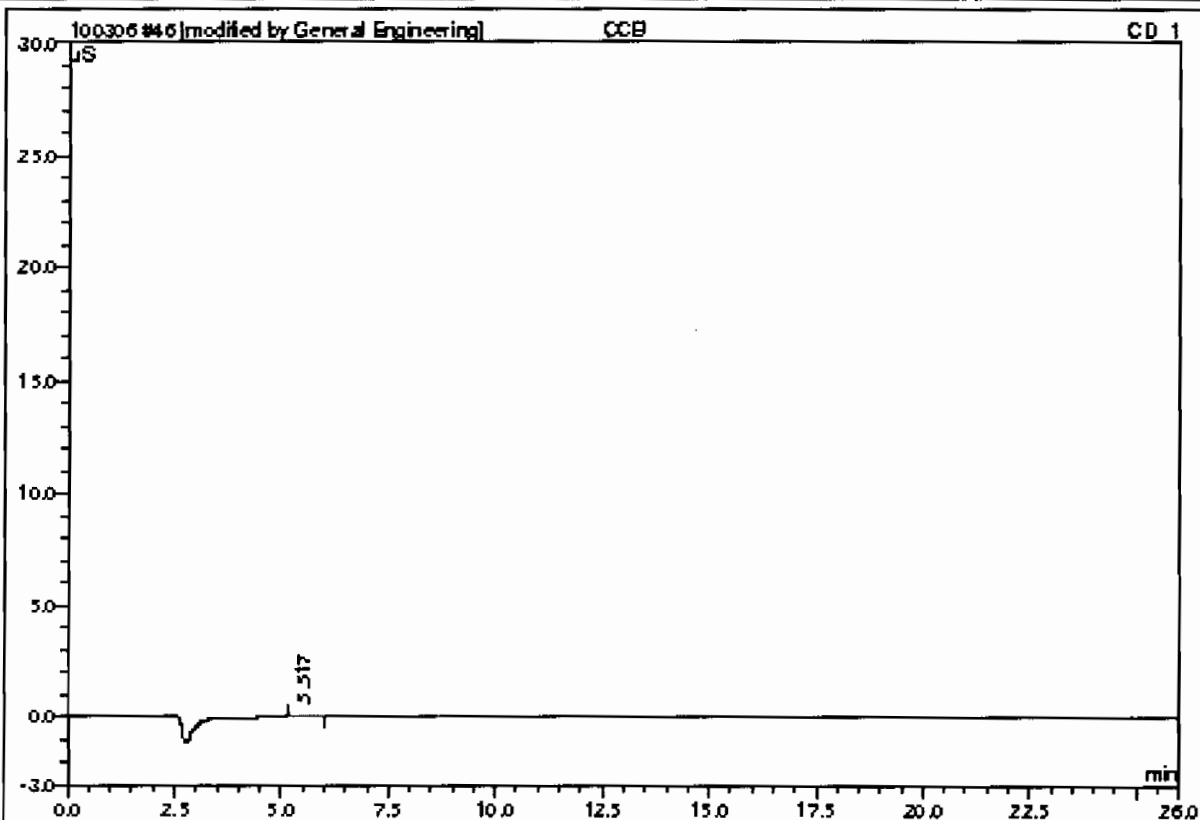
Sample Name:	WIC100306-02CVH	Injection Volume:	1.0
Vial Number:	32	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 6:17	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9058



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	8.2448		4.71412	12.00
2	7.44	Chloride	n.a.	16.6299		7.06293	17.98
3	9.55	Nitrite-N	n.a.	8.3728		6.96795	17.73
4	11.01	Chlorate	n.a.	4.1078		0.59650	1.52
5	11.99	Bromide	n.a.	4.1127		0.63318	1.61
6	14.02	Nitrate-N	n.a.	8.3311		8.33673	21.22
7	20.56	O-Phosphate-P	n.a.	4.3829		1.20775	3.07
8	23.32	Sulfate	n.a.	33.3112		9.77128	24.87
Total:				87.4933	0.000	39.290	100.00

46 CCB

Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	33	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 6:46	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



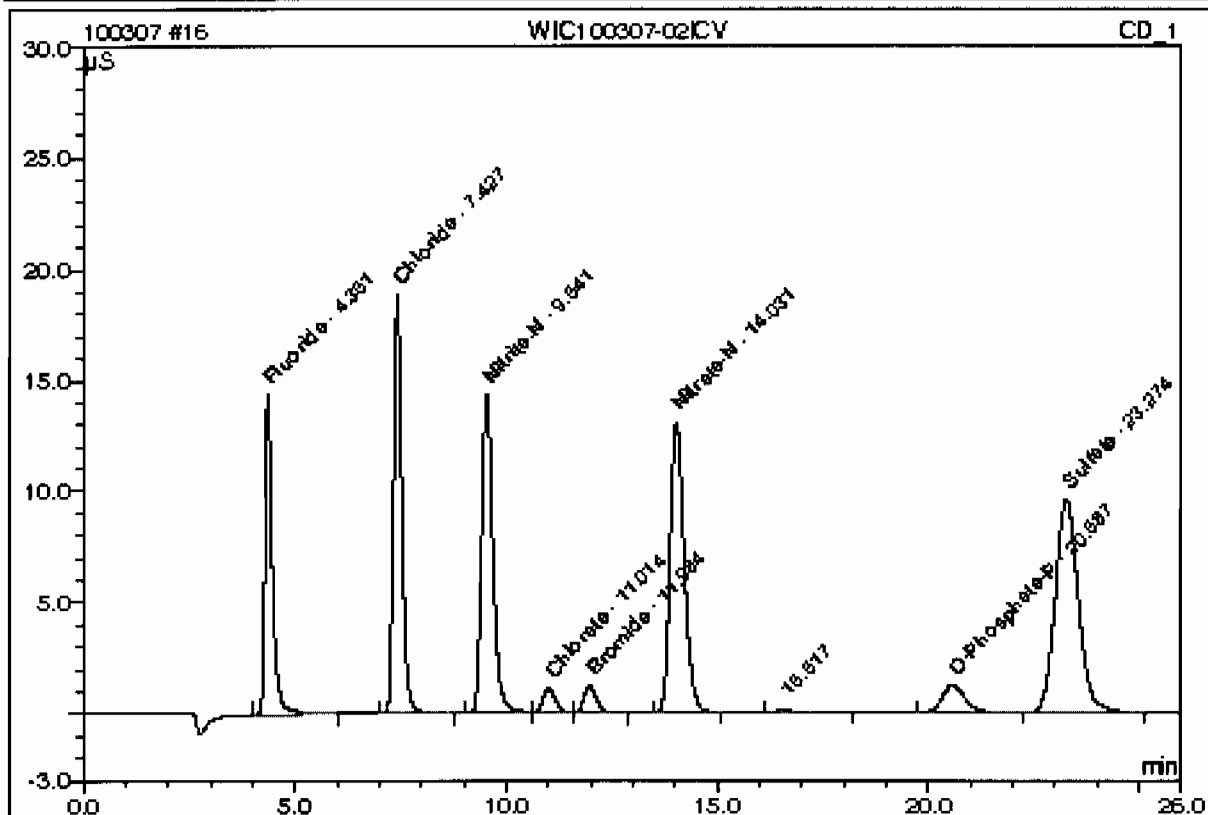
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

This is runlog for Sequence 100307.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
BLK	03/07/10 10:58		1	100307	MAR1
BLK	03/07/10 11:26		1	100307	MAR1
ICV	03/07/10 11:55		1	100307	MAR1
ICB	03/07/10 12:24		1	100307	MAR1
247336006	03/07/10 12:53	955448	1	100307	MAR1
247336007	03/07/10 13:22	955448	1	100307	MAR1
247359001	03/07/10 13:51	955448	1	100307	MAR1
247359002	03/07/10 14:20	955448	1	100307	MAR1
247359003	03/07/10 14:49	955448	1	100307	MAR1
247359004	03/07/10 15:18	955448	1	100307	MAR1
1202048429	03/07/10 15:47	955448	1	100307	MAR1
1202048431	03/07/10 16:16	955448	1	100307	MAR1
1202048433	03/07/10 16:44	955448	1	100307	MAR1
CVH	03/07/10 17:13		1	100307	MAR1
CCB	03/07/10 17:42		1	100307	MAR1
1202061736	03/07/10 18:11	961199	1	100307	MAR1
1202061743	03/07/10 18:40	961199	1	100307	MAR1
247781001	03/07/10 19:09	961199	1	100307	MAR1
1202061737	03/07/10 19:38	961199	1	100307	MAR1
1202061739	03/07/10 20:07	961199	1	100307	MAR1
1202061741	03/07/10 20:36	961199	1	100307	MAR1
247781002	03/07/10 21:05	961199	1	100307	MAR1
247781003	03/07/10 21:34	961199	1	100307	MAR1
247781004	03/07/10 22:02	961199	1	100307	MAR1
247781005	03/07/10 22:31	961199	1	100307	MAR1
CCV	03/07/10 23:00		1	100307	MAR1
CCB	03/07/10 23:29		1	100307	MAR1
247781006	03/07/10 23:58	961199	1	100307	MAR1

16 WIC100307-02ICV

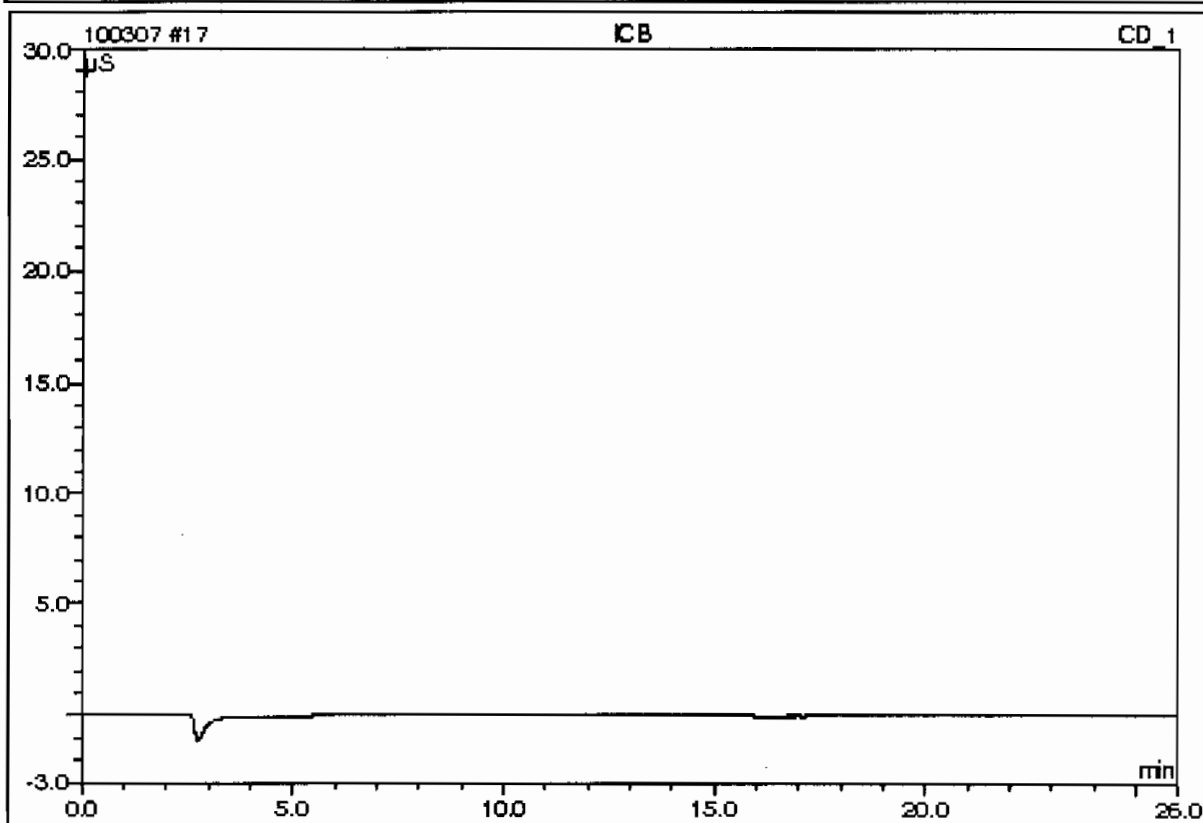
Sample Name:	WIC100307-02ICV	Injection Volume:	1.0
Vial Number:	3	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 11:55	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;0056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	5.1937		2.95653	12.04
2	7.43	Chloride	n.a.	10.2904		4.34057	17.68
3	9.54	Nitrite-N	n.a.	5.2499		4.34908	17.72
4	11.01	Chlorate	n.a.	2.6911		0.38847	1.58
5	11.98	Bromide	n.a.	2.7061		0.41625	1.70
6	14.03	Nitrate-N	n.a.	5.1275		5.09582	20.76
8	20.59	O-Phosphate-P	n.a.	2.9287		0.79321	3.23
9	23.27	Sulfate	n.a.	20.9471		6.11330	24.90
Total:				55.1344	0.000	24.453	99.61

17 ICB

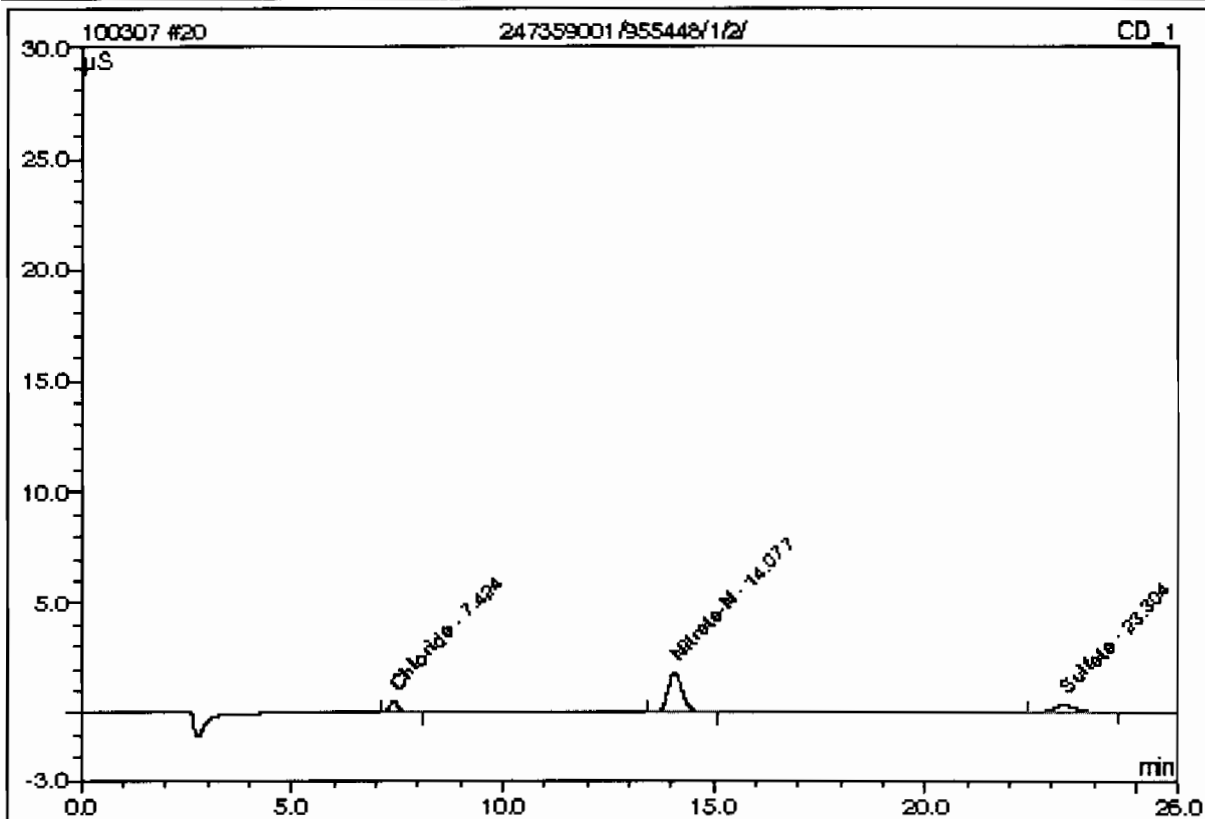
Sample Name:	ICB	Injection Volume:	1.0
Vial Number:	4	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 12:24	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

20 247359001/955448/1/2/

Sample Name:	247359001/955448/1/2/	Injection Volume:	1.0
Vial Number:	7	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 13:51	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



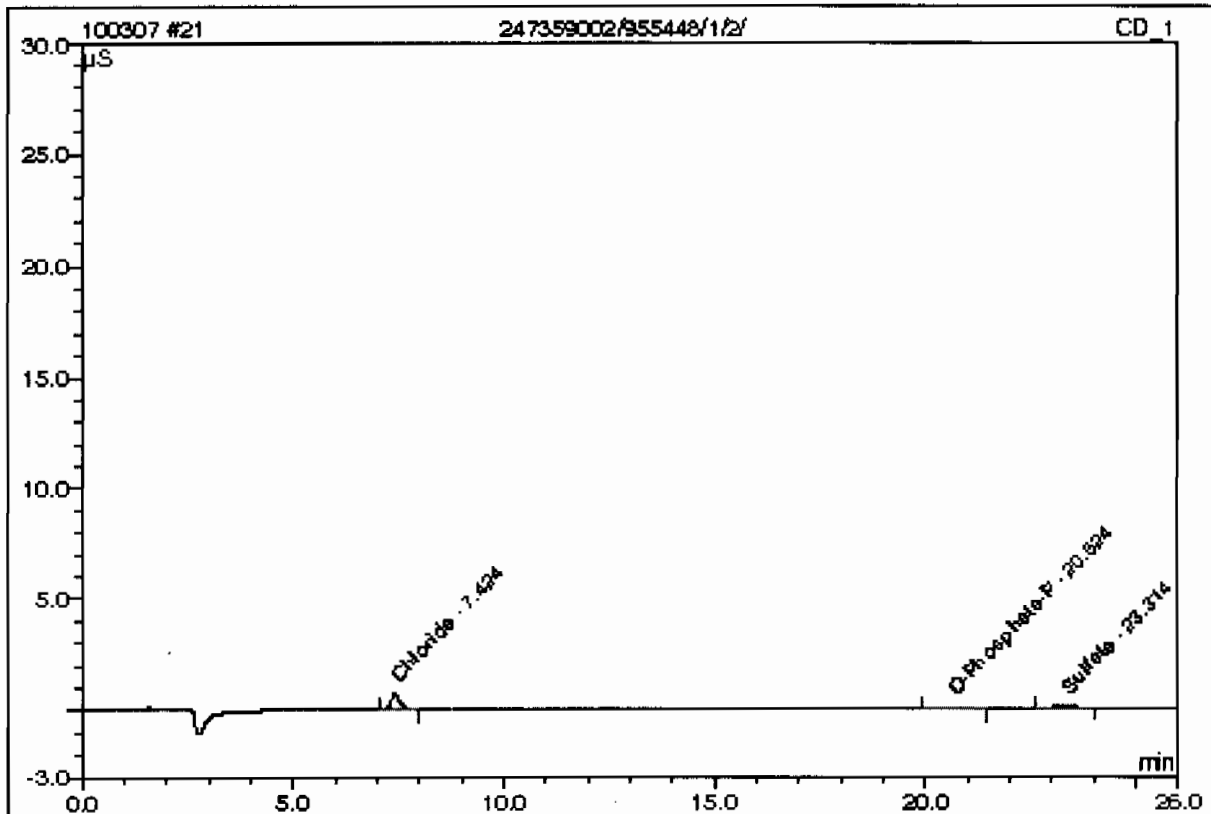
No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.42	Chloride	n.a.	0.4780		0.12694	11.52
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
2	14.08	Nitrate-N	n.a.	0.8102		0.72838	66.09
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
3	23.30	Sulfate	n.a.	1.1182		0.24684	22.40
Total:				2.4065	0.000	1.102	100.00

This is runlog for Sequence 100308.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
1202053710	03/07/10 14:20	957728	1	100308	MAR1
1202053717	03/07/10 14:49	957728	1	100308	MAR1
247539001	03/07/10 15:18	957728	1	100308	MAR1
1202053711	03/07/10 15:47	957728	1	100308	MAR1
1202053713	03/07/10 16:16	957728	1	100308	MAR1
1202053715	03/07/10 16:44	957728	1	100308	MAR1
247539002	03/07/10 17:13	957728	1	100308	MAR1
247539003	03/07/10 17:42	957728	1	100308	MAR1
247539004	03/07/10 18:11	957728	1	100308	MAR1
247539005	03/07/10 18:40	957728	1	100308	MAR1
CCV	03/07/10 19:09		1	100308	MAR1
CCB	03/07/10 19:38		1	100308	MAR1
247539006	03/07/10 20:07	957728	1	100308	MAR1
247539007	03/07/10 20:36	957728	1	100308	MAR1
247539008	03/07/10 21:05	957728	1	100308	MAR1
247539009	03/07/10 21:34	957728	1	100308	MAR1
247539010	03/07/10 22:02	957728	1	100308	MAR1
247539011	03/07/10 22:31	957728	1	100308	MAR1
1202053712	03/07/10 23:00	957728	1	100308	MAR1
1202053714	03/07/10 23:29	957728	1	100308	MAR1
1202053716	03/07/10 23:58	957728	1	100308	MAR1

21 247359002/955448/1/2/

Sample Name:	247359002/955448/1/2/	Injection Volume:	1.0
Vial Number:	8	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 14:20	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



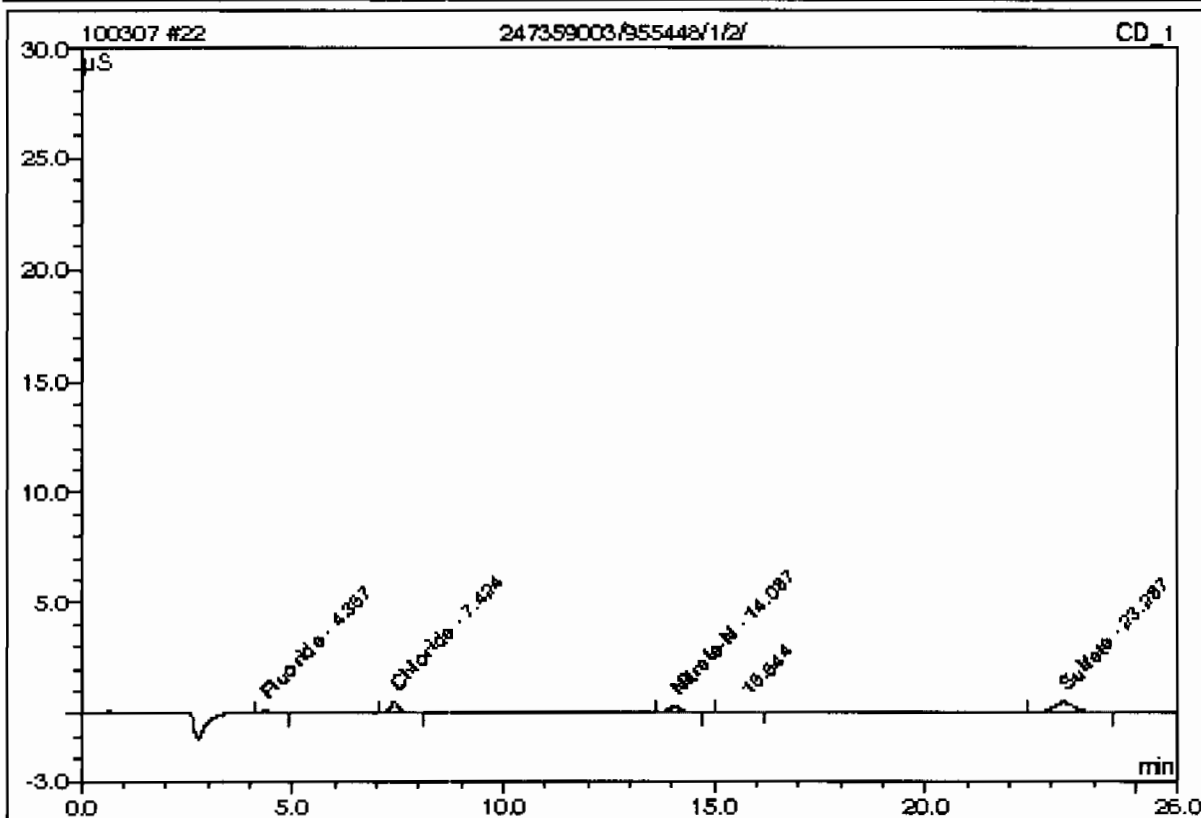
No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
1	7.42	Chloride	n.a.	0.5981		0.17849	58.09
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
2	20.62	O-Phosphate-P	n.a.	0.3281		0.05189	16.89
3	23.31	Sulfate	n.a.	0.5438		0.07690	25.03
Total:				1.4701	0.000	0.307	100.00

This is runlog for Sequence 100308.seq for IC6

Sample ID	Run Time	Batch	Dilution	Dataset	Analyst
1202053717	03/07/10 14:49	957728	1	100308	MAR1
247539001	03/07/10 15:18	957728	1	100308	MAR1
1202053711	03/07/10 15:47	957728	1	100308	MAR1
1202053713	03/07/10 16:16	957728	1	100308	MAR1
1202053715	03/07/10 16:44	957728	1	100308	MAR1
247539002	03/07/10 17:13	957728	1	100308	MAR1
247539003	03/07/10 17:42	957728	1	100308	MAR1
247539004	03/07/10 18:11	957728	1	100308	MAR1
247539005	03/07/10 18:40	957728	1	100308	MAR1
CCV	03/07/10 19:09		1	100308	MAR1
CCB	03/07/10 19:38		1	100308	MAR1
247539006	03/07/10 20:07	957728	1	100308	MAR1
247539007	03/07/10 20:36	957728	1	100308	MAR1
247539008	03/07/10 21:05	957728	1	100308	MAR1
247539009	03/07/10 21:34	957728	1	100308	MAR1
247539010	03/07/10 22:02	957728	1	100308	MAR1
247539011	03/07/10 22:31	957728	1	100308	MAR1
1202053712	03/07/10 23:00	957728	1	100308	MAR1
1202053714	03/07/10 23:29	957728	1	100308	MAR1
1202053716	03/07/10 23:58	957728	1	100308	MAR1

22 247359003/955448/1/2/

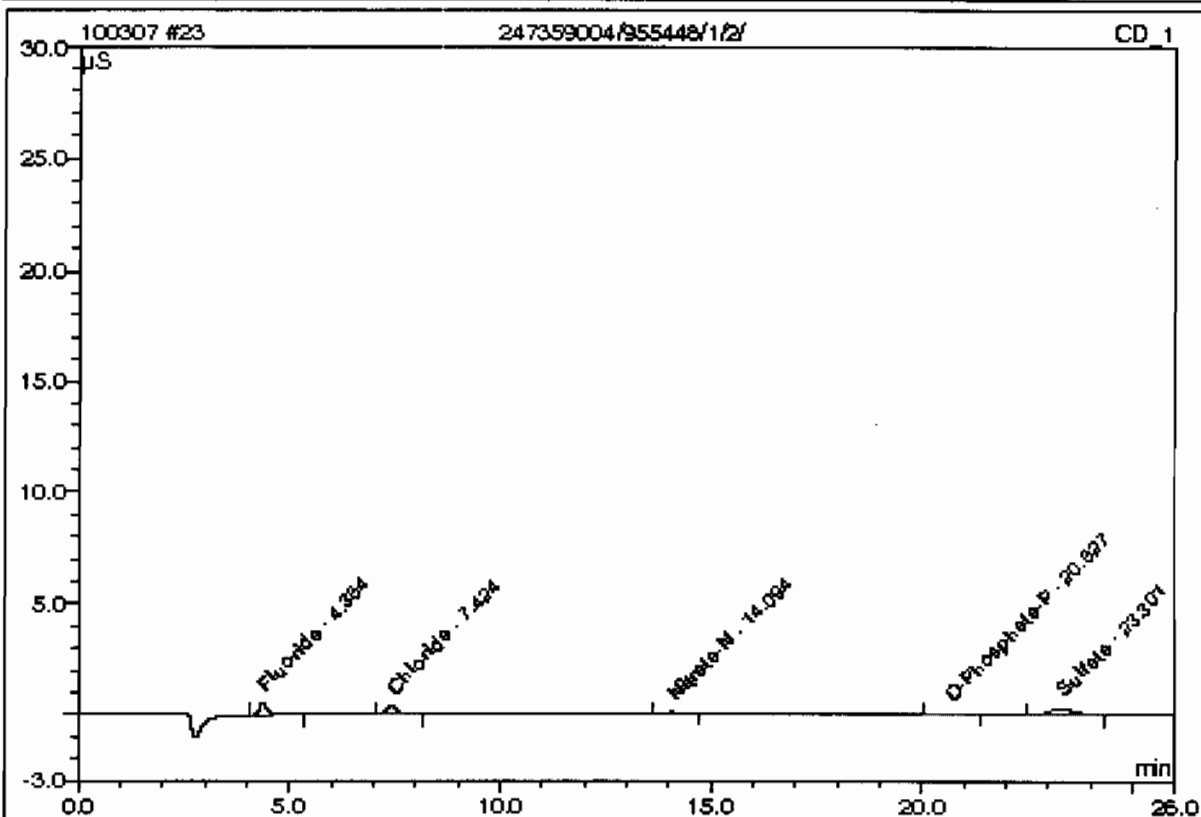
Sample Name:	247359003/955448/1/2/	Injection Volume:	1.0
Vial Number:	9	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 14:49	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;8056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.37	Fluoride	n.a.	0.1225		0.03530	6.05
2	7.42	Chloride	n.a.	0.4682		0.12273	21.03
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.09	Nitrate-N	n.a.	0.1897		0.10061	17.24
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
5	23.29	Sulfate	n.a.	1.3211		0.30685	52.57
Total:				2.1015	0.000	0.565	96.88

23 247359004/955448/1/2/

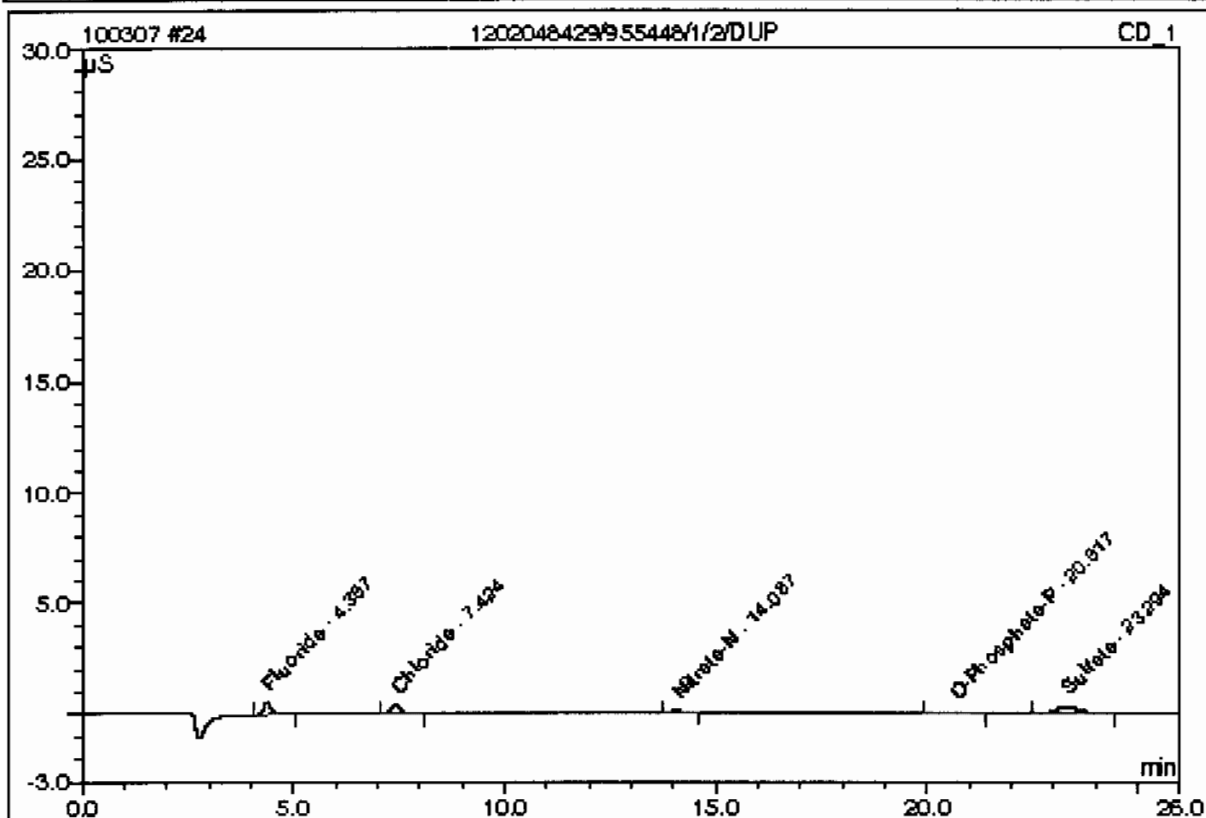
Sample Name:	247359004/955448/1/2/	Injection Volume:	1.0
Vial Number:	10	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 15:18	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC E086;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.36	Fluoride	n.a.	0.2901		0.13189	25.47
2	7.42	Chloride	n.a.	0.4256		0.10444	20.17
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.09	Nitrate-N	n.a.	0.1212		0.03135	6.05
4	20.63	O-Phosphate-P	n.a.	0.2791		0.03793	7.32
5	23.30	Sulfate	n.a.	1.0013		0.21223	40.98
Total:				2.1174	0.000	0.518	100.00

24 1202048429/955448/1/2/DUP

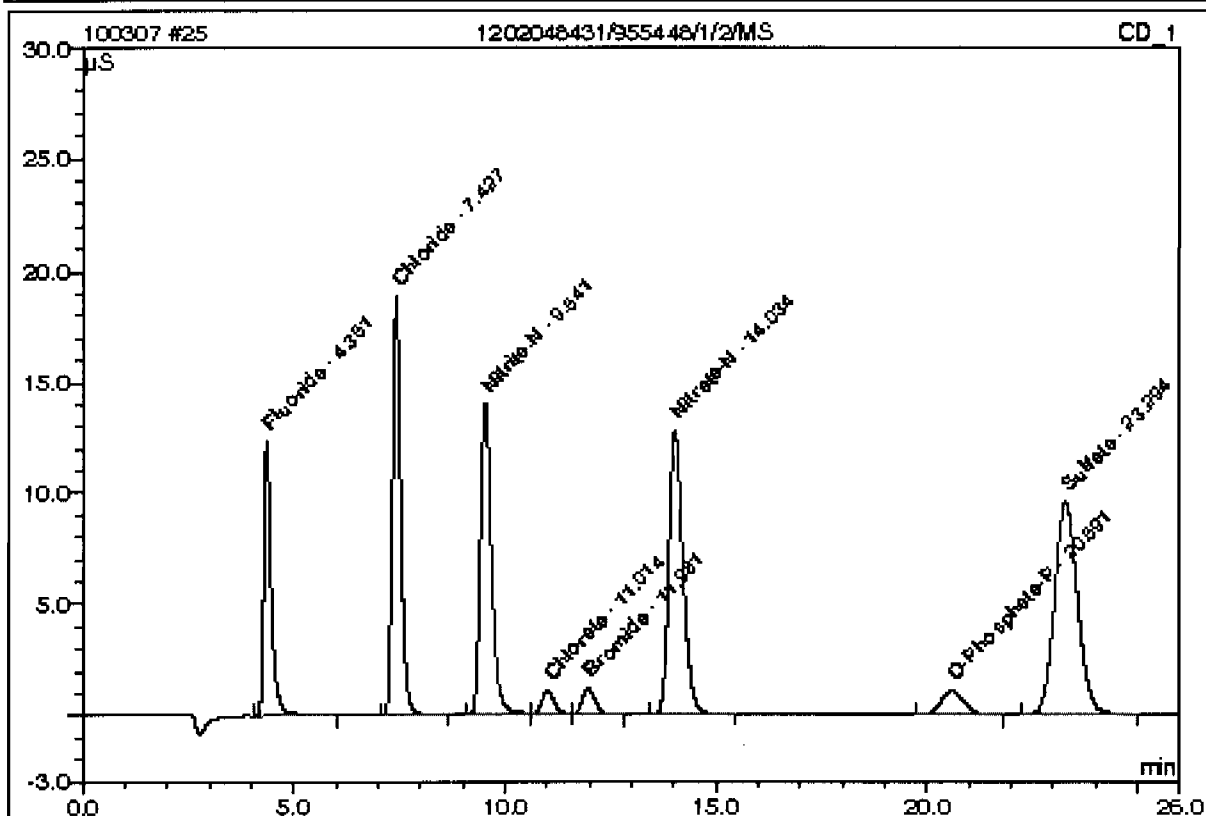
Sample Name:	1202048429/955448/1/2/DUP	Injection Volume:	1.0
Vial Number:	11	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 15:47	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret. Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel. Area %
1	4.37	Fluoride	n.a.	0.2747		0.12302	24.38
2	7.42	Chloride	n.a.	0.4264		0.10478	20.76
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
3	14.09	Nitrate-N	n.a.	0.1133		0.02334	4.63
4	20.62	O-Phosphate-P	n.a.	0.3041		0.04505	8.93
5	23.29	Sulfate	n.a.	0.9884		0.20844	41.31
Total:				2.1070	0.000	0.505	100.00

25 1202048431/955448/1/2/MS

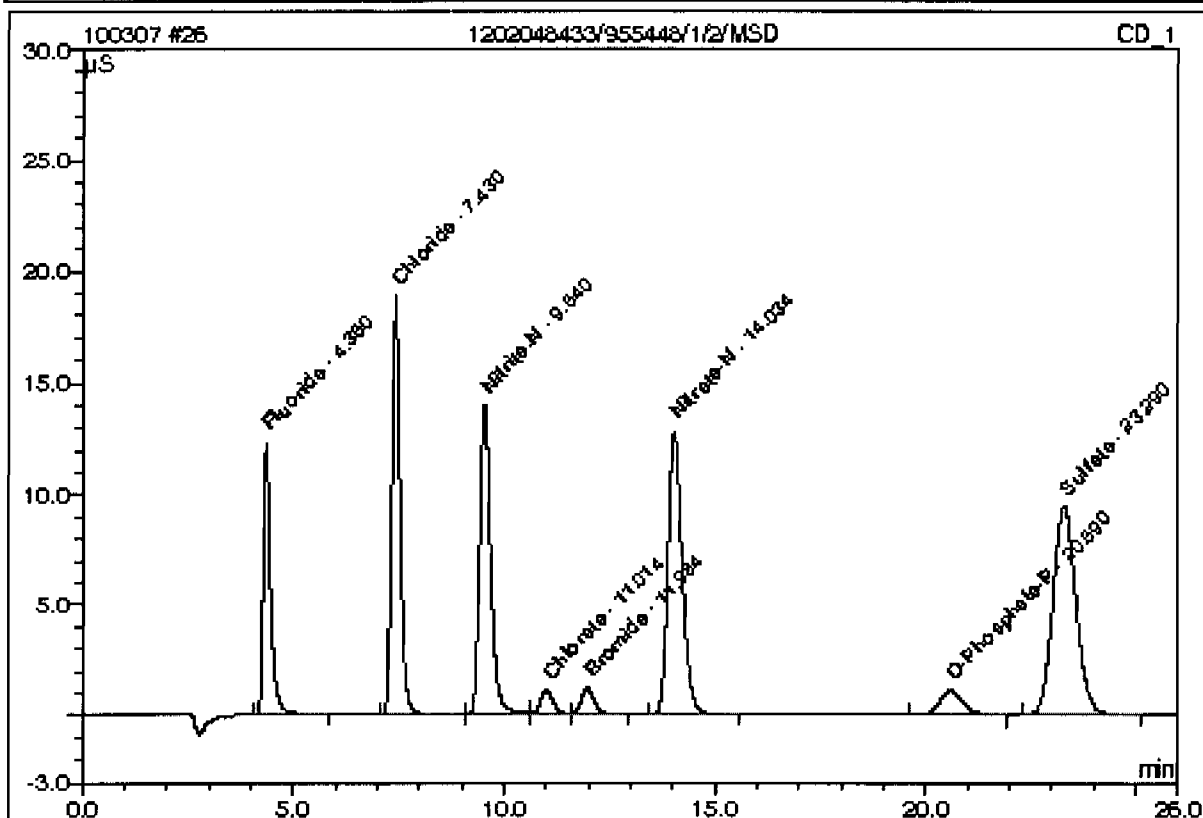
Sample Name:	1202048431/955448/1/2/MS	Injection Volume:	1.0
Vial Number:	12	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 16:16	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCE086;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.36	Fluoride	n.a.	4.4740		2.54195	10.74
2	7.43	Chloride	n.a.	10.3039		4.34638	18.36
3	9.54	Nitrite-N	n.a.	5.1247		4.24404	17.93
4	11.01	Chlorate	n.a.	2.5968		0.37463	1.58
5	11.98	Bromide	n.a.	2.6272		0.40409	1.71
6	14.03	Nitrate-N	n.a.	5.0701		5.03778	21.28
7	20.59	O-Phosphate-P	n.a.	2.5626		0.68896	2.91
8	23.29	Sulfate	n.a.	20.6805		6.03444	25.49
Total:				53.4398	0.000	23.672	100.00

26 1202048433/955448/1/2/MSD

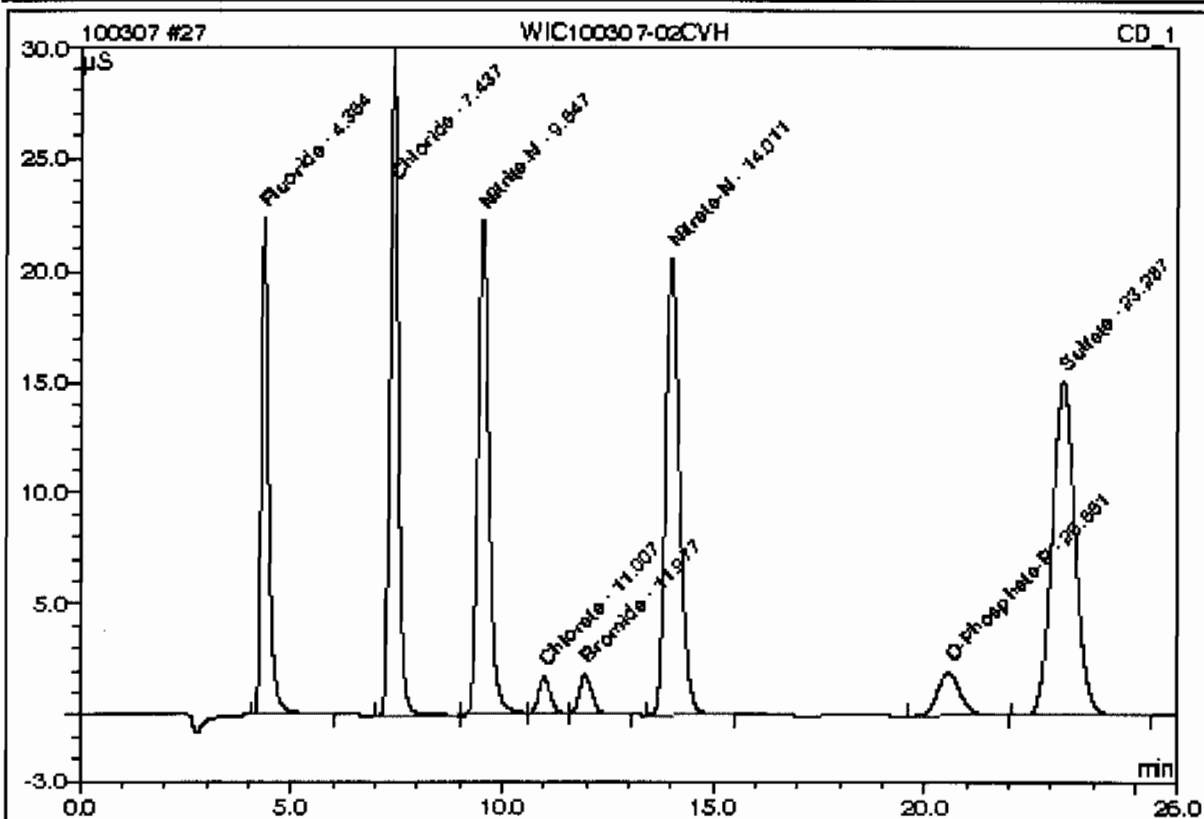
Sample Name:	1202048433/955448/1/2/MSD	Injection Volume:	1.0
Vial Number:	13	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 16:44	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
1	4.36	Fluoride	n.a.	4.4526		2.52965	10.66
2	7.43	Chloride	n.a.	10.3076		4.34797	18.33
3	9.54	Nitrite-N	n.a.	5.1617		4.27506	18.02
4	11.01	Chloride	n.a.	2.7363		0.39511	1.67
5	11.98	Bromide	n.a.	2.6917		0.41403	1.75
6	14.03	Nitrate-N	n.a.	5.0818		5.04965	21.29
7	20.59	O-Phosphate-P	n.a.	2.6136		0.70340	2.96
8	23.29	Sulfate	n.a.	20.5940		6.00885	25.33
Total:				53.6393	0.000	23.724	100.00

27 WIC100307-02CVH

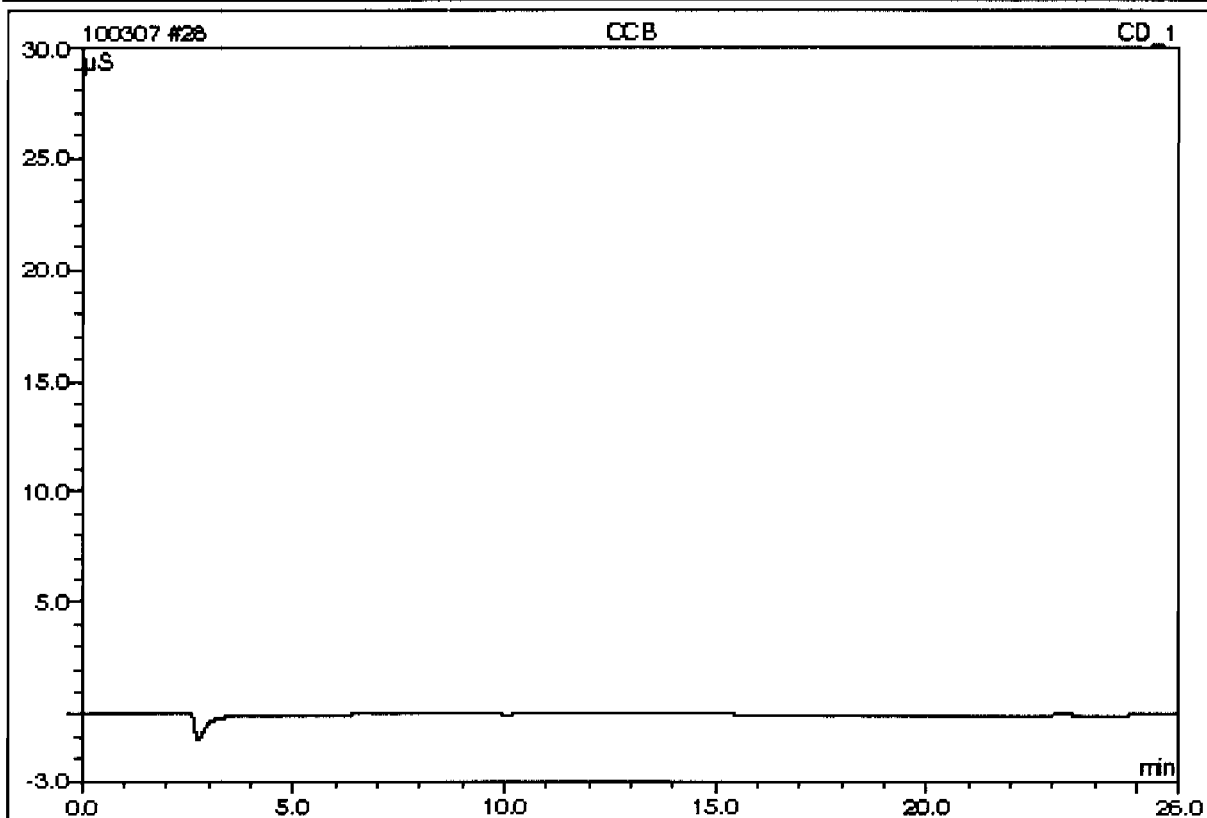
Sample Name:	WIC100307-02CVH	Injection Volume:	1.0
Vial Number:	14	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 17:13	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GC ED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area μS*min	Rel.Area %
1	4.38	Fluoride	n.a.	7.9583		4.54905	11.96
2	7.44	Chloride	n.a.	16.0681		6.82168	17.94
3	9.55	Nitrite-N	n.a.	8.0838		6.72558	17.69
4	11.01	Chlorate	n.a.	4.0239		0.58418	1.54
5	11.98	Bromide	n.a.	4.1051		0.63200	1.66
6	14.01	Nitrate-N	n.a.	8.0441		8.04641	21.16
7	20.56	O-Phosphate-P	n.a.	4.3592		1.20100	3.16
8	23.29	Sulfate	n.a.	32.2717		9.46373	24.89
Total:				84.9142	0.000	38.024	100.00

28 CCB

Sample Name:	CCB	Injection Volume:	1.0
Vial Number:	15	Channel:	CD_1
Sample Type:	unknown	Dilution Factor:	1.0000
Control Program:	AS23	Sample Weight:	1.0000
Quantif. Method:	100225an	Sample Amount:	1.0000
Recording Time:	3/7/2010 17:42	Analyst:	MAR1
Run Time (min):	26.00	Column:	AS23-001528; GL GCED86;300;9056



No.	Ret.Time min	Peak Name	Concentration mg/L	Amount mg/L	Modified?	Area µS*min	Rel.Area %
n.a.	n.a.	Fluoride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chloride	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrite-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Nitrate-N	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	O-Phosphate-P	n.a.	n.a.	n.a.	n.a.	n.a.
n.a.	n.a.	Sulfate	n.a.	n.a.	n.a.	n.a.	n.a.
Total:				0.0000	0.000	0.000	0.00

pH

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 954988
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type: CCV
 Sample Id: 240
 Serial Number: IMM091029-PH
 Description: PH 7 BUFFER FOR PH
 LCS
 1202047374
 IMM100209-01
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Parname	Initial Wt(g)	Final Vol(mL)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
1202047374 LCS		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:06	pH	20	20	7.02	19.3°C	7	100.286	
1202047374 LCS		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:06	pH 2	20	20	7.02	19.3°C			
246249003		Misc Solid	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:09	pH	5	20	8.64	20.8°C			
246249003		Misc Solid	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:09	pH 2	5	20	8.64	20.8°C			
247283002		Misc Solid	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:13	pH	11	20	0.95	20.9°C			
247283002		Misc Solid	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:13	pH 2	11	20	0.95	20.8°C			
247336001		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:21	pH	20	20	11.37	20.0°C			
247336001		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:21	pH 2	20	20	11.39	20.0°C			
1202047372 DUP	247336001	Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:22	pH	20	20	11.22	20.1°C			1.328
1202047372 DUP	247336001	Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:22	pH 2	20	20	11.21	20.0°C			1.593
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:24	pH	20	20	7.01	18.6°C	7	100.143	
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:24	pH 2	20	20	7.01	18.5°C	7	100.143	
247336002		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:25	pH	20	20	9.05	19.9°C			
247336002		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:25	pH 2	20	20	9.05	19.9°C			
247336003		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:27	pH	20	20	8.77	19.9°C			
247336003		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:27	pH 2	20	20	8.77	20.0°C			
247336004		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:29	pH	20	20	11.13	20.1°C			
247336004		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:29	pH 2	20	20	11.13	20.1°C			
247336005		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:31	pH	20	20	10.36	19.8°C			
247336005		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:31	pH 2	20	20	10.36	20.0°C			
247336006		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:32	pH	20	20	10	19.2°C			
247336006		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:32	pH 2	20	20	10	19.4°C			

GEL Laboratories LLC

Page#

pH / Corrosivity LogBook

Analyst: TXT1
 Batch: 954988
 Lab SOP: GL-GC-E-008 REV# 17
 Description: pH
 Method: SW846 9045C/9045D

Type: CCV
 Sample Id: 240
 Serial Number: IMM091029-PH
 Description: PH 7 BUFFER FOR PH
 LCS
 1202047374
 IMM100209-01
 LCS BUFFER SOLUTION

Sample id	Parent Sample Id	Matrix	Start Time	Stop Time	Run Date	Paramname	Initial Wt(g)	Final Vol(ml)	Ph	Temp	Nc(mg/L)	Recovery(%)	Rpd(%)
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:35	pH	20	20	7	18.5°C	7	100	
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:35	pH 2	20	20	7	18.5°C	7	100	
247336007		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:36	pH	20	20	9.17	19.3°C			
247336007		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:36	pH 2	20	20	9.17	19.7°C			
247359001		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:39	pH	20	20	5.29	19.8°C			
247359001		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:39	pH 2	20	20	5.26	19.8°C			
1202047373 DUP	247359001	Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:41	pH	20	20	5.3	19.8°C			.189
1202047373 DUP	247359001	Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:41	pH 2	20	20	5.29	19.9°C			.569
247359002		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:42	pH	20	20	5.96	19.8°C			
247359002		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:42	pH 2	20	20	5.96	19.9°C			
247359003		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:44	pH	20	20	6.58	19.7°C			
247359003		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:44	pH 2	20	20	6.58	19.8°C			
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:46	pH	20	20	7	18.5°C	7	100	
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:46	pH 2	20	20	6.99	18.5°C	7	99.857	
247359004		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:48	pH	20	20	8.4	19.5°C			
247359004		Soil	18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:48	pH 2	20	20	8.38	19.5°C			
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:51	pH	20	20	7	18.5°C	7	100	
CCV			18-FEB-2010 15:50:00	18-FEB-2010 15:55:00	18-FEB-10 16:51	pH 2	20	20	6.99	18.5°C	7	99.857	

Comments:

pH / Corrosivity LogBook

Calibration Information:

Run Date: 18-FEB-10 16:01
Instrument: PHX742
Analyst: TXT1

	Standard	Observed	Theoretical	C	%Recovery
16:01	IMM100218-PH1	4.01	4	20.5	100.25
16:01	IMM100218-PH-	7	7	20.5	100
16:01	UPH100218-b	10.05	10	20.5	100.5
16:01	UPH100218-02c-	2.01	2	20.5	100.5
16:01	100218-b	12.08	12	20.5	100.67
16:01	IMM100218-01b	7.03	7	20.5	100.43